

2021 Hazardous Waste Scanning Project

File Form Naming Convention.

(File_Type).(Program).(Site_Number).(YYYY-MM-DD).(File_Name).pdf

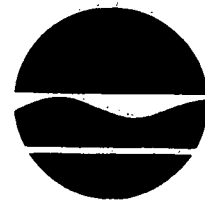
Note 1: Each category is separated by a period "."

Note 2: Each word within category is separated by an underscore "_"

Specific File Naming Convention Label:

Report.HW. 932020. 1994-01-01. LTGWM-94.pdf

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233-7610



Thomas C. Jorling
Commissioner

Mr. Albert Zaepfel
Industrial Monitoring Coordinator
Department of Utilities
Niagara Waste Water Plant
1200 Buffalo Avenue
Niagara Falls, NY 14302

Dear Mr. Zaepfel:

RE: 1994 First Quarter Analytical and Flow Results

Enclosed are the Self-Monitoring Data and Compliance Reports for the first quarter samples which were collected on December 6, 1993 at the Love Canal Leachate Treatment Facility (LCLTF). These reports fulfill the monitoring requirements for the LCLTF Final Waste Water Discharge Permit No. 16. All of the facility and sewer use ordinance parameters are found to be at the working detection limit of the laboratory. Also enclosed are copies of the RECRA Environmental, Inc. Analytical Report as backup.

If there are any questions concerning the data, please telephone Mr. Ronnie Lee, of my staff, at (518) 457-0927.

Sincerely,

Gerald J. Rider, Jr., P.E.
Chief, Operation, Maintenance & Support Section
Bureau of Hazardous Site Control
Division of Hazardous Waste Remediation

Enclosures

cc:w/enc. - N. Marchelos, City of Niagara Falls
R. Lee, NYSDEC

bcc: w/enc. P. Buechi, Reg. 9
B. Sadowski
M. Podd

w/o enc. - M. O'Toole
E. Barcomb

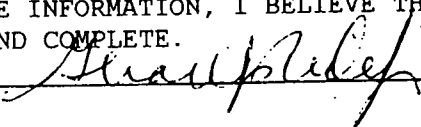
SIU SELF-MONITORING DATA REPORT
FOR THE CITY OF NIAGARA FALLS

PERMIT NO. 16 QUARTER FIRST

INDUSTRY NAME LOVE CANAL LEACHATE TREAT. FACILITY PAGE 1 OF 6

PURSUANT TO THE REPORTING REQUIREMENTS FOR THOSE SIU'S REQUIRED TO SUBMIT A QUARTERLY SELF-MONITORING REPORT., THIS REPORT SHALL BE SUBMITTED SUBJECT TO THE FOLLOWING CONDITIONS: THIS REPORT SHALL BE SUBMITTED TO THE CITY QUARTERLY ON OR BEFORE FEBRUARY 28, MAY 31, AUGUST 31, NOVEMBER 30 EACH YEAR. EACH SECTION MUST BE FILLED OUT FOR THOSE PARAMETERS LISTED IN SECTION G OF YOUR WASTEWATER DISCHARGE PERMIT. THE RESULTS MUST BE REPORTED IN CONCENTRATION, MASS, AND ANNUAL AVERAGES FOR ALL PARAMETERS LISTED IN SECTION G OF THE PERMIT. THE SAMPLE LOCATION SHOULD ONLY BE IDENTIFIED AS LISTED ON PAGE TWO (2) OF THE WASTEWATER DISCHARGE PERMIT. PART II OF THE REPORT IS THE COMPLIANCE MONITORING SECTION. ALL VIOLATIONS NOTED IN YOUR QUARTERLY ANALYSIS SHALL BE LISTED HERE. QUARTERLY DATA SHOULD BE COMPARED TO ALL PERMIT, LOCAL ORDINANCE AND FEDERAL STANDARDS. IF NO VIOLATIONS ARE DETECTED, THEN "NO VIOLATIONS" SHOULD APPEAR ON THE REPORT. PURSUANT TO SECTION 40 CFR 403.12g OF THE FEDERAL STANDARDS, ALL VIOLATIONS NOTED MUST BE FOLLOWED UP BY A SAMPLE RECOLLECT AND ANALYSIS AND THE RESULTS SUBMITTED TO THE CITY WITHIN 30 DAYS OF FIRST BECOMING AWARE OF THE VIOLATION.

PURSUANT TO SECTION 40 CFR 403.2 ALL REPORTS SUBMITTED TO THE CITY MUST BE SIGNED BY A COMPANY OFFICIAL.

I CERTIFY THAT I HAVE EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE.
SIGNED 

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 2 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St. EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/
Date Sampled	12/6/93					
24 Hr Flow(MGD)	0.5700					
Monochloro-phenol	<10		<0.00476		<10	<0.00426
Dichloro-phenol	<10		<0.00476		<10	<0.00426
Monochloro-cresol	<10		<0.00476		<10	<0.00426
Trichloro-phenol	<10		<0.00476		<10	<0.00426
Hexachlorocyclohexanes						
PCB's						
Endosulfan						
Mirex						
Endosulfan Sulfate						
Declorane Plus						
Heptachlor						

PART I SELF MONITORING

SIU PERMIT NAME Wastewater Discharge Permit

Page 3 of 6

SIU PERMIT NO. 16

SAMPLE LOCATION (as per permit) 97th Effluent

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	1/12/93					
24 Hr Flow(MGD)	0.0540					
Dimethyl Phthalate	<10		<0.00451		<10.50	<0.00460
Butyl Benzyl Phthalate	<10		<0.00451		<10.50	<0.00460
Dibutyl Phthalate	<10		<0.00451		<10.50	<0.00460
Nitrosodiphenylamine	<10		<0.00451		<10.50	<0.00460
Dichlorobenzenes	<3		<0.00135		<3.25	<0.00143
Dichlorotoluene	<10		<0.00451		<10.50	<0.00460
Acenaphthene	<10		<0.00451		<10.50	<0.00460
Flouranthene	<3		<0.00135		<7.00	<0.00315
Chrysene	<3		<0.0135		<3.25	<0.00143
Naphthalene	<10		<0.00451		<10.50	<0.00460
Benzo(a)Anthracene	<3		<0.00135		<3.25	<0.00143
Pyrene	<10		<0.00451		<10.50	<0.00460
Trichlorobenzene	<10		<0.00451		<10.50	<0.00460
Trichlorotoluene	<10		<0.00451		<10.50	<0.00460
Hexachloro-butadiene	<10		<0.00451		<10.50	<0.00460
Tetrachlorobenzene	-		-		-	-
Hexachlorobenzene	<10		<0.00451		<10.50	<0.00460
Dichlorobenzo-trifluoride	<10		<0.00451		<10.50	<0.00460
Phenanthrene	<10		<0.00451		<10.50	<0.00460

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 4 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	12/6/93					
24 Hr Flow(MGD)	0.0570					
Benzene	<5		<0.00238		<5	<0.00213
Carbon Tetra-Chloride	<5		<0.00238		<5	<0.00213
Chlorodibromo-methane	<5		<0.00238		<5	<0.00213
Monochlorobenzene	<5		<0.00238		<5	<0.00213
Dichlorobromo-methane	<5		<0.00238		<5	<0.00213
Chloroform	<5		<0.00238		<5	<0.00213
Dichloroethylene	<5		<0.00238		<5	<0.00213
Bromoform	<5		<0.00238		<5	<0.00213
Dichloropropylenes	<5		<0.00238		<5	<0.00213
Ethylbenzene	<5		<0.00238		<5	<0.00213
Tetrachloroethanes	<5		<0.00238		<5	<0.00213
Tetrachloro-ethylene	<5		<0.00238		<5	<0.00213
Toluene	<5		<0.00238		<4	<0.00167
Trichloroethanes	<5		<0.00238		<5	<0.00213
Trichloroethylene	<5		<0.00238		<5	<0.00213
Methylene Chloride	<5		<0.00238		<5	<0.00213
Monochlorotoluenes	<5		<0.00238		<5	<0.00213
Monochlorobenzo-trifluoride	<5		<0.00238		<5	<0.00213

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 5 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St. EFFLUENT

	RESULTS IN mg/l		RESULTS IN lbs/d		ANNUAL AVG mg/l	ANNUAL AVG lb/d
Date Sampled	12/6/93					
24 Hr Flow(MGD)	0.0570					
Total Suspended Solids	<4.0		<1.903		<4.10	<1.73
Soluble Organic Carbon	<1.0		<0.476		<5.83	<2.514
Total Phosphorus	-		-		-	-
Total Phenol	0.009		0.004		<0.01	<0.003
Cadmium						
Chromium						
Copper						
Lead						
Mercury						
Nickel						
Zinc						
Total Cyanide						
pH (std units)			N/A	N/A	N/A	N/A

PART II COMPLIANCE MONITORING

INDUSTRY NAME LOVE CANAL LEACHATE TREATMENT FACILITY Page 6 of 6PERMIT NO. 16

Violation Parameter	Date	Flow (MGD)	Sample Pt Location	Actual* Discharge	Permit Limit	Type Limit Violated**
SOC	Nov. 1993		effluent	No violation	75 lb/d	
	Dec. 1993		effluent	No violation	"	
	Jan. 1994		effluent	No violation	"	
TSS	Nov. 1994		effluent	No violation	16 lb/d	
	Dec. 1993		effluent	No violation	"	
	Jan. 1994		effluent	No violation	"	

* Actual Discharge - List actual analytical results and appropriate units

** Type Limit Violated - List type: A.A. = Annual Avg., D.M. = Daily Max,
L.L. = Local Limit (Ordinance 250.5.1)

Date Prepared: February 28, 1994

NEW YORK STATE DEPARTMENT ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
BUREAU OF CONSTRUCTION SERVICES
OPERATION AND MAINTENANCE SECTION

LOVE CANAL LEACHATE TREATMENT FACILITY

FIRST QUARTER 1994

EFFLUENT

LINE NO.	CALENDAR DATE	FLOW GPD
60	11/01/93	40000
61	11/04/93	4000
62	11/05/93	57000
63	11/08/93	51000
64	11/12/93	28300
65	11/18/93	42000
66	11/22/93	31500
67	11/25/93	15500
68	11/29/93	58000
69	11/30/93	57000
	SUBTOTAL	384300
70	12/01/93	56000
71	12/06/93	57000
72	12/07/93	58500
73	12/10/93	24000
74	12/15/93	50000
75	12/20/93	25500
76	12/23/93	54000
77	12/28/93	38050
	SUBTOTAL	363050
1	01/03/94	39000
2	01/13/94	29000
3	01/14/94	30100
	SUBTOTAL	98100

quarterly

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. **0020**

L1720E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 12013

Matrix: (soil/water) WATER Lab Sample ID: AS052149

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 16107Y

Level: (low/med) LOW Date Received: 12/06/93

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/09/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/14/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	3	U
106-46-7-----	1,4-Dichlorobenzene	3	U
95-50-1-----	1,2-Dichlorobenzene	3	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
131-11-3-----	Dimethyl Phthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	25	U

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

L1720E

Lab Name: RECRA ENVIRON Contract: C002412
 Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 12013
 Matrix: (soil/water) WATER Lab Sample ID: AS052149
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: 16107Y
 Level: (low/med) LOW Date Received: 12/06/93
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 12/09/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/14/93
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

86-30-6-----N-Nitrosodiphenylamine (1)_____	10	U
101-55-3-----4-Bromophenyl-phenylether_____	10	U
118-74-1-----Hexachlorobenzene_____	10	U
87-86-5-----Pentachlorophenol_____	25	U
85-01-8-----Phenanthrene_____	10	U
120-12-7-----Anthracene_____	10	U
84-74-2-----Di-n-Butylphthalate_____	10	U
206-44-0-----Fluoranthene_____	3	U
62-75-9-----N-Nitrosodimethylamine_____	10	U
92-87-5-----Benzidine_____	80	U
129-00-0-----Pyrene_____	10	U
85-68-7-----Butylbenzylphthalate_____	10	U
91-94-1-----3,3'-Dichlorobenzidine_____	10	U
56-55-3-----Benzo(a)Anthracene_____	3	U
218-01-9-----Chrysene_____	3	U
117-81-7-----Bis(2-Ethylhexyl)Phthalate_____	10	U
117-84-0-----Di-n-Octyl Phthalate_____	10	U
205-99-2-----Benzo(b)Fluoranthene_____	10	U
207-08-9-----Benzo(k)Fluoranthene_____	10	U
50-32-8-----Benzo(a)Pyrene_____	10	U
193-39-5-----Indeno(1,2,3-cd)Pyrene_____	10	U
53-70-3-----Dibenz(a,h)Anthracene_____	10	U
191-24-2-----Benzo(g,h,i)Perylene_____	10	U
320-60-5-----Dichlorobenzotrifluorides_____	10	U
611-19-8-----alpha,2-Dichlorotoluene_____	10	U
620-20-2-----alpha,3-Dichlorotoluene_____	10	U
104-83-6-----alpha,4-Dichlorotoluene_____	10	U
95-73-8-----2,4-Dichlorotoluene_____	10	U
118-69-4-----2,6-Dichlorotoluene_____	10	U
95-75-0-----3,4-Dichlorotoluene_____	10	U
98-07-7-----a,a,a-trichlorotoluene_____	10	U
94-99-5-----alpha,2,4-trichlorotoluene_____	10	U
102-47-6-----alpha,3,4-trichlorotoluene_____	10	U

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

L1720E

Lab Name: RECRA ENVIRON Contract: C002412
 Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 12013
 Matrix: (soil/water) WATER Lab Sample ID: AS052149
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: 16107Y
 Level: (low/med) LOW Date Received: 12/06/93
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 12/09/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/14/93
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

61878-57-F-----	2,4,5-trichlorotoluene	10	U
236CL-3T-O-----	2,3,6-Trichlorotoluene	10	U
CL4TOL-----	Tetrachlorotoluene	10	U
98-87-3-----	alpha,alpha-Dichlorotoluene	10	U
19398-61-9-----	2,5-Dichlorotoluene	10	U
2014-83-7-----	alpha,2,6-trichlorotoluene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

L1720E

Lab Name: RECRA ENVIRON Contract: C002412
 Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 12013
 Matrix: (soil/water) WATER Lab Sample ID: AS052149
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: 16107Y
 Level: (low/med) LOW Date Received: 12/06/93
 % Moisture: _____ decanted: (Y/N) _____ Date Extracted: 12/09/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/14/93
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	OXYGENATED COMPOUND	3.95	38	J
2.	UNKNOWN	4.23	32	BJ
3.	CYCLOHEXEN-1-OL ISOMER	5.03	7	BJ
4.	DICHLOROCYCLOHEXANE ISOMER	9.12	3	J
5. 7704-34-9	SULFUR	24.30	79	JN

N I S DEC
Wet Chemistry Analysis

0025

Client Sample No.

L1723E

Lab Name: Recra Environmental, Inc.

Contract: _____

Lab Code: RECNY

Case No.: L093

SAS No.: _____

SDG No.: 12013

Matrix (soil/water): WATER

Lab Sample ID: AS052155

% Solids: 0.0

Date Samp/Recv: 12/06/93 12/06/93

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Non-Filterable Residue (103°C)	MG/L	4.0	U			160.2	12/09/93
Soluble Organic Carbon	MG/L	1.0	U			415.1	12/28/93

N I S DEC
Wet Chemistry Analysis

Client Sample No.

L172iE

Lab Name: Recra Environmental, Inc.

Contract: _____

Lab Code: RECNY

Case No.: L093

SAS No.: _____

SDG No.: 12013

Matrix (soil/water): WATER

Lab Sample ID: AS052150

Date Samp/Recv: 12/06/93 12/06/93

* Solids: 0.0

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Recoverable Phenolics _____	MG/L	0.0090				420.2	12/30/93

1X
ORGANICS ANALYSIS DATA SHEET

0014
SAMPLE NO.

L1722E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 12013

Matrix: (soil/water) WATER Lab Sample ID: AS052151

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8512

Level: (low/med) LOW Date Received: 12/06/93

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 12/09/93

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
110-75-8	2-Chloroethylvinyl ether	10	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	10	U
12/14DCLB	1,2- & 1,4-Dichlorobenzene	10	U
75-69-4	Trichlorofluoromethane	10	U

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

L1722E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 12013

Matrix: (soil/water) WATER Lab Sample ID: AS052151

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8512

Level: (low/med) LOW Date Received: 12/06/93

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 12/09/93

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

O,M CLTOL-----o & m-Chlorotoluene	5	U
106-43-4-----p-Chlorotoluene	5	U
88-16-4-----2-Monochlorobenzotrifluoride	5	U
98-15-7-----3-Monochlorobenzotrifluoride	5	U
98-56-6-----4-Monochlorobenzotrifluoride	5	U

1X
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

L1722E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 12013

Matrix: (soil/water) WATER Lab Sample ID: AS052151

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K8512

Level: (low/med) LOW Date Received: 12/06/93

% Moisture: not dec. _____ Date Analyzed: 12/09/93

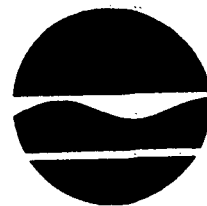
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
-----	-----	-----	-----	-----

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



Langdon Marsh
Acting Commissioner

MAY 31 1994

Mr. Albert Zaepfel
Industrial Monitoring Coordinator
Department of Utilities
Niagara Waste Water Plant
1200 Buffalo Avenue
Niagara Falls, NY 14302

Dear Mr. Zaepfel:

RE: 1994 Second Quarter Analytical and Flow Results

Enclosed are the Self-Monitoring Data and Compliance Reports for the second quarter samples which were collected on April 19, 1994 at the Love Canal Leachate Treatment Facility (LCLTF). These reports fulfill the monitoring requirements for the LCLTF Final Waste Water Discharge Permit No. 16. All of the facility and sewer use ordinance parameters are found to be at the working detection limit of the laboratory. Also enclosed are copies of the RECRA Environmental, Inc. Analytical Report as backup.

If there are any questions concerning the data, please telephone Ronnie Lee, of my staff, at (518) 457-0927.

Sincerely,

Gerald J. Rider, Jr., P.E.
Chief, Operation, Maintenance & Support Section
Bureau of Hazardous Site Control
Division of Hazardous Waste Remediation

Enclosures

cc:w/enc. - N. Marchelos, City of Niagara Falls
R. Lee, NYSDEC

a:zaepfel:RL:et

bcc: w/enc.- P. Buechi, Reg. 9
~~B. Sadowski~~
M. Podd

w/o enc. - M. O'Toole
E. Barcomb

SIU SELF-MONITORING DATA REPORT
FOR THE CITY OF NIAGARA FALLS

PERMIT NO. _____ 16 _____ QUARTER SECOND

INDUSTRY NAME LOVE CANAL LEACHATE TREAT. FACILITY PAGE 1 OF 6

PURSUANT TO THE REPORTING REQUIREMENTS FOR THOSE SIU'S REQUIRED TO SUBMIT A QUARTERLY SELF-MONITORING REPORT., THIS REPORT SHALL BE SUBMITTED SUBJECT TO THE FOLLOWING CONDITIONS: THIS REPORT SHALL BE SUBMITTED TO THE CITY QUARTERLY ON OR BEFORE FEBRUARY 28, MAY 31, AUGUST 31, NOVEMBER 30 EACH YEAR. EACH SECTION MUST BE FILLED OUT FOR THOSE PARAMETERS LISTED IN SECTION G OF YOUR WASTEWATER DISCHARGE PERMIT. THE RESULTS MUST BE REPORTED IN CONCENTRATION, MASS, AND ANNUAL AVERAGES FOR ALL PARAMETERS LISTED IN SECTION G OF THE PERMIT. THE SAMPLE LOCATION SHOULD ONLY BE IDENTIFIED AS LISTED ON PAGE TWO (2) OF THE WASTEWATER DISCHARGE PERMIT. PART II OF THE REPORT IS THE COMPLIANCE MONITORING SECTION. ALL VIOLATIONS NOTED IN YOUR QUARTERLY ANALYSIS SHALL BE LISTED HERE. QUARTERLY DATA SHOULD BE COMPARED TO ALL PERMIT, LOCAL ORDINANCE AND FEDERAL STANDARDS. IF NO VIOLATIONS ARE DETECTED; THEN "NO VIOLATIONS" SHOULD APPEAR ON THE REPORT. PURSUANT TO SECTION 40 CFR 403.12g OF THE FEDERAL STANDARDS, ALL VIOLATIONS NOTED MUST BE FOLLOWED UP BY A SAMPLE RECOLLECT AND ANALYSIS AND THE RESULTS SUBMITTED TO THE CITY WITHIN 30 DAYS OF FIRST BECOMING AWARE OF THE VIOLATION.

PURSUANT TO SECTION 40 CFR 403.2 ALL REPORTS SUBMITTED TO THE CITY MUST BE SIGNED BY A COMPANY OFFICIAL.

I CERTIFY THAT I HAVE EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE.

SIGNED _____

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 2 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St. EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	4/19/94					
24 Hr Flow (MGD)	0.4350					
Monochloro-phenol	<10		<0.00363		<10	<0.00403
Dichloro-phenol	<10		<0.00363		<10	<0.00403
Monochloro-cresol	<10		<0.00363		<10	<0.00403
Trichloro-phenol	<10		<0.00363		<10	<0.00403
Hexachlorocyclohexanes						
PCB's						
Endosulfan						
Mirex						
Endosulfan Sulfate						
Declorane Plus						
Heptachlor						

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 3 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St. EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	4/19/94					
24 Hr Flow (MGD)	0.0435					
Dimethyl Phthalate	<10		<0.00363		<10	<0.00403
Butyl Benzyl Phthalate	<10		<0.00363		<10	<0.00403
Dibutyl Phthalate	0.22		0.00008		<7.56	<0.00314
Nitrosodiphenylamine	<10		<0.00363		<10	<0.00403
Dichlorobenzenes	<3		<0.00109		<3	<0.00121
Dichlorotoluene	<10		<0.00363		<10	<0.00403
Acenaphthene	<10		<0.00363		<10	<0.00403
Fluoranthene	<3		<0.00109		<3	<0.00121
Chrysene	<3		<0.00109		<3	<0.00121
Naphthalene	<10		<0.00363		<10	<0.00403
Benzo(a) Anthracene	<3		<0.00109		<3	<0.00121
Pyrene	<10		<0.00363		<10	<0.00403
Trichlorobenzene	<10		<0.00363		<10	<0.00403
Trichlorotoluene	<10		<0.00363		<10	<0.00403
Hexachlorobutadiene	<10		<0.00363		<10	<0.00403
Tetrachlorobenzene	-		-		-	-
Hexachlorobenzene	<10		<0.00363		<10	<0.00403
Dichlorobenzo-trifluoride	<10		<0.00363		<10	<0.00403
Phenanthrene	<10		<0.00363		<10	<0.00403

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 4 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	4/19/94					
24 Hr Flow(MGD)	0.0435					
Benzene	<5		<0.00181		<5	<0.00201
Carbon Tetra-Chloride	<5		<0.00181		<5	<0.00201
Chlorodibromo-methane	<5		<0.00181		<5	<0.00201
Dichlorobromo-methane	<5		<0.00181		<5	<0.00201
Monochlorobenzene	<5		<0.00181		<5	<0.00201
Dichlorobromo-methane	<5		<0.00181		<5	<0.00201
Chloroform	<5		<0.00181		<3.83	<0.00145
Dichloroethylene	<5		<0.00181		<5	<0.00201
Bromoform	<5		<0.00181		<5	<0.00201
Dichloropropylenes	<5		<0.00181		<5	<0.00201
Ethylbenzene	<5		<0.00181		<5	<0.00201
Tetrachloroethanes	<5		<0.00181		<5	<0.00201
Tetrachloro-ethylene	<5		<0.00181		<5	<0.00201
Toluene	<5		<0.00181		<5	<0.00201
Trichloroethanes	<5		<0.00181		<5	<0.00201
Trichloroethylene	<5		<0.00181		<5	<0.00201
Methylene Chloride	<5		<0.00181		<5	<0.00201
Monochlorotoluenes	<5		<0.00181		<5	<0.00201
Monochlorobenzo-trifluoride	<5		<0.00181		<5	<0.00201

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 5 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St EFFLUENT

	RESULTS IN mg/l		RESULTS IN lbs/d		ANNUAL AVG mg/l	ANNUAL AVG lb/d
Date Sampled	4/19/94					
24 Hr Flow(MGD)	0.0435					
Total Suspended Solids	<4		<1.452		<4.10	<1.638
Soluble Organic Carbon	<1		<0.363		<2.83	<1.127
Total Phosphorus	-		-		-	-
Total Phenol	<0.005		<0.002		<0.01	<0.00299
Cadmium	<0.0066		<0.0024		<0.0034	<0.0012
Chromium	<0.010		<0.0036		<0.0145	<0.0044
Copper	<0.010		<0.0036		<0.0130	<0.0040
Lead	<0.002		<0.0007		<0.0020	<0.0006
Mercury	<0.0002		<0.0001		<0.0002	<0.0001
Nickel	<0.030		<0.0109		<0.0350	<0.0109
Zinc	<0.010		<0.0036		<0.0185	<0.0055
Total Cyanide						
pH (std units)			N/A	N/A	N/A	N/A

PART II COMPLIANCE MONITORING

INDUSTRY NAME LOVE CANAL LEACHATE TREATMENT FACILITY Page 6 of 6PERMIT NO. 16

Violation Parameter	Date	Flow (MGD)	Sample Pt Location	Actual* Discharge	Permit Limit	Type Limit Violated**
SOC	Feb. 1994		effluent	No violation	75 lb/d	
	Mar. 1994		effluent	No violation		
	Apr. 1994		effluent	No violation		
TSS	Feb. 1994		effluent	No violation	16 lb/d	
	Mar. 1994		effluent	No violation		
	Apr. 1994		effluent	No violation		

* Actual Discharge - List actual analytical results and appropriate units

** Type Limit Violated - List type: A.A. = Annual Avg., D.M. = Daily Max,
L.L. = Local Limit (Ordinance 250.5.1)

Date Prepared: May 27, 1994

NEW YORK STATE DEPARTMENT ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
BUREAU OF HAZARDOUS SITE CONTROL
OPERATION, MAINTENANCE & SUPPORT SECTION

LOVE CANAL LEACHATE TREATMENT FACILITY

SECOND QUARTER 1994

EFFLUENT

LINE NO.	CALENDAR DATE	FLOW GPD
4	02/02/94	39000
5	02/03/94	54000
6	02/04/94	50500
7	02/15/94	49000
8	02/22/94	49000
9	02/23/94	50000
10	02/24/94	23000
SUBTOTAL		314500
11	03/01/94	46000
12	03/07/94	36500
13	03/11/94	43000
14	03/16/94	51500
15	03/21/94	50500
16	03/22/94	52000
17	03/23/94	54000
18	03/24/94	50000
19	03/25/94	31500
20	03/28/94	43000
21	03/31/94	37500
SUBTOTAL		495500
22	04/04/94	48000
23	04/11/94	53000
24	04/12/94	47000
25	04/14/94	70500
26	04/19/94	43500 quarterly
27	04/26/94	54500
SUBTOTAL		316500

N Y S DEC
METHOD 624 - VOLATILE ORGANICS
ANALYSIS DATA SHEET

10012

Client No.

L1730E

Lab Name: Recra Environmental Contract: C002989

Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 04024

Matrix: (soil/water) WATER Lab Sample ID: A4153003

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: L9395.MSQ

Level: (low/med) LOW Date Samp/Recv: 04/19/94 04/19/94

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 04/21/94

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene chloride	5.0	U
75-35-4	-----1,1-Dichloroethene	5.0	U
75-34-3	-----1,1-Dichloroethane	5.0	U
540-59-0	-----1,2-Dichloroethene (Total)	5.0	U
67-66-3	-----Chloroform	5.0	U
107-06-2	-----1,2-Dichloroethane	5.0	U
71-55-6	-----1,1,1-Trichloroethane	5.0	U
56-23-5	-----Carbon Tetrachloride	5.0	U
75-27-4	-----Bromodichloromethane	5.0	U
78-87-5	-----1,2-Dichloropropane	5.0	U
10061-01-5	-----cis-1,3-Dichloropropene	5.0	U
79-01-6	-----Trichloroethene	5.0	U
124-48-1	-----Dibromochloromethane	5.0	U
79-00-5	-----1,1,2-Trichloroethane	5.0	U
110-75-8	-----2-Chloroethylvinyl ether	10	U
71-43-2	-----Benzene	5.0	U
10061-02-6	-----trans-1,3-Dichloropropene	5.0	U
75-25-2	-----Bromoform	5.0	U
127-18-4	-----Tetrachloroethene	5.0	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	-----Toluene	5.0	U
108-90-7	-----Chlorobenzene	5.0	U
100-41-4	-----Ethyl benzene	5.0	U
541-73-1	-----1,3-Dichlorobenzene	10	U
-----	-----1,2- & 1,4-Dichlorobenzene	10	U
75-69-4	-----Trichlorofluoromethane	10	U
88-16-4	-----o-Monochlorobenzotrifluoride	5.0	U
98-15-7	-----m-Monochlorobenzotrifluoride	5.0	U
98-56-6	-----p-Monochlorobenzotrifluoride	5.0	U
108-41-8	-----m-Chlorotoluene	5.0	U

N Y S DEC
METHOD 624 - VOLATILE ORGANICS
ANALYSIS DATA SHEET

0013
Client No.

L1730E

Lab Name: Recra Environmental

Contract: C002989

Lab Code: RECNY

Case No.: L094

SAS No.: _____

SDG No.: 04024

Matrix: (soil/water) WATER

Lab Sample ID: A4153003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: L9395.MSO

Level: (low/med) LOW

Date Samp/Recv: 04/19/94 04/19/94

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 04/21/94

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg)

UG/L

Q

95-49-8-----o-Chlorotoluene

5.0

U

106-43-4-----p-Chlorotoluene

5.0

U

N Y S DEC
METHOD 625 - P.P. BASE NEUTRAL/ACID EXTRACTABLES
ANALYSIS DATA SHEET

10018
Client No.

L1728E

Lab Name: Recra Environmental

Contract: C002989

Lab Code: RECNY

Case No.: L094

SAS No.: _____

SDG No.: 04024

Matrix: (soil/water) WATER

Lab Sample ID: A4153001

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 15726W.MSQ

Level: (low/med) LOW

Date Samp/Recv: 04/19/94 04/19/94

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 04/22/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/16/94

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO. COMPOUND

83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
92-87-5	Benzidine	80	U
56-55-3	Benzo(a)anthracene	3.0	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
191-24-2	Benzo(ghi)perylene	10	U
111-44-4	Bis(2-chloroethyl) ether	10	U
111-91-1	Bis(2-chloroethoxy) methane	10	U
108-60-1	Bis(2-chloroisopropyl) ether	10	U
117-81-7	Bis(2-ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-58-7	2-Chloronaphthalene	10	U
7005-72-3	4-Chlorodiphenylether	3.0	U
218-01-9	Chrysene	10	U
53-70-3	Dibenzo(a,h)anthracene	0.22	J
84-74-2	Di-n-butyl phthalate	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
84-66-2	Diethyl phthalate	10	U
131-11-3	Dimethyl phthalate	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
117-84-0	Di-n-octyl phthalate	3.0	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene		

N Y S DEC
METHOD 625 - P.P. BASE NEUTRAL/ACID EXTRACTABLES
ANALYSIS DATA SHEET

00019

Client No.

L1728E

Lab Name: Recra Environmental

Contract: C002989

Lab Code: RECNY

Case No.: L094

SAS No.: _____

SDG No.: 04024

Matrix: (soil/water) WATER

Lab Sample ID: A4153001

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 15726W.MSQ

Level: (low/med) LOW

Date Samp/Recv: 04/19/94 04/19/94

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 04/22/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/16/94

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/L

Q

CAS NO.

COMPOUND

87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-20-3	Naphthalene	10	U
98-95-3	Nitrobenzene	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
86-30-6	N-nitrosodiphenylamine	10	U
85-01-8	Phenanthrene	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
95-57-8	2-Chlorophenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
105-67-9	2,4-Dimethylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
88-75-5	2-Nitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
87-86-5	Pentachlorophenol	10	U
108-95-2	Phenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
	2,3,6-Trichlorotoluene	10	U
61878-57-F	2,4,5-Trichlorotoluene	10	U
320-60-5	2,4-Dichlorobenzotrifluoride	10	U
95-73-8	2,4-Dichlorotoluene	10	U
19398-61-9	2,5-Dichlorotoluene	10	U
118-69-4	2,6-Dichlorotoluene	10	U
95-75-0	3,4-Dichlorotoluene	10	U
94-99-5	a,2,4-Trichlorotoluene	10	U

N Y S DEC
METHOD 625 - P.P. BASE NEUTRAL/ACID EXTRACTABLES
ANALYSIS DATA SHEET

0020

Client No.

L1728E

Lab Name: Recra Environmental Contract: C002989

Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 04024

Matrix: (soil/water) WATER Lab Sample ID: A4153001

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 15726W.MSQ

Level: (low/med) LOW Date Samp/Recv: 04/19/94 04/19/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/22/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/16/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0

CONCENTRATION UNITS:
(ug/L or ug/Kg)

CAS NO.	COMPOUND	UG/L	Q
2014-83-7-----	a,2,6-Trichlorotoluene	10	U
611-19-8-----	a,2-Dichlorotoluene	10	U
102-47-6-----	a,3,4-Trichlorotoluene	10	U
620-20-2-----	a,3-Dichlorotoluene	10	U
104-83-6-----	a,4-Dichlorotoluene	10	U
98-07-7-----	a,a,a-Trichlorotoluene	10	U
98-87-3-----	a,a-Dichlorotoluene	10	U
-----	Tetrachlorotoluene	10	U

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

L1731E

Lab Name: RECRA ENVIRONMENTAL INC. Contract: C002412

Lab Code: RECNY Case No.: L094 SAS No.: SDG No.: 04024

Matrix (soil/water): WATER

Lab Sample ID: 8647

Level (low/med): LOW

Date Received: 04/19/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	30.0	U		P
7440-38-2	Arsenic	58.7		S	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	3.0	U		P
7440-43-9	Cadmium	6.6		*	P
7440-70-2	Calcium				NR
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	10.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	30.0	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	3.0	B	W	F
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	10.0	U		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

LAB_SAMPLE_ID: A4153005-SG000005

N Y S DEC
Wet Chemistry Analysis

Client Sample No. **10026**

L1729E

Lab Name: Recra Environmental, Inc. Contract: C002989

Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 04024

Matrix (soil/water): WATER

Lab Sample ID: A4153002

% Solids: 0.0

Date Samp/Recv: 04/19/94 04/19/94

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Recoverable Phenolics	MG/L	0.0050	U			420.2	04/27/94

Comments:

N Y S DEC
Wet Chemistry Analysis

0028
Client Sample No.

L1732F

Lab Name: Recra Environmental, Inc.

Contract: C002989

Lab Code: RECNY

Case No.: L094

SAS No.: _____

SDG No.: 04024

Matrix (soil/water): WATER

Lab Sample ID: A4153006

% Solids: 0.0

Date Samp/Recv: 04/19/94 04/19/94

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Non-Filterable Residue (103°C)	MG/L	4.0	U			160.2	04/21/94
Soluble Organic Carbon	MG/L	1.0	U			415.1	04/27/94

Comments:

N Y S DEC
Wet Chemistry Analysis

10029

Client Sample No:

L1732M

Lab Name: Recra Environmental, Inc. Contract: C002989

Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 04024

Matrix (soil/water): WATER Lab Sample ID: A4153007

% Solids: 0.0 Date Samp/Recv: 04/19/94 04/19/94

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Non-Filterable Residue (103°C)	MG/L	4.0	U			160.2	04/21/94
Soluble Organic Carbon	MG/L	1.0	U			415.1	04/27/94

Comments:

N Y S DEC
Wet Chemistry Analysis

00030

Client Sample No.

L1732E

Lab Name: Recra Environmental, Inc. Contract: C002989

Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 04024

Matrix (soil/water): WATER

Lab Sample ID: A4153008

% Solids: 0.0

Date Samp/Recv: 04/19/94 04/19/94

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Non-Filterable Residue (103°C)	MG/L	25.5				160.2	04/21/94
Soluble Organic Carbon	MG/L	26.1				415.1	04/27/94

Comments:



Langdon Marsh
Acting Commissioner

SEP 2 1994

Mr. Albert Zaepfel
Industrial Monitoring Coordinator
Department of Utilities
Niagara Waste Water Plant
1200 Buffalo Avenue
Niagara Falls, NY 14302

Dear Mr. Zaepfel:

RE: 1994 Third Quarter Analytical and Flow Results

Enclosed are the Self-Monitoring Data and Compliance Reports for the third quarter samples which were collected on July 13, 1994 at the Love Canal Leachate Treatment Facility (LCLTF). These reports fulfill the monitoring requirements for the LCLTF Final Waste Water Discharge Permit No. 16. All of the facility and sewer use ordinance parameters are found to be at the working detection limit of the laboratory. Also enclosed are copies of the RECRA Environmental, Inc. Analytical Report as backup.

If there are any questions concerning the data, please telephone Mr. Ronnie Lee, of my staff, at (518) 457-0927.

Sincerely,

Gerald J. Rider, Jr., P.E.
Chief, Operation, Maintenance & Support
Section
Bureau of Hazardous Site Control
Division of Hazardous Waste Remediation

Enclosures

cc: w/enc. - N. Marchelos, City of Niagara Falls
R. Lee, NYSDEC

bcc: w/enc.- P. Buechi, Reg. 9
B. Sadowski
M. Podd
w/o enc. - M. O'Toole
E. Barcomb

a:zaepfel:RL:et

SIU SELF-MONITORING DATA REPORT
FOR THE CITY OF NIAGARA FALLS

PERMIT NO. 16 QUARTER THIRD

INDUSTRY NAME LOVE CANAL LEACHATE TREAT. FACILITY PAGE 1 OF 6

PURSUANT TO THE REPORTING REQUIREMENTS FOR THOSE SIU'S REQUIRED TO SUBMIT A QUARTERLY SELF-MONITORING REPORT., THIS REPORT SHALL BE SUBMITTED SUBJECT TO THE FOLLOWING CONDITIONS: THIS REPORT SHALL BE SUBMITTED TO THE CITY QUARTERLY ON OR BEFORE FEBRUARY 28, MAY 31, AUGUST 31, NOVEMBER 30 EACH YEAR. EACH SECTION MUST BE FILLED OUT FOR THOSE PARAMETERS LISTED IN SECTION G OF YOUR WASTEWATER DISCHARGE PERMIT. THE RESULTS MUST BE REPORTED IN CONCENTRATION, MASS, AND ANNUAL AVERAGES FOR ALL PARAMETERS LISTED IN SECTION G OF THE PERMIT. THE SAMPLE LOCATION SHOULD ONLY BE IDENTIFIED AS LISTED ON PAGE TWO (2) OF THE WASTEWATER DISCHARGE PERMIT. PART II OF THE REPORT IS THE COMPLIANCE MONITORING SECTION. ALL VIOLATIONS NOTED IN YOUR QUARTERLY ANALYSIS SHALL BE LISTED HERE. QUARTERLY DATA SHOULD BE COMPARED TO ALL PERMIT, LOCAL ORDINANCE AND FEDERAL STANDARDS. IF NO VIOLATIONS ARE DETECTED, THEN "NO VIOLATIONS" SHOULD APPEAR ON THE REPORT. PURSUANT TO SECTION 40 CFR 403.12g OF THE FEDERAL STANDARDS, ALL VIOLATIONS NOTED MUST BE FOLLOWED UP BY A SAMPLE RECOLLECT AND ANALYSIS AND THE RESULTS SUBMITTED TO THE CITY WITHIN 30 DAYS OF FIRST BECOMING AWARE OF THE VIOLATION.

PURSUANT TO SECTION 40 CFR 403.2 ALL REPORTS SUBMITTED TO THE CITY MUST BE SIGNED BY A COMPANY OFFICIAL.

I CERTIFY THAT I HAVE EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE.

SIGNED

A. R. G. f. 552 9/2/79

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 2 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St. EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	7/13/94					
24 Hr Flow(MGD)	0.5400					
Monochloro-phenol	<10		<0.00451		<10	<0.00390
Dichloro-phenol	<10		<0.00451		<10	<0.00390
Monochloro-cresol	<10		<0.00451		<10	<0.00390
Trichloro-phenol	<10		<0.00451		<10	<0.00390
Hexachlorocyclohexanes						
PCB's						
Endosulfan						
Mirex						
Endosulfan Sulfate						
Declorane Plus						
Heptachlor						

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 3 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St. EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	7/13/94					
24 Hr Flow(MGD)	0.0540					
Dimethyl Phthalate	<10		<0.00451		<10	<0.00390
Butyl Benzyl Phthalate	<10		<0.00451		<10	<0.00390
Dibutyl Phthalate	<10		<0.00451		<7.56	<0.00301
Nitrosodiphen-ylamine	<10		<0.00451		<10	<0.00390
Dichlorobenzenes	<3		<0.00135		<3	<0.00117
Dichlorotoluene	<10		<0.00451		<10	<0.00390
Acenaphthene	<10		<0.00451		<10	<0.00390
Fluoranthene	<3		<0.00135		<3	<0.00117
Chrysene	<3		<0.00135		<3	<0.00117
Naphthalene	<10		<0.00451		<10	<0.00390
Benzo(a)Anthracene	<3		<0.00135		<3	<0.00117
Pyrene	<10		<0.00451		<10	<0.00390
Trichlorobenzene	<10		<0.00451		<10	<0.00903
Trichlorotoluene	<10		<0.00451		<10	<0.00390
Hexachloro-butadiene	<10		<0.00451		<10	<0.00390
Tetrachloro-benzene	-		-		-	-
Hexachlorobenzene	<10		<0.00451		<10	<0.00390
Dichlorobenzo-trifluoride	<10		<0.00451		<10	<0.00390
Phenanthrene	<10		<0.00451		<10	<0.00390

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 4 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit)97th St EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	7/13/94					
24 Hr Flow(MGD)	0.0540					
Benzene	<5		<0.00225		<5	<0.00195
Carbon Tetra-Chloride	<5		<0.00225		<5	<0.00195
Chlorodibromo-methane	<5		<0.00225		<5	<0.00195
Monochlorobenzene	<5		<0.00225		<5	<0.00195
Dichlorobromo-methane	<5		<0.00225		<5	<0.00195
Chloroform	<5		<0.00225		<3.83	<0.00139
Dichloroethylene	<5		<0.00225		<5	<0.00195
Bromoform	<5		<0.00225		<5	<0.00195
Dichloropropylenes	<5		<0.00225		<5	<0.00195
Ethylbenzene	<5		<0.00225		<5	<0.00195
Tetrachloroethanes	<5		<0.00225		<5	<0.00195
Tetrachloro-ethylene	<5		<0.00225		<5	<0.00195
Toluene	<5		<0.00225		<5	<0.00195
Trichloroethanes	<5		<0.00225		<5	<0.00195
Trichloroethylene	<5		<0.00225		<5	<0.00195
Methylene Chloride	<5		<0.00225		<5	<0.00195
Monochlorotoluenes	<5		<0.00225		<5	<0.00195
Monochlorobenzo-trifluoride	<5		<0.00225		<5	<0.00195

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 5 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St EFFLUENT

	RESULTS IN mg/l		RESULTS IN lbs/d		ANNUAL AVG mg/l	ANNUAL AVG lb/d
Date Sampled	7/13/94					
24 Hr Flow(MGD)	0.0540					
Total Suspended Solids	11.8		5.3172		<6.05	<2.466
Soluble Organic Carbon	<1		<0.451		<1.83	<0.614
Total Phosphorus	-		-		-	-
Total Phenol	<0.005		<0.002		<0.01	<0.00243
Cadmium					<0.0034	<0.0012
Chromium					<0.0145	<0.0044
Copper					<0.0130	<0.0040
Lead					<0.0020	<0.0006
Mercury					<0.0002	<0.0001
Nickel					<0.0350	<0.0109
Zinc					<0.0185	<0.0055
Total Cyanide						
pH (std units)			N/A	N/A	N/A	N/A

PART II COMPLIANCE MONITORING

INDUSTRY NAME LOVE CANAL LEACHATE TREATMENT FACILITY Page 6 of 6PERMIT NO. 16

Violation Parameter	Date	Flow (MGD)	Sample Pt Location	Actual* Discharge	Permit Limit	Type Limit Violated**
SOC	May 1994		effluent	No violation	75 lb/d	
	Jun. 1994		effluent	No violation		
	Jul. 1994		effluent	No violation		
TSS	May 1994		effluent	No violation	16 lb/d	
	Jun. 1994		effluent	No violation		
	Jul. 1994		effluent	No violation		

* Actual Discharge - List actual analytical results and appropriate units

** Type Limit Violated - List type: A.A. = Annual Avg., D.M. = Daily Max,
L.L. = Local Limit (Ordinance 250.5.1)

NEW YORK STATE DEPARTMENT ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
BUREAU OF HAZARDOUS SITE CONTROL
OPERATION, MAINTENANCE & SUPPORT SECTION

LOVE CANAL LEACHATE TREATMENT FACILITY

THIRD QUARTER 1994

EFFLUENT

LINE NO.	CALENDAR DATE	FLOW GPD
28	05/05/94	38500
29	05/06/94	30500
30	05/12/94	12240
31	05/16/94	26500
31	05/24/94	48600
	SUBTOTAL	156340
32	06/01/94	52000
33	06/06/94	53320
34	06/14/94	54480
35	06/27/94	55000
36	06/28/94	50000
	SUBTOTAL	264800
37	07/05/94	46000
38	07/13/94	54000
39	07/25/94	48500
40	07/29/94	5000
	SUBTOTAL	153500

quarterly

N Y S DEC
METHOD 624 - VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

L1737E

Lab Name: Recra Environmental Contract: C002989

Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 07025

Matrix: (soil/water) WATER Lab Sample ID: A4356803

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K2946.M90

Level: (low/med) LOW Date Samp/Recv: 07/13/94 07/13/94

Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/19/94

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/L

Q

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
110-75-8	2-Chloroethylvinyl ether	10	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethyl benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	10	U
	1,2- & 1,4-Dichlorobenzene	10	U
75-69-4	Trichlorofluoromethane	10	U
88-16-4	o-Monochlorobenzotrifluoride	5.0	U
98-15-7	m-Monochlorobenzotrifluoride	5.0	U
98-56-6	p-Monochlorobenzotrifluoride	5.0	U
108-41-8	m-Chlorotoluene	5.0	U

N Y S DEC
METHOD 624 - VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No

L1737E

Lab Name: Recra Environmental

Contract: C002989

Lab Code: RECNY

Case No.: L094

SAS No.: _____

SDG No.: 07025

Matrix: (soil/water) WATER

Lab Sample ID: A4356803

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: K2946.M90

Level: (low/med) LOW

Date Samp/Recv: 07/13/94 07/13/94

% Moisture: not dec. _____

Heated Purge: N

Date Analyzed: 07/19/94

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/L

Q

95-49-8-----o-Chlorotoluene

5.0

U

106-43-4-----p-Chlorotoluene

5.0

U

N.Y.S DEC
METHOD 625 - P.P. BASE NEUTRAL/ACID EXTRACTABLES
ANALYSIS DATA SHEET

Client No.

L1735E

Lab Name: Recra Environmental Contract: C002989Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 07025Matrix: (soil/water) WATER Lab Sample ID: A4356801Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 16988W.MSOLevel: (low/med) LOW Date Samp/Recv: 07/13/94 07/13/94Moisture: _____ decanted: (Y/N) N Date Extracted: 07/27/94Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/05/94Injection Volume: 2.00 (uL) Dilution Factor: 1.00SPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
83-32-9	Acenaphthene		10	U
208-96-8	Acenaphthylene		10	U
120-12-7	Anthracene		10	U
92-87-5	Benzidine		80	U
56-55-3	Benzo(a)anthracene		3.0	U
205-99-2	Benzo(b)fluoranthene		10	U
207-08-9	Benzo(k)fluoranthene		10	U
50-32-8	Benzo(a)pyrene		10	U
191-24-2	Benzo(ghi)perylene		10	U
111-44-4	Bis(2-chloroethyl) ether		10	U
111-91-1	Bis(2-chloroethoxy) methane		10	U
108-60-1	Bis(2-chloroisopropyl) ether		10	U
117-81-7	Bis(2-ethylhexyl) phthalate		10	U
101-55-3	4-Bromophenyl phenyl ether		10	U
85-68-7	Butyl benzyl phthalate		10	U
91-58-7	2-Chloronaphthalene		10	U
7005-72-3	4-Chlorodiphenylether		10	U
218-01-9	Chrysene		3.0	U
53-70-3	Dibenzo(a,h)anthracene		10	U
84-74-2	Di-n-butyl phthalate		10	U
95-50-1	1,2-Dichlorobenzene		3.0	U
541-73-1	1,3-Dichlorobenzene		3.0	U
106-46-7	1,4-Dichlorobenzene		3.0	U
91-94-1	3,3'-Dichlorobenzidine		10	U
84-66-2	Diethyl phthalate		10	U
131-11-3	Dimethyl phthalate		10	U
121-14-2	2,4-Dinitrotoluene		10	U
606-20-2	2,6-Dinitrotoluene		10	U
117-84-0	Di-n-octyl phthalate		10	U
206-44-0	Fluoranthene		3.0	U
86-73-7	Fluorene		10	U
118-74-1	Hexachlorobenzene		10	U

N Y S DEC
METHOD 625 - P.P. BASE NEUTRAL/ACID EXTRACTABLES
ANALYSIS DATA SHEET

Client No.

L1735E

Lab Name: Recra Environmental Contract: C002989Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 07025Matrix: (soil/water) WATER Lab Sample ID: A4356801Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 16988W.MSOLevel: (low/med) LOW Date Samp/Recv: 07/13/94 07/13/94% Moisture: _____ decanted: (Y/N) N Date Extracted: 07/27/94Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/05/94Injection Volume: 2.00 (uL) Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/LQ

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>UG/L</u>	<u>Q</u>
87-68-3-----	Hexachlorobutadiene		10	U
77-47-4-----	Hexachlorocyclopentadiene		10	U
67-72-1-----	Hexachloroethane		10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene		10	U
78-59-1-----	Isophorone		10	U
91-20-3-----	Naphthalene		10	U
98-95-3-----	Nitrobenzene		10	U
62-75-9-----	N-Nitrosodimethylamine		10	U
621-64-7-----	N-Nitroso-Di-n-propylamine		10	U
86-30-6-----	N-nitrosodiphenylamine		10	U
85-01-8-----	Phenanthrene		10	U
129-00-0-----	Pyrene		10	U
120-82-1-----	1,2,4-Trichlorobenzene		10	U
59-50-7-----	4-Chloro-3-methylphenol		10	U
95-57-8-----	2-Chlorophenol		10	U
120-83-2-----	2,4-Dichlorophenol		10	U
105-67-9-----	2,4-Dimethylphenol		10	U
51-28-5-----	2,4-Dinitrophenol		10	U
534-52-1-----	4,6-Dinitro-2-methylphenol		25	U
88-75-5-----	2-Nitrophenol		25	U
100-02-7-----	4-Nitrophenol		10	U
87-86-5-----	Pentachlorophenol		25	U
108-95-2-----	Phenol		25	U
88-06-2-----	2,4,6-Trichlorophenol		10	U
-----	2,3,6-Trichlorotoluene		10	U
61878-57-F----	2,4,5-Trichlorotoluene		10	U
320-60-5-----	2,4-Dichlorobenzotrifluoride		10	U
95-73-8-----	2,4-Dichlorotoluene		10	U
19398-61-9----	2,5-Dichlorotoluene		10	U
118-69-4-----	2,6-Dichlorotoluene		10	U
95-75-0-----	3,4-Dichlorotoluene		10	U
94-99-5-----	a,2,4-Trichlorotoluene		10	U

N Y S DEC
METHOD 625 - P.P. BASE NEUTRAL/ACID EXTRACTABLES
ANALYSIS DATA SHEET

Client No.

L1735E

Lab Name: Recra Environmental

Contract: C002989

Lab Code: RECNY

Case No.: L094

SAS No.: _____

SDG No.: 07025

Matrix: (soil/water) WATER

Lab Sample ID: A4356801

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 16988W.MSQ

Level: (low/med) LOW

Date Samp/Recv: 07/13/94 07/13/94

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 07/27/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/05/94

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg)

CAS NO.	COMPOUND	UG/L	Q
2014-83-7-----	a,2,6-Trichlorotoluene	10	U
611-19-8-----	a,2-Dichlorotoluene	10	U
102-47-6-----	a,3,4-Trichlorotoluene	10	U
620-20-2-----	a,3-Dichlorotoluene	10	U
104-83-6-----	a,4-Dichlorotoluene	10	U
98-07-7-----	a,a,a-Trichlorotoluene	10	U
98-87-3-----	a,a-Dichlorotoluene	10	U
-----	Tetrachlorotoluene	10	U

N Y S DEC
Wet Chemistry Analysis

Client Sample No.

L1736E

Lab Name: Recra Environmental, Inc. Contract: C002989

Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 07025

Matrix (soil/water): WATER Lab Sample ID: A4356802

Solids: 0.0 Date Samp/Recv: 07/13/94 07/13/94

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Recoverable Phenolics	MG/L	0.0050	U			420.2	07/21/94

Comments:

N Y S DEC
Wet Chemistry Analysis

Client Sample No.

L1738E

Lab Name: Recra Environmental, Inc. Contract: C002989

Lab Code: RECNX Case No.: L094 SAS No.: _____ SDG No.: 07025

Matrix (soil/water): WATER

Lab Sample ID: A4356807

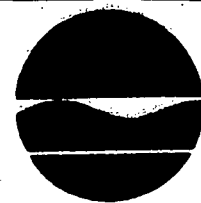
Solids: 0.0

Date Samp/Recv: 07/13/94 07/13/94

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Non-Filterable Residue (103°C)	MG/L	11.8				160.2	07/14/94
Soluble Organic Carbon	MG/L	1.0	U			415.1	07/14/94

Comments:

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233-7010
(518) 457-0927 FAX (518) 457-8989



Langdon Marsh
Commissioner

NOV 28 1994

Mr. Albert Zaepfel
Industrial Monitoring Coordinator
Department of Utilities
Niagara Waste Water Plant
1200 Buffalo Avenue
Niagara Falls, NY 14302

Dear Mr. Zaepfel:

RE: 1994 Fourth Quarter Analytical and Flow Results

Enclosed are the Self-Monitoring Data and Compliance Reports for the fourth quarter samples which were collected on September 27, 1994 at the Love Canal Leachate Treatment Facility (LCLTF). These reports fulfill the monitoring requirements for the LCLTF Final Waste Water Discharge Permit No. 16. All of the facility and sewer use ordinance parameters are found to be at the working detection limit of the laboratory. Also, enclosed are copies of the RECRA Environmental, Inc. Analytical Report as backup.

If there are any questions concerning the data, please telephone Mr. Ronnie Lee, of my staff, at (518) 457-0927.

Sincerely,

Gerald J. Rider, Jr., P.E.
Chief, Operation, Maintenance & Support Section
Bureau of Hazardous Site Control
Division of Hazardous Waste Remediation

Enclosures

cc: w/enc. - N. Marchelos, City of Niagara Falls
R. Lee, NYSDEC

bcc: w/enc.- P. Buechi, Reg. 9
B. Sadowski
M. Podd

w/o enc. - M. O'Toole
E. Barcomb

a:zaepfel:RL:et

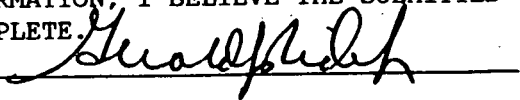
SIU SELF-MONITORING DATA REPORT
FOR THE CITY OF NIAGARA FALLS

PERMIT NO. 16 QUARTER FOURTH

INDUSTRY NAME LOVE CANAL LEACHATE TREAT. FACILITY PAGE 1 OF 6

PURSUANT TO THE REPORTING REQUIREMENTS FOR THOSE SIU'S REQUIRED TO SUBMIT A QUARTERLY SELF-MONITORING REPORT., THIS REPORT SHALL BE SUBMITTED SUBJECT TO THE FOLLOWING CONDITIONS: THIS REPORT SHALL BE SUBMITTED TO THE CITY QUARTERLY ON OR BEFORE FEBRUARY 28, MAY 31, AUGUST 31, NOVEMBER 30 EACH YEAR. EACH SECTION MUST BE FILLED OUT FOR THOSE PARAMETERS LISTED IN SECTION G OF YOUR WASTEWATER DISCHARGE PERMIT. THE RESULTS MUST BE REPORTED IN CONCENTRATION, MASS, AND ANNUAL AVERAGES FOR ALL PARAMETERS LISTED IN SECTION G OF THE PERMIT. THE SAMPLE LOCATION SHOULD ONLY BE IDENTIFIED AS LISTED ON PAGE TWO (2) OF THE WASTEWATER DISCHARGE PERMIT. PART II OF THE REPORT IS THE COMPLIANCE MONITORING SECTION. ALL VIOLATIONS NOTED IN YOUR QUARTERLY ANALYSIS SHALL BE LISTED HERE. QUARTERLY DATA SHOULD BE COMPARED TO ALL PERMIT, LOCAL ORDINANCE AND FEDERAL STANDARDS. IF NO VIOLATIONS ARE DETECTED, THEN "NO VIOLATIONS" SHOULD APPEAR ON THE REPORT. PURSUANT TO SECTION 40 CFR 403.12g OF THE FEDERAL STANDARDS, ALL VIOLATIONS NOTED MUST BE FOLLOWED UP BY A SAMPLE RECOLLECT AND ANALYSIS AND THE RESULTS SUBMITTED TO THE CITY WITHIN 30 DAYS OF FIRST BECOMING AWARE OF THE VIOLATION.

PURSUANT TO SECTION 40 CFR 403.2 ALL REPORTS SUBMITTED TO THE CITY MUST BE SIGNED BY A COMPANY OFFICIAL.

I CERTIFY THAT I HAVE EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE.
SIGNED 

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 2 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St. EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	9/27/94					
24 Hr Flow(MGD)	0.4400					
Monochloro-phenol	<10		<0.00367		<10	<0.00414
Dichloro-phenol	<10		<0.00367		<10	<0.00414
Monochloro-cresol	<10		<0.00367		<10	<0.00414
Trichloro-phenol	<10		<0.00367		<10	<0.00414
Hexachlorocyclohexanes						
PCB's						
Endosulfan						
Mirex						
Endosulfan Sulfate						
Declorane Plus						
Heptachlor						

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 3 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St. EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	9/27/94					
24 Hr Flow(MGD)	0.0440					
Dimethyl Phthalate	<10		<0.00367		<10	<0.00414
Butyl Benzyl Phthalate	<10		<0.00367		<10	<0.00414
Dibutyl Phthalate	<10		<0.00367		<7.56	<0.00325
Nitrosodiphen-ylamine	<10		<0.00367		<10	<0.00414
Dichlorobenzenes	<3		<0.00110		<3	<0.00124
Dichlorotoluene	<10		<0.00367		<10	<0.00414
Acenaphthene	<10		<0.00367		<10	<0.00414
Fluoranthene	<3		<0.00110		<3	<0.00124
Chrysene	<3		<0.00110		<3	<0.00124
Naphthalene	<10		<0.00367		<10	<0.00414
Benzo(a)Anthracene	<3		<0.00110		<3	<0.00124
Pyrene	<10		<0.00367		<10	<0.00414
Trichlorobenzene	<10		<0.00367		<10	<0.00414
Trichlorotoluene	<10		<0.00367		<10	<0.00414
Hexachloro-butadiene	<10		<0.00367		<10	<0.00414
Tetrachloro-benzene	-		-		-	-
Hexachlorobenzene	<10		<0.00367		<10	<0.00414
Dichlorobenzo-trifluoride	<10		<0.00367		<10	<0.00414
Phenanthrene	<10		<0.00367		<10	<0.00414

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 4 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit)97th St EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	9/27/94					
24 Hr Flow(MGD)	0.0440					
Benzene	<5		<0.00184		<5	<0.00207
Carbon Tetra-Chloride	<5		<0.00184		<5	<0.00207
Chlorodibromo-methane	<5		<0.00184		<5	<0.00207
Monochlorobenzene	<5		<0.00184		<5	<0.00207
Dichlorobromo-methane	<5		<0.00184		<5	<0.00207
Chloroform	<5		<0.00184		<3.83	<0.00151
Dichloroethylene	<5		<0.00184		<5	<0.00207
Bromoform	<5		<0.00184		<5	<0.00207
Dichloropropylenes	<5		<0.00184		<5	<0.00207
Ethylbenzene	<5		<0.00184		<5	<0.00207
Tetrachloroethanes	<5		<0.00184		<5	<0.00207
Tetrachloro-ethylene	<5		<0.00184		<5	<0.00207
Toluene	<5		<0.00184		<5	<0.00207
Trichloroethanes	<5		<0.00184		<5	<0.00207
Trichloroethylene	<5		<0.00184		<5	<0.00207
Methylene Chloride	<5		<0.00184		<5	<0.00207
Monochlorotoluenes	<5		<0.00184		<5	<0.00207
Monochlorobenzo-trifluoride	<5		<0.00184		<5	<0.00207

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 5 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St EFFLUENT

	RESULTS IN mg/l		RESULTS IN lbs/d		ANNUAL AVG mg/l	ANNUAL AVG lb/d
Date Sampled	9/27/94					
24 Hr Flow(MGD)	0.0440					
Total Suspended Solids	9.0		3.304		<7.20	<2.994
Soluble Organic Carbon	5.3		1.946		<2.08	<0.809
Total Phosphorus	-		-		-	-
Total Phenol	<0.005		0.002		<0.01	<0.00255
Cadmium					<0.0066	<0.0024
Chromium					<0.0100	<0.0036
Copper					<0.0100	<0.0036
Lead					<0.0020	<0.0007
Mercury					<0.0002	<0.0001
Nickel					<0.0300	<0.0109
Zinc					<0.0100	<0.0036
Total Cyanide						
pH (std units)			N/A	N/A	N/A	N/A

PART II COMPLIANCE MONITORING

INDUSTRY NAME LOVE CANAL LEACHATE TREATMENT FACILITY Page 6 of 6PERMIT NO. 16

Violation Parameter	Date	Flow (MGD)	Sample Pt Location	Actual* Discharge	Permit Limit	Type Limit Violated**
SOC	Aug. 1994		effluent	No violation	75 lb/d	
	Sept. 1994		effluent	No violation		
	Oct. 1994		effluent	No violation		
TSS	Aug. 1994		effluent	No violation	16 lb/d	
	Sept. 1994		effluent	No violation		
	Oct. 1994		effluent	No violation		

* Actual Discharge - List actual analytical results and appropriate units

** Type Limit Violated - List type: A.A. = Annual Avg., D.M. = Daily Max,
L.L. = Local Limit (Ordinance 250.5.1)

Date Prepared: September 21, 1994

NEW YORK STATE DEPARTMENT ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
BUREAU OF HAZARDOUS SITE CONTROL
OPERATION, MAINTENANCE & SUPPORT SECTION

LOVE CANAL LEACHATE TREATMENT FACILITY

FOURTH QUARTER 1994

EFFLUENT

LINE NO.	CALENDAR DATE	FLOW GPD
41	08/04/94	60000
42	08/05/94	46000
43	08/08/94	35000
44	08/15/94	59000
45	08/19/94	26100
46	08/26/94	37000
	SUBTOTAL	263100
47	09/06/94	51000
48	09/08/94	38500
49	09/16/94	35000
50	09/27/94	44000
51	09/29/94	53000
52	09/30/94	54500
	SUBTOTAL	276000
53	10/03/94	59500
54	10/07/94	33500
55	10/14/94	28000
56	10/24/94	40500
	SUBTOTAL	161500

quarterly

N Y S DEC
METHOD 624 - VOLATILE ORGANICS
ANALYSIS DATA SHEET

10010

Client No.

L1743E

Lab Name: Recra Environmental Contract: C002989

Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 09044

Matrix: (soil/water) WATER Lab Sample ID: A4512503

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K3853.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/27/94 09/27/94

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/28/94

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg)

CAS NO.	COMPOUND	UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene chloride	5.0	U
75-35-4	-----1,1-Dichloroethene	5.0	U
75-34-3	-----1,1-Dichloroethane	5.0	U
540-59-0	-----1,2-Dichloroethene (Total)	5.0	U
67-66-3	-----Chloroform	5.0	U
107-06-2	-----1,2-Dichloroethane	5.0	U
71-55-6	-----1,1,1-Trichloroethane	5.0	U
56-23-5	-----Carbon Tetrachloride	5.0	U
75-27-4	-----Bromodichloromethane	5.0	U
78-87-5	-----1,2-Dichloropropane	5.0	U
10061-01-5	-----cis-1,3-Dichloropropene	5.0	U
79-01-6	-----Trichloroethene	5.0	U
124-48-1	-----Dibromochloromethane	5.0	U
79-00-5	-----1,1,2-Trichloroethane	5.0	U
110-75-8	-----2-Chloroethylvinyl ether	10	U
71-43-2	-----Benzene	5.0	U
10061-02-6	-----trans-1,3-Dichloropropene	5.0	U
75-25-2	-----Bromoform	5.0	U
127-18-4	-----Tetrachloroethene	5.0	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	-----Toluene	5.0	U
108-90-7	-----Chlorobenzene	5.0	U
100-41-4	-----Ethyl benzene	5.0	U
541-73-1	-----1,3-Dichlorobenzene	10	U
95-50-1	-----1,2-Dichlorobenzene	10	U
106-46-7	-----1,4-Dichlorobenzene	10	U
75-69-4	-----Trichlorofluoromethane	10	U
88-16-4	-----o-Monochlorobenzotrifluoride	5.0	U
98-15-7	-----m-Monochlorobenzotrifluoride	5.0	U
98-56-6	-----p-Monochlorobenzotrifluoride	5.0	U

N Y S DEC
METHOD 624 - VOLATILE ORGANICS
ANALYSIS DATA SHEET

0011

Client No.

L1743E

Lab Name: Recra Environmental

Contract: C002989

Lab Code: RECNY

Case No.: L094

SAS No.: _____

SDG No.: 09044

Matrix: (soil/water) WATER

Lab Sample ID: A4512503

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: K3853.MSO

Level: (low/med) LOW

Date Samp/Recv: 09/27/94 09/27/94

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 09/28/94

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/L

Q

CAS NO.

COMPOUND

108-41-8-----m-Chlorotoluene

5.0

U

95-49-8-----o-Chlorotoluene

5.0

U

106-43-4-----p-Chlorotoluene

5.0

U

N Y S DEC
METHOD 624 - VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

1001

Client No.

L1743E

Lab Name: Recra Environmental

Contract: C002989

Lab Code: RECNY

Case No.: L094

SAS No.: _____

SDG No.: 09044

Matrix: (soil/water) WATER

Lab Sample ID: A4512503

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: K3853.MSO

Level: (low/med) LOW

Date Samp/Recv: 09/27/94 09/27/94

% Moisture: not dec. _____

Date Analyzed: 09/28/94

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

N Y S DEC
METHOD 625 - P.P. BASE NEUTRAL/ACID EXTRACTABLES
ANALYSIS DATA SHEET

0016

Client No.

L1741E

Lab Name: Recra Environmental

Contract: C002989

Lab Code: RECNY

Case No.: L094

SAS No.: _____

SDG No.: 09044

Matrix: (soil/water) WATER

Lab Sample ID: A4512501

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 18052W.MSO

Level: (low/med) LOW

Date Samp/Recv: 09/27/94 09/27/94

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 09/28/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/07/94

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg)

CAS NO.

COMPOUND

UG/L

Q

83-32-9-----	Acenaphthene	10	U
208-96-8-----	Acenaphthylene	10	U
120-12-7-----	Anthracene	10	U
92-87-5-----	Benzidine	80	U
56-55-3-----	Benzo(a)anthracene	3.0	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
191-24-2-----	Benzo(ghi)perylene	10	U
111-44-4-----	Bis(2-chloroethyl) ether	10	U
111-91-1-----	Bis(2-chloroethoxy) methane	10	U
108-60-1-----	Bis(2-chloroisopropyl) ether	10	U
117-81-7-----	Bis(2-ethylhexyl) phthalate	10	U
101-55-3-----	4-Bromophenyl phenyl ether	10	U
85-68-7-----	Butyl benzyl phthalate	10	U
91-58-7-----	2-Chloronaphthalene	10	U
7005-72-3-----	4-Chlorodiphenylether	10	U
218-01-9-----	Chrysene	3.0	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
84-74-2-----	Di-n-butyl phthalate	10	U
95-50-1-----	1,2-Dichlorobenzene	3.0	U
541-73-1-----	1,3-Dichlorobenzene	3.0	U
106-46-7-----	1,4-Dichlorobenzene	3.0	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
84-66-2-----	Diethyl phthalate	10	U
131-11-3-----	Dimethyl phthalate	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
117-84-0-----	Di-n-octyl phthalate	10	U
206-44-0-----	Fluoranthene	3.0	U
86-73-7-----	Fluorene	10	U
118-74-1-----	Hexachlorobenzene	10	U

N Y S DEC
METHOD 625 - P.P. BASE NEUTRAL/ACID EXTRACTABLES
ANALYSIS DATA SHEET

0017
Client No.

L1741E

Lab Name: Recra Environmental Contract: C002989

Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 09044

Matrix: (soil/water) WATER Lab Sample ID: A4512501

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 18052W.MSO

Level: (low/med) LOW Date Samp/Recv: 09/27/94 09/27/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg)

CAS NO.	COMPOUND	UG/L	Q
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-20-3	Naphthalene	10	U
98-95-3	Nitrobenzene	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
86-30-6	N-nitrosodiphenylamine	10	U
85-01-8	Phenanthrene	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
95-57-8	2-Chlorophenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
51-28-5	2,4-Dinitrophenol	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
87-86-5	Pentachlorophenol	25	U
108-95-2	Phenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
	2,3,6-Trichlorotoluene	10	U
61878-57-F	2,4,5-Trichlorotoluene	10	U
320-60-5	2,4-Dichlorobenzotrifluoride	10	U
95-73-8	2,4-Dichlorotoluene	10	U
19398-61-9	2,5-Dichlorotoluene	10	U
118-69-4	2,6-Dichlorotoluene	10	U
95-75-0	3,4-Dichlorotoluene	10	U
94-99-5	a,2,4-Trichlorotoluene	10	U

N Y S DEC
METHOD 625 - P.P. BASE NEUTRAL/ACID EXTRACTABLES
ANALYSIS DATA SHEET

0018

Client No.

L1741E

Lab Name: Recra Environmental Contract: C002989

Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 09044

Matrix: (soil/water) WATER

Lab Sample ID: A4512501

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 18052W.MSQ

Level: (low/med) LOW

Date Samp/Recv: 09/27/94 09/27/94

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 09/28/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/07/94

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg)

CAS NO. COMPOUND

CAS NO.	COMPOUND	UG/L	Q
2014-83-7-----a,2,6-Trichlorotoluene		10	U
611-19-8-----a,2-Dichlorotoluene		10	U
102-47-6-----a,3,4-Trichlorotoluene		10	U
620-20-2-----a,3-Dichlorotoluene		10	U
104-83-6-----a,4-Dichlorotoluene		10	U
98-07-7-----a,a,a-Trichlorotoluene		10	U
98-87-3-----a,a-Dichlorotoluene		10	U
-----Tetrachlorotoluene		10	U

N Y S DEC
METHOD 625 - P.P. BASE NEUTRAL/ACID EXTRACTABLES
TENTATIVELY IDENTIFIED COMPOUNDS

0019

Client No.

L1741E

Lab Name: Recra Environmental Contract: C002989

Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 09044

Matrix: (soil/water) WATER Lab Sample ID: A4512501

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 18052W.MSO

Level: (low/med) LOW Date Samp/Recv: 09/27/94 09/27/94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 2 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	3.07	16	J
2.	UNKNOWN	6.85	26	J

N Y S DEC
Wet Chemistry Analysis

0020

Client Sample No.

L1742E

Lab Name: Recra Environmental, Inc. Contract: C002989

Lab Code: RECNY Case No.: L094 SAS No.: _____ SDG No.: 09044

Matrix (soil/water): WATER Lab Sample ID: A4512502

% Solids: 0.0 Date Samp/Recv: 09/27/94 09/27/94

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Recoverable Phenolics	MG/L	0.0050	U			420.2	09/28/94

Comments:

N Y S DEC
Wet Chemistry Analysis

Client Sample No.

L1744E

Lab Name: Recra Environmental, Inc.Contract: C002989Lab Code: RECNYCase No.: L094

SAS No.: _____

SDG No.: 09044Matrix (soil/water): WATERLab Sample ID: A4512507Date Samp/Recv: 09/27/94 09/27/94% Solids: 0.0

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Non-Filterable Residue (103°C)	MG/L	9.0				160.2	09/28/94
Soluble Organic Carbon	MG/L	5.3				415.1	10/04/94

Comments:

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 6503 Program Name STATE SUPERFUND ANALYTICAL SERVICES LOVE CANAL
LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG. River New York Gazetteer No. 3102 Town NIAGARA FALLS
Latitude 43° 04' 06" 00 N Longitude 78° 57' 03" 00 W
Z Direction, altitude or depth, include units 31 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE #9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 7115

TIME OF SAMPLING

Grab/Composite _____
Finish Year 94 Month 05 Day 09 Mil. 12. 10-23 Mil. 06

Composite Start Year 94 Month 05 Day 11 Mil. 08 55

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

°C

Total

23 CHLORRES

4

Type of Sample (Select from list)

Description

250

OVERBUREN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M MOORE

Phone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☐ Other _____

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL

- ☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

LOVE CANAL ANALYTES

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 6503 Program Name STATE SUPERFUND ANALYTICAL SERVICES LOVE CANAL
LONG TERM MONITORING

Source Number _____ County NIAGARA

Drainage Basin 01 Name NIAG. RIVER New York Gazetteer No. 31102 Town NIAGARA FALLS

Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W

Z Direction, altitude or depth, include units 26 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation SITE # 932-070

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well # 7125

TIME OF SAMPLING					Chlorine Residual (Field)		Sample Temp.	
Grab/Composite Finish	<u>9.4</u> Year	<u>05</u> Month	<u>11</u> Day	<u>09</u> Mil hrs. 00-23	<u>2.5</u> Minute	Free	24 CHLORRES	<u>40</u> °C
Composite Start	<u>9.4</u>	<u>05</u>	<u>11</u>	<u>09</u>	<u>15</u>	Total	23 CHLORRES	

Type of Sample (Select from list) 250 Description OVERBURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐ To (No. of copies) FED ☐ INFO ☐ LAB ☐	Special Mail Code _____	Additional Information Regarding This Sample _____ _____ _____
Submitted by <u>M. MOORE</u>		
Phone Number <u>(716) 283-0112</u>		

Sanitary Bacteriology

- ☐ Total Coliforms MF Chlorinated Potable Water
☐ Total Coliforms MF & SPC Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF Nonpotable Surface Water
☐ Total Coliforms MPN & SPC Potable Water
☐ Total & Fecal Coliforms MPN Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL

☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory
Use Only

Lab Accession Number _____

Sample

Rec'd

Year

Month

Day

Military Hour 00-24

Test Pattern _____

Please print all information legibly in ink

Program Code

6503

Program Name

STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING

Source Number

County NIAGARA

Drainage Basin

D1

Name NIAG. RIVER

New York Gazetteer No.

3102

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

50 FT

LOCATION: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 7205

TIME OF SAMPLING

Grab/Composite

94

05

11

10

05

Finish

Year

Month

Day

Mil hrs. 00-23

Minute

Composite Start

94

05

11

09

40

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

4 °C

Total

23 CHLORRES

Type of Sample (Select from list)

250

Description

BEDROCK GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)☐ Turbidity (C)☐ Natural Disaster (E)☐ New Equip. or Proc. (G)☐ Interruption in Chlorination (I)☐ Taste/Odor (B)☐ Color (D)☐ Fishkill (F)☐ Equip. Failure (H)☒ Other (J)☒ Chain of custody form accompanying sample

Report Results

CO

RO

LPHE

To (No. of copies)

FED

INFO

LAB

Special

Mail

Code

Additional Information Regarding This Sample

Submitted by M. MOORE

Phone Number 716 263-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
- ☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
- ☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
- ☐ Total Coliforms MPN & SPC
Potable Water
- ☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
- ☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
- ☐ Herbicides
- ☐ PCBs
- ☐ Purgeable Halocarbons
- ☐ Purgeable Aromatics
- ☐ Nitrogen/Phosphorus Pesticides
- ☐ Petroleum Products
- ☐ Priority Pollutants
- ☐ Dioxin/Furan
- ☐ Ketones
- ☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
- ☐ Fluoride
- ☐ Nitrate
- ☐ Trace Metals, HSL
- ☐ WQSN
- ☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
- ☐ Other _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____ Year _____ Month _____ Day _____ Military Hour 00-24
Test Pattern _____

Please print all information legibly in ink

Program Code 6503 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG. RIVER New York Gazetteer No. 31102 Town NIAGARA FALLS
Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W
Z Direction, altitude or depth, include units 28 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 7132

TIME OF SAMPLING					Chlorine Residual (Field)		Sample Temp.	
Grab/Composite	<u>94</u>	<u>05</u>	<u>08</u>	<u>10</u>	<u>25</u>	Free	24 CHLORRES	<u>4</u> °C
Finish	Year	Month	Day	Mil hrs. 00-23	Minute	Total	23 CHLORRES	
Composite Start	<u>74</u>	<u>05</u>	<u>11</u>	<u>10</u>	<u>15</u>			

Type of Sample (Select from list) 25U Description OVER BURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special Mail Code

Additional Information Regarding This Sample

Submitted by M. MUDRE

Phone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory
Use Only

Lab Accession Number _____

Test Pattern _____

Sample

Rec'd

Year

Month

Day

Military Hour 00-24

Please print all information legibly in ink

Program Code

6503

Program Name

STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING

Source Number

County

NIAGARA

Drainage Basin

01

Name

NIAG. RIVER

New York Gazetteer No.

3102

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

17 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE ~~#8106~~ #9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL #8106

TIME OF SAMPLING

Grab/Composite

9.4

05

11

11

1.0

Finish

Year

Month

Day

Mil hrs. 00-23

Minute

Composite Start

9.4

05

11

11

00

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

Total

23 CHLORRES

°C

Type of Sample (Select from list)

250

Description

OVERBURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)☐ Turbidity (C)☐ Natural Disaster (E)☐ New Equip. or Proc. (G)☐ Interruption in Chlorination (I)☐ Taste/Odor (B)☐ Color (D)☐ Fishkill (F)☐ Equip. Failure (H)☒ Other (J)☒ Chain of custody form accompanying sample

Report Results

CO

RO

LPHE

To (No. of copies) FED

INFO

LAB

Special

Mail

Code

Additional Information Regarding This Sample

Submitted by M. MOORE

Phone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
- ☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
- ☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
- ☐ Total Coliforms MPN & SPC
Potable Water
- ☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
- ☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
- ☐ Herbicides
- ☐ PCBs
- ☐ Purgeable Halocarbons
- ☐ Purgeable Aromatics
- ☐ Nitrogen/Phosphorus Pesticides
- ☐ Petroleum Products
- ☐ Priority Pollutants
- ☐ Dioxin/Furan
- ☐ Ketones
- ☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
- ☐ Fluoride
- ☐ Nitrate
- ☐ Trace Metals, HSL
- ☐ WQSN
- ☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
- ☐ Other _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 6503 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAGARA New York Gazetteer No. 3102 Town NIAGARA FALLS
Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W
Z Direction, altitude or depth, include units 44 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-D20

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 8210

TIME OF SAMPLING						Chlorine Residual (Field)		Sample Temp.
Grab/Composite	94	05	01	11	30	Free	24 CHLORRES	4 °C
Finish	Year	Month	Day	Mil hrs. 00-23	Minute			
Composite Start	94	05	11	11	20	Total	23 CHLORRES	

Type of Sample (Select from list) 250 Description BEDROCK GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A)
 ☐ Turbidity (C)
 ☐ Natural Disaster (E)
 ☐ New Equip. or Proc. (G)
 ☐ Interruption in Chlorination (I)
 ☐ Taste/Odor (B)
 ☐ Color (D)
 ☐ Fishkill (F)
 ☐ Equip. Failure (H)
 ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special Mail Code

Additional Information Regarding This Sample

Submitted by M. MOORE

Phone Number (716) 883-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF Chlorinated Potable Water
☐ Total Coliforms MF & SPC Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF Nonpotable Surface Water
☐ Total Coliforms MPN & SPC Potable Water
☐ Total & Fecal Coliforms MPN Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____ Year _____ Month _____ Day _____ Military Hour 00-24
Test Pattern _____

Please print all information legibly in ink

Program Code 6503 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG. RIVER New York Gazetteer No. 3102 Town NIAGARA FALLS
Latitude 43° 04' 06.00" N Longitude 78° 57' 03.99" W
Z Direction, altitude or depth, include units 47 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 9205

TIME OF SAMPLING

Grab/Composite 94 05 11 11 50
Finish Year Month Day Mil hrs. 00-23 Minute
Composite Start 94 05 11 11 40

Chlorine Residual (Field)

Sample Temp.

Free	24 CHLORRES	4 °C
Total	23 CHLORRES	

Type of Sample (Select from list) 250 Description BEDROCK GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special Mail Code

Additional Information Regarding This Sample

Submitted by M. MOORE

Phone Number (716) 283-0110

Sanitary Bacteriology

- ☐ Total Coliforms MF Chlorinated Potable Water
☐ Total Coliforms MF & SPC Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF Nonpotable Surface Water
☐ Total Coliforms MPN & SPC Potable Water
☐ Total & Fecal Coliforms MPN Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 6503 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONGTERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG RIVER New York Gazetteer No. 3102 Town NIAGARA FALLS
Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W
Z Direction, altitude or depth, include units 29 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE #9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL #8115

TIME OF SAMPLING						Chlorine Residual (Field)		Sample Temp.
Grab/Composite	<u>9.4</u>	<u>05</u>	<u>11</u>	<u>12</u>	<u>15</u>	Free	24 CHLORRES	<u>4</u> °C
Finish	Year	Month	Day	Mil hrs. 00-23	Minute	Total	23 CHLORRES	
Composite Start	<u>9.4</u>	<u>05</u>	<u>11</u>	<u>12</u>	<u>05</u>			

Type of Sample (Select from list) 250 Description OVERBURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A)
 ☐ Turbidity (C)
 ☐ Natural Disaster (E)
 ☐ New Equip. or Proc. (G)
 ☐ Interruption in Chlorination (I)
 ☐ Taste/Odor (B)
 ☐ Color (D)
 ☐ Fishkill (F)
 ☐ Equip. Failure (H)
 ☒ Other (J)

☐ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special Mail Code

Additional Information Regarding This Sample

Submitted by M. MOORE

Phone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF Chlorinated Potable Water
☐ Total Coliforms MF & SPC Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF Nonpotable Surface Water
☐ Total Coliforms MPN & SPC Potable Water
☐ Total & Fecal Coliforms MPN Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____ Year _____ Month _____ Day _____ Military Hour 00-24
Test Pattern _____

Please print all information legibly in ink

Program Code 6503 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG RIVER New York Gazetteer No. 31.02 Town NIAGARA FALLS
Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W
Z Direction, altitude or depth, include units 0 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-070

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

FIELD BLANK FBWK1

TIME OF SAMPLING					Chlorine Residual (Field)		Sample Temp.
Grab/Composite	<u>94</u>	<u>05</u>	<u>11</u>	<u>15</u>	Free	24 CHLORRES	<u>4</u> °C
Finish	Year	Month	Day	Min hrs. 00-23	Total	23 CHLORRES	
Composite Start	<u>94</u>	<u>05</u>	<u>11</u>	<u>15</u>			
				<u>20</u>			

Type of Sample (Select from list) _____ Description FIELD BLANK

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☐ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special Mail Code

Additional Information Regarding This Sample

Submitted by M. MOORE

Phone Number 716 283 0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones

☒ Other LOVE CANAL ANALYTES

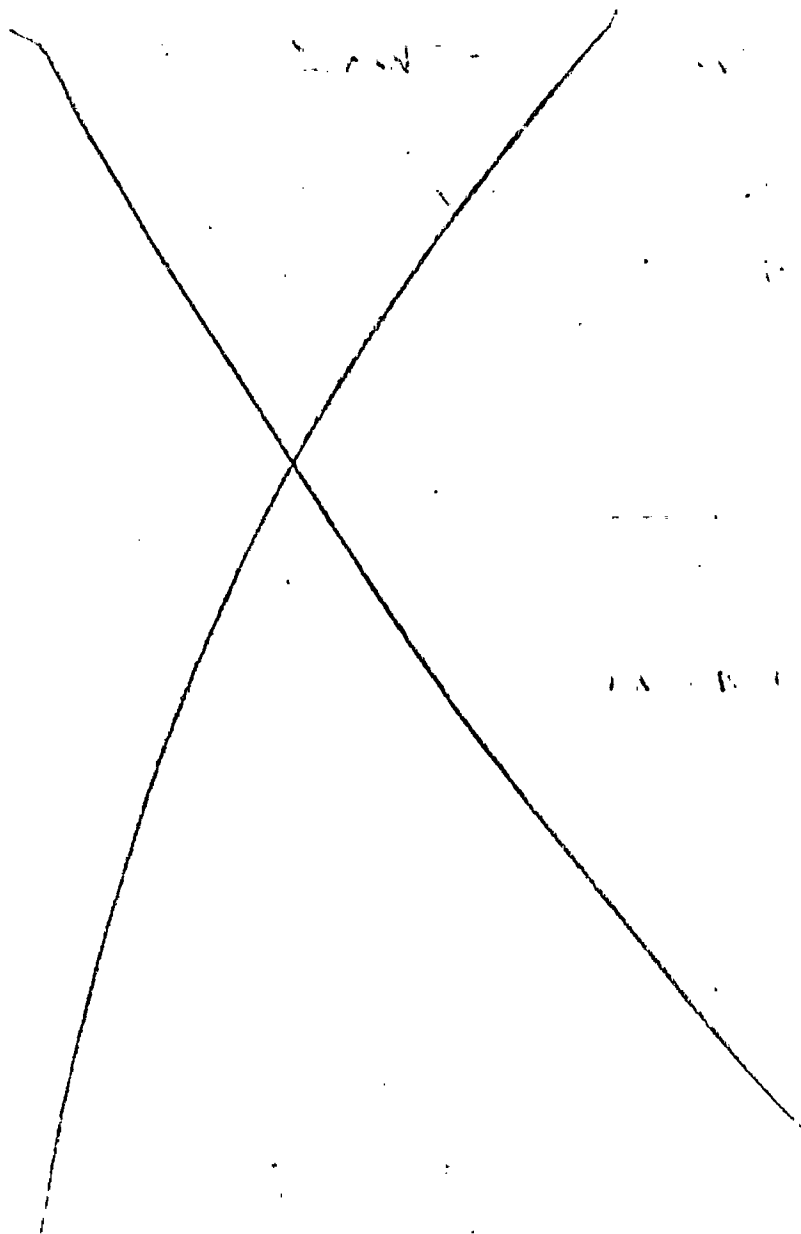
Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

WEEK
ONE (8)



**New York State Department of Health
Wadsworth Center for Laboratories and Research
Division of Environmental Sciences**

SDG NARRATIVE

Glove Rinse All

Case Number: LC994

Sample Delivery Group: 0513 (LOAC batches 0614, 8105 and 8104)

Contract Number: None

Sample Numbers: 7115, 7125, 7132, 7205, 8106, 8115,
8210, 9205

Accession Numbers: 941027 to 941040

VOLATILE COMPOUNDS

Analyses were performed within method-imposed time limits. Surrogate and spike recoveries were within acceptance limits. The relative percent-difference of fourteen percent for matrix spikes exceeded the upper acceptance-limit of thirteen percent.

Target analytes, at concentrations below 1 µg/L, were detected in the field blank. The compounds recovered may have been artifacts of contamination in the field but could also have carried over from the matrix spike which had been run immediately prior to the field blank. Concentrations of dibromochloromethane and xylene in the field blank exceeded those of the previous run and are, therefore, field contaminants.

SEMIVOLATILE COMPOUNDS

Samples were extracted and analyzed within the required holding times.

Recoveries of surrogates for all samples were within acceptance limits.

The recoveries of 4-nitrophenol from the matrix spike and matrix-spike duplicate were below acceptance limits. The compound was not recovered at all from the matrix-spike blank. In-house studies indicate that a combination of continuous liquid-liquid extraction and gel-permeation chromatography is responsible for this loss. A QC spike, not passed through extraction or cleanup, yielded normal recovery for 4-nitrophenol.

Blanks and all samples from this batch contained high levels of contaminating hydrocarbons and other compounds such as triphenylphosphine oxide. The contamination has been traced to the Kuderna-Danish glassware. Modification of our procedures for monitoring the chemical cleanliness of glassware will, we believe, alleviate the problem.

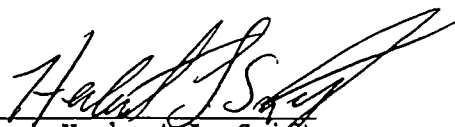
(Case No. LC994, SDG No. 0513, cont.)

PESTICIDES AND PCBs

The percents recovery of the decachlorobiphenyl surrogate for samples 8106 (lab ID 941033) and FBLKW1 (lab ID 941037) exceed advisory QC-limits. The recovery of the other surrogate, tetrachlorometaxylene, is, however, within limits.

CERTIFICATION

I certify that, except as noted above, this data package is in compliance with the terms and conditions of any applicable contract, both technically and for completeness. Release of the data contained in this hardcopy data-package has been authorized by the Quality-Assurance Officer as verified by the following signature.

Signature: 

Herbert L. Swift
Quality-Assurance Officer

Date: 7/19/94

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000053

EPA SAMPLE NO.

FB_WK1

Lab Name: WCLR

Contract:

w/DI H₂O
Glove
Rinse

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0513

Matrix: (soil/water) WATER

Lab Sample ID: 941037

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0513E

Level: (low/med) LOW

Date Received: 05/13/94

% Moisture: not dec.

Date Analyzed: 05/13/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	(0.5)	BJ
67-64-1	Acetone	(2)	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	(0.2)	J
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	(12)	
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	(3)	J
78-87-5	1,2-Dichloropropane	(6)	J
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	(0.6)	J
124-48-1	Dibromochloromethane	(0.5)	J
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	(0.2)	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	(0.4)	J
108-90-7	Chlorobenzene	0.5	J
100-41-4	Ethylbenzene	(1)	J
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	(2)	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB_WK1

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0513

Matrix: (soil/water) WATER

Lab Sample ID: 941037

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0527J

Level: (low/med) LOW

Date Received: 05/13/94

% Moisture: decanted: (Y/N)

Date Extracted: 05/17/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/27/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

CAS NO.

COMPOUND

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB_WK1

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994

SAS No.:

SDG No.: 0513

Matrix: (soil/water) WATER

Lab Sample ID: 941037

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0527J

Level: (low/med) LOW

Date Received: 05/13/94

% Moisture: decanted: (Y/N)

Date Extracted: 05/17/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/27/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	0.3	BJ
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	3	BJ
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	0.07	J
85-68-7	Butylbenzylphthalate	0.6	BJ
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	43	B
117-84-0	Di-n-octylphthalate	0.2	BJ
205-99-2	Benzo(b)fluoranthene	0.08	J
207-08-9	Benzo(k)fluoranthene	0.06	J
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000088

EPA SAMPLE NO.

FB_WK1

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994

SAS No.:

SDG No.: 0513

Matrix: (soil/water) WATER

Lab Sample ID: 941037

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0527J

Level: (low/med) LOW

Date Received: 05/13/94

% Moisture: decanted: (Y/N)

Date Extracted: 05/17/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/27/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 17

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 5390760	Cyclopentane, 1,1,3,4-tetram	2.36	5	JN
2. 3306732	1,2,3,4,5-PENTAMETHYL-CYCLOP	3.27	13	JN
3. 0	Unknown, C ₉ H ₁₈ O ₂	3.44	3	BJN
4. 0	Unknown C ₁₀ H ₂₀	3.48	3	BJN
5. 5406309	Diisoamylene	3.77	4	JN
6. 429179	Cyclohexane, 1-methyl-2-prop	3.81	7	JN
7. 0	Unknown, C ₉ H ₁₈ O ₂	4.51	3	BJN
8. 2129301	2,4-Hexadiene, 3,4-dimethyl-	4.72	3	JN
9. 0	Unknown hydrocarbon	4.98	2	BJN
10. 73657666	1-Methyl-2-cyano-2-piperide	6.30	2	JN
11.	1'-Cyclopenten-1-yl-propane-	6.65	4	J
12.	1'-Cyclobuten-1-yl-butane-1,	6.72	8	J
13. 11205	Nonanoic acid	7.01	3	JN
14. 110270	Isopropyl myristate	12.23	3	BJN
15. 36653824	1-Hexadecanol	12.73	5	JN
16. 11292	1-Octadecanol	14.47	8	JN
17. 123795	Hexanedioic acid, dioctyl-es	16.91	8	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000057

EPA SAMPLE NO.

0614TB

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0513

Matrix: (soil/water) WATER

Lab Sample ID: 941038

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0513F

Level: (low/med) LOW

Date Received: 05/13/94

% Moisture: not dec.

Date Analyzed: 05/13/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	0.2	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000055

EPA SAMPLE NO.

0614HB

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0513

Matrix: (soil/water) WATER

Lab Sample ID: 941040

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0513G

Level: (low/med) LOW

Date Received: 05/13/94

% Moisture: not dec.

Date Analyzed: 05/13/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

CAS NO.

COMPOUND

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	0.3	BJ
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

000100

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FBLKW1

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LC994

SAS No.:

SDG No.: 0513

Matrix: (soil/water) WATER

Lab Sample ID: 941037

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 05/13/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 05/16/94

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/24/94

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

000001

New York State Department of Health
Wadsworth Center for Laboratories and Research
Division of Environmental Sciences

SDG NARRATIVE

Case Number: LC994
Sample Delivery Group: 0520 (LOAC batches 8106, 8107 and 8108)
Contract Number: None
Sample Numbers: 941168 to 941181

No contract laboratory sample information sheet was received with this sample delivery group.

VOLATILE COMPOUNDS

All quality-control objectives were met.

Target analytes were detected in the submitter-provided field blank. Measurable quantities of chloroform, bromodichloromethane and dibromochloromethane were present. The field blank was not comprised of the organic-free water available from this laboratory. Holding blanks and trip blanks yielded only small quantities of methylene chloride.

SEMIVOLATILE COMPOUNDS

Samples were extracted and analyzed within the required holding times.

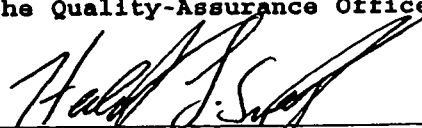
Recoveries of surrogates for all but one sample were within acceptance limits. Sample 9122, our accession number 941174, yielded surrogate recoveries at approximately twice the expected concentrations. Since the observed concentrations were beyond the dynamic range of the procedure, the analysis was repeated using a twofold sample-dilution. The repeat test confirmed the original, anomalous results. The sample in question may have received double the intended quantity of standards.

The recoveries of 4-Nitrophenol from the matrix spike and the matrix-spike blank (six and seven percent, respectively), were below the ten-percent lower acceptance-limit. In-house studies indicate that the cleanup procedure, a combination of continuous liquid-liquid extraction and gel-permeation chromatography, is responsible for the loss.

Blanks and all samples from this batch contained contaminating hydrocarbons which are reportable as tentatively-identified compounds. In addition, low levels of phthalates (dimethyl, diethyl, dibutyl, butylbenzyl, diisooctyl and dioctyl) were detected. An in-house study demonstrated that glassware contamination was not the source of the phthalates. We have modified our procedure to include a condenser rinse which, we believe, will ameliorate the problem of hydrocarbon contamination.

I certify that, except as noted above, this data package is in compliance with the terms and conditions of any applicable contract, both technically and for completeness. Release of the data contained in this hardcopy data package has been authorized by the Quality-Assurance Officer as verified by the following signature.

Signature:


Herbert L. Swift
Quality Assurance Officer

Date:

7/21/94

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DI H₂O All
FB_WK2 PARAMS

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994

SAS No.:

SDG No.: 0520

Matrix: (soil/water) WATER

Lab Sample ID: 941178

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0520D

Level: (low/med) LOW

Date Received: 05/20/94

% Moisture: not dec.

Date Analyzed: 05/20/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	0.4	BJ	✓
67-64-1	Acetone	8	J	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	10	U	✓
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	5	J	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	2	J	✓
78-87-5	1,2-Dichloropropane	7	J	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
124-48-1	Dibromochloromethane	0.4	J	✓
79-00-5	1,1,2-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	0.7	J	
100-42-5	Styrene	10	U	
1330-20-7	Xylene (total)	1	J	

FORM I VOA

3/90

✓ also in FBWK4
(CITY TAP WATER)

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000030

EPA SAMPLE NO.

FBWK2

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0520

Matrix: (soil/water) WATER

Lab Sample ID: 941178

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0603M

Level: (low/med) LOW

Date Received: 05/20/94

% Moisture: decanted: (Y/N)

Date Extracted: 05/24/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/03/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	0.09	J
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000099 SAMPLE NO.

FBWK2

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994

SAS No.:

SDG No.: 0520

Matrix: (soil/water) WATER

Lab Sample ID: 941178

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0603M

Level: (low/med) LOW

Date Received: 05/20/94

% Moisture: decanted: (Y/N)

Date Extracted: 05/24/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/03/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	25	U	
100-02-7-----	4-Nitrophenol	25	U	
132-64-9-----	Dibenzofuran	10	U	
121-14-2-----	2,4-Dinitrotoluene	10	U	
84-66-2-----	Diethylphthalate	0.4	BJ	✓
7005-72-3-----	4-Chlorophenyl-phenylether	10	U	
86-73-7-----	Fluorene	10	U	
100-01-6-----	4-Nitroaniline	25	U	
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U	
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U	
101-55-3-----	4-Bromophenyl-phenylether	10	U	
118-74-1-----	Hexachlorobenzene	10	U	
87-86-5-----	Pentachlorophenol	25	U	
85-01-8-----	Phenanthrene	10	U	
120-12-7-----	Anthracene	10	U	
86-74-8-----	Carbazole	10	U	
84-74-2-----	Di-n-butylphthalate	3	BJ	✓
206-44-0-----	Fluoranthene	10	U	
129-00-0-----	Pyrene	10	U	
85-68-7-----	Butylbenzylphthalate	1	BJ	✓
91-94-1-----	3,3'-Dichlorobenzidine	10	U	
56-55-3-----	Benzo(a)anthracene	10	U	
218-01-9-----	Chrysene	10	U	
117-81-7-----	bis(2-Ethylhexyl)phthalate	1	BJ	✓
117-84-0-----	Di-n-octylphthalate	0.07	BJ	✓
205-99-2-----	Benzo(b)fluoranthene	10	U	
207-08-9-----	Benzo(k)fluoranthene	10	U	
50-32-8-----	Benzo(a)pyrene	10	U	
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U	
53-70-3-----	Dibenz(a,h)anthracene	10	U	
191-24-2-----	Benzo(g,h,i)perylene	10	U	

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000400 SAMPLE NO.

FBWK2

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0520

Matrix: (soil/water) WATER

Lab Sample ID: 941178

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0603M

Level: (low/med) LOW

Date Received: 05/20/94

% Moisture: decanted: (Y/N)

Date Extracted: 05/24/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/03/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

Number TICs found: 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0	Unknown-C10H20	2.36	(5) BJA	✓
2. 3306732	1,2,3,4,5-PENTAMETHYL-CYCLOP	3.26	21 JN	
3. 0	Unknown-C10H20	3.48	(5) BJA	
4. 167881	Cyclohexane, 1,2,3-trimethyl	3.51	3 BJA	
5. 5406309	Diisoamylene	3.77	4 BJA	
6. 429179	Cyclohexane, 1-methyl-2-prop	3.81	11 BJA	
7. 21293016	2,4-Hexadiene, 3,4-dimethyl	4.71	(7) BJA	
8. 0	3-ETHYLCYCLOPENT-2-EN-1-ONE	5.31	(2) BJA	
9. 55286	Ethanone, 1,2-di-2-furanyl-2	5.64	(2) JN	
10. 72200410	Bicyclo[3.3.0]oct-1(2)-en-3-	6.29	2 JN	
11.	1'-Cyclopenten-1-yl-propane	6.64	6 J	
12.	1'-Cyclobuten-1-yl-butane-1,	6.71	7 J	
13. 11205	Nonanoic acid	7.01	2 BJA	
14. 110270	Isopropyl myristate	12.21	(3) BJA	
15. 1040379	Benzene, bis-(phenoxyethyl)	18.10	(3) BJA	
16. 30102	9-Octadecenamide, (Z)-	19.50	2 JN	
17. 768364	2,6,10,14,18,22-Tetracosahex	19.81	11 BJA	

000110

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FBWK2

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LC994

SAS No.:

SDG No.: 0520

Matrix: (soil/water) WATER

Lab Sample ID: 941178

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 05/20/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 05/23/94

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/01/94

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0

Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U



USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

1544447284

1544447284

SENDER'S COPY

SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER 1172-1691-8		Date 5/19/94	
From (Your Name) Please Print MAURILE F. MOORE		Your Phone Number (Very Important) (716) 383 0112	
To (Recipient's Name) Please Print RON PAUSE		Recipient's Phone Number (Very Important) (518) 473-0323	
Company NYS DEPT ENVR CONS BHW		Company NYS/DOH WCLER Rm 519	
Street Address 50 WOLF Rd. Rm 208		Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.) EMPIRE STATE PLAZA LUNING DUCK J	
City ALBANY		City ALBANY	
State NY		State NY	
ZIP Required 12233		ZIP Required 12201	
YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.) 9-32-020			
IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here Street Address			
PAYMENT 1 ☒ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No. 3 ☐ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card 5 ☐ Cash/ ☐ Check Acct./Credit Card No. _____ Exp. Date 1-		City _____ State _____ ZIP Required _____	
SERVICES (Check only one box) Priority Overnight (Delivery by next business morning) 11 ☒ OTHER PACKAGING 16 ☐ FEDEX LETTER 12 ☐ FEDEX PAK 13 ☐ FEDEX BOX 14 ☐ FEDEX TUBE Economy Two-Day (Delivery by second business day) 30 ☐ ECONOMY Minimum charge: One pound Economy rate.		DELIVERY AND SPECIAL HANDLING (Check services required) 1 ☐ HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H) 2 ☒ DELIVER WEEKDAY Saturday Service 31 ☐ HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H) 3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations) 9 ☐ SATURDAY PICK-UP (Extra charge) Special Handling 4 ☐ DANGEROUS GOODS (Extra charge) 6 ☐ DRY ICE Dangerous Goods Shipper's Declaration not required Dry Ice, UN 1845, _____ X _____ kg. 904 III DESCRIPTION _____ 12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)	
Freight Service (for packages over 150 lbs.) 70 ☐ OVERNIGHT FREIGHT (Confirmed reservation required) 80 ☐ TWO-DAY FREIGHT Delivery commitment may be later in some areas. *Declared Value Limit \$500. **Call for delivery schedule.		PACKAGES 1 48 1 48 1 67 Total 3 158 DIM SHIPMENT (Chargeable Weight) L x W x H Received At: 1 ☐ Regular Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☐ B.S.C. 5 ☐ Station	
SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. Use U.S. Government Service Guide for details. We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is \$500. In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information. Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom. Release Signature: _____			
Federal Express Use Base Charges Declared Value Charge Other 1 Other 2 Total Charges REVISION DATE 12/92 PART #137205 GBFE FORMAT #158 158 © 1992-93 FEDEX PRINTED IN U.S.A.			

SENDER'S COPY
DROP OFF YOUR PACKAGE AND SAVE

TERMS AND CONDITIONS

DEFINITIONS

On this Airbill, we, our and us refer to Federal Express Corporation, its employees and agents. You and your refer to the sender, its employees and agents.

AGREEMENT TO TERMS

By giving us your package to deliver, you agree to all the terms of this Airbill and in our current Service Guide, which is available upon request. If there is a conflict between the current Service Guide and this Airbill, the Service Guide will control. No one is authorized to alter or modify the terms of our Agreement.

RESPONSIBILITY FOR PACKAGING AND COMPLETING AIRBILL

You are responsible for adequately packaging your goods and for properly filling out this Airbill. Omission of the number of packages and weight per package from this Airbill will result in a billing based on our best estimate of the number of packages received from you and an estimated "default" weight per package, as determined and periodically adjusted by us.

AIR TRANSPORTATION TAX INCLUDED

Our basic rate includes a federal tax required by Internal Revenue Code Section 4271 on the air transportation portion of this service.

LIMITATIONS ON OUR LIABILITY AND LIABILITIES NOT ASSUMED

Our liability for loss or damage to your package is limited to your actual damages or \$100, whichever is less, unless you pay for and declare a higher authorized value. We do not provide cargo liability insurance, but you may pay an additional charge for each additional \$100 of declared value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your package.

In any event we will not be liable for any damages, whether direct, incidental, special or consequential in excess of the declared value of a shipment, whether or not Federal Express had knowledge that such damages might be incurred including, but not limited to, loss of income or profits.

We won't be liable for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking or addressing, or for the acts or omissions of the recipient or anyone else with an interest in the package. Also, we won't be liable, if you or the recipient violates any of the terms of our Agreement. We won't be liable for loss of or damage to shipments of prohibited items.

We won't be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts or omissions of public authorities (including customs and quarantine officials) with actual or apparent authority.

DECLARED VALUE LIMITS

The highest declared value we allow for FedEx Letter and FedEx Pak shipments is \$500. For other shipments, the highest declared value we allow is \$25,000 unless your package contains items of "extraordinary value," in which case the highest declared value we allow is \$500. Items of "extraordinary value" include artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our current Service Guide.

If you send more than one package on this Airbill, you may fill in the total declared value for all packages, not to exceed the \$100, \$500 or \$25,000 per package limit described above. (Example: 5 packages can have a total declared value of up to \$125,000.)

If more than one package is shipped on this Airbill, our liability for loss or damage will be limited to the actual value of the package(s) lost or damaged (not to exceed the lesser of the total declared value or the per package limits described above). You have the responsibility of proving the actual loss or damage.

FILING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING. You must notify us of your claim within strict time limits. See current Service Guide.

We'll consider your claim filed if you call and notify our Customer Service Department at 800-238-5355 and notify us in writing as soon as possible.

Within 90 days after you notify us of your claim, you must send us all relevant information about it. We are not obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, make the original shipping cartons and packing available for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. airbill for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cost we may incur in either returning your package to you or warehousing it pending disposition.

RIGHT OF REJECTION

We reserve the right to reject a shipment at any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or is in violation of any rules contained in this Airbill or our current Service Guide.

MONEY-BACK GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.

**FEDERAL
EXPRESS**

**MULTIPLE PACKAGE
SHIPMENT LABELS**

SHIPMENT DATE	5/18
MASTER AIRBILL NUMBER	1544447284

2 OF 3

943	3361	953
-----	------	-----

DESCRIPTION _____

3 OF 3

943	3361	962
-----	------	-----

DESCRIPTION _____

____ OF ____

943	3361	971
-----	------	-----

DESCRIPTION _____

____ OF ____

943	3361	987
-----	------	-----

DESCRIPTION _____

____ OF ____

943	3361	996
-----	------	-----

DESCRIPTION _____

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code 6503

Program Name STATE SUPERFUND ANAL. SYS.
LOVE CANAL L.T. MONITORING

Source Number _____

Drainage Basin 01 New York Gazetteer No. 3102 County NIAGARA Town NIAGARA FALLS

Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W

Z Direction, altitude or depth, include units 28 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 8125

ASP or CLP ONLY: Case _____ SDG _____ Customer # _____

TIME OF SAMPLING

Grab/Composite 9.4 05 18 12 20
Finish Year Month Day Mil hrs. 00-23 Minute

Composite Start 9.4 05 18 12 10

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP. 40

23 CHLORRES

Total

Type of Sample (Select from list) 250 Description OVERBURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample ☐ Add Text: 001.TXT DP: Y ☐ N ☐

Report Results CO ☐ RO ☐ LPHE ☐

To (No. of copies) FED ☐ INFO ☐ LAB ☐

Submitted by M. MOORE

Phone Number (716) 283 0112

Fax Number (716) 283 0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency Yes ☐ No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other _____

Organic Chemistry

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other LOVE CANAL

ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langlier Index

☐ Nitrate

☐ Trace Metals _____

☐ Other _____

☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis

☐ Other _____

Fuels

☐ Sulfur

☐ BTU

☐ Other _____

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL. SVS.
LOVE CANAL L.T.M.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

29 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 9105

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Chlorine Residual (Field)

Sample Temp. °C

Grab/Composite
Finish

94

05

18

12

00

Year

Month

Day

Mil hrs. 00-23

Minute

Composite Start

94

05

18

11

25

24 CHLORRES

Free

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

OVERBURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO

☐

RO

☐

LPHE

☐

To (No. of copies)

FED

☐

INFO

☐

LAB

☐

Submitted by

M. M. D. O. R. E.

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

MS/MSD

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency

Yes

☐

No

☐

If Yes, give additional information above

Sanitary Bacteriology

Organic Chemistry

Inorganic Chemistry

Nuclear Chemistry

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other LOVE CANAL

ANALYTES

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langlier Index

☐ Nitrate

☐ Trace Metals

☐ Other

☐ Lead

☐ Scheduled Analysis

☐ Other

Fuels

☐ Sulfur

☐ BTU

☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern

Program Code

6503

Program Name

STATE SUPERFUND ANAL SVS.
LOVE CANAL L.T.M.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

36 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 9113

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Chlorine Residual (Field)

Sample Temp. °C

Grab/Composite
Finish

94

05

18

11

20

24 CHLORRES

Free

O2 TEMP.

40

Composite Start

94

05

18

11

05

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

OVERBURNED GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO

RO

LPHE

Special
Mail

CM

Reason

To (No. of copies)

FED

INFO

LAB

Code

Additional Information Regarding This Sample

Submitted by

M. MOORE

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

FOR LABORATORY USE ONLY — Priority Level: Purpose:

Health Emergency

Yes

No

If Yes, give additional information above

Sanitary Bacteriology

Organic Chemistry

Inorganic Chemistry

Nuclear Chemistry

Check Water Source:

☐ Insecticides

☐ Potable Water, OCSS-I

☐ Scheduled Analysis

☐ Chlorinated Potable Water

☐ Herbicides

☐ Potable Water, OCSS-I +
Secondary

☐ Other

☐ Unchlorinated Potable Water

☐ PCBs

☐ Langelier Index

☐ Bottled Water

☐ Purgeables-502.2

☐ Nitrate

Fuels

☐ Nonpotable Surface Water

☐ Nitrogen/Phosphorus Pesticides

☐ Trace Metals

☐ Sulfur

☐ Chlorinated Waste Water

☐ Petroleum Products

☐ Other

☐ BTU

☐ Other

☒ Other

☐ Lead

☐ Other

LOVE CANAL
ANALYTES

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANALYSIS
LOVE CANAL LTM

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

34 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE #9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 9122

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Chlorine Residual (Field)

Sample Temp. °C

Grab/Composite
Finish

94

05

18

10

15

Mil hrs. 00-23

Minute

24 CHLORRES

Free

O2 TEMP.

40

Composite Start

94

05

18

10

00

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

OVERBURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO

☐

RO

☐

LPHE ☐

To (No. of copies)

FED

☐

INFO

☐

LAB ☐

Submitted by

M. M. DORR

Phone Number

(716) 283 0111

Fax Number

(716) 283 0112

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

FOR LABORATORY USE ONLY - Priority Level: _____ Purpose: _____

Health Emergency

Yes ☐

No ☐

If Yes, give additional information above

Sanitary Bacteriology

Organic Chemistry

Inorganic Chemistry

Nuclear Chemistry

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other LOVE CANAL

ANALYTES

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langlier Index

☐ Nitrate

☐ Trace Metals

☐ Other

☐ Lead

☐ Scheduled Analysis

☐ Other

Fuels

☐ Sulfur

☐ BTU

☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL SVS.
LOVE CANAL LTM

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 00.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

36 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 9118

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

05

18

10

55

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

40

Composite Start

94

05

18

10

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description OVERBURNED GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO

RO

LPHE

Special
Mail
Code

CM

Reason

To (No. of copies)

FED

INFO

LAB

Additional Information Regarding This Sample

Submitted by

M MOORE

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency

Yes

No

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other

Organic Chemistry

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langelier Index

☐ Nitrate

☐ Trace Metals

☐ Other

☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis

☐ Other

Fuels

☐ Sulfur

☐ BTU

☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL SVS.
LOVE CANAL L.T.M.

Source Number

Drainage Basin

011

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

47 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 10270

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94
Year

05
Month

18
Day

13
Mil hrs. 00-23

05
Minute

Composite Start

94

05

18

12

50

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description BEDROCK GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)

☐ Turbidity (C)

☐ Natural Disaster (E)

☐ New Equip. or Proc. (G)

☐ Interruption in Chlorination (I)

☐ Taste/Odor (B)

☐ Color (D)

☐ Fishkill (F)

☐ Equip. Failure (H)

☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO ☐

RO ☐

LPHE ☐

To (No. of copies)

FED ☐

INFO ☐

LAB ☐

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

Submitted by

M MOORE

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency

Yes ☐

No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other _____

Organic Chemistry

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langlier Index

☐ Nitrate

☐ Trace Metals _____

☐ Other _____

☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis

☐ Other _____

Fuels

☐ Sulfur

☐ BTU

☐ Other _____

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL. SVS.
LOVE CANAL L.T.M.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 51' 03.00" W

Z Direction, altitude or depth, include units

48 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-026

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 10272

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish9405181325

Year

Month

Day

Mil hrs. 00-23

Minute

Composite Start

9405181310

Chlorine Residual (Field)

24 CHLORRES

Free

Sample Temp. °C

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250Description BEDROCK GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample☐ Add Text: 001.TXTDP: Y ☐ N ☐

Report Results

CO ☐RO ☐LPHE ☐

To (No. of copies)

FED ☐INFO ☐LAB ☐Special
Mail
Code

CM

Reason

Submitted by

M. MOORE

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency

Yes ☐No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

- ☐ Chlorinated Potable Water
☐ Unchlorinated Potable Water
☐ Bottled Water
☐ Nonpotable Surface Water
☐ Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides
☐ Herbicides
☐ PCBs
☐ Purgeables-502.2
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants-S.V.
☐ Dioxin/Furan
☐ Ketones
☐ CLP
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Potable Water, OCSS-I + Secondary
☐ Langelier Index
☐ Nitrate
☐ Trace Metals _____
☐ Other _____
☐ Lead

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____
Fuels
☐ Sulfur
☐ BTU
☐ Other _____

Request for Analysis

For Laboratory Use Only

Lab Accession Number

Sample

Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern

Program Code

6503

Program Name

STATE SUPERFUND ANALYSIS.
LOVECANAL L.T.M.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

47 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVECANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 10278

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

9.4

05

18

1.4

00

Mil hrs. 00-23

Minute

Composite Start

9.4

05

18

1.3

45

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description BEDROCK GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)☐ Turbidity (C)☐ Natural Disaster (E)☐ New Equip. or Proc. (G)☐ Interruption in Chlorination (I)☐ Taste/Odor (B)☐ Color (D)☐ Fishkill (F)☐ Equip. Failure (H)☒ Other (J)☒ Chain of custody form accompanying sample☐ Add Text: 001.TXTDP: Y ☐ N ☐

Report Results.

CO

☐

RO

☐

LPHE

☐

To (No. of copies)

FED

☐

INFO

☐

LAB

☐

Submitted by

M. MOORE

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

FOR LABORATORY USE ONLY — Priority Level: Purpose:

Health Emergency

Yes ☐No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water☐ Unchlorinated Potable Water☐ Bottled Water☐ Nonpotable Surface Water☐ Chlorinated Waste Water☐ Other

Organic Chemistry

☐ Insecticides☐ Herbicides☐ PCBs☐ Purgeables-502.2☐ Nitrogen/Phosphorus Pesticides☐ Petroleum Products☐ Priority Pollutants-S.V.☐ Dioxin/Furan☐ Ketones☐ CLP☒ OtherLOVECANAL
ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I☐ Potable Water, OCSS-I +
Secondary☐ Langlier Index☐ Nitrate☐ Trace Metals☐ Other☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis☐ Other

Fuels

☐ Sulfur☐ BTU☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name _____

Source Number _____

Drainage Basin

01

New York Gazetteer No. 3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

0 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE #9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

FIELD BLANK FBWK2

ASP or CLP ONLY:

Case _____

SDG _____

Customer # _____

TIME OF SAMPLING

Grab/Composite
Finish

94

05

18

14

35

Mil hrs. 00-23

Minute

Composite Start

94

05

18

14

20

Chlorine Residual (Field)

24 CHLORRES

Free

Sample Temp. °C

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

Description

FIELD BLANK

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)

☐ Turbidity (C)

☐ Natural Disaster (E)

☐ New Equip. or Proc. (G)

☐ Interruption in Chlorination (I)

☐ Taste/Odor (B)

☐ Color (D)

☐ Fishkill (F)

☐ Equip. Failure (H)

☐ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO ☐

RO ☐

LPHE ☐

To (No. of copies)

FED ☐

INFO ☐

LAB ☐

Submitted by

M. M. DORR

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency

Yes ☐

No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other _____

Organic Chemistry

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langlier Index

☐ Nitrate

☐ Trace Metals _____

☐ Other _____

☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis

☐ Other _____

Fuels

☐ Sulfur

☐ BTU

☐ Other _____

New York State Department of Health 000001
Wadsworth Center for Laboratories and Research
Division of Environmental Sciences
PO Box 0509
Albany, NY 12201-509

SDG NARRATIVE

Ambient VOA

Case Designation: LC994
Sample Delivery Group: 0527
LOAC Batch Numbers: 8109, 8111, 8110
Contract Number: None

WK 3

Sample Numbers:

DEC SAMPLE DESIGNATION	DOH ACCESSION NUMBER	DEC SAMPLE DESIGNATION	DOH ACCESSION NO.
9130	941241	10205	941248
10115	941242	10105	941249
10178A	941243	10215	941250
10176B	941244	FIELD BLANK	941251
9210	941245	TRIP BLANK	941252
9210MS	941246	HOLDING BLANK	941253
9210MSD	941247	MATRIX-SPIKE BLANK	941254

DOCUMENTATION

No contract-laboratory sample information-sheet was received with this sample-delivery group. Mr. Lawrence Bailey of NYSDEC has advised that the document is not required if samples are accompanied by a correctly completed form DOH-246.

VOLATILE COMPOUNDS

All quality-control objectives were met.

No target analytes were detected in the field blank for this sample-delivery group.

000002

SEMIVOLATILE COMPOUNDS

Samples were extracted and analyzed within the required holding times.

Recoveries of surrogates for all but one sample were within acceptance limits. We recovered 30%, 34% and 30% of the surrogates, nitrobenzene-d₅, 2-fluorobiphenyl and 2-chlorophenol-d₅, respectively, from sample 10115 (941242). The lower acceptance limits for those compounds are 35%, 43% and 33%, respectively.

The nine-percent recovery of 4-Nitrophenol in the matrix-spike duplicate was below the acceptance limit of ten percent. In-house studies have indicated that cleanup by a combination of continuous liquid-liquid extraction and gel-permeation chromatography is responsible for the loss. Recoveries of 1,2-Dichlorobenzene, N-nitroso-di-n-propylamine and 1,2,4-trichlorobenzene from the matrix-spike blank were below acceptance limits.

Blanks and all samples from this batch contained contaminating hydrocarbons reportable as tentatively-identified compounds. Additional steps in glassware cleaning should, we believe, ameliorate, the problem. In addition, low levels of phthalates (dimethyl, diethyl, dibutyl, butylbenzyl, diisooctyl and dioctyl) were detected. An in-house study showed that glassware contamination was not the source of the phthalates.

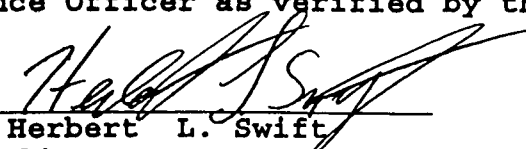
PESTICIDES AND PCBs

The 56% and 52% recoveries of surrogate decachlorobiphenyl from samples 10178A and 9210, respectively, are outside the lower advisory QC-limit of 60%.

The matrix spike and matrix-spike duplicate recoveries and relative percents-difference for lindane, heptachlor and 4,4'-DDT are outside advisory QC limits. Also beyond limits is the relative percent-difference for aldrin in the matrix-spike duplicate. Recoveries for all spiking compounds in the matrix-spike blank are within advisory QC limits.

CERTIFICATION

I certify that, except as noted above, this data package is in compliance with the terms and conditions of any pertinent contract, both technically and for completeness. Release of the data contained in this hardcopy data-package has been authorized by the Quality-Assurance Officer as verified by the following signature.

Signature: 

Herbert L. Swift

Quality-Assurance Officer

Date: 7/28/94

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000057

EPA SAMPLE NO.

FB_WK3

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0527

Matrix: (soil/water) WATER

Lab Sample ID: 941251

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0527D

Level: (low/med) LOW

Date Received: 05/27/94

% Moisture: not dec.

Date Analyzed: 05/27/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U



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USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

1520037982

1520037982

SENDER'S COPY

SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER 1172-1691-8		Date 5/26/94	
From (Your Name) Please Print MURICE MOORE		Your Phone Number (Very Important) 716 283 0112	
To (Recipient's Name) Please Print RON PAUSE		Recipient's Phone Number (Very Important) (518) 473-0323	
Company NYS DEC		Company NYS DOIT	
Street Address 30 WOLF RD.		Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.) LINDSEY STATE PLAZA Loading Dock J	
City ALBANY		City ALBANY	
State NY		State NY	
ZIP Required 12233		ZIP Required 12201	
YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.) 9-32-020			
IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here Street Address City State ZIP Required			
PAYMENT ☒ Bill Sender ☐ Bill Recipient's FedEx Acct. No. ☐ Bill 3rd Party FedEx Acct. No. ☐ Bill Credit Card			
5 ☐ Cash/Check ☐ Acct./Credit Card No. Exp. Date 1			
SERVICES (Check only one box)		DELIVERY AND SPECIAL HANDLING (Check services required)	
Priority Overnight (Delivery by next business morning) 11 ☒ OTHER PACKAGING 16 ☐ FEDEX LETTER* 12 ☐ FEDEX PAK* 13 ☐ FEDEX BOX 14 ☐ FEDEX TUBE Economy Two-Day (Delivery by second business day) 30 ☐ ECONOMY* *Economy Letter Rate not available. Minimum charge. One pound Economy rate.		Standard Overnight (Delivery by next business afternoon. No Saturday delivery) 51 ☐ OTHER PACKAGING 56 ☐ FEDEX LETTER* 52 ☐ FEDEX PAK* 53 ☐ FEDEX BOX 54 ☐ FEDEX TUBE Government Overnight (Restricted for authorized users only) 46 ☐ GOVT LETTER 41 ☐ GOVT PACKAGE Freight Service (for packages over 150 lbs.) 70 ☐ OVERNIGHT FREIGHT** (Confirmed reservation required) 80 ☐ TWO-DAY FREIGHT** **Delivery commitment may be later in some areas. *Declared Value Limit \$500. **Call for delivery schedule.	
Weekday Service 1 ☐ HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H) 2 ☒ DELIVER WEEKDAY Saturday Service 31 ☐ HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H) 3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations) 9 ☐ SATURDAY PICK-UP (Extra charge) Special Handling 4 ☐ DANGEROUS GOODS (Extra charge) 6 ☐ DRY ICE Dangerous Goods Shipper's Declaration not required Dry Ice, UN 1845, _____ X _____ kg. 904 III 12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)		PACKAGES 1 46 1 49 1 355 Total 3 150 DIM SHIPMENT (Chargeable Weight) _____ lbs. L x W x H Received At 1 ☐ Regular Stop 3 ☐ Drop Box 2 ☐ On-Call Stop 4 ☐ B.S.C. s ☐ Station 5 ☐ Station	
SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details. We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is \$500. In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information. Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom.			
Federal Express Use Base Charges Declared Value Charge Other 1 Other 2 Total Charges REVISION DATE 12/92 PART #137205 GBFE FORMAT #158 158 © 1992-93 FEDEX PRINTED IN U.S.A.			

SENDER'S COPY
DROP OFF YOUR PACKAGE AND SAVE

TERMS AND CONDITIONS

DEFINITIONS

On this Airbill, we, our and us refer to Federal Express Corporation, its employees and agents. You and your refer to the sender, its employees and agents.

AGREEMENT TO TERMS

By giving us your package to deliver, you agree to all the terms of this Airbill and in our current Service Guide, which is available upon request. If there is a conflict between the current Service Guide and this Airbill, the Service Guide will control. No one is authorized to alter or modify the terms of our Agreement.

RESPONSIBILITY FOR PACKAGING AND COMPLETING AIRBILL

You are responsible for adequately packaging your goods and for properly filling out this Airbill. Omission of the number of packages and weight per package from this Airbill will result in a billing based on our best estimate of the number of packages received from you and an estimated "default" weight per package, as determined and periodically adjusted by us.

AIR TRANSPORTATION TAX INCLUDED

Our basic rate includes a federal tax required by Internal Revenue Code Section 4271 on the air transportation portion of this service.

LIMITATIONS ON OUR LIABILITY AND LIABILITIES NOT ASSUMED

Our liability for loss or damage to your package is limited to your actual damages or \$100, whichever is less, unless you pay for and declare a higher authorized value. We do not provide cargo liability insurance, but you may pay an additional charge for each additional \$100 of declared value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your package.

In any event we will not be liable for any damages, whether direct, incidental, special or consequential in excess of the declared value of a shipment, whether or not Federal Express had knowledge that such damages might be incurred including, but not limited to, loss of income or profits.

We won't be liable for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking or addressing, or for the acts or omissions of the recipient or anyone else with an interest in the package. Also, we won't be liable, if you or the recipient violates any of the terms of our Agreement. We won't be liable for loss of or damage to shipments of prohibited items.

We won't be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts or omissions of public authorities (including customs and quarantine officials) with actual or apparent authority.

DECLARED VALUE LIMITS

The highest declared value we allow for FedEx Letter and FedEx Pak shipments is \$500. For other shipments, the highest declared value we allow is \$25,000 unless your package contains items of "extraordinary value," in which case the highest declared value we allow is \$500. Items of "extraordinary value" include artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our current Service Guide.

If you send more than one package on this Airbill, you may fill in the total declared value for all packages, not to exceed the \$100, \$500 or \$25,000 per package limit described above. (Example: 5 packages can have a total declared value of up to \$125,000.)

If more than one package is shipped on this Airbill, our liability for loss or damage will be limited to the actual value of the package(s) lost or damaged (not to exceed the lesser of the total declared value or the per package limits described above). You have the responsibility of proving the actual loss or damage.

FILING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING. You must notify us of your claim within strict time limits. See current Service Guide.

We'll consider your claim filed if you call and notify our Customer Service Department at 800-238-5355 and notify us in writing as soon as possible.

Within 90 days after you notify us of your claim, you must send us all relevant information about it. We are not obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, make the original shipping cartons and packing available for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. airbill for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cost we may incur in either returning your package to you or warehousing it pending disposition.

RIGHT OF REJECTION

We reserve the right to reject a shipment at any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or is in violation of any rules contained in this Airbill or our current Service Guide.

MONEY-BACK GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.

For Laboratory Use Only

Lab Accession Number _____

Sample

Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6SD3

Program Name

STATE SUPERFUND ANALYTICAL SERV.

LOVE CANAL LONG TERM MON

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

31 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring well # 9130

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

05

25

09

15

Mil hrs. 00-23

Minute

Composite Start

94

05

25

09

05

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

OVERBURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample☐ Add Text: 001.TXTDP: Y ☐ N ☐

Report Results

CO

RO

LPHE

To (No. of copies)

FED

INFO

LAB

Submitted by

M MOORE

Phone Number

(716) 283-0112

Fax Number

(716) 283-0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency

Yes ☐No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

- ☐ Chlorinated Potable Water
☐ Unchlorinated Potable Water
☐ Bottled Water
☐ Nonpotable Surface Water
☐ Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides
☐ Herbicides
☐ PCBs
☐ Purgeables-502.2
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants-S.V.
☐ Dioxin/Furan
☐ Ketones
☐ CLP
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Potable Water, OCSS-I + Secondary
☐ Langlier Index
☐ Nitrate
☐ Trace Metals _____
☐ Other _____
☐ Lead

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

Fuels

- ☐ Sulfur
☐ BTU
☐ Other _____

Request for Analysis

For Laboratory Use Only

Lab Accession Number

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern

Program Code 6503

Program Name STATE SUPERFUND ANAL. SERV
LOVE CANAL LONG TERM MON. Source Number

Drainage Basin 01 New York Gazetteer No. 3102 County NIABARA Town NIABARA FALLS

Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W

Z Direction, altitude or depth, include units 34 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation SITE # ~~WADSW~~ 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well # 10115

ASP or CLP ONLY: Case SDG Customer #

TIME OF SAMPLING

Grab/Composite 94 05 25 09 30
Finish Year Month Day Mil hrs. 00-23 Minute

Composite Start 94 05 25 09 20

Chlorine Residual (Field)

24 CHLORRES Free

23 CHLORRES Total

Sample Temp. ° C

O2 TEMP. 40

Type of Sample (Select from list) 250 Description OVERBURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample ☐ Add Text: 001.TXT DP: Y ☐ N ☐

Report Results CO ☐ RO ☐ LPHE ☐

To (No. of copies) FED ☐ INFO ☐ LAB ☐

Submitted by M MOORE

Phone Number (716) 283 0112

Fax Number (716) 283 0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

FOR LABORATORY USE ONLY — Priority Level: Purpose:

Health Emergency Yes ☐ No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

- ☐ Chlorinated Potable Water
☐ Unchlorinated Potable Water
☐ Bottled Water
☐ Nonpotable Surface Water
☐ Chlorinated Waste Water
☐ Other

Organic Chemistry

- ☐ Insecticides
☐ Herbicides
☐ PCBs
☐ Purgeables-502.2
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants-S.V.
☐ Dioxin/Furan
☐ Ketones
☐ CLP
☒ Other LOVE CANAL ANALYSES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Potable Water, OCSS-I + Secondary
☐ Langelier Index
☐ Nitrate
☐ Trace Metals
☐ Other
☐ Lead

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other

Fuels

- ☐ Sulfur
☐ BTU
☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL. SER.

LOVE CANAL LONG TERM.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

19 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 10176 B

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

05

25

10

20

Year

Month

Day

Mil hrs. 00-23

Minute

Composite Start

94

05

25

10

10

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

4°

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

OVERBORDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO

RO

LPHE

To (No. of copies)

FED

INFO

LAB

Submitted by

M MOORE

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

FOR LABORATORY USE ONLY — Priority Level: Purpose:

Health Emergency

Yes

No

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

- ☐ Chlorinated Potable Water
☐ Unchlorinated Potable Water
☐ Bottled Water
☐ Nonpotable Surface Water
☐ Chlorinated Waste Water
☐ Other

Organic Chemistry

- ☐ Insecticides
☐ Herbicides
☐ PCBs
☐ Purgeables-502.2
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants-S.V.
☐ Dioxin/Furan
☐ Ketones
☐ CLP
☒ Other LOVE CANAL ANALYSES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Potable Water, OCSS-I + Secondary
☐ Langlier Index
☐ Nitrate
☐ Trace Metals
☐ Other
☐ Lead

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other
Fuels
☐ Sulfur
☐ BTU
☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code 6503

Program Name STATE SUPERFUND ANAL. SERV.

Source Number _____

Drainage Basin 01 New York Gazetteer No. 3102 County NIAGARA Town NIAGARA FALLS

Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W

Z Direction, altitude or depth, include units 82 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-070

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING well # 9210

ASP or CLP ONLY: Case _____ SDG _____ Customer # _____

TIME OF SAMPLING

Grab/Composite 9.4 05 25 11 20
Finish Year Month Day Mil hrs. 00-23 Minute

Composite Start 9.4 05 25 10 50

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES Free

O2 TEMP. 40

23 CHLORRES Total

Type of Sample (Select from list) 250 Description Bedrock groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample ☐ Add Text: 001.TXT DP: Y ☐ N ☐

Report Results CO ☐ RO ☐ LPHE ☐

To (No. of copies) FED ☐ INFO ☐ LAB ☐

Submitted by M. KODAK

Phone Number (716) 283 0112

Fax Number (716) 283 0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

MS/MSD's

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency Yes ☐ No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

- ☐ Chlorinated Potable Water
☐ Unchlorinated Potable Water
☐ Bottled Water
☐ Nonpotable Surface Water
☐ Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides
☐ Herbicides
☐ PCBs
☐ Purgeables-502.2
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants-S.V.
☐ Dioxin/Furan
☐ Ketones
☐ CLP
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Potable Water, OCSS-I + Secondary
☐ Langelier Index
☐ Nitrate
☐ Trace Metals _____
☐ Other _____
☐ Lead

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

Fuels

- ☐ Sulfur
☐ BTU
☐ Other _____

Request for Analysis

For Laboratory Use Only

Lab Accession Number

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern

Program Code

6503

Program Name

STATE SUPERFUND ANAL. SERV
LOVE CANAL LONG TERM
MON.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

54 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-070

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well # 10205

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

05

25

11

45

Mil hrs. 00-23

Minute

Composite Start

94

05

25

17

30

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

BECKMAN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample☐ Add Text: 001.TXTDP: Y ☐ N ☐

Report Results

CO ☐RO ☐LPHE ☐

To (No. of copies)

FED ☐INFO ☐LAB ☐

Submitted by

M Moore

Phone Number

(716) 283-0112

Fax Number

(716) 283-0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

FOR LABORATORY USE ONLY — Priority Level: Purpose:

Health Emergency

Yes ☐No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

- ☐ Chlorinated Potable Water
☐ Unchlorinated Potable Water
☐ Bottled Water
☐ Nonpotable Surface Water
☐ Chlorinated Waste Water
☐ Other

Organic Chemistry

- ☐ Insecticides
☐ Herbicides
☐ PCBs
☐ Purgeables-502.2
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants-S.V.
☐ Dioxin/Furan
☐ Ketones
☐ CLP
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Potable Water, OCSS-I + Secondary
☐ Langelier Index
☐ Nitrate
☐ Trace Metals
☐ Other
☐ Lead

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other
Fuels
☐ Sulfur
☐ BTU
☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample

Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL. SERV.

LOVE CANAL LONGTERM. MON

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

30 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 10105

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

9.4

05

25

12

00

Year

Month

Day

Mil hrs. 00-23

Minute

Composite Start

9.4

05

25

11

50

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

4°

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

OVERBURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)

☐ Turbidity (C)

☐ Natural Disaster (E)

☐ New Equip. or Proc. (G)

☐ Interruption in Chlorination (I)

☐ Taste/Odor (B)

☐ Color (D)

☐ Fishkill (F)

☐ Equip. Failure (H)

☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP:

Y

N

Report Results

CO

RO

LPHE

To (No. of copies)

FED

INFO

LAB

Submitted by

M. MOORE

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

FOR LABORATORY USE ONLY — Priority Level:

Purpose:

Health Emergency

Yes

No

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other

Organic Chemistry

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other

LOVE CANAL
ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langlier Index

☐ Nitrate

☐ Trace Metals

☐ Other

☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis

☐ Other

Fuels

☐ Sulfur

☐ BTU

☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL. SERV.
LOVE CANAL LONG TERM
mon.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

60 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well # 10215

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

9.4

05

25

1.2

25

Mil hrs. 00-23

Minute

Composite Start

9.4

05

25

1.2

1.0

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

4°

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

Bedrock Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP:

Y

N

Report Results

CO

☐

RO

☐

LPHE

☐

Special
Mail
Code

CM

Reason

To (No. of copies)

FED

☐

INFO

☐

LAB

☐

Additional Information Regarding This Sample

Submitted by

M. Moore

Phone Number

(716) 283-0112

Fax Number

(716) 283-0111

FOR LABORATORY USE ONLY — Priority Level:

Purpose:

Health Emergency

Yes

☐

No

☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other

Organic Chemistry

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other

LOVE CANAL
ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langlier Index

☐ Nitrate

☐ Trace Metals

☐ Other

☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis

☐ Other

Fuels

☐ Sulfur

☐ BTU

☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code 6503

Program Name

STATE SUPERFUND ANAL. SERV.
LOVE CANAL LONG TERM MON.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

0 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 4-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Field Blank Week 3 VOA's only

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

05

25

12

35

Mil hrs. 00-23

Minute

Composite Start

94

05

25

12

30

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

10

23 CHLORRES

Total

Type of Sample (Select from list)

Description

Field blank

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)

☐ Turbidity (C)

☐ Natural Disaster (E)

☐ New Equip. or Proc. (G)

☐ Interruption in Chlorination (I)

☐ Taste/Odor (B)

☐ Color (D)

☐ Fishkill (F)

☐ Equip. Failure (H)

☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO

RO

LPHE

Special
Mail
Code

CM

Reason

To (No. of copies)

FED

INFO

LAB

Submitted by

M Moore

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

Field Blank VOA's only

FOR LABORATORY USE ONLY — Priority Level:

Purpose:

Health Emergency

Yes ☐

No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other

Organic Chemistry

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other LOVE CANAL

ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langelier Index

☐ Nitrate

☐ Trace Metals

☐ Other

☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis

☐ Other

Fuels

☐ Sulfur

☐ BTU

☐ Other

New York State Department of Health
Wadsworth Center for Laboratories and Research
Division of Environmental Sciences
PO Box 0509
Albany, NY 12201-509

000001

SDG NARRATIVE

WK 4 TAP H₂O All

Case Designation: LC994
Sample Delivery Group: 0610
LOAC Batch Nos.: 8112, 8113, 8114
Contract Number: None

Sample Numbers:

DEC SAMPLE DESIGNATION	DOH ACCESSION NUMBER	DEC SAMPLE DESIGNATION	DOH ACCESSION NUMBER
10150	941395	10210CMS	941401
7130	941396	10210CMSD	941402
6209	941397	Field Blank	941403
5222	941398	Matrix-Spike Blank	941404
3257	941399	Trip Blank	941405
10210C	941400	Holding Blank	941406

DOCUMENTATION

No contract-laboratory sample information-sheet was received with this sample delivery-group. Mr. Lawrence Bailey has advised us that the document is not required if samples are accompanied by a correctly completed form DOH-246.

VOLATILE COMPOUNDS

All quality control targets were met.

Target analytes typical of drinking water from a chlorinated supply were detected in the field blank for this batch.

SEMIVOLATILE COMPOUNDS

Samples were extracted and analyzed within the required holding times.

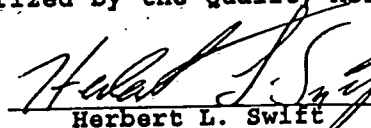
Recoveries of all surrogate and matrix spikes, including that for 4-nitrophenol, were within acceptance limits.

Blanks and all samples from this batch (except for the Quality-Control Spike which did not undergo extraction, gel-permeation chromatography cleanup or solvent concentration) contained contaminating hydrocarbons, reportable as tentatively-identified compounds. In addition, low levels of phthalates (dimethyl, diethyl, dibutyl, butylbenzyl, diisooctyl and dioctyl) were detected. An in-house study has shown that glassware contamination was not the source of the phthalates.

PESTICIDES AND PCBs

The percents recovery of both surrogate compounds for sample 10150 (Lab. I.D. 941395) are outside the advisory QC-limits.

I certify that, except as noted above, this data package is in compliance with the terms and conditions of any pertinent contract, both technically and for completeness. Release of the data contained in this hardcopy data-package has been authorized by the Quality-Assurance Officer as verified by the following signature.

Signature: 
Herbert L. Swift
Quality-Assurance Officer

Date: 7/28/94



**MULTIPLE PACKAGE
SHIPMENT LABELS**

SHIPMENT DATE	6-9
MASTER AIRBILL NUMBER	

~~2~~ OF	8969690956
-----------------	------------

DESCRIPTION VOID

2 OF 3	8969690965
--------	------------

DESCRIPTION _____

3 OF 3	8969690974
--------	------------

DESCRIPTION [scribble]

OF	8969690983
----	------------

DESCRIPTION [scribble]

OF	8969690992
----	------------

DESCRIPTION _____



USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

1544447310

1544447310

SENDER'S COPY

SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER 1172-1691-8		Date 6/9/94	
From (Your Name) Please Print MAURICE F MOWLE		Your Phone Number (Very Important) (716) 283-0112	
To (Recipient's Name) Please Print RON PAUSE		Recipient's Phone Number (Very Important) (716) 173-0323	
Company NYSDEC / Remediation		Department/Floor No. Rm 210	
Company W43 DOH WCLDR Rm 517		Department/Floor No.	
Street Address SD WOLF Rd		Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.) 210 STATE PLAZA LINDEN DUCK J	
City ALBANY		State NY	
ZIP Required 12233		City ALBANY	
State NY		ZIP Required 12201	
YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.) 9-32-020			
IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here Street Address City State ZIP Required			
PAYMENT 1 ☒ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No. 3 ☐ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card			
5 ☐ Cash/Check Acct./Credit Card No. Exp. Date			

4 SERVICES (Check only one box)		5 DELIVERY AND SPECIAL HANDLING (Check services required)		6 PACKAGES		WEIGHT In Pounds Only		YOUR DECLARED VALUE (See right)			
Priority Overnight (Delivery by next business morning) 11 ☒ OTHER PACKAGING 16 ☒ FEDEX LETTER* 12 ☐ FEDEX PAK* 13 ☐ FEDEX BOX 14 ☐ FEDEX TUBE		Standard Overnight (Delivery by next business afternoon, no Saturday delivery) 51 ☐ OTHER PACKAGING 56 ☐ FEDEX LETTER* 52 ☐ FEDEX PAK* 53 ☐ FEDEX BOX 54 ☐ FEDEX TUBE		Weekday Service 1 ☐ HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H) 2 ☒ DELIVER WEEKDAY Saturday Service 31 ☐ HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H) 3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations) 9 ☐ SATURDAY PICK-UP (Extra charge) Special Handling 4 ☐ DANGEROUS GOODS (Extra charge) 6 ☐ DRY ICE (Dangerous Goods Shipper's Declaration not required)		1 36 1 49 1 56 Total 3 145		Total Total		Total	
Economy Two-Day (Delivery by second business day) 30 ☐ ECONOMY* *Economy Letter Rate not available. Minimum charge: One pound Economy rate.		Government Overnight (Restricted for authorized users only) 46 ☐ GOVT LETTER 41 ☐ GOVT PACKAGE				DIM SHIPMENT (Chargeable Weight) ☐ lbs. L x W x H					
Freight Service (for packages over 150 lbs.) 70 ☐ OVERNIGHT FREIGHT** (Confirmed reservation required) †Delivery commitment may be later in some areas.		TWO-DAY FREIGHT** 80 ☐ TWO-DAY FREIGHT** (Confirmed reservation required) *Declared Value Limit \$500. **Call for delivery schedule.		Day/kg, 9.141845 X kg, 904 III DESCRIPTION 12 ☐ HOLIDAY DELIVERY (if offered) (Extra charge)		Received At 1 ☐ Regular Stop 3 ☐ Drop Box 2 ☐ On-Call Stop 4 ☐ B.S.C. 5 ☐ Station					
SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details. We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is \$500. In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information.										Federal Express Use Base Charges Declared Value Charge Other 1 Other 2 Total Charges	
										REVISION DATE 12/92 PART #137205 GBFE FORMAT #158 158 © 1992-93 FEDEX PRINTED IN U.S.A.	

SENDER'S COPY
DROP OFF YOUR PACKAGE AND SAVE

TERMS AND CONDITIONS

DEFINITIONS

On this Airbill, we, our and us refer to Federal Express Corporation, its employees and agents. You and your refer to the sender, its employees and agents.

AGREEMENT TO TERMS

By giving us your package to deliver, you agree to all the terms of this Airbill and in our current Service Guide, which is available upon request. If there is a conflict between the current Service Guide and this Airbill, the Service Guide will control. No one is authorized to alter or modify the terms of our Agreement.

RESPONSIBILITY FOR PACKAGING AND COMPLETING AIRBILL

You are responsible for adequately packaging your goods and for properly filling out this Airbill. Omission of the number of packages and weight per package from this Airbill will result in a billing based on our best estimate of the number of packages received from you and an estimated "default" weight per package, as determined and periodically adjusted by us.

AIR TRANSPORTATION TAX INCLUDED

Our basic rate includes a federal tax required by Internal Revenue Code Section 4271 on the air transportation portion of this service.

LIMITATIONS ON OUR LIABILITY AND LIABILITIES NOT ASSUMED

Our liability for loss or damage to your package is limited to your actual damages or \$100, whichever is less, unless you pay for and declare a higher authorized value. We do not provide cargo liability insurance, but you may pay an additional charge for each additional \$100 of declared value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your package.

In any event we will not be liable for any damages, whether direct, incidental, special or consequential in excess of the declared value of a shipment, whether or not Federal Express had knowledge that such damages might be incurred including, but not limited to, loss of income or profits.

We won't be liable for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking or addressing, or for the acts or omissions of the recipient or anyone else with an interest in the package. Also, we won't be liable, if you or the recipient violates any of the terms of our Agreement. We won't be liable for loss of or damage to shipments of prohibited items.

We won't be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts or omissions of public authorities (including customs and quarantine officials) with actual or apparent authority.

DECLARED VALUE LIMITS

The highest declared value we allow for FedEx Letter and FedEx Pak shipments is \$500. For other shipments, the highest declared value we allow is \$25,000 unless your package contains items of "extraordinary value," in which case the highest declared value we allow is \$500. Items of "extraordinary value" include artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our current Service Guide.

If you send more than one package on this Airbill, you may fill in the total declared value for all packages, not to exceed the \$100, \$500 or \$25,000 per package limit described above. (Example: 5 packages can have a total declared value of up to \$125,000.)

If more than one package is shipped on this Airbill, our liability for loss or damage will be limited to the actual value of the package(s) lost or damaged (not to exceed the lesser of the total declared value or the per package limits described above). You have the responsibility of proving the actual loss or damage.

FILING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING. You must notify us of your claim within strict time limits. See current Service Guide.

We'll consider your claim filed if you call and notify our Customer Service Department at 800-238-5355 and notify us in writing as soon as possible.

Within 90 days after you notify us of your claim, you must send us all relevant information about it. We are not obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, make the original shipping cartons and packing available for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. airbill for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cost we may incur in either returning your package to you or warehousing it pending disposition.

RIGHT OF REJECTION

We reserve the right to reject a shipment at any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or is in violation of any rules contained in this Airbill or our current Service Guide.

MONEY-BACK GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL SERV.
LOVE CANAL LONG TERM
MONITORING

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

32 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation P Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring well # 10150

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

06

08

09

15

Mil hrs. 00-23

Minute

Composite Start

94

06

08

09

05

Chlorine Residual (Field)

24 CHLORRES

Free

Sample Temp. °C

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

OVERBURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)☐ Turbidity (C)☐ Natural Disaster (E)☐ New Equip. or Proc. (G)☐ Interruption in Chlorination (I)☒ Taste/Odor (B)☐ Color (D)☐ Fishkill (F)☐ Equip. Failure (H)☒ Other (J)☒ Chain of custody form accompanying sample☐ Add Text: 001.TXTDP: Y ☐ N ☐

Report Results

CO ☐RO ☐LPHE ☐Special
Mail

CM

Reason

To (No. of copies)

FED ☐INFO ☐LAB ☐

Code

Additional Information Regarding This Sample

Submitted by

M. MOORE

Phone Number

(716) 283-0112

Fax Number

(716) 283-0111

FOR LABORATORY USE ONLY — Priority Level:

Purpose:

Health Emergency

Yes ☐No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water☐ Unchlorinated Potable Water☐ Bottled Water☐ Nonpotable Surface Water☐ Chlorinated Waste Water☐ Other

Organic Chemistry

☐ Insecticides☐ Herbicides☐ PCBs☐ Purgeables-502.2☐ Nitrogen/Phosphorus Pesticides☐ Petroleum Products☐ Priority Pollutants-S.V.☐ Dioxin/Furan☐ Ketones☐ CLP☒ OtherLOVE CANAL
ANALYSES

Inorganic Chemistry

☐ Potable Water, OCSS-I☐ Potable Water, OCSS-I +
Secondary☐ Langelier Index☐ Nitrate☐ Trace Metals☐ Other☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis☐ Other

Fuels

☐ Sulfur☐ BTU☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL SERV.

LOVE CANAL LONG TERM

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

28 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring well # 7130

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

9.4

06

08

09

4.0

Year

Month

Day

Mil hrs. 00-23

Minute

Composite Start

9.4

06

08

09

3.0

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description OVERBURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample☐ Add Text: 001.TXTDP: Y ☐ N ☐

Report Results

CO

RO

LPHE

To (No. of copies)

FED

INFO

LAB

Submitted by

M MOORE

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

FOR LABORATORY USE ONLY — Priority Level:

Purpose:

Health Emergency

Yes ☐No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

- ☐ Chlorinated Potable Water
☐ Unchlorinated Potable Water
☐ Bottled Water
☐ Nonpotable Surface Water
☐ Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides
☐ Herbicides
☐ PCBs
☐ Purgeables-502.2
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants-S.V.
☐ Dioxin/Furan
☐ Ketones
☐ CLP
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Potable Water, OCSS-I + Secondary
☐ Langelier Index
☐ Nitrate
☐ Trace Metals _____
☐ Other _____
☐ Lead

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

Fuels

- ☐ Sulfur
☐ BTU
☐ Other _____

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample

Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

10503

Program Name

STATE SUPERFUND ANAL. SERV.
LOVE CANAL LONG TERM

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

425 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well # 6209

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

06

08

11

40

Year

Month

Day

Mil hrs. 00-23

Minute

Composite Start

94

06

08

11

30

Chlorine Residual (Field)

24 CHLORRES

Free

Sample Temp. °C

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

Bedrock groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample☐ Add Text: 001.TXTDP: Y ☐ N ☐

Report Results

CO

RO

LPHE

Special
Mail
Code

CM

Reason

To (No. of copies)

FED

INFO

LAB

Additional Information Regarding This Sample

Submitted by

N MOORE

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency

Yes

No

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

- ☐ Chlorinated Potable Water
☐ Unchlorinated Potable Water
☐ Bottled Water
☐ Nonpotable Surface Water
☐ Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides
☐ Herbicides
☐ PCBs
☐ Purgeables-502.2
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants-S.V.
☐ Dioxin/Furan
☐ Ketones
☐ CLP
☒ Other Love Canal ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Potable Water, OCSS-I + Secondary
☐ Langelier Index
☐ Nitrate
☐ Trace Metals
☐ Other _____
☐ Lead

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____
Fuels
☐ Sulfur
☐ BTU
☐ Other _____

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPPLEMENTAL ANAL. SERV.
LOVE CANAL LONG TERM
MON.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

370 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site #9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well # 5222

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Chlorine Residual (Field)

Sample Temp. °C

Grab/Composite
Finish

94

06

08

10

20

24 CHLORRES

Free

O2 TEMP.

4°

Composite Start

94

06

08

10

10

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

Bedrock Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)

☐ Turbidity (C)

☐ Natural Disaster (E)

☐ New Equip. or Proc. (G)

☐ Interruption in Chlorination (I)

☐ Taste/Odor (B)

☐ Color (D)

☐ Fishkill (F)

☐ Equip. Failure (H)

☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO ☐

RO ☐

LPHE ☐

Special
Mail
Code

CM

Reason

To (No. of copies)

FED ☐

INFO ☐

LAB ☐

Additional Information Regarding This Sample

Submitted by

M Moore

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency

Yes ☐

No ☐

If Yes, give additional information above

Sanitary Bacteriology

Organic Chemistry

Inorganic Chemistry

Nuclear Chemistry

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other

LOVE CANAL
ANALYTES

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langelier Index

☐ Nitrate

☐ Trace Metals

☐ Other

☐ Lead

☐ Scheduled Analysis

☐ Other

Fuels

☐ Sulfur

☐ BTU

☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL. SERV.
LOVE CANAL LONG TERM
MON.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

37 ft

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring well # 3257

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

06

08

Mil hrs. 00-23

Minute

Composite Start

94

06

08

Chlorine Residual (Field)

24 CHLORRES

Free

Sample Temp. ° C

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

Bedrock Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO ☐

RO ☐

LPHE ☐

Special
Mail
Code

CM

Reason

To (No. of copies)

FED ☐

INFO ☐

LAB ☐

Additional Information Regarding This Sample

Submitted by

M. Moore

Phone Number

(716) 283-0112

Fax Number

(716) 283-0111

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency

Yes ☐

No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

- ☐ Chlorinated Potable Water
☐ Unchlorinated Potable Water
☐ Bottled Water
☐ Nonpotable Surface Water
☐ Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides
☐ Herbicides
☐ PCBs
☐ Purgeables-502.2
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants-S.V.
☐ Dioxin/Furan
☐ Ketones
☐ CLP
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Potable Water, OCSS-I + Secondary
☐ Langlier Index
☐ Nitrate
☐ Trace Metals _____
☐ Other _____
☐ Lead

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____
Fuels
☐ Sulfur
☐ BTU
☐ Other _____

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL SERV.
LOVE CANAL LONG TERM
M.M.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

WILMOTA

Town

WILMOTA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

84 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring well # 10210 C

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

06

08

11

20

Mil hrs. 00-23

Minute

Composite Start

94

06

08

10

50

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

Bedrock Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)

☐ Turbidity (C)

☐ Natural Disaster (E)

☐ New Equip. or Proc. (G)

☐ Interruption in Chlorination (I)

☐ Taste/Odor (B)

☐ Color (D)

☐ Fishkill (F)

☐ Equip. Failure (H)

☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO

RO

LPHE

Special
Mail
Code

CM

Reason

To (No. of copies)

FED

INFO

LAB

Submitted by

M Moore

Phone Number

(716) 293 0112

Fax Number

(716) 293 0111

Additional Information Regarding This Sample

MS/MSD

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency

Yes ☐

No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other

Organic Chemistry

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other

Love Canal
ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langelier Index

☐ Nitrate

☐ Trace Metals

☐ Other

☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis

☐ Other

Fuels

☐ Sulfur

☐ BTU

☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample

Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATESUPERFUND ANAL SERV
LONG TERM Mon.
LOVE CANAL

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

N. AGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

0 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Field BLANK WK 4

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

06

08

07

50

Mil hrs. 00-23

Minute

Chlorine Residual (Field)

24 CHLORRES

Free

Sample Temp. °C

02 TEMP.

40

Composite Start

94

06

08

07

45

23 CHLORRES

Total

Type of Sample (Select from list)

Description

FIELD BLANK

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)☐ Turbidity (C)☐ Natural Disaster (E)☐ New Equip. or Proc. (G)☐ Interruption in Chlorination (I)☐ Taste/Odor (B)☐ Color (D)☐ Fishkill (F)☐ Equip. Failure (H)☒ Other (J)☒ Chain of custody form accompanying sample☐ Add Text: 001.TXTDP: Y ☐ N ☐

Report Results

CO ☐RO ☐LPHE ☐

To (No. of copies)

FED ☐INFO ☐LAB ☐

Submitted by

M Moule

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

FOR LABORATORY USE ONLY — Priority Level:

Purpose:

Health Emergency

Yes ☐No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water☐ Unchlorinated Potable Water☐ Bottled Water☐ Nonpotable Surface Water☐ Chlorinated Waste Water☐ Other

Organic Chemistry

☐ Insecticides☐ Herbicides☐ PCBs☐ Purgeables-502.2☐ Nitrogen/Phosphorus Pesticides☐ Petroleum Products☐ Priority Pollutants-S.V.☐ Dioxin/Furan☐ Ketones☐ CLP☒ OtherLOVE CANAL
ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I☐ Potable Water, OCSS-I +
Secondary☐ Langelier Index☐ Nitrate☐ Trace Metals☐ Other☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis☐ Other

Fuels

☐ Sulfur☐ BTU☐ Other

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TAP water

FB_WK4

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0610

Matrix: (soil/water) WATER

Lab Sample ID: 941403

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0610D

Level: (low/med) LOW

Date Received: 06/10/94

% Moisture: not dec.

Date Analyzed: 06/10/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	0.3	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	32	
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	19	
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	6	J
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	0.2	J
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB_WK4

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0610

Matrix: (soil/water) WATER

Lab Sample ID: 941403

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3 0624G

Level: (low/med) LOW

Date Received: 06/10/94 *PHR*

% Moisture: decanted: (Y/N)

Date Extracted: 06/14/94 *PHR*

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/24/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

CAS NO.

COMPOUND

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	0.1	J
59-50-7	4-Chloro-3-methylphenol	0.08	BJ
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	25	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	25	U
88-74-4	2-Nitroaniline	0.07	BJ
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	25	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene		

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB_WK4

Lab Name: WCLR Contract: _____

Lab Code: WCLR Case No.: LC994_ SAS No.: _____ SDG No.: 0610

Matrix: (soil/water) WATER Lab Sample ID: 941403

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 3 0624G

Level: (low/med) LOW Date Received: ~~05/20/94~~ 06/10/94 *MSA*

% Moisture: decanted: (Y/N) Date Extracted: ~~05/24/94~~ 06/14/94 *MSA*

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/24/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

CAS NO.

COMPOUND

51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	2	BJ
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	0.1	BJ
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	0.1	J
85-01-8	Phenanthrene	0.2	BJ
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.9	BJ
206-44-0	Fluoranthene	0.02	BJ
129-00-0	Pyrene	0.03	BJ
85-68-7	Butylbenzylphthalate	0.09	BJ
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	8	BJ
117-84-0	Di-n-octylphthalate	0.06	BJ
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB_WK4

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0610

Matrix: (soil/water) WATER

Lab Sample ID: 941403

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0624G

Level: (low/med) LOW

Date Received: 06/10/94 *AMR*

% Moisture:

decanted: (Y/N)

Date Received: 05/20/94

Date Extracted: 06/13/94 *AMR*

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/24/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 14

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0	Unknown C10H20	2.26	3	BJN
2. 3306732	1,2,3,4,5-PENTAMETHYL-CYCLOP	3.21	9	JN
3. 0	Unknown C9H16O	3.43	3	BJN
4. 5406309	Diisoamylene	3.72	4	BJN
5. 429179	Cyclohexane, 1-methyl-2-prop	3.76	7	JN
6. 0	Unknown C9H18O	6.58	2	BJN
7.	1'-Cyclopenten-1-yl-propane-	6.60	4	J
8.	1'-Cyclobuten-1-yl-butane-1,	6.69	11	J
9. 11205	Nonanoic acid	6.98	3	BJN
10.	deriv of 1,2-propanediol, mo	17.41	2	J
11.	deriv of 1,2-propanediol, mo	17.50	3	J
12. 791286	Phosphine oxide, triphenyl-	17.99	35	BJN
13. 30102	9-Octadecenamide, (Z)-	19.44	2	BJN
14. 768364	2,6,10,14,18,22-Tetracosahex	19.75	11	BJN

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FBWK4

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LC994

SAS No.:

SDG No.: 0610

Matrix: (soil/water) WATER

Lab Sample ID: 941403

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 06/10/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 06/13/94

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/07/94

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.5

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

NEW YORK STATE DEPARTMENT OF HEALTH
Wadsworth Center for Laboratories & Research
Albany, NY 12201-0509

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INSTRUCTIONS: This form must be completed for any sample which might be used in enforcement proceedings or litigation. TRANSPORTING SAMPLES: During transport of the sample from sampling site to the laboratory, the chain of custody must be unbroken. Generally this will require that the sample be delivered by the sample collector or his designated representative who will sign for the receipt, integrity and transfer of the sample during shipment. If integrity of the sample is questionable, describe problem on the reverse side of this form.

SAMPLE ID (Lab Use Only)	FIELD REF #	COLL. DATE	COLL. TIME	COLLECTION POINT	SAMPLE TYPE
16AL LOT 209802					
040988	✓	—	—	DNU	☐ Water ☐ Air ☐ Soil ☐ Other <u>Box 7114</u>
040989	✓	—	—	DNU	☐ Water ☐ Air ☐ Soil ☐ Other <u>Box 7114</u>
X		X		X	☐ Water ☐ Air ☐ Soil ☐ Other
RP1 5/18/94			TB6	✓ TRIP BLANK	☐ Water ☐ Air ☐ Soil ☐ Other <u>Cooler 2 6/22</u>
RP2 5/18/94			TB6	✓	☐ Water ☐ Air ☐ Soil ☐ Other <u>Cooler 2 6/22</u>
RP3 5/18/94			TB7		☐ Water ☐ Air ☐ Soil ☐ Other <u>Cooler 7/14</u>
RP4 5/18/94			TB7		☐ Water ☐ Air ☐ Soil ☐ Other <u>Cooler 7/14</u>

CUSTODY OF SAMPLES

	NAME	AFFILIATION	DATE	TIME
1a. Sample container prepared by	J. Chen			
b. Sample container prepared by	James W. Vance	WCCRL	5/18/94	1430
2. Received by	James W. Vance	WCCRL	5/25/94	1500
3. Received by	James W. Vance	WCCRL	6/22/94	1030
4. Sample Collected by	James W. Vance	WCCRL	7/13/94	1500
5. Sample Received by	James W. Vance	WCCRL	7/14/94	0900
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Received at Lab by				
11. Sample Accessioned by				

NEW YORK STATE DEPARTMENT OF HEALTH
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Albany, NY 12201-0509

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SAMPLE ID (Lab Use Only)	FIELD REF #	COLL. DATE	COLL. TIME	COLLECTION POINT	SAMPLE TYPE
115605	✓ 10210C	6/8/94	1102	MW 10210C MS/MSD	☒ Water ☐ Air ☐ Soil ☐ Other Cool 3 6/9
115606	✓ 10210C	6/8/94	1105	MW 10210C MS/MSD	☒ Water ☐ Air ☐ Soil ☐ Other Cool 3 6/9
115607	✓ FBWK4	6/8/94	0745	✓ FBWK4	☒ Water ☐ Air ☐ Soil ☐ Other Cool 3 6/9
115608	✓ FBWK4	6/8/94	0748	✓ FBWK4	☒ Water ☐ Air ☐ Soil ☐ Other Cool 3 6/9
115609	✓	7/3/94	1510	✓ MW 10210A	☒ Water ☐ Air ☐ Soil ☐ Other
115616	✓	7/13/94	1513	✓ MW 10210A	☒ Water ☐ Air ☐ Soil ☐ Other
115648	✓ 10210B	6/15/94	0945	✓ MW 10210B	☒ Water ☐ Air ☐ Soil ☐ Other Cool 1 6/14
115701	✓ 10210B	6/15/94	0948	✓ MW 10210B	☒ Water ☐ Air ☐ Soil ☐ Other Cool 1 6/14

CUSTODY OF SAMPLES

NAME AFFILIATION DATE TIME

- 1a. Sample container prepared by
- b. Sample container prepared by
2. Received by
3. Received by
4. Sample Collected by
5. Sample Received by
6. Sample Received by
7. Sample Received by
8. Sample Received by
9. Sample Received by
10. Sample Received at Lab by
11. Sample Accessioned by

F-Chem			
Ronald Rawn	WCCFA	5/15/94	1430
Maurice Mon	NYS DEC	5/25/94	1500
Maurice Mon	NYS DEC	6/8/94	0700
Maurice Mon	NYS DEC	6/15/94	0700
Maurice Mon	NYS DEC	6/22/94	1030
Maurice Mon	NYS DEC	7/13/94	1520
Maurice Mon	NYS DEC	7/14/94	0900

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SAMPLE ID (Lab Use Only)	FIELD REF. #	COLL. DATE	COLL. TIME	COLLECTION POINT	SAMPLE TYPE
040988	FBWK4	6/8/94	0750	① River TAPAU FBWK4	☒ Water ☐ Air ☐ Soil ☐ Other cooler 1 6/9
M. Moore Recd 040984 040989	—	—	—	DNU	☐ Water ☐ Air ☐ Soil ☐ Other Box 7/14
X					☐ Water ☐ Air ☐ Soil ☐ Other
LOT 2118013 RP S13.A ✓		TB		TRIP BLANK WK4	☒ Water ☐ Air ☐ Soil ☐ Other cooler 3 6/9
RP S13.B ✓		TB		WK4	☒ Water ☐ Air ☐ Soil ☐ Other cooler 3 6/9
RP S13.C ✓		TBWK5		WK5	☐ Water ☐ Air ☐ Soil ☐ Other cooler 1 6/14
RP S13.D ✓		TB		WK5	☐ Water ☐ Air ☐ Soil ☐ Other cooler 1 6/14

CUSTODY OF SAMPLES

	NAME	AFFILIATION	DATE	TIME
1a. Sample container prepared by	I Chen			
b. Sample container prepared by	James P. Moore	WVLR	5/13/94	1630
2. Received by	James P. Moore	WVLR	5/18/94	1400
3. Received by	James P. Moore	WVLR	6/8/94	0700
4. Sample Collected by	James P. Moore	WVLR	6/22/94	1030
5. Sample Received by	James P. Moore	WVLR	7/14/94	0900
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Received at Lab by				
11. Sample Accessioned by				

NEW YORK STATE DEPARTMENT OF HEALTH
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Albany, NY 12201-0509

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SAMPLE ID (Lab Use Only)	FIELD REF #	COLL. DATE	COLL. TIME	COLLECTION POINT	SAMPLE TYPE
232 151333	✓ 10210A	7/13/94	1520	✓ MW 10210A	☒ Water ☐ Air ☐ Soil ☐ Other Cool 7/14
151334	✓ 10210B	6/15/94	1005	✓ MW 10210B	☒ Water ☐ Air ☐ Soil ☐ Other Cool 6/16
151335		X NOT IN BOX	5/25/94	M. Moore	☒ Water ☐ Air ☐ Soil ☐ Other
151336	✓ 10225A	6/22/94	1150	✓ MW 10225A	☒ Water ☐ Air ☐ Soil ☐ Other Cool 6/23
151337	✓ 10225B	6/22/94	1130	✓ MW 10225B	☒ Water ☐ Air ☐ Soil ☐ Other Cool 6/23
151338	✓ 10225C	6/22/94	1115	✓ MW 10225C	☒ Water ☐ Air ☐ Soil ☐ Other Cool 2 6/23
151351	✓ 10135	6/22/94	1305	✓ MW 10135 HOT	☒ Water ☐ Air ☐ Soil ☐ Other Cool 2 6/23
151352	✓	—		DNU	☐ Water ☐ Air ☐ Soil ☐ Other Box 7/14

CUSTODY OF SAMPLES

NAME AFFILIATION DATE TIME

- 1a. Sample container prepared by
- b. Sample container prepared by
2. Received by
3. Received by
4. Sample Collected by
5. Sample Received by
6. Sample Received by
7. Sample Received by
8. Sample Received by
9. Sample Received by
10. Sample Received at Lab by
11. Sample Accessioned by

I-Chem			
Russell W. Perna	WCCRL	5/18/94	1430
James M. Moore	NYSDCL	5/25/94	1500
James M. Moore	NYSDCL	6/15/94	0900
James M. Moore	NYSDCL	6/22/94	1030
James M. Moore	NYSDCL	7/14/94	0900

NEW YORK STATE DEPARTMENT OF HEALTH
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Albany, NY 12201-0509

CHAIN OF CUSTODY RECORD

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SAMPLE ID (Lab Use Only)	FIELD REF #	COLL. DATE	COLL. TIME	COLLECTION POINT	SAMPLE TYPE
IL 025057	✓ 10210A	7/13/94	1515	✓ MW 10210 A	☒ Water ☐ Air ☐ Soil ☐ Other Cool 7/14
025662	✓ 10210B	6/15/94	1000	✓ MW 10210 B	☒ Water ☐ Air ☐ Soil ☐ Other Cool 6/18
025777	✓ 10225A	6/22/94	11:45	MW 10225 A	☐ Water ☐ Air ☐ Soil ☐ Other Cool 6/27
025778	✓ 10225B	6/22/94	1125	MW 10225 B	☐ Water ☐ Air ☐ Soil ☐ Other Cool 6/27
025779	✓ 10225C	6/22/94	1110	MW 10225 C	☒ Water ☐ Air ☐ Soil ☐ Other Cool 2 6/23
025780	✓ 10135	6/22/94	1300	MW 10135 HOT	☒ Water ☐ Air ☐ Soil ☐ Other Cool 2 6/23
025781	✓	—	—	DNU	☒ Water ☐ Air ☐ Soil ☐ Other Cool 7/14
025782	✓	—	—	DNU	☐ Water ☐ Air ☐ Soil ☒ Other Cool 7/14

CUSTODY OF SAMPLES

NAME AFFILIATION DATE TIME

- 1a. Sample container prepared by
- b. Sample container prepared by
2. Received by
3. Received by
4. Sample Collected by
5. Sample Received by
6. Sample Received by
7. Sample Received by
8. Sample Received by
9. Sample Received by
10. Sample Received at Lab by
11. Sample Accessioned by

I-Chem			
Samuel Paine	WCCM	5/15/94	1430
Stephen Murr	NYSDEC	5/25/94	1500
James Murr	NYSDEC	6/15/94	0900
James Murr	NYSDEC	6/22/94	1030
James Murr	NYSDEC	7/13/94	1500
James Murr	NYSDEC	7/14/94	0900

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☐ Bill Credit Card

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Expiration Date

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☐ FEDEX PAK * 52

53

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13

☐ FEDEX BOX 53

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☐ FEDEX TUBE 54

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☐ FEDEX TUBE 54

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(CSS not available for Dangerous Goods Shipments)

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10 ☐

11 ☐

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We do not assume liability for loss of or damage to your goods if the loss or damage is caused by the negligence of the shipper or the consignee. If you ship goods by Federal Express, you agree to the terms and conditions of the current Service Guide.

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Our liability for loss of or damage to your goods is limited to the actual cash value of the goods at the time of loss or damage. We do not assume liability for loss of or damage to your goods if the loss or damage is caused by the negligence of the shipper or the consignee. If you ship goods by Federal Express, you agree to the terms and conditions of the current Service Guide.

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QUALIFIED ACCEPTANCE

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To (Recipient's Name) Please Print RON PAUSE		Recipient's Phone Number (Very Important) (518) 473-0323	
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5 ☐ Cash/Check Acct./Credit Card No.		City State ZIP Required	
SERVICES (Check only one box)		DELIVERY AND SPECIAL HANDLING (Check services required)	
Priority Overnight (Delivery by next business morning) 11 ☒ OTHER PACKAGING 16 ☐ FEDEX LETTER* 12 ☐ FEDEX PAK* 13 ☐ FEDEX BOX 14 ☐ FEDEX TUBE Economy Two-Day (Delivery by second business day) 30 ☐ ECONOMY* *Economy Letter Rate not available. Minimum charge: One pound Economy rate.		Standard Overnight (Delivery by next business afternoon. No Saturday delivery) 51 ☐ OTHER PACKAGING 56 ☐ FEDEX LETTER* 52 ☐ FEDEX PAK* 53 ☐ FEDEX BOX 54 ☐ FEDEX TUBE Government Overnight (Delivery for authorized users only) 46 ☐ GOVT LETTER 41 ☐ GOVT PACKAGE Freight Service (for packages over 150 lbs.) 70 ☐ OVERNIGHT FREIGHT** (Confirmed reservation required) 80 ☐ TWO-DAY FREIGHT** **Declared Value Limit \$500. **Call for delivery schedule.	
1 ☐ HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section 4) 2 ☒ DELIVER WEEKDAY Saturday Service 31 ☐ HOLD AT FEDEX LOCATION SATURDAY (Fill in Section 4) 3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations) 9 ☐ SATURDAY PICK-UP (Extra charge) Special Handling 4 ☐ DANGEROUS GOODS (Extra charge) 6 ☐ DRY ICE Dangerous Goods Shipper's Declaration not required Dry Ice, UN 1845, _____ X _____ kg. 904 III _____ DESCRIPTION _____ 12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)		PACKAGES 1 35# WEIGHT In Pounds Only YOUR DECLARED VALUE (See right) Total Total Total 1 35# DIM SHIPMENT (Chargeable Weight) _____ lbs. L x W x H Received At 1 ☐ Regular Stop 3 ☐ Drop Box 4 ☐ B.S.C. 5 ☐ Station 2 ☒ On-Call Stop	
SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details. We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is \$500. In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information. Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom.			
Federal Express Use Base Charges Declared Value Charge Other 1 Other 2 Total Charges REVISION DATE 12/92 PART #137205 GBFE FORMAT #158 158 © 1992-93 FEDEX PRINTED IN U.S.A.			

SENDER'S COPY
DROP OFF YOUR PACKAGE AND SAVE

TERMS AND CONDITIONS

DEFINITIONS

On this Airbill, we, our and us refer to Federal Express Corporation, its employees and agents. You and your refer to the sender, its employees and agents.

AGREEMENT TO TERMS

By giving us your package to deliver, you agree to all the terms of this Airbill and in our current Service Guide, which is available upon request. If there is a conflict between the current Service Guide and this Airbill, the Service Guide will control. No one is authorized to alter or modify the terms of our Agreement.

RESPONSIBILITY FOR PACKAGING AND COMPLETING AIRBILL

You are responsible for adequately packaging your goods and for properly filling out this Airbill. Omission of the number of packages and weight per package from this Airbill will result in a billing based on our best estimate of the number of packages received from you and an estimated "default" weight per package, as determined and periodically adjusted by us.

AIR TRANSPORTATION TAX INCLUDED

Our basic rate includes a federal tax required by Internal Revenue Code Section 4271 on the air transportation portion of this service.

LIMITATIONS ON OUR LIABILITY AND LIABILITIES NOT ASSUMED

Our liability for loss or damage to your package is limited to your actual damages or \$100, whichever is less, unless you pay for and declare a higher authorized value. We do not provide cargo liability insurance, but you may pay an additional charge for each additional \$100 of declared value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your package.

In any event we will not be liable for any damages, whether direct, incidental, special or consequential in excess of the declared value of a shipment, whether or not Federal Express had knowledge that such damages might be incurred including, but not limited to, loss of income or profits.

We won't be liable for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking or addressing, or for the acts or omissions of the recipient or anyone else with an interest in the package. Also, we won't be liable, if you or the recipient violates any of the terms of our Agreement. We won't be liable for loss of or damage to shipments of prohibited items.

We won't be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts or omissions of public authorities (including customs and quarantine officials) with actual or apparent authority.

DECLARED VALUE LIMITS

The highest declared value we allow for FedEx Letter and FedEx Pak shipments is \$500. For other shipments, the highest declared value we allow is \$25,000 unless your package contains items of "extraordinary value," in which case the highest declared value we allow is \$500. Items of "extraordinary value" include artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our current Service Guide.

If you send more than one package on this Airbill, you may fill in the total declared value for all packages, not to exceed the \$100, \$500 or \$25,000 per package limit described above. (Example: 5 packages can have a total declared value of up to \$125,000.)

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FILING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING. You must notify us of your claim within strict time limits. See current Service Guide.

We'll consider your claim filed if you call and notify our Customer Service Department at 800-238-5355 and notify us in writing as soon as possible.

Within 90 days after you notify us of your claim, you must send us all relevant information about it. We are not obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, make the original shipping cartons and packing available for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. airbill for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cost we may incur in either returning your package to you or warehousing it pending disposition.

RIGHT OF REJECTION

We reserve the right to reject a shipment at any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or is in violation of any rules contained in this Airbill or our current Service Guide.

MONEY-BACK GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.



USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

1544447306

1544447306

SENDER'S COPY

SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER 1172-1691-8		Date 6/16/94							
From (Your Name) Please Print MAURICE F. Moore		Your Phone Number (Very Important) (716) 283-0112	To (Recipient's Name) Please Print Ron Pause	Recipient's Phone Number (Very Important) (518) 473-0323					
Company NYS Dept. Envtl. Cons. / Remediation		Department/Floor No.	Company NYS DOH WCLDR	Department/Floor No. Rm 519					
Street Address 50 WOLF Rd Ktn. 208		Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.) EMPLOY STATE PLAZA LEASING DOCK J							
City ALBANY		State NY	ZIP Required 12233	City ALBANY	State NY	ZIP Required 12201			
YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.) #9-32-020					IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here Street Address City State ZIP Required				
PAYMENT 1 ☒ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No. 3 ☐ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card 5 ☐ Cash/Check ☐ A/c/Credit Card No. Exp. Date 1					City State ZIP Required				
4 SERVICES (Check only one box) Priority Overnight (Delivery by next business morning) 11 ☒ OTHER PACKAGING 16 ☐ FEDEX LETTER* 12 ☐ FEDEX PAK* 13 ☐ FEDEX BOX 14 ☐ FEDEX TUBE Economy Two-Day (Delivery by second business day) 30 ☐ ECONOMY* *Economy Letter Rate not available. Minimum charge: One pound Economy rate.		5 DELIVERY AND SPECIAL HANDLING (Check services required) Weekday Service 1 ☐ HOLD AT FEDEX LOCATION WEEKDAY (Delivery by next business afternoon. No Saturday delivery) 2 ☒ DELIVER WEEKDAY Saturday Service 31 ☐ HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H) 3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations) 9 ☐ SATURDAY PICK-UP (Extra charge) Special Handling 4 ☐ DANGEROUS GOODS (Extra charge) 6 ☐ DRY ICE Dangerous Goods Shipper's Declaration not required Dry Ice: 9, UN 1845, _____ X _____ kg. 904 III DESCRIPTION 12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)		6 PACKAGES WEIGHT In Pounds Only YOUR DECLARED VALUE (See right) 1 4/8 Total 1 4/8 DIM SHIPMENT (Chargeable Weight) L x W x H Received At 1 ☐ Regular Stop 3 ☐ Drop Box 4 ☐ B.S.C. 5 ☐ Station 7 Release Signature: _____		SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details. We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is \$500. In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information. Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom.		Federal Express Use Base Charges Declared Value Charge Other 1 Other 2 Total Charges REVISION DATE 12/92 PART #137205 GBFE FORMAT #158 158 © 1992-93 FEDEX PRINTED IN U.S.A.	

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MONEY-BACK GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.

Request for Analysis

For Laboratory Use Only

Lab Accession Number

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern

Program Code

6503

Program Name

STATE SUPERFUND ANAL. SERV.

LOVE CANAL LONG TERM MON.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

216FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well # 10210A

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

9.4

07

13

1.5

20

Composite Start

9.4

07

13

1.5

1.0

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

Bedrock groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)

☐ Turbidity (C)

☐ Natural Disaster (E)

☐ New Equip. or Proc. (G)

☐ Interruption in Chlorination (I)

☐ Taste/Odor (B)

☐ Color (D)

☐ Fishkill (F)

☐ Equip. Failure (H)

☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO

☐

RO

☐

LPHE

☐

Special
Mail
Code

CM

Reason

To (No. of copies)

FED

☐

INFO

☐

LAB

☐

Submitted by

M. Moore

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

FOR LABORATORY USE ONLY — Priority Level

Purpose

Health Emergency

Yes ☐

No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other

Organic Chemistry

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan.

☐ Ketones

☐ CLP

☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langlier Index

☐ Nitrate

☐ Trace Metals

☐ Other

☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis

☐ Other

Fuels

☐ Sulfur

☐ BTU

☐ Other

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL SERV.

LOVE CANAL LONG TERM MON. Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

139 ft

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 10210B

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

06

15

10

10

Mil hrs. 00-23

Minute

Composite Start

94

06

15

09

45

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

Bedrock Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample☐ Add Text: 001.TXTDP: Y ☐ N ☐

Report Results

CO

RO

LPHE

To (No. of copies)

FED

INFO

LAB

Submitted by

M. MOORE

Phone Number

(714) 283-0112

Fax Number

(714) 283-0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

MS/MSD

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency

Yes ☐No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water☐ Unchlorinated Potable Water☐ Bottled Water☐ Nonpotable Surface Water☐ Chlorinated Waste Water☐ Other _____

Organic Chemistry

☐ Insecticides☐ Herbicides☐ PCBs☐ Purgeables-502.2☐ Nitrogen/Phosphorus Pesticides☐ Petroleum Products☐ Priority Pollutants-S.V.☐ Dioxin/Furan☐ Ketones☐ CLP☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I☐ Potable Water, OCSS-I +
Secondary☐ Langlier Index☐ Nitrate☐ Trace Metals _____☐ Other _____☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis☐ Other _____

Fuels

☐ Sulfur☐ BTU☐ Other _____

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL. SERV.
LOVE CANAL LONG TERM MON.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

0 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Field Blank Week 5

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

06

15

15

33

Year

Month

Day

Mil hrs. 00-23

Minute

Composite Start

94

06

15

15

30

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

Description

Field Blank

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☐ Other (J)

☒ Chain of custody form accompanying sample☐ Add Text: 001.TXTDP: Y ☐ N ☐

Report Results

CO

☐

RO

☐

LPHE

☐

To (No. of copies)

FED

☐

INFO

☐

LAB

☐

Submitted by

M Moore

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

Special
Mail
Code

CM

Reason

Additional Information Regarding This Sample

UVA's only

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency

Yes ☐No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water☐ Unchlorinated Potable Water☐ Bottled Water☐ Nonpotable Surface Water☐ Chlorinated Waste Water☐ Other _____

Organic Chemistry

☐ Insecticides☐ Herbicides☐ PCBs☐ Purgeables-502.2☐ Nitrogen/Phosphorus Pesticides☐ Petroleum Products☐ Priority Pollutants-S.V.☐ Dioxin/Furan☐ Ketones☐ CLP☒ OtherLOVE CANAL
ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I☐ Potable Water, OCSS-I +
Secondary☐ Langelier Index☐ Nitrate☐ Trace Metals _____☐ Other _____☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis☐ Other _____

Fuels

☐ Sulfur☐ BTU☐ Other _____

NARRATIVE - MW 10210 A - 1994

This brief will begin with the initial starting date of 6/13/94 and will include actual notes from that date.

The well purging started at 10:00 am 6/13/94. A Grundfos Redi-flo2 had been left insitu from the time of the Grundfos demonstration, a period of approx. 9 months. This pump is a variable speed, electric powered, centrifugal, down hole pump. 6/13/94 " This pump is very good, the rate of purge is infinitely adjustable- you can match recharge rates for maximum recharge. -very easy to set up - 216hz initial start up. @ 175 hz initial continuous flow. I,m just trying to get maximum volume for sampling. I could take it much faster. Continuous laminar flow is nice after 7 gal. I went to 197 hz to keep the flow rate steady, 206 hz @ 8 gal., 250 hz @ 10 gal. - Problem @ 15 gal., no current signal @ BT1 checked gen. set..

Generator kept tripping, checked the initial wiring found a loose wire on the circuit breaker, it was shorting and fried the circuit breaker - replaced it. In the interim a generator was rented from Mead supply, connected it to the Grundfos but it would only pump up to about 100 hz. before it would give a no current signal. It is suspected that this generator was too small. After the big generator was returned to service it was tried again, but this too was unsuccessful. A digital vom was getting a +/- 4 volt swing from the outlet. A call to the Grundfos people and they recommended that a Honda generator be tried due to the fact that they have internal voltage regulators. Region 9 operations provided a XB 5000 it had a volt swing +/- 0.1 volt and had ample amount of power. The Grundfos was connected with no success. The pump was pulled from the hole and the pump and the controller were sent to Grundfos.

On 7/12/94 a tried and true method was used to purge the well this being the Geoguard and hand bailing. The Geoguard with it's dedicated tubing was used to pull the first 20 + gallons until the flow rate slowed to where it wasn't acceptable. At this time hand bailing removed the remainder. The hand bailing was accomplished by attaching a stainless steel bailer to string and lowering it to the bottom of the well the sting was cut and this end was connected to a hose reel placed over the hole, this allowed the next 20 gallons to be removed with relative ease, the total volume removed was 42 gallons. The well volume was 33.8 gallons. The well was allowed to recover until 3:00 pm 7/14 at this time it was sampled.

The same method as above was used for sampling.. The stainless steel bailer is a must in this situation due to its weight and the given depth of the well. If there were an instance of cross contamination it should be confirmed by using a crew of people and only bailing the well to purge. A bailer rinse should then be utilized to eliminate or implicate the bailer as the cause of the contamination.

It is very difficult to get the purge volume from this well given its depth. Alternative methods should continue to be

investigated. To date the two methods that do work are the hand bailing, which is labor intensive, or the method of packing the well at a given depth and take the three volumes at this depth. Hand bailing will dry this well before three volumes due to the slow rate of recovery. Packing the well allows less volume but it is at a depth that the slow pumping rate will allow recovery of the well to this smaller volume.

James M. Mow
7/14/94

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000033

EPA SAMPLE NO.

FB_WK5

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941524

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0617G

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: not dec.

Date Analyzed: 06/17/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. . COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg). UG/L Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	0.3	BJ
67-64-1-----	Acetone	3	J
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	0.3	J
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	1	J
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	0.1	J
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	2	J
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000035

EPA SAMPLE NO.

8115HB

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941527

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0620E

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: not dec.

Date Analyzed: 06/20/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg). UG/L Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	0.5	BJ
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	0.9	J
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	0.7	J
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	0.8	J
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	1	J
108-90-7	-----Chlorobenzene	1	J
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000036

EPA SAMPLE NO.

8115HB

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941527

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0620E

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: not dec.

Date Analyzed: 06/20/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1066406	Silanol, trimethyl-	2.46	15	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000037

EPA SAMPLE NO.

8115TB

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941526

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0617H

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: not dec.

Date Analyzed: 06/18/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg). UG/L

Q

CAS NO.

COMPOUND

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	0.3	BJ
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

New York State Department of Health
Wadsworth Center for Laboratories and Research
Division of Environmental Sciences

SDG NARRATIVE

Case Number: LC994
Sample Delivery Group: 0623
LOAC Batch Numbers: 8118 to 8120
Contract Number: None
Sample Numbers: 941595 to 941603

VOLATILE COMPOUNDS

Quality control objectives were met except that recovery of the bromofluorobenzene surrogate in the matrix spike was 80% versus a low limit 88%.

SEMIVOLATILE COMPOUNDS

Samples were extracted and analyzed within the required holding times.

Recoveries of all surrogate and matrix spikes were within acceptance limits except for 4-nitrophenol which was not recovered in any spike. In-house studies indicate that a combination of continuous liquid-liquid extraction and gel-permeation chromatography is responsible for this loss.

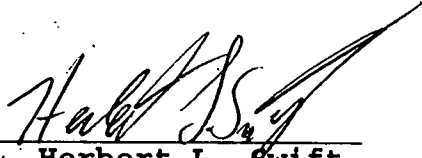
Blanks and all samples from this batch contained only relatively low levels of contaminants reportable in the TIC category except that the blank contained a high level of a chlorophenol which was also present at high levels in sample 10135. The possibility of carryover during GC/MS was investigated by examining the matrix-spike-blank run which intervened between sample 10135 and the method blank. The quantity present in the intervening run was negligible so the manner in which the method blank came to contain this compound and no other substances present in high concentration in sample 10135 remains unexplained. Sample 10225A contained several sulfur compounds and sample 10135 contained high levels of benzyl alcohol, benzoic acid, chlorobenzoic acid and chlorinated toluenes.

PESTICIDES AND PCBs

Recovery of the surrogate, tetrachloro-m-xylene (TCMX) from the undiluted extract of EPA sample-number 10135 (WCLR accession number 941600) was 0%. This anomaly is ascribable to the high level of interferant ECD-peaks corresponding to the TCMX retention time. Only the four HCCH isomers and 4,4'-DDE met retention-time window criteria on both GC columns. All four HCCH isomers were confirmed by GC/MS. The concentration of 4,4'-DDE in the extract was less than nominal GC/MS detection limits and was, therefore, not detected by the confirmatory procedure. The 4,4'-DDE concentration was also below the CRQL.

CERTIFICATION

I certify that, except as noted above, this data package is in compliance with the terms and conditions of any pertinent contract both technically and with respect to completeness. Release of the data contained in this hardcopy data package has been authorized by the Quality-Assurance Officer as verified by the following signature.

Signature: 

Herbert L. Swift
Quality Assurance Officer

Date: 8/23/94

New York State Department of Health
Wadsworth Center for Laboratories and Research
Division of Environmental Sciences

SDG NARRATIVE

Case Number: LC994
Sample Delivery Group: 0623
LOAC Batch Numbers: 8118 to 8120
Contract Number: None
Sample Numbers: 941595 to 941603

VOLATILE COMPOUNDS

Quality control objectives were met except that recovery of the bromofluorobenzene surrogate in the matrix spike was 80% versus a low limit 88%.

SEMIVOLATILE COMPOUNDS

Samples were extracted and analyzed within the required holding times.

Recoveries of all surrogate and matrix spikes were within acceptance limits except for 4-nitrophenol which was not recovered in any spike. In-house studies indicate that a combination of continuous liquid-liquid extraction and gel-permeation chromatography is responsible for this loss.

Blanks and all samples from this batch contained only relatively low levels of contaminants reportable in the TIC category except that the blank contained a high level of a chlorophenol which was also present at high levels in sample 10135. The possibility of carryover during GC/MS was investigated by examining the matrix-spike-blank run which intervened between sample 10135 and the method blank. The quantity present in the intervening run was negligible so the manner in which the method blank came to contain this compound and no other substances present in high concentration in sample 10135 remains unexplained. Sample 10225A contained several sulfur compounds and sample 10135 contained high levels of benzyl alcohol, benzoic acid, chlorobenzoic acid and chlorinated toluenes.

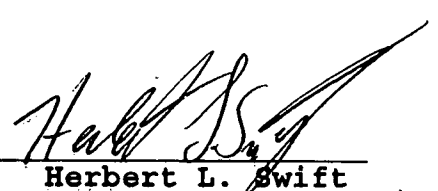
PESTICIDES AND PCBs

Recovery of the surrogate, tetrachloro-m-xylene (TCMX) from the undiluted extract of EPA sample-number 10135 (WCLR accession number 941600) was 0%. This anomaly is ascribable to the high level of interferant ECD-peaks corresponding to the TCMX retention time. Only the four HCCH isomers and 4,4'-DDE met retention-time window criteria on both GC columns. All four HCCH isomers were confirmed by GC/MS. The concentration of 4,4'-DDE in the extract was less than nominal GC/MS detection limits and was, therefore, not detected by the confirmatory procedure. The 4,4'-DDE concentration was also below the CRQL.

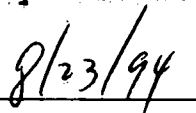
CERTIFICATION

I certify that, except as noted above, this data package is in compliance with the terms and conditions of any pertinent contract both technically and with respect to completeness. Release of the data contained in this hardcopy data package has been authorized by the Quality-Assurance Officer as verified by the following signature.

Signature: _____


Herbert L. Swift
Quality Assurance Officer

Date: _____



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10225A

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941595

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0628I

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: not dec.

Date Analyzed: 06/28/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	2	J
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.9	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	0.5	J
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	1	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10225A

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941595

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0628I

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: not dec.

Date Analyzed: 06/28/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 74931	Methanethiol	0.91	330	JN
2. 75183	Methane, thiobis-	1.42	380	JN
3. 624895	Ethane, (methylthio)-	3.11	29	JN
4. 624920	Disulfide, dimethyl	10.08	8	JN
5. 10544500	Sulfur, mol. (S8)	32.61	38	JN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10225A

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941595

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0722E

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/28/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/22/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	0.2	J
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	0.8	BJ
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	0.2	BJ
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	0.3	J
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	0.3	BJ
91-20-3-----	Naphthalene	0.7	J
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	0.1	J
91-57-6-----	2-Methylnaphthalene	0.08	BJ
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10225A

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941595

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0722E

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/28/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/22/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	0.4	BJ
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	0.4	J
85-01-8-----	Phenanthrene	0.07	J
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	0.3	BJ
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	0.04	BJ
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	0.2	BJ
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenz(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10225A

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941595

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0722E

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/28/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/22/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 13

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67710	Methane, sulfonylbis-	3.05	2	JN
2. 632114	2-Hexanone, 3-hydroxy-3,5-di	3.34	5	BJN
3. 3658808	Trisulfide, dimethyl	3.98	42	JN
4. 95636	Benzene, 1,2,4-trimethyl-	4.32	2	BJN
5. 124072	Octanoic acid	6.12	3	JN
6. 0	Unknown C10H20	6.41	2	BJN
7. 5756241	DIMETHYL TETRASULPHIDE	6.62	77	JN
8. 112050	Nonanoic acid	6.91	2	JN
9. 0	Unknown hydrocarbon	8.85	2	BJN
10. 143077	Dodecanoic acid	9.60	2	JN
11. 57103	Hexadecanoic acid	13.26	2	JN
12. 10544500	Sulfur, mol. (S8)	14.35	2	JN
13. 4161404	1,4-Dibutoxybutane-related	14.43	3	JN

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10225A

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LC994

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941595

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 06/23/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 06/27/94

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/11/94

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.10	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10225B

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941596

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0628J

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: not dec.

Date Analyzed: 06/28/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	3	BJ
75-15-0	Carbon Disulfide	0.4	J
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.5	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	0.7	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10225B

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941596

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0722F

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/28/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/22/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N PH: 6.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	0.2	BJ
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	0.2	BJ
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	0.4	BJ
91-20-3	Naphthalene	0.1	J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	0.06	BJ
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10225B

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941596

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0722F

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/28/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/22/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	0.6	BJ
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	0.2	BJ
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	0.07	BJ
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenz(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10225B

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941596

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0722F

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/28/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/22/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 632114	2-Hexanone, 3-hydroxy-3,5-di	3.34	8	BJN
2. 611143	Benzene, 1-ethyl-2-methyl-	3.90	3	BJN
3. 95636	Benzene, 1,2,4-trimethyl-	4.32	2	BJN
4. 20364	4H-Cyclopenta[def]phenanthre	7.79	3	BJN
5. 0	2,4,6-Tribromo-phenol deriva	12.90	3	BJN

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10225B

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LC994

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941596

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 06/23/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 06/27/94

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/11/94

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10225C

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941597

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0628K

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: not dec.

Date Analyzed: 06/28/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	0.3	BJ
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	1	J
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10225C

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941597

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0722G

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/28/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/22/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	0.1	BJ
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	0.2	BJ
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	2	BJ
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10225C

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941597

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0722G

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/28/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/22/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	0.3	BJ
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	0.1	BJ
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	0.04	BJ
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	0.1	BJ
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenz(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10225C

Lab Name: WCLR Contract: _____

Lab Code: WCLR Case No.: LC994_ SAS No.: _____ SDG No.: 0623

Matrix: (soil/water) WATER Lab Sample ID: 941597

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 3_0722G

Level: (low/med) LOW Date Received: 06/23/94

% Moisture: _____ decanted: (Y/N) Date Extracted: 06/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/22/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 6321148	2-Hexanone, 3-hydroxy-3,5-di	3.33	6	JN
2. 159233	2,2'-Bifuran, octahydro-	3.50	2	BJN
3. 611143	Benzene, 1-ethyl-2-methyl-	3.89	3	BJN
4. 95636	Benzene, 1,2,4-trimethyl-	4.32	2	BJN
5. 20364	4H-Cyclopenta[def]phenanthre	7.79	2	BJN
6. 0	Benzoic acid, 1-methyl-2-(pr	9.73	2	BJN
7. 110270	Isopropyl myristate	12.07	3	BJN
8. 0	2,4,6-Tribromo-phenol deriva	12.90	6	BJN
9. 416140	1,4-Dibutoxybutane-related	15.17	7	JN
10. 1040379	Benzene, bis-(phenoxymethyl)	17.93	4	JN

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10225C

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LC994

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941597

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 06/23/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 06/27/94

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/11/94

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

319-84-6-----	alpha-BHC	0.023	J
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.10	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.50	U
72-43-5-----	Methoxychlor	0.10	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.050	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	5.0	U
8001-35-2-----	Toxaphene	1.0	U
12674-11-2-----	Aroclor-1016	2.0	U
11104-28-2-----	Aroclor-1221	1.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10135

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941600

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0624F

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: not dec.

Date Analyzed: 06/24/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	61	
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	8	BJ
67-64-1	-----Acetone	100	B
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	3.	J
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	650	E
67-66-3	-----Chloroform	120	
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	14	
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	140	B
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	6000	E
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	32	B
79-34-5	-----1,1,2,2-Tetrachloroethane	51	B
108-88-3	-----Toluene	21500	BE
108-90-7	-----Chlorobenzene	2900	BE
100-41-4	-----Ethylbenzene	12	B
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	B

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10135

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941600

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0624F

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: not dec.

Date Analyzed: 06/24/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 95498	Benzene, 1-chloro-2-methyl-	16.59	10000	JN
2. 95498	Benzene, 1-chloro-2-methyl-	16.74	10000	JN
3. 535773	Benzene, 1-methyl-3-(1-methy	18.02	72	JN
4. 4695629	Bicyclo[2.2.1]heptan-2-one,	19.21	83	JN
5. 32768540	2,3-Dichlorotoluene	19.87	4600	JN
6. 25186474	3,5-Dichlorotoluene	20.33	1300	JN
7. 87616	Benzene, 1,2,3-trichloro-3-m	20.83	480	JN
8. 2077465	Benzene, 1,2,4-trichloro-3-m	22.85	120	JN
9. 2077465	Benzene, 1,2,4-trichloro-3-m	23.03	110	JN
10. 634662	Benzene, 1,2,3,4-tetrachloro	24.18	45	JN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10135

Lab Name: WCLR Contract:
Lab Code: WCLR Case No.: LC994_ SAS No.: SDG No.: 0623
Matrix: (soil/water) WATER Lab Sample ID: 941600
Sample wt/vol: 1000 (g/mL) ML Lab File ID: 3_0722K
Level: (low/med) LOW Date Received: 06/23/94
% Moisture: decanted: (Y/N) Date Extracted: 06/28/94
Concentrated Extract Volume: 8000 (uL) Date Analyzed: 07/22/94
Injection Volume: 2.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 6.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

108-95-2	Phenol	91	
111-44-4	bis(2-Chloroethyl)ether	80	U
95-57-8	2-Chlorophenol	20	J
541-73-1	1,3-Dichlorobenzene	4	J
106-46-7	1,4-Dichlorobenzene	91	
95-50-1	1,2-Dichlorobenzene	34	BJ
95-48-7	2-Methylphenol	46	J
108-60-1	2,2'-oxybis(1-Chloropropane)	80	U
106-44-5	4-Methylphenol	64	BJ
621-64-7	N-Nitroso-di-n-propylamine	80	U
67-72-1	Hexachloroethane	80	U
98-95-3	Nitrobenzene	80	U
78-59-1	Isophorone	80	U
88-75-5	2-Nitrophenol	80	U
105-67-9	2,4-Dimethylphenol	9	J
111-91-1	bis(2-Chloroethoxy)methane	80	U
120-83-2	2,4-Dichlorophenol	610	
120-82-1	1,2,4-Trichlorobenzene	87	B
91-20-3	Naphthalene	80	U
106-47-8	4-Chloroaniline	80	U
87-68-3	Hexachlorobutadiene	80	U
59-50-7	4-Chloro-3-methylphenol	31	J
91-57-6	2-Methylnaphthalene	80	U
77-47-4	Hexachlorocyclopentadiene	80	U
88-06-2	2,4,6-Trichlorophenol	8	J
95-95-4	2,4,5-Trichlorophenol	59	J
91-58-7	2-Chloronaphthalene	80	U
88-74-4	2-Nitroaniline	200	U
131-11-3	Dimethylphthalate	80	U
208-96-8	Acenaphthylene	80	U
606-20-2	2,6-Dinitrotoluene	80	U
99-09-2	3-Nitroaniline	200	U
83-32-9	Acenaphthene	80	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10135

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941600

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0722K

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/28/94

Concentrated Extract Volume: 8000 (uL)

Date Analyzed: 07/22/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

51-28-5	2,4-Dinitrophenol	200	U
100-02-7	4-Nitrophenol	200	U
132-64-9	Dibenzofuran	80	U
121-14-2	2,4-Dinitrotoluene	80	U
84-66-2	Diethylphthalate	1	BJ
7005-72-3	4-Chlorophenyl-phenylether	2	J
86-73-7	Fluorene	80	U
100-01-6	4-Nitroaniline	200	U
534-52-1	4,6-Dinitro-2-methylphenol	200	U
86-30-6	N-Nitrosodiphenylamine (1)	80	U
101-55-3	4-Bromophenyl-phenylether	80	U
118-74-1	Hexachlorobenzene	80	U
87-86-5	Pentachlorophenol	4	J
85-01-8	Phenanthrene	80	U
120-12-7	Anthracene	1	J
86-74-8	Carbazole	80	U
84-74-2	Di-n-butylphthalate	80	U
206-44-0	Fluoranthene	0.2	J
129-00-0	Pyrene	80	U
85-68-7	Butylbenzylphthalate	80	U
91-94-1	3,3'-Dichlorobenzidine	80	U
56-55-3	Benzo(a)anthracene	80	U
218-01-9	Chrysene	0.2	BJ
117-81-7	bis(2-Ethylhexyl)phthalate	2	BJ
117-84-0	Di-n-octylphthalate	80	U
205-99-2	Benzo(b)fluoranthene	80	U
207-08-9	Benzo(k)fluoranthene	80	U
50-32-8	Benzo(a)pyrene	80	U
193-39-5	Indeno(1,2,3-cd)pyrene	80	U
53-70-3	Dibenz(a,h)anthracene	80	U
191-24-2	Benzo(g,h,i)perylene	80	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10135

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941600

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0722K

Level: (low/med) LOW

Date Received: 06/23/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/28/94

Concentrated Extract Volume: 8000 (uL)

Date Analyzed: 07/22/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 19

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108930	Cyclohexanol	2.19	480	JN
2. 591231	Cyclohexanol, 3-methyl	3.62	110	JN
3. 95498	Benzene, 1-chloro-2-methyl-	3.76	2700	JN
4. 106434	Benzene, 1-chloro-4-methyl-	3.85	1600	JN
5. 32768540	2,3-Dichlorotoluene	5.96	470	JN
6. 106489	Phenol, 4-chloro-	6.34	1600	BJN
7. 17849386	Benzenemethanol, 2-chloro-	6.59	220	JN
8. ~~18636346~~ 5850	Benzoic acid	6.82	12000	JN
9. 74113	Benzoic acid, 4-chloro-	8.56	21000	JN
10. 118912	Benzoic acid, 2-chloro-	8.60	680	JN
11. 1004291	Unknown Hydrocarbon, B+71, MW	8.67	400	JN
12. 931566	Unknown Hydrocarbon, B+71, MW	9.32	240	JN
13. 0	Unknown Hydrocarbon, B+71	9.40	97	BJN
14.	Unknown Hydrocarbon, B+71	10.13	69	J
15.	Unknown Hydrocarbon, B+71	10.19	78	J
16.	Unknown Hydrocarbon, B+71	10.27	97	J
17. 0	1-Propanone, 1-phenyl-(relat	14.57	100	BJN
18. 0	Benzoic acid, 4-benzoyl-(rel	14.92	900	BJN
19. 295974	Phosphine oxide, diphenyl(ph	17.88	28	JN

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10135

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LC994

SAS No.:

SDG No.: 0623

Matrix: (soil/water) WATER

Lab Sample ID: 941600

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 06/23/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 06/27/94

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/11/94

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

319-84-6-----alpha-BHC	24	PCE
319-85-7-----beta-BHC	9.4	CE
319-86-8-----delta-BHC	7.5	CE
58-89-9-----gamma-BHC (Lindane)	11	CE
76-44-8-----Heptachlor	0.050	U
309-00-2-----Aldrin	0.050	U
1024-57-3-----Heptachlor epoxide	0.050	U
959-98-8-----Endosulfan I	0.050	U
60-57-1-----Dieldrin	0.10	U
72-55-9-----4,4'-DDE	0.071	JP
72-20-8-----Endrin	0.15	P
33213-65-9-----Endosulfan II	0.10	U
72-54-8-----4,4'-DDD	0.10	U
1031-07-8-----Endosulfan sulfate	0.10	U
50-29-3-----4,4'-DDT	0.10	U
72-43-5-----Methoxychlor	0.50	U
53494-70-5-----Endrin ketone	0.10	U
7421-93-4-----Endrin aldehyde	0.10	U
5103-71-9-----alpha-Chlordane	0.050	U
5103-74-2-----gamma-Chlordane	0.050	U
8001-35-2-----Toxaphene	5.0	U
12674-11-2-----Aroclor-1016	1.0	U
11104-28-2-----Aroclor-1221	2.0	U
11141-16-5-----Aroclor-1232	1.0	U
53469-21-9-----Aroclor-1242	1.0	U
12672-29-6-----Aroclor-1248	1.0	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U

MULTIPLE PACKAGE SERVICE

**IF YOU ARE
MAKING AN MPS
SHIPMENT, APPLY
THE SELF ADHESIVE
MPS COPY HERE**

TERMS AND CONDITIONS

DEFINITIONS

On this Airbill, we, our and us refer to Federal Express Corporation, its employees and agents. You and your refer to the sender, its employees and agents.

AGREEMENT TO TERMS

By giving us your package to deliver, you agree to all the terms on this Airbill and in our current Service Guide, which is available on request. If there is a conflict between the current Service Guide and this Airbill, the Service Guide will control. No one is authorized to alter or modify the terms of our Agreement.

RESPONSIBILITY FOR PACKAGING AND COMPLETING AIRBILL

You are responsible for adequately packaging your goods and for properly filling out this Airbill. Omission of the number of packages and weight per package from this Airbill will result in a billing based on our best estimate of the number of packages received from you and an estimated "default" weight per package, as determined and periodically adjusted by us.

AIR TRANSPORTATION TAX INCLUDED

Our basic rate includes a federal tax required by Internal Revenue Code Section 4271 on the air transportation portion of this service.

LIMITATIONS ON OUR LIABILITY AND LIABILITIES NOT ASSUMED

Our liability for loss or damage to your package is limited to your actual damages or \$100, whichever is less, unless you pay for and declare a higher authorized value. We do not provide cargo liability insurance, but you may pay an additional charge for each additional \$100 of declared value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your package.

In any event we will not be liable for any damages, whether direct, incidental, special or consequential in excess of the declared value of a shipment, whether or not Federal Express has knowledge that such damages might be incurred including, but not limited to, loss of income or profits.

We won't be liable for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking or addressing, or for the acts or omissions of the recipient or anyone else with an interest in the package. Also, we won't be liable, if you or the recipient violates any of the terms of our agreement. We won't be liable for loss of or damage to shipments of prohibited items.

We won't be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts or omissions of public authorities (including customs and quarantine officials) with actual or apparent authority.

DECLARED VALUE LIMITS

The highest declared value we allow for FedEx Letter and FedEx Pak shipments is \$500. For other shipments, the highest declared value we allow is \$50,000 unless your package contains items of "extraordinary value," in which case the highest declared value we allow is \$500. Items of "extraordinary value," include artwork,

jewelry, furs, precious metals, negotiable instruments, and other items listed in our current Service Guide.

If you send more than one package on this Airbill, you may fill in the total declared value for all packages, not to exceed the \$100, \$500 or \$50,000 per package limit described above. (Example: 5 packages can have a total declared value of up to \$250,000.)

If more than one package is shipped on this Airbill, our liability for loss or damage will be limited to the actual value of the package(s) lost or damaged (not to exceed the lesser of the total declared value or the per package limits described above). You have the responsibility of proving the actual loss or damage.

FILING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING. You must notify us of your claim within strict time limits. See current Service Guide.

We'll consider your claim filed if you call and notify our Customer Service Department at 800-238-5355 and notify us in writing as soon as possible.

Within 90 days after you notify us of your claim, you must send us all relevant information about it. We are not obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, make the original shipping cartons and packing available for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. Airbill for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cost we may incur in either returning your package to you or warehousing it pending disposition.

RIGHT OF REJECTION

We reserve the right to reject a shipment at any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or is in violation of any rules contained in this Airbill or our current Service Guide.

MONEY-BACK GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE SUPERFUND ANAL. SERV.

LOVE CANAL LONG TERM MON.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 04.00" N

Longitude

78° 51' 03.00" W

Z Direction, altitude or depth, include units

40 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring well # 10135

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

06

22

13

05

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP

4.0

Composite Start

94

06

22

12

55

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

OVERBURNED BROWNDRATE

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample☐ Add Text: 001.TXTDP: Y ☐ N ☐

Report Results

CO

☐

RO

☐

LPHE

☐Special
Mail
Code

CM

Reason

To (No. of copies)

FED

☐

INFO

☐

LAB

☐

Submitted by

M. M. UOAL

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

SUSPECT "HDT"

FOR LABORATORY USE ONLY — Priority Level:

Purpose:

Health Emergency

Yes ☐No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

- ☐ Chlorinated Potable Water
☐ Unchlorinated Potable Water
☐ Bottled Water
☐ Nonpotable Surface Water
☐ Chlorinated Waste Water
☐ Other

Organic Chemistry

- ☐ Insecticides
☐ Herbicides
☐ PCBs
☐ Purgeables-502.2
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants-S.V.
☐ Dioxin/Furan
☐ Ketones
☐ CLP
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Potable Water, OCSS-I + Secondary
☐ Langlier Index
☐ Nitrate
☐ Trace Metals
☐ Other
☐ Lead

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other
Fuels
☐ Sulfur
☐ BTU
☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern

Program Code

6503

Program Name

STATE SUPERFUND ANAL SERV.
LOVE CANAL LUNG TEAM
Mon.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

66 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well # 10225C

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

06

22

11

20

Year

Month

Day

Mil hrs. 00-23

Minute

Composite Start

94

06

22

10

50

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

40

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

Bedrock Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO

RO

LPHE

Special
Mail
Code

CM

Reason

To (No. of copies)

FED

INFO

LAB

Additional Information Regarding This Sample

Submitted by

M. Moore

Phone Number

(716) 283-0112

Fax Number

(716) 283-0111

FOR LABORATORY USE ONLY — Priority Level: Purpose:

Health Emergency

Yes ☐

No ☐

If Yes, give additional information above

Sanitary Bacteriology

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other

Organic Chemistry

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other

LOVE CANAL
ANALYTES

Inorganic Chemistry

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langelier Index

☐ Nitrate

☐ Trace Metals

☐ Other

☐ Lead

Nuclear Chemistry

☐ Scheduled Analysis

☐ Other

Fuels

☐ Sulfur

☐ BTU

☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern

Program Code

6503

Program Name

STATE SURFACIAL ANAL SERV.
LOVE CANAL LONG TERM
mon.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

Niagara

Town

Niagara Falls

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

139 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring well # 10225B

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

94

06

22

11

30

Year

Month

Day

Mil hrs. 00-23

Minute

Composite Start

94

06

22

11

20

Chlorine Residual (Field)

Sample Temp. ° C

24 CHLORRES

Free

O2 TEMP.

23 CHLORRES

Total

40

Type of Sample (Select from list)

250

Description

Bedrock Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)

☐ Turbidity (C)

☐ Natural Disaster (E)

☐ New Equip. or Proc. (G)

☐ Interruption in Chlorination (I)

☐ Taste/Odor (B)

☐ Color (D)

☐ Fishkill (F)

☐ Equip. Failure (H)

☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO

RO

LPHE

Special
Mail
Code

CM

Reason

To (No. of copies)

FED

INFO

LAB

Additional Information Regarding This Sample

Submitted by

M Moore

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

FOR LABORATORY USE ONLY - Priority Level: Purpose:

Health Emergency

Yes

No

If Yes, give additional information above

Sanitary Bacteriology

Organic Chemistry

Inorganic Chemistry

Nuclear Chemistry

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other

LOVE CANAL
ANALYTES

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langelier Index

☐ Nitrate

☐ Trace Metals

☐ Other

☐ Lead

☐ Scheduled Analysis

☐ Other

Fuels

☐ Sulfur

☐ BTU

☐ Other

Request for Analysis

For Laboratory Use Only

Lab Accession Number _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-23

Test Pattern _____

Program Code

6503

Program Name

STATE Super FUND ANAL. SERV.
LOVE CANAL LONG TERM
MON.

Source Number

Drainage Basin

01

New York Gazetteer No.

3102

County

NIAGARA

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

213 FT

LOCATION OR PROJECT: 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 10225 A

ASP or CLP ONLY:

Case

SDG

Customer #

TIME OF SAMPLING

Grab/Composite
Finish

04

06

22

11

50

Year

Month

Day

Mil hrs. 00-23

Minute

Composite Start

04

06

22

11

40

Chlorine Residual (Field)

Sample Temp. °C

24 CHLORRES

Free

O2 TEMP.

4°

23 CHLORRES

Total

Type of Sample (Select from list)

250

Description

Bedrock Groundwater.

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)

☐ Turbidity (C)

☐ Natural Disaster (E)

☐ New Equip. or Proc. (G)

☐ Interruption in Chlorination (I)

☐ Taste/Odor (B)

☐ Color (D)

☐ Fishkill (F)

☐ Equip. Failure (H)

☒ Other (J)

☒ Chain of custody form accompanying sample

☐ Add Text: 001.TXT

DP: Y ☐ N ☐

Report Results

CO

RO

LPHE

Special
Mail
Code

CM

Reason

To (No. of copies)

FED

INFO

LAB

Additional Information Regarding This Sample

Submitted by

M. Moore

Phone Number

(716) 283 0112

Fax Number

(716) 283 0111

FOR LABORATORY USE ONLY — Priority Level: _____ Purpose: _____

Health Emergency

Yes ☐

No ☐

If Yes, give additional information above

Sanitary Bacteriology

Organic Chemistry

Inorganic Chemistry

Nuclear Chemistry

Check Water Source:

☐ Chlorinated Potable Water

☐ Unchlorinated Potable Water

☐ Bottled Water

☐ Nonpotable Surface Water

☐ Chlorinated Waste Water

☐ Other

☐ Insecticides

☐ Herbicides

☐ PCBs

☐ Purgeables-502.2

☐ Nitrogen/Phosphorus Pesticides

☐ Petroleum Products

☐ Priority Pollutants-S.V.

☐ Dioxin/Furan

☐ Ketones

☐ CLP

☒ Other LOVE CANAL ANALYTES

☐ Potable Water, OCSS-I

☐ Potable Water, OCSS-I +
Secondary

☐ Langelier Index

☐ Nitrate

☐ Trace Metals

☐ Other

☐ Lead

☐ Scheduled Analysis

☐ Other

Fuels

☐ Sulfur

☐ BTU

☐ Other



USE THIS AIRBILL FOR SHIPMENTS TO THE UNITED STATES, ALASKA, AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

1520037993

1520037993

SENDER'S COPY

SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER 1172-1691-8		Date 5/10/94	
From (Your Name) Please Print MAURICE F. MOORE		Your Phone Number (Very Important) (716) 283-0112	
Company NYS DEPT ENV CONS / Remediation		Company NYS DOH WCLER Rm 519	
Street Address 50 WOLF Rd Rm 208		Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.) EMPIRE STATE PLAZA WORKING DECK J	
City ALBANY		City ALBANY	
State NY		State NY	
ZIP Required 12233		ZIP Required 12201	
YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.) 9-32-020			
PAYMENT 1 ☒ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No. 3 ☐ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card 5 ☐ Cash/Check Acct./Credit Card No. _____ Exp. Date 1		IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here Street Address _____ City _____ State _____ ZIP Required _____	
SERVICES (Check only one box) 11 ☒ OTHER PACKAGING 16 ☐ FEDEX LETTER 12 ☐ FEDEX PAK 13 ☐ FEDEX BOX 14 ☐ FEDEX TUBE 30 ☐ ECONOMY 70 ☐ OVERNIGHT FREIGHT 80 ☐ TWO-DAY FREIGHT		DELIVERY AND SPECIAL HANDLING (Check services required) 1 ☐ HOLD AT FEDEX LOCATION WEEKDAY 2 ☒ DELIVER WEEKDAY 31 ☐ HOLD AT FEDEX LOCATION SATURDAY 3 ☐ DELIVER SATURDAY 9 ☐ SATURDAY PICK-UP Special Handling 4 ☐ DANGEROUS GOODS 6 ☐ DRY ICE 12 ☐ HOLIDAY DELIVERY	
Economy Two-Day (Delivery by second business day) 30 ☐ ECONOMY 70 ☐ OVERNIGHT FREIGHT 80 ☐ TWO-DAY FREIGHT		DIM SHIPMENT (Chargeable Weight) L x W x H 3 x 15 x 1	
Government Overnight (Delivery by second business day) 46 ☐ GOVT LETTER 41 ☐ GOVT PACKAGE		Total Total Total 3 151	
Freight Service (for packages over 150 lbs.) 20 ☐ OVERNIGHT FREIGHT 80 ☐ TWO-DAY FREIGHT		Service Conditions, Declared Value and Limit of Liability Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details. We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is \$500. In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information.	
Declared Value Limit \$500. Call for delivery schedule.		Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom. Release Signature: _____	

SENDER'S COPY
DROP OFF YOUR PACKAGE AND SAVE

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges
REVISION DATE 12/92
PART #137205 GBFE
FORMAT #158
158
© 1992-93 FEDEX
PRINTED IN
U.S.A.

TERMS AND CONDITIONS

DEFINITIONS

On this Airbill, we, our and us refer to Federal Express Corporation, its employees and agents. You and your refer to the sender, its employees and agents.

AGREEMENT TO TERMS

By giving us your package to deliver, you agree to all the terms of this Airbill and in our current Service Guide, which is available upon request. If there is a conflict between the current Service Guide and this Airbill, the Service Guide will control. No one is authorized to alter or modify the terms of our Agreement.

RESPONSIBILITY FOR PACKAGING AND COMPLETING AIRBILL

You are responsible for adequately packaging your goods and for properly filling out this Airbill. Omission of the number of packages and weight per package from this Airbill will result in a billing based on our best estimate of the number of packages received from you and an estimated "default" weight per package, as determined and periodically adjusted by us.

AIR TRANSPORTATION TAX INCLUDED

Our basic rate includes a federal tax required by Internal Revenue Code Section 4271 on the air transportation portion of this service.

LIMITATIONS ON OUR LIABILITY AND LIABILITIES NOT ASSUMED

Our liability for loss or damage to your package is limited to your actual damages or \$100, whichever is less, unless you pay for and declare a higher authorized value. We do not provide cargo liability insurance, but you may pay an additional charge for each additional \$100 of declared value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your package.

In any event we will not be liable for any damages, whether direct, incidental, special or consequential in excess of the declared value of a shipment, whether or not Federal Express had knowledge that such damages might be incurred including, but not limited to, loss of income or profits.

We won't be liable for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking or addressing, or for the acts or omissions of the recipient or anyone else with an interest in the package. Also, we won't be liable, if you or the recipient violates any of the terms of our Agreement. We won't be liable for loss of or damage to shipments of prohibited items.

We won't be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts or omissions of public authorities (including customs and quarantine officials) with actual or apparent authority.

DECLARED VALUE LIMITS

The highest declared value we allow for FedEx Letter and FedEx Pak shipments is \$500. For other shipments, the highest declared value we allow is \$25,000 unless your package contains items of "extraordinary value," in which case the highest declared value we allow is \$500. Items of "extraordinary value" include artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our current Service Guide.

If you send more than one package on this Airbill, you may fill in the total declared value for all packages, not to exceed the \$100, \$500 or \$25,000 per package limit described above. (Example: 5 packages can have a total declared value of up to \$125,000.)

If more than one package is shipped on this Airbill, our liability for loss or damage will be limited to the actual value of the package(s) lost or damaged (not to exceed the lesser of the total declared value or the per package limits described above). You have the responsibility of proving the actual loss or damage.

FILING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING. You must notify us of your claim within strict time limits. See current Service Guide.

We'll consider your claim filed if you call and notify our Customer Service Department at 800-238-5355 and notify us in writing as soon as possible.

Within 90 days after you notify us of your claim, you must send us all relevant information about it. We are not obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, make the original shipping cartons and packing available for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. airbill for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cost we may incur in either returning your package to you or warehousing it pending disposition.

RIGHT OF REJECTION

We reserve the right to reject a shipment at any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or is in violation of any rules contained in this Airbill or our current Service Guide.

MONEY-BACK GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000031

EPA SAMPLE NO.

10210B

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941521

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0620F

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: not dec.

Date Analyzed: 06/20/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	0.2	BJ
67-64-1	Acetone	12	B
75-15-0	Carbon Disulfide	0.4	BJ
75-35-4	1,1-Dichloroethene	0.06	J
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	4	J
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	0.1	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	0.3	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.5	J
108-90-7	Chlorobenzene	0.2	J
100-41-4	Ethylbenzene	0.08	J
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	0.5	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000033

EPA SAMPLE NO.

FB_WK5

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941524

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0617G

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: not dec.

Date Analyzed: 06/17/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg). UG/L Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	0.3	BJ
67-64-1	-----Acetone	3	J
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	0.3	J
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	1	J
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	0.1	J
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	2	J
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000035

EPA SAMPLE NO.

8115HB

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941527

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0620E

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: not dec.

Date Analyzed: 06/20/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg). UG/L

CAS NO.

COMPOUND

Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	0.5	BJ
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	0.9	J
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	0.7	J
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	0.8	J
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	1	J
108-90-7	-----Chlorobenzene	1	J
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000036

EPA SAMPLE NO.

8115HB

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941527

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0620E

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: not dec.

Date Analyzed: 06/20/94

GC Column: DB5 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1066406	Silanol, trimethyl-	2.46	15	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000037

EPA SAMPLE NO.

8115TB

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941526

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0617H

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: not dec.

Date Analyzed: 06/18/94

GC Column: DB5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg). UG/L

Q

CAS NO.

COMPOUND

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	0.3	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000041

EPA SAMPLE NO.

10210B

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941521

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0627E

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/17/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/27/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	2	J
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	0.2	J
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	0.06	J
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000042

EPA SAMPLE NO.

10210B

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941521

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0627E

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/17/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/27/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO.

COMPOUND

51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	0.3	BJ
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	0.2	J
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	0.3	BJ
85-01-8-----	Phenanthrene	0.07	BJ
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	0.05	J
84-74-2-----	Di-n-butylphthalate	0.6	BJ
206-44-0-----	Fluoranthene	0.04	J
129-00-0-----	Pyrene	0.04	BJ
85-68-7-----	Butylbenzylphthalate	0.2	BJ
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	9	BJ
117-84-0-----	Di-n-octylphthalate	0.1	J
205-99-2-----	Benzo(b)fluoranthene	0.08	J
207-08-9-----	Benzo(k)fluoranthene	0.04	J
50-32-8-----	Benzo(a)pyrene	0.07	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	0.1	J
53-70-3-----	Dibenz(a,h)anthracene	0.1	J
191-24-2-----	Benzo(g,h,i)perylene	0.1	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000043

EPA SAMPLE NO.

10210B

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941521

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0627E

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/17/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/27/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 19

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0	1,2,3,4,5-PENTAMETHYL-CYCLOP	3.21	6	BJN
2. 0	Unknown C10H20	3.42	5	BJN
3. 5406309	Diisoamylene	3.72	2	BJN
4. 429179	Cyclohexane, 1-methyl-2-prop	3.76	7	JN
5. 78400	Phosphoric acid, triethyl es	5.72	5	JN
6. 65850	Benzoic acid	6.17	5	JN
7. 103822	Benzeneacetic acid	6.85	2	JN
8. 112050	Nonanoic acid	6.99	3	JN
9. 20364	4H-Cyclopenta[def]phenanthre	7.87	4	BJN
10. 121335	Benzaldehyde, 4-hydroxy-3-me	8.28	2	JN
11. 143077	Dodecanoic acid	9.68	4	JN
12. 110270	Isopropyl myristate	12.16	7	BJN
13. 2440224	Tinuvin P	14.50	10	JN
14. 123795	Hexanedioic acid, dioctyl es	16.83	4	JN
15. 2425798	Oxirane, 2,2'-[1,4-butanedi	18.08	40	JN
16. 301020	9-Octadecenamide, (Z)-	19.42	2	JN
17. 768364	2,6,10,14,18,22-Tetracosahex	19.73	3	JN
18. 2425798	Oxirane, 2,2'-[1,4-butanedi	21.10	29	JN
19. 2425798	Oxirane, 2,2'-[1,4-butanedi	25.02	4	JN

000045

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10210B

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LC994

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941521

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 06/17/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 06/20/94

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/08/94

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10210BMS

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941522

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0621E

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: not dec.

Date Analyzed: 06/21/94

GC Column: DB5 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	0.3	BJ
67-64-1	Acetone	14	
75-15-0	Carbon Disulfide	0.4	J
75-35-4	1,1-Dichloroethene	56	
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	31	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	44	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	45	
108-90-7	Chlorobenzene	47	
100-41-4	Ethylbenzene	0.1	BJ
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	0.7	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10210BMSD

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941523

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 4_0621F

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: not dec.

Date Analyzed: 06/21/94

GC Column: DB5 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	0.3	BJ
67-64-1-----	Acetone	16	
75-15-0-----	Carbon Disulfide	0.4	J
75-35-4-----	1,1-Dichloroethene	55	
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	33	
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	47	
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	43	
108-90-7-----	Chlorobenzene	45	
100-41-4-----	Ethylbenzene	0.08	BJ
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	0.4	BJ

3A
WATER VOLATILE MATRIX SPIKE BLANK RECOVERY

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix Spike - EPA Sample No.: VBLK03

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	0	53.98	108	61-145
Trichloroethene	50.00	0	30.97	62 *	71-120
Benzene	50.00	0	45.77	92	76-127
Toluene	50.00	0	41.72	83	76-125
Chlorobenzene	50.00	0	42.79	86	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC
1,1-Dichloroethene						
Trichloroethene						
Benzene						
Toluene						
Chlorobenzene						

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 5 outside limits

COMMENTS: 1819R 35 280 1.00
0 9

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix Spike - EPA Sample No.: 10210B

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	75.00	2.110	44.28	56	12-110
2-Chlorophenol	75.00	0	39.54	53	27-123
1,4-Dichlorobenzene	50.00	0	22.85	46	36- 97
N-Nitroso-di-n-prop.(1)	50.00	0	25.38	51	41-116
1,2,4-Trichlorobenzene	50.00	0	23.95	48	39- 98
4-Chloro-3-methylphenol	75.00	0	44.89	60	23- 97
Acenaphthene	50.00	0	28.54	57	46-118
4-Nitrophenol	75.00	0	0	0 *	10- 80
2,4-Dinitrotoluene	50.00	0	29.41	59	24- 96
Pentachlorophenol	75.00	0.3150	59.03	78	9-103
Pyrene	50.00	0.04400	34.47	69	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Phenol	75.00	42.18	53	6	42	12-110
2-Chlorophenol	75.00	37.31	50	6	40	27-123
1,4-Dichlorobenzene	50.00	21.84	44	4	28	36- 97
N-Nitroso-di-n-prop.(1)	50.00	24.46	49	4	38	41-116
1,2,4-Trichlorobenzene	50.00	23.10	46	4	28	39- 98
4-Chloro-3-methylphenol	75.00	44.35	59	2	42	23- 97
Acenaphthene	50.00	28.80	58	2	31	46-118
4-Nitrophenol	75.00	0	0 *	0	50	10- 80
2,4-Dinitrotoluene	50.00	30.32	61	3	38	24- 96
Pentachlorophenol	75.00	61.44	82	5	50	9-103
Pyrene	50.00	34.34	69	0	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 11 outside limits
 Spike Recovery: 2 out of 22 outside limits

COMMENTS: 1045R 35 280 1.00
 0 9

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10210BMS

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941522

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0627F

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/17/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/27/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	44	
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol	40	
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	23	
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	0.2	J
621-64-7-----	N-Nitroso-di-n-propylamine	25	
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	24	B
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	45	B
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	0.3	J
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	29	B

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10210BMS

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941522

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0627F

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/17/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/27/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	29	B
84-66-2-----	Diethylphthalate	0.3	BJ
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	0.2	J
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	59	B
85-01-8-----	Phenanthrene	0.07	BJ
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	0.06	J
84-74-2-----	Di-n-butylphthalate	0.5	BJ
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	34	B
85-68-7-----	Butylbenzylphthalate	0.3	BJ
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	7	BJ
117-84-0-----	Di-n-octylphthalate	0.06	J
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenz(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10210BMSD

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941523

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0627G

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/17/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/27/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

CAS NO.	COMPOUND		
108-95-2	Phenol	42	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	37	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	22	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	0.2	J
621-64-7	N-Nitroso-di-n-propylamine	24	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	23	B
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	44	B
91-57-6	2-Methylnaphthalene	0.1	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	0.1	J
208-96-8	Acenaphthylene	0.4	J
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	29	B

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10210BMSD

Lab Name: WCLR

Contract:

Lab Code: WCLR

Case No.: LC994_

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941523

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 3_0627G

Level: (low/med) LOW

Date Received: 06/17/94

% Moisture: decanted: (Y/N)

Date Extracted: 06/17/94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/27/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	30	B
84-66-2-----	Diethylphthalate	0.4	BJ
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	0.2	J
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	61	B
85-01-8-----	Phenanthrene	0.07	BJ
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	0.03	J
84-74-2-----	Di-n-butylphthalate	0.8	BJ
206-44-0-----	Fluoranthene	0.09	J
129-00-0-----	Pyrene	34	B
85-68-7-----	Butylbenzylphthalate	0.5	BJ
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	7	BJ
117-84-0-----	Di-n-octylphthalate	0.05	J
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenz(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LC994

SAS No.:

SDG No.: 0617

Matrix Spike - EPA Sample No.: 10210B

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.500	0	0.462	92	56-123
Heptachlor	0.500	0	0.543	109	40-131
Aldrin	0.500	0	0.478	96	40-120
Dieldrin	1.000	0	1.07	107	52-126
Endrin	1.000	0	1.08	108	56-121
4,4'-DDT	1.000	0	1.07	107	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.500	0.472	94	2	15 56-123
Heptachlor	0.500	0.557	111	2	20 40-131
Aldrin	0.500	0.487	97	1	22 40-120
Dieldrin	1.000	1.10	110	3	18 52-126
Endrin	1.000	1.09	109	1	21 56-121
4,4'-DDT	1.000	1.09	109	2	27 38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10210BMS

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LC994

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941522

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 06/17/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 06/20/94

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/08/94

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.46	
76-44-8	Heptachlor	0.54	
309-00-2	Aldrin	0.48	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	1.1	
72-55-9	4,4'-DDE	0.024	JP
72-20-8	Endrin	1.1	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.066	J
1031-07-8	Endosulfan sulfate	0.023	JP
50-29-3	4,4'-DDT	1.1	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.020	JP
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10210BMSD

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LC994

SAS No.:

SDG No.: 0617

Matrix: (soil/water) WATER

Lab Sample ID: 941523

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 06/17/94

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 06/20/94

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/08/94

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.47	
76-44-8-----	Heptachlor	0.56	
309-00-2-----	Aldrin	0.49	
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	1.1	
72-55-9-----	4,4'-DDE	0.045	J
72-20-8-----	Endrin	1.1	
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.041	JP
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	1.1	
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.022	JP
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 7132 DATE 5/9/94

FIELD DATA TIME: START 2:20 END 2:58

WEATHER NOTES: clearing, 100% overcast - rain stopping

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 28.0 ft. WATER DEPTH: Top of well 12.76 ft.

WELL VOLUME: 2.5 gal. TOTAL VOLUME PURGED 8.0 gal.

SAMPLE PURGE DATA:

@ initial <u><1</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>57.1</u> deg. F.	TEMP. <u>57.8</u> deg. F.	TEMP. <u>51.9</u> deg. F.
SP. COND. <u>550</u> mohms	SP. COND. <u>650</u> mohms	SP. COND. <u>900</u> mohms
pH <u>11.7</u>	pH <u>9.3</u>	pH <u>8.0</u>
TIME <u>2:25</u>	TIME <u>1:32</u>	TIME <u>2:43</u>
HR/MIN <u>11</u>	HR/MIN <u>8</u>	HR/MIN <u>10</u>
PURGE VOL. <u><1</u> gal.	PURGE VOL. <u>2.5</u> gal.	PURGE VOL. <u>5.0</u> gal.

@ <u>3</u> well volumes	@ <u> </u> well volumes	@ <u> </u> well volumes
TEMP. <u>52.3</u> deg. F.	TEMP. <u> </u> deg. F.	TEMP. <u> </u> deg. F.
SP. COND. <u>1000</u> mohms	SP. COND. <u> </u> mohms	SP. COND. <u> </u> mohms
pH <u>7.6</u>	pH <u> </u>	pH <u> </u>
TIME <u>2:54</u>	TIME <u> </u>	TIME <u> </u>
HR/MIN <u>11</u>	HR/MIN <u> </u>	HR/MIN <u> </u>
PURGE VOL. <u>2.5</u> gal.	PURGE VOL. <u> </u> gal.	PURGE VOL. <u> </u> gal.

REMARKS/OBSERVATIONS

TIME SAMPLED: 1015 DATE: 5/11/94

QA/QC? Y MS? MSD? FIELD BLANK? *

DOH SPLIT? Y VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to DOH

PERSON/S PURGING None

PERSON/S SAMPLING None (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/FURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 8106 DATE 5/10/94

FIELD DATA TIME: START 9:35 END 9:51

WEATHER NOTES: Sunny 80% clear 56°

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 17 ft. WATER DEPTH: Top of well 9.65 ft.

WELL VOLUME: 1.2 gal. TOTAL VOLUME FURGED 6.0 gal.

SAMPLE FURGE DATA:

@ initial <u>21</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>51.4</u> deg. F.	TEMP. <u>48.8</u> deg. F.	TEMP. <u>48.6</u> deg. F.
SP. COND. <u>1250</u> mohms	SP. COND. <u>1250</u> mohms	SP. COND. <u>1250</u> mohms
pH <u>7.4</u>	pH <u>7.3</u>	pH <u>7.3</u>
TIME <u>9:35</u>	TIME <u>9:39</u>	TIME <u>9:41</u>
HR/MIN <u>2</u>	HR/MIN <u>3</u>	HR/MIN <u>3</u>
FURGE VOL. <u>21</u> gal.	FURGE VOL. <u>1.2</u> gal.	FURGE VOL. <u>2.4</u> gal.

@ <u>3</u> well volumes	@ <u> </u> well volumes	@ <u> </u> well volumes
TEMP. <u>48.7</u> deg. F.	TEMP. <u> </u> deg. F.	TEMP. <u> </u> deg. F.
SP. COND. <u>1250</u> mohms	SP. COND. <u> </u> mohms	SP. COND. <u> </u> mohms
pH <u> </u>	pH <u> </u>	pH <u> </u>
TIME <u>9:44</u>	TIME <u> </u>	TIME <u> </u>
HR/MIN <u>3</u>	HR/MIN <u> </u>	HR/MIN <u> </u>
FURGE VOL. <u>3.4</u> gal.	FURGE VOL. <u> </u> gal.	FURGE VOL. <u> </u> gal.

REMARKS/OBSERVATIONS Went very well

TIME SAMPLED: 1100 DATE: 5/11/94

QA/QC? Y MS? MSD? FIELD BLANK? *

DOH SPLIT? Y VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse,

**DESCRIBE SPLIT: Whole sample to DOH

PERSON/S FURGING Moore

PERSON/S SAMPLING Moore (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 8115 DATE 5/10/94FIELD DATA TIME: START 12:55 END 1:50WEATHER NOTES: 80% Overcast sprinkles eclipseVOA LEVEL: ambient 0 headspace 0WELL DEPTH: 28.5 ft. WATER DEPTH: Top of well 6.55 ft.WELL VOLUME: 3.6 gal. TOTAL VOLUME PURGED 15.0 gal.

SAMPLE PURGE DATA:

@initial	gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>50.8</u>	deg. F.	TEMP. <u>49.5</u>	deg. F.
SP. COND. <u>1525</u>	mohms	SP. COND. <u>1500</u>	mohms
pH <u>7.1</u>		pH <u>7.2</u>	
TIME <u>1:02</u>		TIME <u>1:05</u>	
HR/MIN <u>2</u>		HR/MIN <u>3</u>	
PURGE VOL. <u>—</u>	gal.	PURGE VOL. <u>3.6</u>	gal.

@ <u>3</u> well volumes	@ <u>—</u> well volumes	@ <u>—</u> well volumes	
TEMP. <u>50.2</u>	deg. F.	TEMP. <u>—</u>	deg. F.
SP. COND. <u>1500</u>	mohms	SP. COND. <u>—</u>	mohms
pH <u>8.0</u>		pH <u>—</u>	
TIME <u>1:25</u>		TIME <u>—</u>	
HR/MIN <u>12</u>		HR/MIN <u>—</u>	
PURGE VOL. <u>10.6</u>	gal.	PURGE VOL. <u>—</u>	gal.

REMARKS/OBSERVATIONS: water - fast 1st purge and muddied
up - put new meter hose before purge
Best time to do this well - now did not
go dry even over purgingTIME SAMPLED: 1205 DATE: 5/11/94QA/QC? ☒ Y ☐ N MS? MSD? FIELD BLANK? *DOH SPLIT? ☒ Y ☐ N: VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer, rinse.

**DESCRIBE SPLIT: whole sample to DOHPERSON/S PURGING Maurice MorPERSON/S SAMPLING Maurice Mor (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 7205 DATE 5/9/94

FIELD DATA TIME: START 12:35 END 1:25

WEATHER NOTES: 1033/e 100% overcast 52°

VOA LEVEL: ambient headspace

WELL DEPTH: 49.6 ft. WATER DEPTH: Top of well 12.56 ft.

WELL VOLUME: 6.0 gal. TOTAL VOLUME PURGED 19.0 gal.

SAMPLE PURGE DATA:

@ initial <u>< 1</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>50.4</u> deg. F.	TEMP. <u>50.4</u> deg. F.	TEMP. <u>50.9</u> deg. F.
SP. COND. <u>650</u> mohms	SP. COND. <u>1400</u> mohms	SP. COND. <u>1850</u> mohms
pH <u>7.5</u>	pH <u> </u>	pH <u> </u>
TIME <u>12:35</u>	TIME <u>12:51</u>	TIME <u>1:07</u>
HR/MIN <u> </u>	HR/MIN <u> </u>	HR/MIN <u> </u>
PURGE VOL. <u>5.1</u> gal.	PURGE VOL. <u>6.0</u> gal.	PURGE VOL. <u>12.0</u> gal.

@ <u>3</u> well volumes	@ <u> </u> well volumes	@ <u> </u> well volumes
TEMP. <u>51.0</u> deg. F.	TEMP. <u> </u> deg. F.	TEMP. <u> </u> deg. F.
SP. COND. <u>2000</u> mohms	SP. COND. <u> </u> mohms	SP. COND. <u> </u> mohms
pH <u>7.0</u>	pH <u> </u>	pH <u> </u>
TIME <u>1:25</u>	TIME <u> </u>	TIME <u> </u>
HR/MIN <u> </u>	HR/MIN <u> </u>	HR/MIN <u> </u>
PURGE VOL. <u>18.0</u> gal.	PURGE VOL. <u> </u> gal.	PURGE VOL. <u> </u> gal.

REMARKS/OBSERVATIONS

TIME SAMPLED: 0940 DATE: 5/11/94

QA/QC? Y/N: MS? MSD? FIELD BLANK? *

DOH-SPLIT? Y/N: VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to Doh

PERSON/S PURGING None

PERSON/S SAMPLING None (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 8125 DATE 5/16/94FIELD DATA TIME: START 2:00 END 2:30WEATHER NOTES: Cold 46° Windy 15-25 100% overcastVOA LEVEL: ambient 0 headspace 0WELL DEPTH: 27.5 ft. WATER DEPTH: Top of well 12.74 ft.WELL VOLUME: 2.4 gal. TOTAL VOLUME PURGED 9.2 gal.

SAMPLE PURGE DATA:

@initial <u>1</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>48.4</u> deg. F.	TEMP. <u>49.6</u> deg. F.	TEMP. <u>50.8</u> deg. F.
SP. COND. <u>16.75</u> mohms	SP. COND. <u>1900</u> mohms	SP. COND. <u>2000</u> mohms
pH <u>7.7</u>	pH <u>7.7</u>	pH <u>7.6</u>
TIME <u>2:00</u>	TIME <u>2:05</u>	TIME <u>2:12</u>
HR/MIN <u>1</u>	HR/MIN <u>1</u>	HR/MIN <u>7</u>
PURGE VOL. <u>1</u> gal.	PURGE VOL. <u>2.4</u> gal.	PURGE VOL. <u>4.8</u> gal.

@ <u>3</u> well volumes	@ <u> </u> well volumes	@ <u> </u> well volumes
TEMP. <u>51.1</u> deg. F.	TEMP. <u> </u> deg. F.	TEMP. <u> </u> deg. F.
SP. COND. <u>2050</u> mohms	SP. COND. <u> </u> mohms	SP. COND. <u> </u> mohms
pH <u>7.6</u>	pH <u> </u>	pH <u> </u>
TIME <u>2:25</u>	TIME <u> </u>	TIME <u> </u>
HR/MIN <u>12</u>	HR/MIN <u> </u>	HR/MIN <u> </u>
PURGE VOL. <u>7.2</u> gal.	PURGE VOL. <u> </u> gal.	PURGE VOL. <u> </u> gal.

REMARKS/OBSERVATIONS RISER IS too high to sample
well its A PAIN.TIME SAMPLED: 1210 DATE: 5/18/94QA/QC? Y/N MS? MSD? FIELD BLANK? *DOH SPLIT? Y/N VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to DOHPERSON/S PURGING NonePERSON/S SAMPLING None (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 9105 DATE 5/16/94FIELD DATA TIME: START 12:45 END 1:31WEATHER NOTES: cold 46° overcast 100% Windy 15-25VOA LEVEL: ambient 0 headspace 0WELL DEPTH: 29.4 ft. WATER DEPTH: Top of well 8.95 ft.WELL VOLUME: 3.3 gal. TOTAL VOLUME PURGED 10.5 gal.

SAMPLE PURGE DATA:

@ initial <u>1</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>47.9</u> deg. F.	TEMP. <u>50.7</u> deg. F.	TEMP. <u>49.9</u> deg. F.
SP. COND. <u>1125</u> mohms	SP. COND. <u>1125</u> mohms	SP. COND. <u>1125</u> mohms
pH <u>7.9</u>	pH <u>7.8</u>	pH <u>7.8</u>
TIME <u>12:47</u>	TIME <u>12:52</u>	TIME <u>1:12</u>
HR/MIN <u>5</u>	HR/MIN <u>5</u>	HR/MIN <u>20</u>
PURGE VOL. <u>1</u> gal.	PURGE VOL. <u>3.3</u> gal.	PURGE VOL. <u>6.6</u> gal.

@ <u>3</u> well volumes	@ <u> </u> well volumes	@ <u> </u> well volumes
TEMP. <u>49.5</u> deg. F.	TEMP. <u> </u> deg. F.	TEMP. <u> </u> deg. F.
SP. COND. <u>1100</u> mohms	SP. COND. <u> </u> mohms	SP. COND. <u> </u> mohms
pH <u>7.7</u>	pH <u> </u>	pH <u> </u>
TIME <u>1:27</u>	TIME <u> </u>	TIME <u> </u>
HR/MIN <u> </u>	HR/MIN <u> </u>	HR/MIN <u> </u>
PURGE VOL. <u>9.9</u> gal.	PURGE VOL. <u> </u> gal.	PURGE VOL. <u> </u> gal.

REMARKS/OBSERVATIONS tubing to bottom grey mud
some chunks cleared rapidly - had trouble setting
tube @ every joint The third joint - Right Above
screen is bad & takes time to get through
decent to take MS/MSDTIME SAMPLED: 1125 DATE: 5/18/94QA/QC? ☒ N: MS? MSD? FIELD BLANK? *DOH SPLIT? ☒ N: VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer, rinse.

**DESCRIBE SPLIT: whole sample to DOHPERSON/S PURGING NonePERSON/S SAMPLING None (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 9113 DATE 5/16/94

FIELD DATA TIME: START 11:20 END 12:31

WEATHER NOTES: 100% overcast windy 50°

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 36 ft. WATER DEPTH: Top of well 11.25 ft.

WELL VOLUME: 4.03 gal. TOTAL VOLUME PURGED 16.5 gal.

SAMPLE PURGE DATA:

@initial gal.	@ 1 well volume(s)	@ 2 well volumes
TEMP. <u>48.9</u> deg. F.	TEMP. <u>48.9</u> deg. F.	TEMP. <u>50.6</u> deg. F.
SP. COND. <u>3400</u> mohms	SP. COND. <u>1875</u> mohms	SP. COND. <u>3000</u> mohms
PH <u>12.5</u>	PH <u>12.3</u>	PH <u>12.6</u>
TIME <u>11:20</u>	TIME <u>11:29</u>	TIME <u>11:48</u>
HR/MIN	HR/MIN <u>9</u>	HR/MIN <u>19</u>
PURGE VOL. gal.	PURGE VOL. <u>4.0</u> gal.	PURGE VOL. <u>8.1</u> gal.

@ 3 well volumes	@ 4 well volumes	@ well volumes
TEMP. <u>50.6</u> deg. F.	TEMP. <u>49.8</u> deg. F.	TEMP. deg. F.
SP. COND. <u>605</u> mohms	SP. COND. <u>700</u> mohms	SP. COND. mohms
PH <u>11.9</u>	PH <u>11.7</u>	PH
TIME <u>12:06</u>	TIME <u>12:29</u>	TIME
HR/MIN <u>20</u>	HR/MIN <u>21</u>	HR/MIN
PURGE VOL. <u>12.1</u> gal.	PURGE VOL. <u>16.1</u> gal.	PURGE VOL. gal.

REMARKS/OBSERVATIONS Extended tubing between 1 & 2
Noted some white precipitate in light TAN coloration
its clearing - jumps in spec con over D.C. scan
checked calibration - OK - maybe cold affecting
it will do 4 volumes for good measure PH also
viewed must be rec'd 0

TIME SAMPLED: 11:05 DATE: 5/18/94

QA/QC? Y(N) MS? MSD? FIELD BLANK? *

DOH SPLIT? YN VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to Doh

PERSON/S PURGING None

PERSON/S SAMPLING None (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/FURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 9122 DATE 5/16/94FIELD DATA TIME: START 0945 END 10:30WEATHER NOTES: 100% overcast 52°VOA LEVEL: ambient 0 headspace 0WELL DEPTH: 34 ft. WATER DEPTH: Top of well 10.65 ft.WELL VOLUME: 3.8 gal. TOTAL VOLUME FURGED 6.3 gal.

SAMPLE FURGE DATA:

@initial <u>—</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>79.1</u> deg. F.	TEMP. <u>50.6</u> deg. F.	TEMP. <u>—</u> deg. F.
SP. COND. <u>350</u> mohms	SP. COND. <u>350</u> mohms	SP. COND. <u>—</u> mohms
pH <u>9.1</u>	pH <u>9.0</u>	pH <u>DP1</u>
TIME <u>10:52</u>	TIME <u>10:02</u>	TIME <u>10:15</u>
HR/MIN <u>—</u>	HR/MIN <u>10</u>	HR/MIN <u>—</u>
FURGE VOL. <u>—</u> gal.	FURGE VOL. <u>3.8</u> gal.	FURGE VOL. <u>7.6</u> gal.

@ <u>3</u> well volumes	@ <u>—</u> well volumes	@ <u>—</u> well volumes
TEMP. <u>—</u> deg. F.	TEMP. <u>—</u> deg. F.	TEMP. <u>—</u> deg. F.
SP. COND. <u>—</u> mohms	SP. COND. <u>—</u> mohms	SP. COND. <u>—</u> mohms
pH <u>—</u>	pH <u>—</u>	pH <u>—</u>
TIME <u>—</u>	TIME <u>—</u>	TIME <u>—</u>
HR/MIN <u>—</u>	HR/MIN <u>—</u>	HR/MIN <u>—</u>
FURGE VOL. <u>11.4</u> gal.	FURGE VOL. <u>—</u> gal.	FURGE VOL. <u>—</u> gal.

REMARKS/OBSERVATIONS 1st fast level dropping fast & purge
slowing after 1st. water grey after 1st cleaning
agitated - well went dry after 6.3 gallonsTIME SAMPLED: 1000 DATE: 5/18/94QA/QC? Y/N MS? MSD? FIELD BLANK? *DOH SPLIT? Y/N VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to D.O.HPERSON/S PURGING MoorePERSON/S SAMPLING Moore (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 10.270 DATE 5/17/94

FIELD DATA

TIME: START 9:40 END 10:15

WEATHER NOTES: 100% overcast 48°

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 47.3 ft. WATER DEPTH: Top of well 11.85 ft.

WELL VOLUME: 5.8 gal. TOTAL VOLUME PURGED 10.0 gal.

SAMPLE PURGE DATA:

@initial <u>✓</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>49.5</u> deg. F.	TEMP. <u>51.0</u> deg. F.	TEMP. <u>49.7</u> deg. F.
SP. COND. <u>2300</u> mohms	SP. COND. <u>2900</u> mohms	SP. COND. <u>2550</u> mohms
pH <u>8.5</u>	pH <u>7.4</u>	pH <u>7.3</u>
TIME <u>9:45</u>	TIME <u>9:52</u>	TIME <u>10:00</u>
HR/MIN <u>✓</u>	HR/MIN <u>✓</u>	HR/MIN <u>✓</u>
PURGE VOL. <u>✓</u> gal.	PURGE VOL. <u>5.8</u> gal.	PURGE VOL. <u>11.6</u> gal.

@ <u>3</u> well volumes	@ <u> </u> well volumes	@ <u> </u> well volumes
TEMP. <u>51.0</u> deg. F.	TEMP. <u> </u> deg. F.	TEMP. <u> </u> deg. F.
SP. COND. <u>2850</u> mohms	SP. COND. <u> </u> mohms	SP. COND. <u> </u> mohms
pH <u>7.3</u>	pH <u> </u>	pH <u> </u>
TIME <u>10:08</u>	TIME <u> </u>	TIME <u> </u>
HR/MIN <u> </u>	HR/MIN <u> </u>	HR/MIN <u> </u>
PURGE VOL. <u>17.4</u> gal.	PURGE VOL. <u> </u> gal.	PURGE VOL. <u> </u> gal.

REMARKS/OBSERVATIONS Black specks after 1st

Strong H₂S odor - (2000) purge

TIME SAMPLED: 1250 DATE: 5/18/94

QA/QC? Y/N MS? MSD? FIELD BLANK? *

DOH SPLIT? Y/N VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H₂O, bailer, rinse.

**DESCRIBE SPLIT: whole sample 1. Anal.

PERSON/S PURGING None

PERSON/S SAMPLING None (OVER)

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BEST COPY AVAILABLE**

InStream, LLC

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 9130 DATE 5/22/94FIELD DATA TIME: START 0930 END 1015WEATHER NOTES: Partly cloudy 68°VOA LEVEL: ambient 0 headspace 0WELL DEPTH: 30.5 ft. WATER DEPTH: Top of well 6.40 ft.WELL VOLUME: 3.9 gal. TOTAL VOLUME PURGED 14.0 gal.

SAMPLE PURGE DATA:

@ 1 gal. @ 1 well volume(s) @ 2 well volumesTEMP. 52.8 deg. F. TEMP. 52.7 deg. F. TEMP. 53.6 deg. F.SP. COND. 1050 mohms SP. COND. 1050 mohms SP. COND. 10.50 mohmspH 7.5 pH 8.4 pH 7.8TIME 9.54 TIME 9.40 TIME 9.53HR/MIN 9.27 HR/MIN 6.00 HR/MIN 13PURGE VOL. 3.9 gal. PURGE VOL. 3.9 gal. PURGE VOL. 7.8 gal.@ 3 well volumes @ 1 well volumes @ 1 well volumesTEMP. 54.1 deg. F. TEMP. deg. F. TEMP. deg. F.SP. COND. 11.00 mohms SP. COND. mohms SP. COND. mohmspH 7.6 pH pH TIME 10.04 TIME TIME HR/MIN HR/MIN HR/MIN PURGE VOL. 11.7 gal. PURGE VOL. gal. PURGE VOL. gal.REMARKS/OBSERVATIONS Blackish/grey silt 1st 2nd 3rdparticulates slight blue color 4th 5th 6thTINT 1st 2nd 3rd 4th 5th 6thmosquito's during sampling TIME SAMPLED: 0905 DATE: 5/25/94QA/QC? Y/N MS? MSD? FIELD BLANK? *DOH SPLIT? Y/N VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: Whole sample to DOHPERSON/S PURGING MorePERSON/S SAMPLING More (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 10115 DATE 5/23/94

FIELD DATA TIME: START 10:25 END 11:48

WEATHER NOTES: Sunny 73° Breezy

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 33.7 ft. WATER DEPTH: Top of well 11.26 ft.

WELL VOLUME: 3.7 gal. TOTAL VOLUME PURGED gal.

SAMPLE PURGE DATA:

Initial <u> </u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>57.1</u> deg. F.	TEMP. <u>55.1</u> deg. F.	TEMP. <u>58.0</u> deg. F.
SP. COND. <u>675</u> mohms	SP. COND. <u>875</u> mohms	SP. COND. <u>850</u> mohms
pH <u>7.0</u>	pH <u>6.9</u>	pH <u>6.8</u>
TIME <u>10:37</u>	TIME <u>10:47</u>	TIME <u>11:12</u>
HR/MIN <u> </u>	HR <u>(MIN) 10</u>	HR <u>(MIN) 25</u>
PURGE VOL. <u> </u> gal.	PURGE VOL. <u>3.7</u> gal.	PURGE VOL. <u>7.4</u> gal.

@ <u>3</u> well volumes	@ <u> </u> well volumes	@ <u> </u> well volumes
TEMP. <u>57.5</u> deg. F.	TEMP. <u> </u> deg. F.	TEMP. <u> </u> deg. F.
SP. COND. <u>825</u> mohms	SP. COND. <u> </u> mohms	SP. COND. <u> </u> mohms
pH <u>6.8</u>	pH <u> </u>	pH <u> </u>
TIME <u>11:37</u>	TIME <u> </u>	TIME <u> </u>
HR <u>(MIN) 25</u>	HR/MIN <u> </u>	HR/MIN <u> </u>
PURGE VOL. <u>11.1</u> gal.	PURGE VOL. <u> </u> gal.	PURGE VOL. <u> </u> gal.

REMARKS/OBSERVATIONS Brown silt initially - cleared
Rapidly slow steady purge thru one mo
two slowing

TIME SAMPLED: 0920 DATE: 5/25/94

QA/QC? Y(N) MS? MSD? FIELD BLANK? *

DOH SPLIT? DN VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse

**DESCRIBE SPLIT: Whole sample to DOH

PERSON/S PURGING Moore

PERSON/S SAMPLING Moore (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION mw 10178 A E2 DATE 5/23/94FIELD DATA TIME: START 12:35 END 12:52WEATHER NOTES: Sunny 73° light breezeVOA LEVEL: ambient 0 headspace 0WELL DEPTH: 19.2 ft. WATER DEPTH: Top of well 6.25 ft.WELL VOLUME: 2.1 gal. TOTAL VOLUME PURGED 6.0 gal.

SAMPLE PURGE DATA:

Initial	gal.	@ 1 well volume(s)	@ 2 well volumes
TEMP. <u>53.1</u> deg. F.		TEMP. <u>53.1</u> deg. F.	TEMP. <u>53.7</u> deg. F.
SP. COND. <u>100</u> mohms		SP. COND. <u>1100</u> mohms	SP. COND. <u>1450</u> mohms
pH <u>8.1</u>		pH <u>8.4</u>	pH <u>7.2</u>
TIME <u>10:33</u>		TIME <u>10:35</u>	TIME <u>11:41</u>
HR/MIN		HR/MIN <u>10:3</u>	HR/MIN
PURGE VOL. <u>2.1</u> gal.		PURGE VOL. <u>2.1</u> gal.	PURGE VOL. <u>4.2</u> gal.

@ 3 well volumes	@ well volumes	@ well volumes
TEMP. <u>53.1</u> deg. F.	TEMP. <u>53.1</u> deg. F.	TEMP. <u>53.7</u> deg. F.
SP. COND. <u>100</u> mohms	SP. COND. <u>1100</u> mohms	SP. COND. <u>1450</u> mohms
pH <u>8.1</u>	pH <u>8.4</u>	pH <u>7.2</u>
TIME <u>10:33</u>	TIME <u>10:35</u>	TIME <u>11:41</u>
HR/MIN	HR/MIN <u>10:3</u>	HR/MIN
PURGE VOL. <u>2.1</u> gal.	PURGE VOL. <u>2.1</u> gal.	PURGE VOL. <u>4.2</u> gal.

REMARKS/OBSERVATIONS White water 1st - 2nd clearedrapidly went dry before 3rd.TIME SAMPLED: 0945 DATE: 5/25/94QA/QC? Y/N MS? MSD? FIELD BLANK? *DOH SPLIT? Y/N VOA? LCIC'S? OTHER? ***WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse**DESCRIBE SPLIT: whole sample to DOHPERSON/S PURGING NonePERSON/S SAMPLING None (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 10176 B4-D3 DATE 5/23/94FIELD DATA TIME: START 13:20 END 13:41WEATHER/NOTES: Sunny 74°VOA LEVEL: ambient 0 headspace 0WELL DEPTH: 19 ft. WATER DEPTH: Top of well 18.62 ft.WELL VOLUME: 1.7 gal. TOTAL VOLUME PURGED 6 gal.

SAMPLE PURGE DATA:

@	initial	gal.	@	well volume(s)	@	2	well volumes	
TEMP.	<u>54.2</u>	deg. F.	TEMP.	<u>53.8</u>	deg. F.	TEMP.	<u>54.0</u>	deg. F.
SP. COND.	<u>600</u>	mohms	SP. COND.	<u>600</u>	mohms	SP. COND.	<u>600</u>	mohms
PH	<u>7.2</u>		PH	<u>7.6</u>		PH	<u>7.4</u>	
TIME	<u>13:22</u>		TIME	<u>13:26</u>		TIME	<u>13:30</u>	
HR/MIN	<u>4</u>		HR/MIN	<u>4</u>		HR/MIN	<u>4</u>	
PURGE VOL.	<u>1.7</u>	gal.	PURGE VOL.	<u>1.7</u>	gal.	PURGE VOL.	<u>3.4</u>	gal.

@	3	well volumes	@	well volumes	@	well volumes		
TEMP.	<u>55.3</u>	deg. F.	TEMP.		deg. F.	TEMP.		deg. F.
SP. COND.	<u>600</u>	mohms	SP. COND.		mohms	SP. COND.		mohms
PH	<u>7.4</u>		PH			PH		
TIME	<u>13:31</u>		TIME			TIME		
HR/MIN	<u>7</u>		HR/MIN			HR/MIN		
PURGE VOL.	<u>5.1</u>	gal.	PURGE VOL.		gal.	PURGE VOL.		gal.

REMARKS/OBSERVATIONS Well D3 chosen due toits corresponding depth to 10178A both @19 ft.TIME SAMPLED: 1010 DATE: 5/25/94QA/QC? Y/N MS? --- MSD? --- FIELD BLANK? *DOH SPLIT? P/N VOA? --- LCIC'S? --- OTHER? ***WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.**DESCRIBE SPLIT: Whole sample to DOHPERSON/S PURGING NonePERSON/S SAMPLING None (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 10105 DATE 5/23/94

FIELD DATA TIME: START 2:10 END 2:52

WEATHER NOTES: Sunny 74°

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 300 ft. WATER DEPTH: Top of well 7.98 ft.

WELL VOLUME: 3.4 gal. TOTAL VOLUME PURGED 12.0 gal.

SAMPLE PURGE DATA:

@ initial gal.	@ 1 well volume(s)	@ 2 well volumes
TEMP. <u>60.4</u> deg. F.	TEMP. <u>55.1</u> deg. F.	TEMP. <u>54.9</u> deg. F.
SP. COND. <u>1375</u> mohms	SP. COND. <u>1375</u> mohms	SP. COND. <u>1400</u> mohms
pH <u>7.0</u>	pH <u>6.7</u>	pH <u>6.7</u>
TIME <u>2:12</u>	TIME <u>2:17</u>	TIME <u>2:29</u>
HR/MIN <u>2:12</u>	HR/MIN <u>2:17</u>	HR/MIN <u>2:29</u>
PURGE VOL. <u>~</u> gal.	PURGE VOL. <u>3.6</u> gal.	PURGE VOL. <u>7.2</u> gal.

@ 3 well volumes	@ well volumes	@ well volumes
TEMP. <u>50.1</u> deg. F.	TEMP. deg. F.	TEMP. deg. F.
SP. COND. <u>1425</u> mohms	SP. COND. mohms	SP. COND. mohms
pH <u>6.7</u>	pH	pH
TIME <u>2:43</u>	TIME	TIME
HR/MIN <u>2:43</u>	HR/MIN	HR/MIN
PURGE VOL. <u>10.8</u> gal.	PURGE VOL. gal.	PURGE VOL. gal.

REMARKS/OBSERVATIONS

TIME SAMPLED: 11:50 DATE: 5/25/94

QA/QC? Y MS? MSD? FIELD BLANK? *

DOH SPLIT? Y VOA? LCIC'S? OTHER? **

WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

DESCRIBE SPLIT: whole sample to DOH

PERSON/S PURGING More

PERSON/S SAMPLING More (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 10215 DATE 5/24/92FIELD DATA TIME: START 3:10 END 4:10WEATHER NOTES: overcast warm sprinklesVOA LEVEL: ambient 0 headspace 0WELL DEPTH: 59.8 ft. WATER DEPTH: Top of well 12.98 ft.WELL VOLUME: 1.6 gal. TOTAL VOLUME PURGED 25 gal.

SAMPLE PURGE DATA:

@ initial <u>0</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>60.3</u> deg. F.	TEMP. <u>54.5</u> deg. F.	TEMP. <u>53.8</u> deg. F.
SP. COND. <u>2150</u> mohms	SP. COND. <u>4400</u> mohms	SP. COND. <u>4500</u> mohms
pH <u>7.3</u>	pH <u>6.7</u>	pH <u>6.8</u>
TIME <u>3:18</u>	TIME <u>3:25</u>	TIME <u>3:42</u>
HR/MIN <u>17</u>	HR/MIN <u>17</u>	HR/MIN <u>17</u>
PURGE VOL. <u>0</u> gal.	PURGE VOL. <u>7.0</u> gal.	PURGE VOL. <u>15.2</u> gal.

@ <u>3</u> well volumes	@ <u> </u> well volumes	@ <u> </u> well volumes
TEMP. <u>33.9</u> deg. F.	TEMP. <u> </u> deg. F.	TEMP. <u> </u> deg. F.
SP. COND. <u>4500</u> mohms	SP. COND. <u> </u> mohms	SP. COND. <u> </u> mohms
pH <u>6.8</u>	pH <u> </u>	pH <u> </u>
TIME <u>3:59</u>	TIME <u> </u>	TIME <u> </u>
HR/MIN <u>17</u>	HR/MIN <u> </u>	HR/MIN <u> </u>
PURGE VOL. <u>22.8</u> gal.	PURGE VOL. <u> </u> gal.	PURGE VOL. <u> </u> gal.

REMARKS/OBSERVATIONS Red beginningNote: Rush Red color in water during samplingTIME SAMPLED: 12:10 DATE: 5/25/94

QA/QC? Y/N MS? MSD? FIELD BLANK? *

DOH SPLIT? Y/N: VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse

**DESCRIBE SPLIT: 1/2 sample to DOHPERSON/S PURGING MorePERSON/S SAMPLING More (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 10150 DATE 6/6/94

FIELD DATA TIME: START 8:15 END 8:40

WEATHER NOTES: overcast 78-80

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 32.1 ft. WATER DEPTH: Top of well 12.1 ft.

WELL VOLUME: 3.26 gal. TOTAL VOLUME PURGED 14.0 gal.

SAMPLE PURGE DATA:

@ initial	gal.	@ 1 well volume(s)	@ 2 well volumes
TEMP. <u>54.4</u>	deg. F.	TEMP. <u>53.8</u>	deg. F.
SP. COND. <u>1150</u>	mohms	SP. COND. <u>1175</u>	mohms
pH <u>7.5</u>		pH <u>7.5</u>	
TIME <u>8:20</u>		TIME <u>8:24</u>	
HR/MIN <u>20</u>		HR/MIN <u>4</u>	
PURGE VOL. <u>3.26</u>	gal.	PURGE VOL. <u>3.3</u>	gal.

@ 3 well volumes	@ well volumes	@ well volumes	
TEMP. <u>53.3</u>	deg. F.	TEMP. <u>53.3</u>	deg. F.
SP. COND. <u>1225</u>	mohms	SP. COND. <u>1100</u>	mohms
pH <u>7.4</u>		pH <u>7.4</u>	
TIME <u>8:37</u>		TIME <u>8:30</u>	
HR/MIN <u>37</u>		HR/MIN <u>30</u>	
PURGE VOL. <u>9.9</u>	gal.	PURGE VOL. <u>6.6</u>	gal.

REMARKS/OBSERVATIONS Red floc - A lot of it

TIME SAMPLED: 0905 DATE: 6/8/94

QA/QC? Y/N MS? MSD? FIELD BLANK? *

DOH SPLIT? DN VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to DOH

PERSON/S PURGING C. Johnson M. Doyle H. Moore

PERSON/S SAMPLING Same (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 6209 DATE 6/6/94FIELD DATA TIME: START 1:00 END 2:52WEATHER NOTES: ptly cloudy 76°VOA LEVEL: ambient 0 headspace 0WELL DEPTH: 42.0 ft. WATER DEPTH: Top of well 13.4 ft.WELL VOLUME: 18.6 gal. TOTAL VOLUME PURGED 60 gal.

SAMPLE PURGE DATA:

@ initial	gal.	@ 1 well volume(s)	@ 2 well volumes
TEMP. <u>56.3</u>	deg. F.	TEMP. <u>55.4</u>	deg. F.
SP. COND. <u>4350</u>	mohms	SP. COND. <u>5020</u>	mohms
pH <u>8.5</u>		pH <u>7.0</u>	
TIME <u>1:15p</u>		TIME <u>1:43</u>	
HR/MIN		HR/MIN	
PURGE VOL.	gal.	PURGE VOL. <u>18.6</u>	gal.

@ 3 well volumes	@ well volumes	@ well volumes
TEMP. <u>56.0</u>	deg. F.	TEMP. deg. F.
SP. COND. <u>4500</u>	mohms	SP. COND. mohms
pH <u>7.0</u>		pH
TIME <u>2:41</u>		TIME
HR/MIN		HR/MIN
PURGE VOL. <u>56.8</u>	gal.	PURGE VOL. gal.

REMARKS/OBSERVATIONS water slightly green w/ Initial sampleTIME SAMPLED: 1130 DATE: 6/8/94QA/QC? ☒ MS? MSD? FIELD BLANK? *DOH SPLIT? ☒ VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to DOHPERSON/S PURGING C. Johnson, M. Doyle, M. HancePERSON/S SAMPLING Same (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 7115 DATE 5/9/94FIELD DATA TIME: START 0945 END 11:30WEATHER NOTES: Windy 56° SunnyVOA LEVEL: ambient 0.0 headspace 0.0WELL DEPTH: 31 ft. WATER DEPTH: Top of well 7.42 ft.WELL VOLUME: 3.84 gal. TOTAL VOLUME PURGED 11.8 gal.

SAMPLE PURGE DATA:

@ initial <u>Q < 0</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>50.7</u> deg. F.	TEMP. <u>56.1</u> deg. F.	TEMP. <u>51.1</u> deg. F.
SP. COND. <u>2150</u> mohms	SP. COND. <u>2100</u> mohms	SP. COND. <u>2100</u> mohms
pH <u>7.2</u>	pH <u>7.2</u>	pH <u>6.8</u>
TIME <u>9:45</u>	TIME <u>10:13</u>	TIME <u>11:07</u>
HR/MIN <u>—</u>	HR/MIN <u>28</u>	HR/MIN <u>—</u>
PURGE VOL. <u>< 1</u> gal.	PURGE VOL. <u>3.9</u> gal.	PURGE VOL. <u>7.7</u> gal.

@ <u>1.03</u> well volumes	@ <u>—</u> well volumes	@ <u>—</u> well volumes
TEMP. <u>51.2</u> deg. F.	TEMP. <u>—</u> deg. F.	TEMP. <u>—</u> deg. F.
SP. COND. <u>2100</u> mohms	SP. COND. <u>—</u> mohms	SP. COND. <u>—</u> mohms
pH <u>6.8</u>	pH <u>—</u>	pH <u>—</u>
TIME <u>11:28</u>	TIME <u>—</u>	TIME <u>—</u>
HR/MIN <u>21</u>	HR/MIN <u>—</u>	HR/MIN <u>—</u>
PURGE VOL. <u>11.4</u> gal.	PURGE VOL. <u>—</u> gal.	PURGE VOL. <u>—</u> gal.

REMARKS/OBSERVATIONS Rapid 1st 10 mins - slowed considerably
2nd volume slow - may need to bealing well wait last
time, use 1.5 hrs. - had on Bad Rndk of 2nd & 3rdTIME SAMPLED: 8:55-9:10 DATE: 5/11/94QA/QC? Y/N MS? MSD? FIELD BLANK? *DOH SPLIT? Y/N VOA? LCIC'S? OTHER? ** ALL

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: All samples to DOHPERSON/S PURGING MoorePERSON/S SAMPLING Moore (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 7125 DATE 5/11/99

FIELD DATA TIME: START 12:40 END 2:15

WEATHER NOTES: Rainy

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 25.5 ft. WATER DEPTH: Top of well 5.15 ft.

WELL VOLUME: 3.3 gal. TOTAL VOLUME PURGED _____ gal.

SAMPLE PURGE DATA:

@ initial <u>1</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>46.3</u> deg. F.	TEMP. <u>48.1</u> deg. F.	TEMP. <u>48.2</u> deg. F.
SP. COND. <u>900</u> mohms	SP. COND. <u>920</u> mohms	SP. COND. <u>950</u> mohms
pH <u>7.3</u>	pH <u>7.3</u>	pH <u>7.3</u>
TIME <u>12:40</u>	TIME <u>1:13</u>	TIME <u>1:45</u>
HR/MIN _____	HR/MIN _____	HR/MIN _____
PURGE VOL. <u>4.1</u> gal.	PURGE VOL. <u>3.3</u> gal.	PURGE VOL. <u>6.6</u> gal.

@ <u>3</u> well volumes	@ _____ well volumes	@ _____ well volumes
TEMP. <u>48.1</u> deg. F.	TEMP. _____ deg. F.	TEMP. _____ deg. F.
SP. COND. <u>900</u> mohms	SP. COND. _____ mohms	SP. COND. _____ mohms
pH <u>7.3</u>	pH _____	pH _____
TIME <u>2:15</u>	TIME _____	TIME _____
HR/MIN _____	HR/MIN _____	HR/MIN _____
PURGE VOL. <u>9.9</u> gal.	PURGE VOL. _____ gal.	PURGE VOL. _____ gal.

REMARKS/OBSERVATIONS lost bailer in well will have to
fish it out Rain started - Bailed entire
volume lost bailer when returning to last

TIME SAMPLED: 0915-0925 DATE: 5/11/99

QA/QC? Y MS? MSD? FIELD BLANK? *

DOH SPLIT? Y VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to DOH

PERSON/S PURGING None

PERSON/S SAMPLING None (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/FURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 8210 DATE 5/10/94

FIELD DATA

TIME: START 10:15 END 11:00

WEATHER NOTES: Sunny 80% 54° Eclipse Beginning

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 441 ft. WATER DEPTH: Top of well 12.94 ft.

WELL VOLUME: 5.1 gal. TOTAL VOLUME FURGED 18 gal.

SAMPLE FURGE DATA:

@initial <u>5.1</u> gal.	@ <u>1</u> well volume(s)	@ <u>1</u> well volumes
TEMP. <u>52.5</u> deg. F.	TEMP. <u>52.4</u> deg. F.	TEMP. <u>52.4</u> deg. F.
SP. COND. <u>225</u> mohms	SP. COND. <u>2350</u> mohms	SP. COND. <u>2300</u> mohms
PH <u>8.1</u>	PH <u>6.9</u>	PH <u>6.8</u>
TIME <u>10:15</u>	TIME <u>10:25</u>	TIME <u>10:37</u>
HR/MIN <u>—</u>	HR/MIN <u>—</u>	HR/MIN <u>12</u>
FURGE VOL. <u>5.1</u> gal.	FURGE VOL. <u>5.1</u> gal.	FURGE VOL. <u>10.2</u> gal.

@ <u>3</u> well volumes	@ <u>—</u> well volumes	@ <u>—</u> well volumes
TEMP. <u>52.7</u> deg. F.	TEMP. <u>—</u> deg. F.	TEMP. <u>—</u> deg. F.
SP. COND. <u>2400</u> mohms	SP. COND. <u>—</u> mohms	SP. COND. <u>—</u> mohms
PH <u>6.8</u>	PH <u>—</u>	PH <u>—</u>
TIME <u>10:49</u>	TIME <u>—</u>	TIME <u>—</u>
HR/MIN <u>—</u>	HR/MIN <u>—</u>	HR/MIN <u>—</u>
FURGE VOL. <u>15.3</u> gal.	FURGE VOL. <u>—</u> gal.	FURGE VOL. <u>—</u> gal.

REMARKS/OBSERVATIONS H₂S odor Good purge clear

TIME SAMPLED: 1120 DATE: 5/11/94

QA/QC? Y MS? MSD? FIELD BLANK? *

DOH SPLIT? Y VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H₂O, bailer rinse.

**DESCRIBE SPLIT: Whole sample in DOH

PERSON/S FURGING Moore

PERSON/S SAMPLING Moore (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 9205 DATE 5/10/94FIELD DATA TIME: START 11:15 END 12:15WEATHER NOTES: Sunny - eclipse - 58°VOA LEVEL: ambient 0 headspace 0WELL DEPTH: 47.0 ft. WATER DEPTH: Top of well 12.88 ft.WELL VOLUME: 5.6 gal. TOTAL VOLUME PURGED 18.0 gal.

SAMPLE PURGE DATA:

@initial <u><1</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>55.3</u> deg. F.	TEMP. <u>53.2</u> deg. F.	TEMP. <u>52.9</u> deg. F.
SP. COND. <u>575</u> mohms	SP. COND. <u>3650</u> mohms	SP. COND. <u>3150</u> mohms
pH <u>6.8</u>	pH <u>6.7</u>	pH <u>6.8</u>
TIME <u>11:19</u>	TIME <u>11:35</u>	TIME <u>11:50</u>
HR/MIN	HR/MIN	HR/MIN <u>15</u>
PURGE VOL. gal.	PURGE VOL. <u>5.6</u> gal.	PURGE VOL. <u>11.2</u> gal.

@ <u>3</u> well volumes	@ well volumes	@ well volumes
TEMP. <u>52.9</u> deg. F.	TEMP. deg. F.	TEMP. deg. F.
SP. COND. <u>3800</u> mohms	SP. COND. mohms	SP. COND. mohms
pH <u>6.8</u>	pH	pH
TIME <u>12:05</u>	TIME	TIME
HR/MIN <u>15</u>	HR/MIN	HR/MIN
PURGE VOL. <u>11.8</u> gal.	PURGE VOL. gal.	PURGE VOL. gal.

REMARKS/OBSERVATIONS H₂S odor Good purge.TIME SAMPLED: 1140 DATE: 5/11/94QA/QC? Y/N MS? MSD? FIELD BLANK? *DOH SPLIT? Y/N VOA? LCIC'S? OTHER? ***WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H₂O, bailer rinse.**DESCRIBE SPLIT: Whole sample to DOHPERSON/S PURGING MoorePERSON/S SAMPLING Moore (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 9118 DATE 5/16/94

FIELD DATA TIME: START 10:45 END 11:10

WEATHER NOTES: 100% OVERCAST WINDY 30°

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 35.5 ft. WATER DEPTH: Top of well 11.73 ft.

WELL VOLUME: 3.9 gal. TOTAL VOLUME PURGED 15.0 gal.

SAMPLE PURGE DATA:

@initial <u>~</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>48.5</u> deg. F.	TEMP. <u>49.6</u> deg. F.	TEMP. <u>49.9</u> deg. F.
SP. COND. <u>600</u> mohms	SP. COND. <u>625</u> mohms	SP. COND. <u>625</u> mohms
pH <u>7.7</u>	pH <u>7.3</u>	pH <u>7.2</u>
TIME <u>10:45</u>	TIME <u>10:50</u>	TIME <u>10:57</u>
HR/MIN <u>~</u>	HR/MIN <u>5</u>	HR/MIN <u>7</u>
PURGE VOL. <u>~</u> gal.	PURGE VOL. <u>3.9</u> gal.	PURGE VOL. <u>7.8</u> gal.

@ <u>3</u> well volumes	@ <u>~</u> well volumes	@ <u>~</u> well volumes
TEMP. <u>49.5</u> deg. F.	TEMP. <u>~</u> deg. F.	TEMP. <u>~</u> deg. F.
SP. COND. <u>625</u> mohms	SP. COND. <u>~</u> mohms	SP. COND. <u>~</u> mohms
pH <u>7.3</u>	pH <u>~</u>	pH <u>~</u>
TIME <u>11:02</u>	TIME <u>~</u>	TIME <u>~</u>
HR/MIN <u>5</u>	HR/MIN <u>~</u>	HR/MIN <u>~</u>
PURGE VOL. <u>11.7</u> gal.	PURGE VOL. <u>~</u> gal.	PURGE VOL. <u>~</u> gal.

REMARKS/OBSERVATIONS Generator ran out of gas between 1st & 2nd volume.

TIME SAMPLED: 1040 DATE: 5/18/94

QA/QC? Y/N MS? MSD? FIELD BLANK? *

DOH SPLIT? Y/N VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to DOH

PERSON/S PURGING None

PERSON/S SAMPLING None (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 10272 DATE 5/17/94FIELD DATA TIME: START 10:35 END 11:00WEATHER NOTES: 100% Overcast Light +5.0 partlesVOA LEVEL: ambient 0 headspace 0WELL DEPTH: 47.7 ft. WATER DEPTH: Top of well 13.28 ft.WELL VOLUME: 5.6 gal. TOTAL VOLUME PURGED 70.0 gal.

SAMPLE PURGE DATA:

@ initial <u>1</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>48.7</u> deg. F.	TEMP. <u>50.5</u> deg. F.	TEMP. <u>52.7</u> deg. F.
SP. COND. <u>600</u> mohms	SP. COND. <u>4400</u> mohms	SP. COND. <u>4300</u> mohms
pH <u>8.9</u>	pH <u>7.0</u>	pH <u>7.1</u>
TIME <u>10:27</u>	TIME <u>10:35</u>	TIME <u>10:42</u>
HR/MIN <u>1</u>	HR/MIN <u>8.0</u>	HR/MIN <u>8.0</u>
PURGE VOL. <u>1</u> gal.	PURGE VOL. <u>5.6</u> gal.	PURGE VOL. <u>11.2</u> gal.

@ <u>3</u> well volumes	@ <u>1</u> well volumes	@ <u>1</u> well volumes
TEMP. <u>51.0</u> deg. F.	TEMP. <u>51.0</u> deg. F.	TEMP. <u>51.0</u> deg. F.
SP. COND. <u>4100</u> mohms	SP. COND. <u>4100</u> mohms	SP. COND. <u>4100</u> mohms
pH <u>7.1</u>	pH <u>7.1</u>	pH <u>7.1</u>
TIME <u>10:52</u>	TIME <u>10:52</u>	TIME <u>10:52</u>
HR/MIN <u>9</u>	HR/MIN <u>9</u>	HR/MIN <u>9</u>
PURGE VOL. <u>16.8</u> gal.	PURGE VOL. <u>5.6</u> gal.	PURGE VOL. <u>5.6</u> gal.

REMARKS/OBSERVATIONS: Good Last Purge. H/S valveWell is bent - you must cut bailer in 1/2 tobail don't choose for MS/MSD'sTIME SAMPLED: 1345 DATE: 5/18/94QA/QC? Y/N MS? MSD? FIELD BLANK? *DOH SPLIT? Y/N VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: while samplePERSON/S PURGING nonePERSON/S SAMPLING none (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 10278 E-3 DATE 5/17/94

FIELD DATA TIME: START 11:20 END 12:05

WEATHER NOTES: 100% overcast 50°

VOA LEVEL: ambient 0 headdress 0

WELL DEPTH: 47 ft. WATER DEPTH: Top of well 11.60 ft.

WELL VOLUME: 5.8 gal. TOTAL VOLUME PURGED 25.0 gal.

SAMPLE PURGE DATA:

@ initial <u>✓</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>50.1</u> deg. F.	TEMP. <u>51.3</u> deg. F.	TEMP. <u>50.7</u> deg. F.
SP. COND. <u>7500</u> mohms	SP. COND. <u>3050</u> mohms	SP. COND. <u>4000</u> mohms
pH <u>13.0</u>	pH <u>10.3</u>	pH <u>9.0</u>
TIME <u>11:23</u>	TIME <u>11:32</u>	TIME <u>11:40</u>
HR/MIN <u>9</u>	HR/MIN <u>9</u>	HR/MIN <u>8</u>
PURGE VOL. <u>5.8</u> gal.	PURGE VOL. <u>5.8</u> gal.	PURGE VOL. <u>11.6</u> gal.

@ <u>3</u> well volumes	@ <u>4</u> well volumes	@ <u> </u> well volumes
TEMP. <u>51.2</u> deg. F.	TEMP. <u>51.6</u> deg. F.	TEMP. <u> </u> deg. F.
SP. COND. <u>4100</u> mohms	SP. COND. <u>4150</u> mohms	SP. COND. <u> </u> mohms
pH <u>8.3</u>	pH <u>8.1</u>	pH <u> </u>
TIME <u>11:49</u>	TIME <u>11:58</u>	TIME <u> </u>
HR/MIN <u>9</u>	HR/MIN <u>9</u>	HR/MIN <u> </u>
PURGE VOL. <u>17.4</u> gal.	PURGE VOL. <u>23.2</u> gal.	PURGE VOL. <u> </u> gal.

REMARKS/OBSERVATIONS H2S odor some H2S odor
Sample spec con well back 11:40 checked
metaphor pH dropping steadily 11:40 2 vols
checked Rinsing of JAR spec con 2 D readings

TIME SAMPLED: 1345 DATE: 5/18/94

QA/QC? Y/N MS? MSD? FIELD BLANK? *

DOH SPLIT? Y/N VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to DOH

PERSON/S PURGING None

PERSON/S SAMPLING None (OVER)

17.4
5.8
23.2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 9210 DATE 5/24/93

FIELD DATA TIME: START 10:40 END 12:00

WEATHER NOTES: DTLY Sunny 68-70°

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 82.3 ft. WATER DEPTH: Top of well 17.32 ft.

WELL VOLUME: 10.6 gal. TOTAL VOLUME PURGED 35.0 gal.

SAMPLE PURGE DATA:

Initial	gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>60.9</u>	deg. F.	TEMP. <u>55.7</u>	deg. F.
SP. COND. <u>1130</u>	mohms	SP. COND. <u>4150</u>	mohms
PH <u>7.9</u>		PH <u>7.0</u>	
TIME <u>10:46</u>		TIME <u>11:05</u>	
HR/MIN		HR/MIN <u>19</u>	
PURGE VOL.	gal.	PURGE VOL. <u>10.6</u>	gal.

@ <u>3</u> well volumes	@ <u> </u> well volumes	@ <u> </u> well volumes
TEMP. <u>55.1</u>	deg. F.	TEMP. <u> </u>
SP. COND. <u>4800</u>	mohms	SP. COND. <u> </u>
PH <u>6.6</u>		PH <u> </u>
TIME <u>11:37</u>		TIME <u> </u>
HR/MIN <u>15</u>		HR/MIN <u> </u>
PURGE VOL. <u>31.8</u>	gal.	PURGE VOL. <u> </u>

REMARKS/OBSERVATIONS: Some Rusty colored water 15
Purge initial went clear quickly - developed
MS odor backward. w/ Breathing Air bottle.

TIME SAMPLED: 1050 DATE: 5/25/94

QA/QC? Y/N: MS? MSD? FIELD BLANK? *

DOH SPLIT? Y/N: VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse, etc.

**DESCRIBE SPLIT: whole sample to DOH

PERSON/S PURGING Maor

PERSON/S SAMPLING Maor (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
MONITORING AND SURVEILLANCE

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 10205 DATE 5/24/94

FIELD DATA TIME: START 12:10 END 3:00

WEATHER NOTES: 100% overcast warm sprinkles

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 54 ft. WATER DEPTH: Top of well 13.74 ft.

WELL VOLUME: 6.7 gal. TOTAL VOLUME PURGED 25 gal.

SAMPLE PURGE DATA:

@ initial <u>2</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>54.3</u> deg. F.	TEMP. <u>55.1</u> deg. F.	TEMP. <u>54.8</u> deg. F.
SP. COND. <u>4900</u> mohms	SP. COND. <u>4650</u> mohms	SP. COND. <u>4850</u> mohms
PH <u>6.4</u>	PH <u>6.1</u>	PH <u>6.6</u>
TIME <u>12:10</u>	TIME <u>2:22</u>	TIME <u>2:36</u>
HR/MIN <u>2:09</u>	HR/MIN <u>14</u>	HR/MIN <u>14</u>
PURGE VOL. <u>6.7</u> gal.	PURGE VOL. <u>6.7</u> gal.	PURGE VOL. <u>13.4</u> gal.

@ <u>3</u> well volumes	@ <u> </u> well volumes	@ <u> </u> well volumes
TEMP. <u>54.9</u> deg. F.	TEMP. <u> </u> deg. F.	TEMP. <u> </u> deg. F.
SP. COND. <u>4750</u> mohms	SP. COND. <u> </u> mohms	SP. COND. <u> </u> mohms
PH <u>6.6</u>	PH <u> </u>	PH <u> </u>
TIME <u>2:50</u>	TIME <u> </u>	TIME <u> </u>
HR/MIN <u> </u>	HR/MIN <u> </u>	HR/MIN <u> </u>
PURGE VOL. <u>20.7</u> gal.	PURGE VOL. <u> </u> gal.	PURGE VOL. <u> </u> gal.

REMARKS/OBSERVATIONS: AFTER 4 gallons pump motor shut down - bearings are gone. Bought new motor, reconnected, started 1st purge over @ 2:09.

TIME SAMPLED: 1130 DATE: 5/25/94

QA/QC? Y/N MS? MSD? FIELD BLANK? *

DOH SPLIT? Y/N VOA? LCIC'S? OTHER? **

WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse

**DESCRIBE SPLIT: whole sample to DOH

PERSON/S PURGING Yore

PERSON/S SAMPLING More (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/FURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW ~~44~~ 9/30 DATE 6/8/94

FIELD DATA TIME: START 9:20 END 1:00

WEATHER NOTES: RAIN

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: ~~27.6~~ 27.6 ft. WATER DEPTH: Top of well 12.1 ft.

WELL VOLUME: 2.5 gal. TOTAL VOLUME FURGED 13.0 gal.

SAMPLE FURGE DATA:

@initial <u>✓</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>52.0</u> deg. F.	TEMP. <u>51.5</u> deg. F.	TEMP. <u>51.2</u> deg. F.
SP. COND. <u>800</u> mohms	SP. COND. <u>300</u> mohms	SP. COND. <u>800</u> mohms
pH <u>7.5</u>	pH <u>7.6</u>	pH <u>7.5</u>
TIME <u>9:30</u>	TIME <u>9:41</u>	TIME <u>9:51</u>
HR/MIN	HR/MIN	HR/MIN
FURGE VOL. gal.	FURGE VOL. <u>2.5</u> gal.	FURGE VOL. <u>5.0</u> gal.

@ <u>3.0</u> well volumes	@ <u>4</u> well volumes	@ <u> </u> well volumes
TEMP. <u>51.7</u> deg. F.	TEMP. <u>51.7</u> deg. F.	TEMP. <u> </u> deg. F.
SP. COND. <u>800</u> mohms	SP. COND. <u>800</u> mohms	SP. COND. <u> </u> mohms
pH <u>7.4</u>	pH <u>7.3</u>	pH <u> </u>
TIME <u>9:47</u>	TIME <u>9:57</u>	TIME <u> </u>
HR/MIN	HR/MIN	HR/MIN
FURGE VOL. <u>7.5</u> gal.	FURGE VOL. <u>10.0</u> gal.	FURGE VOL. <u> </u> gal.

REMARKS/OBSERVATIONS Mosquitos

TIME SAMPLED: 0930 DATE: 6/8/94

QA/QC? Y/N MS? MSD? FIELD BLANK? *

DOH SPLIT? Y/N VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: Whole sample to DOH

PERSON/S FURGING C. Johnson M. Luyt R. M. Mow

PERSON/S SAMPLING Same (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW ~~5222~~ 5222 DATE 6/8/94

FIELD DATA TIME: START 10:00 END 11:45

WEATHER NOTES: overcast

VOA LEVEL: ambient 0 headspace ()

WELL DEPTH: 29.4 ft. WATER DEPTH: Top of well 12.4 ft.

WELL VOLUME: 16.3 gal. TOTAL VOLUME PURGED 52 gal.

SAMPLE PURGE DATA:

@initial <u>~</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>51.9</u> deg. F.	TEMP. <u>54.4</u> deg. F.	TEMP. <u>54.7</u> deg. F.
SP. COND. <u>1050</u> mohms	SP. COND. <u>3700</u> mohms	SP. COND. <u>3900</u> mohms
pH <u>8.5</u>	pH <u>7.3</u>	pH <u>7.0</u>
TIME <u>10:30</u>	TIME <u>10:50</u>	TIME <u>11:11</u>
HR/MIN <u>25</u>	HR/MIN <u>10</u>	HR/MIN <u>11</u>
PURGE VOL. <u>48.9</u> gal.	PURGE VOL. <u>16.3</u> gal.	PURGE VOL. <u>32.6</u> gal.

@ <u>3</u> well volumes	@ <u>4</u> well volumes	@ <u>5</u> well volumes
TEMP. <u>56.8</u> deg. F.	TEMP. <u>57.1</u> deg. F.	TEMP. <u>57.1</u> deg. F.
SP. COND. <u>3900</u> mohms	SP. COND. <u>3900</u> mohms	SP. COND. <u>3900</u> mohms
pH <u>7.1</u>	pH <u>7.1</u>	pH <u>7.1</u>
TIME <u>11:36</u>	TIME <u>11:36</u>	TIME <u>11:36</u>
HR/MIN <u>25</u>	HR/MIN <u>11</u>	HR/MIN <u>11</u>
PURGE VOL. <u>48.9</u> gal.	PURGE VOL. <u>16.3</u> gal.	PURGE VOL. <u>16.3</u> gal.

REMARKS/OBSERVATIONS Water black @ initial, turbid
getting darker in well - very black 1st vol
H2S? High

TIME SAMPLED: 1010 DATE: 6/8/94

QA/QC? Y/N MS? MSD? FIELD BLANK? *

DOH SPLIT? Y/N VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to DOH

PERSON/S PURGING C. Salinas M. Long H. H.

PERSON/S SAMPLING Same (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 3251 DATE 6/7

FIELD DATA TIME: START 0920 END 1000

WEATHER NOTES: Sunny 50% humid 74°

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 36.9 ft. WATER DEPTH: Top of well 11.2 ft.

WELL VOLUME: 4.2 gal. TOTAL VOLUME PURGED 20.0 gal.

SAMPLE PURGE DATA:

@initial <u>0</u> gal.	@ <u>1</u> well volume(s)	@ <u>2</u> well volumes
TEMP. <u>55.0</u> deg. F.	TEMP. <u>54.4</u> deg. F.	TEMP. <u>54.6</u> deg. F.
SP. COND. <u>1500</u> mohms	SP. COND. <u>2500</u> mohms	SP. COND. <u>2450</u> mohms
pH <u>7.0</u>	*pH <u>7.0</u>	pH <u>7.4</u>
TIME <u>0929</u>	TIME <u>0935</u>	TIME <u>0941</u>
HR/MIN <u>6</u>	HR/MIN <u>6</u>	HR/MIN <u>6</u>
PURGE VOL. <u>0</u> gal.	PURGE VOL. <u>4.2</u> gal.	PURGE VOL. <u>8.4</u> gal.

@ <u>3</u> well volumes	@ <u>4</u> well volumes	@ <u> </u> well volumes
TEMP. <u>54.6</u> deg. F.	TEMP. <u>54.9</u> deg. F.	TEMP. <u> </u> deg. F.
SP. COND. <u>2500</u> mohms	SP. COND. <u>2500</u> mohms	SP. COND. <u> </u> mohms
pH <u>7.2</u>	pH <u>7.2</u>	pH <u> </u>
TIME <u>0947</u>	TIME <u>0953</u>	TIME <u> </u>
HR/MIN <u>6</u>	HR/MIN <u>6</u>	HR/MIN <u> </u>
PURGE VOL. <u>12.6</u> gal.	PURGE VOL. <u>16.8</u> gal.	PURGE VOL. <u> </u> gal.

REMARKS/OBSERVATIONS full 1' 2" C.A.R.A. mentioned possible well in 1034 (9/8/94) st. down 1' go 1.01C.

* PH meter off (dragg.)

TIME SAMPLED: 1035 DATE: 6/8/94

QA/QC? Y/N: (N) MS? MSD? FIELD BLANK? *

DOH SPLIT? (N) VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to DOH

PERSON/S PURGING M. Doyle & John M. Malone

PERSON/S SAMPLING Same (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION mw 10210C DATE 6/7/94

FIELD DATA

TIME: START 10:32 END 12:20

WEATHER NOTES: hazy sun ~ 79°

VOA LEVEL: ambient 8 headspace 0

WELL DEPTH: 84 ft. WATER DEPTH: Top of well 12.2 ft.

WELL VOLUME: 11.7 gal. TOTAL VOLUME PURGED 36 gal.

SAMPLE PURGE DATA:

@initial ~ gal.
TEMP. 56.5 deg. F.
SP. COND. 4500 mohms
PH 7.2
TIME 10:32
HR/MIN 32
PURGE VOL. ~ gal.

@ 1 well volume(s)
TEMP. 56.7 deg. F.
SP. COND. 4500 mohms
PH 7.2
TIME 11:04
HR/MIN 32
PURGE VOL. 11.7 gal.

@ 2 well volumes
TEMP. 57.7 deg. F.
SP. COND. 4500 mohms
PH 7.1
TIME 11:40
HR/MIN 36
PURGE VOL. 23.4 gal.

@ 3 well volumes
TEMP. 57.8 deg. F.
SP. COND. 4500 mohms
PH 7.2
TIME 12:16
HR/MIN 36
PURGE VOL. 35.1 gal.

@ well volumes
TEMP. deg. F.
SP. COND. mohms
PH
TIME
HR/MIN
PURGE VOL. gal.

@ well volumes
TEMP. deg. F.
SP. COND. mohms
PH
TIME
HR/MIN
PURGE VOL. gal.

REMARKS/OBSERVATIONS

TIME SAMPLED: 1050 DATE: 6/9/94

QA/QC? Y/N: MS? MSD? FIELD BLANK? *

DOH SPLIT? Y/N: VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: Whole sample to DOH

PERSON/S PURGING C. S. Jones

PERSON/S SAMPLING Same (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 10310A DATE 6/13/94

FIELD DATA TIME: START 10:00 END 7/12/94 @ 4:15

WEATHER NOTES: _____

VOA LEVEL: ambient 0 headspace 0

WELL DEPTH: 216 ft. WATER DEPTH: Top of well 8.25 ft.

WELL VOLUME: 33.8 gal. TOTAL VOLUME PURGED on 7/12 purge gal.
42 gallons

SAMPLE PURGE DATA:

@ <u>initial</u> gal.	@ <u>7/12/94</u> well volume(s)	@ <u>7/12/94</u> well volumes
TEMP. <u>56.2</u> deg. F.	TEMP. <u>67.8</u> deg. F.	TEMP. _____ deg. F.
SP. COND. <u>+5000</u> mohms	SP. COND. <u>+5000</u> mohms	SP. COND. _____ mohms
pH <u>7.3</u>	pH <u>7.5</u>	pH _____
TIME <u>10:36</u>	TIME <u>11:03</u>	TIME _____
HR/MIN <u>10:36</u>	HR/MIN _____	HR/MIN _____
PURGE VOL. _____ gal.	PURGE VOL. <u>33.9</u> gal.	PURGE VOL. <u>67.6</u> gal.

@ _____ well volumes	@ _____ well volumes	@ _____ well volumes
TEMP. _____ deg. F.	TEMP. _____ deg. F.	TEMP. _____ deg. F.
SP. COND. _____ mohms	SP. COND. _____ mohms	SP. COND. _____ mohms
pH _____	pH _____	pH _____
TIME _____	TIME _____	TIME _____
HR/MIN _____	HR/MIN _____	HR/MIN _____
PURGE VOL. _____ gal.	PURGE VOL. _____ gal.	PURGE VOL. _____ gal.

REMARKS/OBSERVATIONS W/ GROUNDFOE - 1st time set up - easy
start ben set warm for 15 mins @ 60
NYS DOH Moving next to wells - Problem w/ ben set ~
15 gallons
DID not sample until for pump/gas set &
Try AGAIN.

TIME SAMPLED: 1510 DATE: 7/13/94 * See AH

QA/QC? Y/N: MS? MSD? FIELD BLANK? * NARRATIVE

DOH SPLIT? Y/N: VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: _____

PERSON/S PURGING None

PERSON/S SAMPLING None (OVER)

NARRATIVE -- MW 10210 A -- 1994

This brief will begin with the initial starting date of 6/13/94 and will include actual notes from that date.

The well purging started at 10:00 am 6/13/94. A Grundfos Redi-flo2 had been left insitu from the time of the Grundfos demonstration, a period of approx. 9 months. This pump is a variable speed, electric powered, centrifugal, down hole pump. 6/13/94 " This pump is very good, the rate of purge is infinitely adjustable - you can match recharge rates for maximum recharge. -very easy to set up - 216hz initial start up. @ 175 hz initial continuous flow. I,m just trying to get maximum volume for sampling. I could take it much faster. Continuous laminar flow is nice after 7 gal. I went to 197 hz to keep the flow rate steady, 206 hz @ 8 gal., 250 hz @ 10 gal. - Problem @ 15 gal., no current signal @ BT1 checked gen. set..

Generator kept tripping, checked the initial wiring found a loose wire on the circuit breaker, it was shorting and fried the circuit breaker - replaced it. In the interim a generator was rented from Mead supply, connected it to the Grundfos but it would only pump up to about 100 hz. before it would give a no current signal. It is suspected that this generator was too small. After the big generator was returned to service it was tried again, but this too was unsuccessful. A digital vom was getting a +/- 4 volt swing from the outlet. A call to the Grundfos people and they recommended that a Honda generator be tried due to the fact that they have internal voltage regulators. Region 9 operations provided a XB 5000 it had a volt swing +/- 0.1 volt and had ample amount of power. The Grundfos was connected with no success. The pump was pulled from the hole and the pump and the controller were sent to Grundfos.

On 7/12/94 a tried and true method was used to purge the well this being the Geoguard and hand bailing. The Geoguard with it's dedicated tubing was used to pull the first 20 + gallons until the flow rate slowed to where it wasn't acceptable. At this time hand bailing removed the remainder. The hand bailing was accomplished by attaching a stainless steel bailer to string and lowering it to the bottom of the well the sting was cut and this end was connected to a hose reel placed over the hole, this allowed the next 20 gallons to be removed with relative ease, the total volume removed was 42 gallons. The well volume was 33.8 gallons. The well was allowed to recover until 3:00 pm 7/14 at this time it was sampled.

The same method as above was used for sampling.. The stainless steel bailer is a must in this situation due to its weight and the given depth of the well. If there were an instance of cross contamination it should be confirmed by using a crew of people and only bailing the well to purge. A bailer rinse should then be utilized to eliminate or implicate the bailer as the cause of the contamination.

It is very difficult to get the purge volume from this well given its depth. Alternative methods should continue to be

investigated. To date the two methods that do work are the hand bailing, which is labor intensive, or the method of packing the well at a given depth and take the three volumes at this depth. Hand bailing will dry this well before three volumes due to the slow rate of recovery. Packing the well allows less volume but it is at a depth that the slow pumping rate will allow recovery of the well to this smaller volume.

Sam Mow
7/14/94

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION 111W 102-10 B DATE 6/13/94FIELD DATA TIME: START 11:00 END 3:15WEATHER NOTES: ptly sunny/bcast / some RainVOA LEVEL: ambient 0 headspace 0WELL DEPTH: 139 ft. WATER DEPTH: Top of well 12.47 ft.WELL VOLUME: 20.6 gal. TOTAL VOLUME PURGED 65 gal.

SAMPLE PURGE DATA:

@initial	gal.	@ 1 well volume(s)	@ 2 well volumes
TEMP. <u>75.9</u>	deg. F.	TEMP. <u>60.2</u>	TEMP. <u>59.3</u>
SP. COND. <u>+5000</u>	mohms	SP. COND. <u>+5000</u>	SP. COND. <u>+5000</u>
pH <u>11.5</u>		pH <u>7.5</u>	pH <u>7.3</u>
TIME <u>11:25</u>		TIME <u>12:34</u>	TIME <u>2:00</u>
HR/MIN		HR/MIN	HR/MIN
PURGE VOL.	gal.	PURGE VOL.	PURGE VOL. <u>41.2</u>

@ 3 well volumes	@ well volumes	@ well volumes
TEMP. <u>60.2</u>	TEMP.	TEMP.
SP. COND. <u>+5000</u>	SP. COND.	SP. COND.
pH <u>7.5</u>	pH	pH
TIME <u>3:05</u>	TIME	TIME
HR/MIN	HR/MIN	HR/MIN
PURGE VOL. <u>61.8</u>	PURGE VOL.	PURGE VOL.

REMARKS/OBSERVATIONS Ran out of Air after 1-12:40TIME SAMPLED: 0945 DATE: 6/15/94QA/QC? (Y/N): MS? MSD? FIELD BLANK? *

DOH SPLIT? Y/N: VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to H4500HPERSON/S PURGING NonePERSON/S SAMPLING None (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/FURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 10135 DATE 6/21/94FIELD DATA TIME: START 9:05 AM END 10:30WEATHER NOTES: 85°F, south wind windy 10-15VOA LEVEL: ambient 0 headspace 75 ppm @ 2 minsWELL DEPTH: 40 ft. WATER DEPTH: Top of well 17.35 ft.WELL VOLUME: 3.7 gal. TOTAL VOLUME FURGED 12.0 gal.

SAMPLE FURGE DATA:

@ initial ~ gal.
 TEMP. 64.9 deg. F.
 SP. COND. 2200 mohms
 pH 6.6
 TIME 9:17
 HR/MIN ~
 PURGE VOL. ~ gal.

@ 1 well volume(s)
 TEMP. 59.8 deg. F.
 SP. COND. 2250 mohms
 pH 6.5
 TIME 9:30 AM
 HR/MIN 0:13
 PURGE VOL. 3.7 gal.

@ 2 well volumes
 TEMP. 63.2 deg. F.
 SP. COND. 2200 mohms
 pH 6.4
 TIME 9:50
 HR/MIN 0:33
 PURGE VOL. 7.4 gal.

@ 3 well volumes
 TEMP. 63.9 deg. F.
 SP. COND. 1900 mohms
 pH 6.5
 TIME 10:26
 HR/MIN 1:09
 PURGE VOL. 11.1 gal.

@ ~ well volumes
 TEMP. ~ deg. F.
 SP. COND. ~ mohms
 pH ~
 TIME ~
 HR/MIN ~
 PURGE VOL. ~ gal.

@ ~ well volumes
 TEMP. ~ deg. F.
 SP. COND. ~ mohms
 pH ~
 TIME ~
 HR/MIN ~
 PURGE VOL. ~ gal.

REMARKS/OBSERVATIONS First vol. clear water 35 ppm gas
5 gal @ 9:30 discharge upon green 1 well
2 min @ 9:30 well Headspace
well 75 ppm 0.0 working level
Total 12 gallons removed. Stop pumping at 10:30 AM.

TIME SAMPLED: 1255 DATE: 6/22/94QA/QC? Y/N: MS? MSD? FIELD BLANK? *DOH SPLIT? Y/N: VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to DOHPERSON/S FURGING Wellness / MoorePERSON/S SAMPLING Saline (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 10225A DATE 6/20/94

FIELD DATA TIME: START 10:10 AM END 4:30 6/21/94

WEATHER NOTES: 78°F, wind from east, light, clear sky 84.0° 10:02 AM

VOA LEVEL: ambient ○ headspace ○

WELL DEPTH: 213 ft. WATER DEPTH: Top of well 12.87 ft.

WELL VOLUME: 32.6 gal. TOTAL VOLUME PURGED 65 gal.

SAMPLE PURGE DATA: $Q = 5 \text{ gal in first 29 minutes @ } 10:32$
 $10 \text{ gal in first 55 minutes @ } 10:58$
 $15 \text{ gal in 94 minutes @ } 11:37$
 $20 \text{ gal @ } 11:41$
 $25 \text{ gal @ } 11:48$
 $30 \text{ gal @ } 11:54$
 $35 \text{ gal @ } 12:01$
 $40 \text{ gal @ } 12:08$
 $45 \text{ gal @ } 12:15$
 $50 \text{ gal @ } 12:22$
 $55 \text{ gal @ } 12:29$

@ initial <u>—</u> gal.	@ <u>1</u> well volume(s)	@ <u>35</u> well volumes
TEMP. <u>78.1</u> deg. F.	TEMP. <u>62.6</u> deg. F.	TEMP. <u>45.0</u> deg. F.
SP. COND. <u>>5000</u> mohms	SP. COND. <u>>5000</u> mohms	SP. COND. <u>506</u> mohms
pH <u>6.2</u>	pH <u>6.2</u>	pH <u>5.5</u>
TIME <u>10:03</u>	TIME <u>3:06 PM 6/21</u>	TIME <u>4:28</u>
HR/MIN <u>0:0</u>	HR/MIN <u>—</u>	HR/MIN <u>—</u>
PURGE VOL. <u>—</u> gal.	PURGE VOL. <u>32.6</u> gal.	PURGE VOL. <u>65.2</u> gal.

@ <u>—</u> well volumes	@ <u>—</u> well volumes	@ <u>—</u> well volumes
TEMP. <u>—</u> deg. F.	TEMP. <u>—</u> deg. F.	TEMP. <u>—</u> deg. F.
SP. COND. <u>—</u> mohms	SP. COND. <u>—</u> mohms	SP. COND. <u>—</u> mohms
pH <u>—</u>	pH <u>—</u>	pH <u>—</u>
TIME <u>—</u>	TIME <u>—</u>	TIME <u>—</u>
HR/MIN <u>—</u>	HR/MIN <u>—</u>	HR/MIN <u>—</u>
PURGE VOL. <u>97.8</u> gal.	PURGE VOL. <u>—</u> gal.	PURGE VOL. <u>—</u> gal.

REMARKS/OBSERVATIONS Berquand disconnected @ 12:45 to facilitate purging
well 10225B. Berquand is reconnected @ 12:58 PM. Stopped purging @ 1:30 - malfunction,
incoheres blowing air and no water. Nothing coming out of 10225A, either
in or water, all is going through 10225B. Start purging again on 6/21 @ 3:40 PM.
We could only get a total of 55 gallons out of this well.

TIME SAMPLED: 11:40 DATE: 6/22/94

QA/QC? Y/N MS? MSD? FIELD BLANK? *

DQH SPLIT? Y/N VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse.

**DESCRIBE SPLIT: whole sample to DQH

PERSON/S PURGING Maurice Moore, Wil Wellings

PERSON/S SAMPLING Wellings / Moore (OVER)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GROUNDWATER FIELD SAMPLE/PURGE RECORD

LOVE CANAL LONG TERM MONITORING PROGRAM

STATION # / LOCATION MW 10225BDATE 6/20/94 - 6/21

FIELD DATA

TIME: START 10:20 AM END 2:22 @ 6/21WEATHER NOTES: Stratocirrus 30% cover, 83°F, light winds from eastVOA LEVEL: ambient 0 headspace 0WELL DEPTH: 139 ft. WATER DEPTH: Top of well 12.18 ft.WELL VOLUME: 20.7 gal. TOTAL VOLUME PURGED 63 gal.

SAMPLE PURGE DATA:

5 gal in 35 minutes @ 10:57
 10 gal in 85 minutes @ 11:47
 15 gal in 138 min @ 12:20 PM

20 gal @ 11:27
 25 gal @ 11:04 6/21
 30 gal @ 11:38
 35 gal @ 12:05

@ initial gal.

@ well volume(s)

@ well volume(s)

TEMP. 77.3 deg. F.TEMP. 62.9 deg. F.TEMP. 58.1 deg. F.SP. COND. 1800 mohmsSP. COND. +5000 mohmsSP. COND. 75000 mohmsPH 7.2PH 7.2PH 6.7TIME 10:22 AM 6/20TIME @ 11:47 6/21TIME 1:16HR/MIN 0:0

HR/MIN

HR/MIN 1:29

PURGE VOL. gal.

PURGE VOL. 20.7 gal.PURGE VOL. 41.4 gal.@ 3 well volumes

@ well volumes

@ well volumes

TEMP. 66.1 deg. F.

TEMP. deg. F.

TEMP. deg. F.

SP. COND. +5000 mohms

SP. COND. mohms

SP. COND. mohms

PH 7.2 (recalibrated pH meter)

PH

PH

TIME 2:36 PM

TIME

TIME

HR/MIN 1:07

HR/MIN

HR/MIN

PURGE VOL. 62.1 gal.

PURGE VOL. gal.

PURGE VOL. gal.

REMARKS/OBSERVATIONS @ 12:46 PM the beeguard was disconnected and reconnected to improve flow. @ 1:16 PM the beeguard was disconnected so as to concentrate on 10225A. @ 3:00 PM the beeguard was disconnected which is malfunctioning blowing air only. @ 11:47 NEXT DAY 1st volume (6/21) @ 1:16 PM 2nd well volume @ 2:36 PM 3rd well volume

TIME SAMPLED: 11:20 DATE: 6/22/94

QA/QC? Y/N? MS? MSD? FIELD BLANK? *

DOH SPLIT? Y/N? VOA? LCIC'S? OTHER? **

*WHAT TYPE OF BLANK? glove rinse, pump rinse, tubing rinse, D.I. H2O, bailer rinse, ATTA, I. H.V. S.M. H.V.

**DESCRIBE SPLIT: whole sample to DOHPERSON/S PURGING Welling / MoorePERSON/S SAMPLING Welling / Moore (OVER)

INVOICE

VOSS TECHNOLOGIES, INC.
4227 CENTERGATE
SAN ANTONIO, TX 78217

INVOICE NO:

52005

ACCOUNT CODE:

Z-NY-RM. 208

SOLD TO:

NEW YORK STATE DEPT
OF ENVIRO CONSERVATION
50 WOLF RD ROOM 208
ALBANY, NY 12233-7010

SHIP TO:

NEW YORK STATE DEPT
OF ENVIRO CONSERVATION
95TH & REED AVE
NIAGARA FALLS, NY 14304

DATE	SHIP VIA	F.O.B.	TERMS
04/29/94	UPS-GROUND	Origin	Net 30
PURCHASE ORDER NUMBER	ORDER DATE	SALES PERSON	OUR ORDER NUMBER
CV111	04/29/94	RICHARD ARMSTRONG	

QTY. ORDERED	QTY. SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
	1	91946-S	POLY. BAILER		
	1	91946-SW	POLY. WEIGHTED BAILER		
Invoice subtotal					
Freight charges					
Invoice total					

Rec'd 5/10/94



New York State Department of Environmental Conservation

Maurice

MEMORANDUM

TO: Jack Ryan, Chief, Bureau of Technical Services and Research
 FROM: Gerald J. Rider, Jr., Chief, Operation, Maintenance & Support Section -
 SUBJECT: THRU: Earl Barcomb, Director, Bureau of Hazardous Site Control *JSF - CHB*
 1994 Love Canal Long Term Monitoring Program

DATE:

MAY 30 1994

The Department would like DOH to provide analytical services for monitoring activities at the Love Canal Site during this year's long term monitoring program. Following the same format as last year the program approximates the number of wells that were sampled in 1993.

The proposed sampling schedule for the Long Term Monitoring efforts is as follows:

<u>WEEK OF</u>	<u>NUMBER OF SAMPLES</u>
5/8	8 + 1 set field blanks - all parameters, ms/msd (1 well) & Trip Blanks
5/15	8 + 1 SET F.B.s - all parameters, ms/msd (1 well) & T.B.s.
5/22	8 + 1 set F.B.s - voa's only, ms/msd (1 well) & T.B.s.
6/5	6 + 1 set F.B.s - all parameters, ms/msd (1 well) & T.B.s.
6/12	2 + 1 set F.B.s - voa's only, ms/msd (1 well) & T.B.s.
6/19	4 + 1 set F.B.s - voa's only, ms/msd (1 well) & T.B.s.

The last week of sampling will contain wells known to have contamination of low to moderate ppb of halogenated and non-halogenated organics. "Hot" samples will be indicated on sample labels and the request for analysis forms.

except for F.B.s

Analysis will be for Volatiles, B.N.A.'s, and Pesticides. It is important for the DOH lab to report all hits, including tentatively identified compounds, (T.I.C.'s). All summary reporting must be in standard ASP format, including best estimate values for compounds detected at or below the quantification limits ("J" values). During 1992 and 1993, examination of the data revealed that in many cases results were reported in the parts per trillion, (ppt.) range. As was the case last year we would like the DOH to report all values.

Samples will be shipped by private courier on Thursday of each week, or transported by DEC personnel for arrival at Wadsworth Labs by mid-morning on Friday.

The Department requests that DOH ship sample bottles as last year. The first two weeks supply of bottles should be shipped before the week of May 8th and each week thereafter. Bottles should be shipped to:

Mr. Maurice Moore
Love Canal Treatment Facility
95th and Read Ave.
Niagara Falls, NY 14304

The analytical services provided by the DOH and the coordination effort last year were very satisfactory.

If you have any questions please contact myself or Ben Lored, of my staff, at 7-0927.

cc: J. Rankin
D. Foster
B. Sadowski
W. Welling
M. Moore
B. Pine
B. Lored



New York State Department of Environmental Conservation

MEMORANDUM

TO: John Rankin, Chief, Quality Assurance Section
 FROM: Gerald J. Rider, Jr., Chief, Operation and Maintenance Section
 SUBJECT: Sample Analysis Assistance at Love Canal Site (#9-32-020)

DATE: JUN 15 1993

The NYSDEC Mobile laboratory has performed the analytical work in the past as part of the ongoing Long-Term Monitoring Program for the Love Canal Site. We have had great success! NYSDOH is now performing the work on a regular basis. We would like to perform some comparison work with the mobile laboratory during this year's sampling program by splitting some samples with the DOH lab as part of each week's sampling protocol. The splits are to be analyzed by the mobile laboratory for Volatiles, BNA's and Pesticides. As you will recall, we discussed this action as a result of our 1992 long-term monitoring program analysis.

Samples will be shipped on Thursday of each week for arrival at the Mobile Laboratory by mid-morning on Friday.

Week of	Number of Split Samples
7/5	1
7/12	1
7/19	1
7/26	2
8/2	1
8/9	1

Let me know if you foresee a problem with the mobile laboratory absorbing this work. If you have any questions please contact myself or Ronnie Lee of my staff at 7-0927.

cc: A. Rockmore
 R. Lee
 B. Loreda
 B. Pine
~~M. Moore~~
 D. Foster
 B. Sadowski
 a:ranknsam.wp:GR:et



New York State Department of Environmental Conservation

Maurice

MEMORANDUM

TO: Jack Ryan, Chief, Bureau of Technical Services and Research
 FROM: Gerald J. Rider, Jr., Chief, Bureau of Construction Services
 SUBJECT: 1993 Love Canal Long Term Monitoring Program

DATE: JUN 16 1993

Gerald J. Rider

The Department would like the DOH to provide analytical services for the monitoring activities at the Love Canal during this year's long term monitoring sampling program. This year's monitoring program has undergone a review and will not be as extensive as the 1992 sampling program. As a result, the number of the wells that will be sampled has been reduced by a third.

The proposed sampling schedule for the 1993 Long Term Monitoring for the Love Canal is as follows:

Week of	Number of Samples
7/5	8 + Field, Trip and Method Blanks
7/12	8 "
7/19	8 "
7/26	6 "
8/2	4 "
8/9	4 "

As was done last year, the last week of sampling will include wells known to have contamination ranging from the low ppb to moderate ppm levels of halogenated and non-halogenated organics. "Hot" samples will be indicated on the sample label.

Analysis will be for Volatiles, BNA's and Pesticides. It is important for the DOH lab to report all hits, including tentatively identified compounds (T.I.C.'s). All summary reporting must be in standard ASP format, including best estimate values for compounds detected at or below the quantitation limit ("J" values). With respect to the last point, during last year's sample analysis, examination of the 1992 long term monitoring data revealed that in many instances results reported in the parts per trillion (ppt) range. There are differing schools of thought regarding the reliability of results at such low levels, which also casts some doubt as to whether the contaminant in question is indeed present in the sample. The DOH should be consulted to determine if the standard practice has been to report such levels as "ND's". If so, we may want the DOH to follow that practice during this year's sampling.

Samples will be shipped by private courier on Thursday of each week, or transported by DEC personnel for arrival at Wadsworth Labs by mid-morning on Friday.

The Department requests that DOH ship all the samples bottles that will be required for the entire sampling program before sampling begins, if possible. Bottles should be shipped to:

Mr. Maurice Moore
Love Canal Treatment Plant
9820 Colvin Boulevard
Niagara Falls, NY 14304

The analytical services provided by DOH during the 1992 long term monitoring program were very satisfactory and we believe that DOH will be able to continue to perform the analytical work as part of the ongoing long term monitoring program for the Love Canal site with great success.

If you have any questions please contact myself or Ronnie Lee of my staff at 7-0927.

cc: A. Rockmore
R. Lee
B. Loreda
D. Foster
M. Moore
J. Rankin

a:ltmdoh93.wp:RL:et

To: Jack Ryan, Chief, Bureau Of Technical Services And Research
From: Gerald Rider Jr., Chief, O&M Section, Bur. Haz. Site Control
Subject: 1994 Love Canal Long Term Monitoring Program
Date: Mar. 21, 1994

The Department would like the DOH to provide analytical services for the monitoring activities at the Love Canal during this year's long term monitoring sampling program. Following the same format as last year the program approximates the number of wells that were sampled in 1993.

The proposed sampling schedule for the Long Term Monitoring for the Love Canal is as follows:

WEEK OF:	NUMBER OF SAMPLES
5/8 1-2.3 1 QT 2 VOAS	8 + 1 set field blanks - all parameters, ms/msd (1 well) & Trip Blanks.
5/15	8 + 1 set F.B.s - all params. ms/msd (1 well) & T.B.s.
5/22	8 + 1 set F.B.s - voa's only ms/msd (1 well) & T.B.s.
6/5	6 + 1 set F.B.s - all params. ms/msd (1 well) & T.B.s.
6/12	2 + 1 set F.B.s - voa's only ms/msd (1 well) & T.B.s.
6/19	4 + 1 set F.B.s - voa's only ms/msd (1 well) & T.B.s.

As in the years past the last week of sampling will contain wells known to have contamination of low to moderate ppb of halogenated and non-halogenated organics. "Hot" samples will be indicated on sample labels and request for analysis forms.

Analysis will be for Volatiles, B.N.A.'s, and Pesticides. It is important for the DOH lab to report all hits, including tentatively identified compounds, (T.I.C.'s). All summary reporting must be in standard ASP format, including best estimate values for compounds detected at or below the quantification limits ("J" values). During 1992 and 1993, examination of the data revealed that in many cases results were reported in the parts per trillion, (ppt.) range. As was the case last year we would like the DOH to report all values.

Samples will be shipped by private courier on Thursday of each week, or transported by DEC personnel for arrival at Wadsworth Labs by mid-morning on Friday.

The Department requests that DOH ship sample bottles as last year. The first two weeks bottles shipped before the week of May 8 th.. The following weeks sample bottle shipment will be requested the week before sampling. Bottles should be shipped to:

Mr. Maurice Moore
Love Canal Treatment Facility
95 th. and Read Ave.
Niagara Falls, NY 14304

The analytical services provided by the DOH and the coordination effort last year was very satisfactory and we feel DOH will be able to continue to perform long term analytical work as part of the continued long term monitoring program for the Love Canal site with continued success.

If you have any questions please contact myself or Ben Laredo of my staff at 7-0927.

cc: E. Barcome
M. Moore
B. Laredo
J. Rankin
W. Welling
D. Foster
B. Sadowski