L08900501--Kane County
Aurora Municipal Landfill
ILD 980606248

CERCLA
Screening Site Inspection Report

Illinois Environmental Protection Agency
P.O. Box 19276
Springfield, IL 62794-9276

EPA Region 5 Records Ctr.

922886

LIST OF ILLUSTRATIONS

Figure	Page
2-1 SITE LOCATION	2-2
3-1 SITE FEATURES	3-3
3-2 SAMPLING LOCATIONS	3-5

TABLE OF CONTENTS

Section		Page
1	INTRODUCTION	1-1
2	SITE BACKGROUND	2-1
2.1	INTRODUCTION	2-1
2.2	SITE DESCRIPTION	2-1
2.3	SITE HISTORY	2-1
3	SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS	3-1
3.1	INTRODUCTION	3-1
3.2	SITE REPRESENTATIVE INTERVIEW	3-1
3.3	RECONNAISSANCE INSPECTION	3-2
3.4	SAMPLING PROCEDURES	3-4
4	ANALYTICAL RESULTS	4-1
4.1	INTRODUCTION	4-1
4.2	~~RESULTS FROM COLLECTED SAMPLES~~ ANALYTICAL RESULTS OF IEPA-COLLECTED SAMPLES	4-1
5	BIBLIOGRAPHY	5-1

Appendix		Page
A	SITE 4-MILE RADIUS MAP	A-1
B	SITE 15-MILE STREAM MAP	B-1
C	U.S. EPA FORM 2070-13	C-1
D	U.S. EPA IMMEDIATE REMOVAL ACTION CHECKSHEET	D-1
E	CHEMICAL ANALYSIS DATA OF IEPA COLLECTED SAMPLES	E-1
F	IEPA SITE PHOTOGRAPHS	F-1

LIST OF TABLES

Table	Page
4-1 Results of Chemical Analysis of IEPA Collected Samples.....	4-2

1. INTRODUCTION

Illinois Environmental Protection Agency's Pre-Remedial Unit was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Aurora Municipal Landfill.

The site was initially discovered by the U.S. EPA. The site was evaluated in the form of a Preliminary Assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Kenneth W. Corkill of the IEPA and is dated December 10, 1987. IEPA Pre-Remedial Unit prepared an SSI workplan of the Aurora Municipal Landfill that was approved by U.S. EPA. The SSI of the Aurora Landfill was conducted on July 12, 1988. The IEPA SSI included an interview with a local resident, a reconnaissance inspection, and the collection of eight samples (five soil and three groundwater).

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

> All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

> The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI (U.S. EPA 1988).

U.S. EPA Region V has also instructed IEPA to identify sites during the SSI that may require removal action to remediate an immediate human health and/or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained from the SSI workplan preparation and a local resident interview.

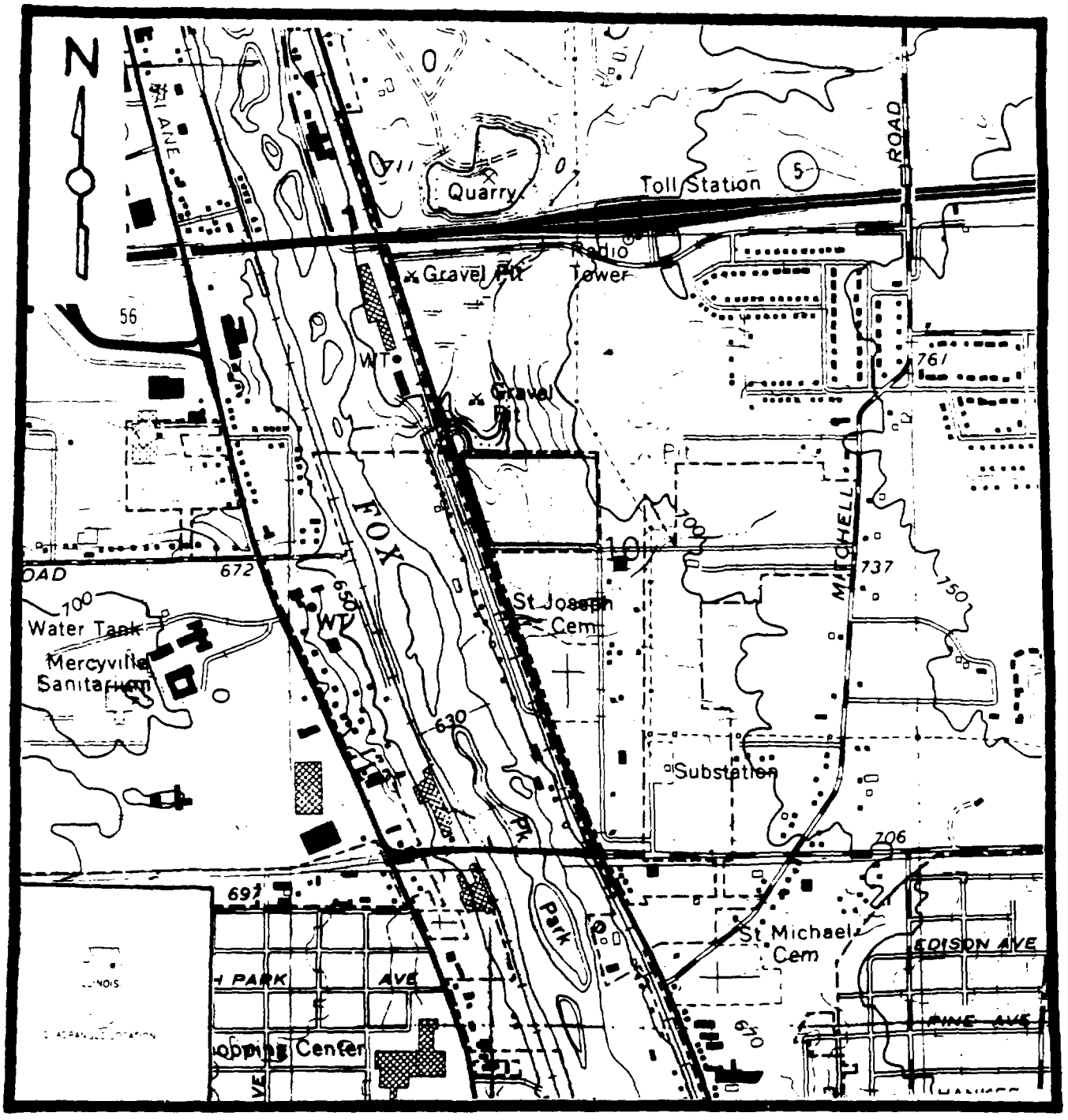
2.2 SITE DESCRIPTION

Aurora Municipal Landfill is a closed and covered landfill that mainly received general municipal refuse, demolition construction debris, and some industrial waste. In addition to the landfill operations, the site conducted open burning at various spots on the site, and operated a Tee-Pee type incinerator.

The site occupies approximately a 20-acre parcel of land north of Aurora, adjacent to the intersection of Illinois Route 25 and Sullivan Road in Kane County (SE 1/4, NW 1/4, Section 10, T.38N.-R.8E., see Figure 2-1). A 4-mile radius map for groundwater and a 15- mile map for surface water is provided in Appendix A and B.

2.3 SITE HISTORY

The property that the Aurora Municipal Landfill occupies is currently owned by the City of Aurora. During the early 1960's, the City of Aurora leased the property to the Fox Valley Disposal Company and requested their assistance in managing the landfill operations.



SOURCE: IEPA, 1988; BASE MAP: USGS AURORA NORTH QUADRANGLE, ILLINOIS 7.5 Minute Series, 1972

Scale

1000 0 1000 2000 FEET

FIGURE 2-1, SITE LOCATION

During January of 1966, the owners of private wells who lived in the close proximity of the site, began complaining about poor water quality and foul odors. Hydrgeologic studies conducted by the Illinois Department of Public Health, indicated the landfill operation was contributing significantly to water degradation in local private wells. After a law suit was filed against the City of Aurora and the Fox Valley Disposal Company, the insurance company for Fox Valley Disposal indicated it would assume all responsibility for cost and damages. On December 2, 1966, Fox Valley Disposal was ordered to pay $88,000 to the persons affected by the landfill contamination. The site continued to operate until it reached filling capacity in the mid 1970's.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the Aurora Municipal Landfill. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. The SSI was conducted in accordance with the U.S. EPA-approved workplan.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Aurora Municipal Landfill is provided in Appendix C. The U.S. EPA Immediate Removal Action Checksheet for the Aurora Municipal Landfill is provided in Appendix D.

3.2 SITE REPRESENTATIVE INTERVIEW

A representative from the City of Aurora or Fox Valley Disposal was not available for an interview but, Non-responsive PII, a resident who lives adjacent to the landfill, agreed to speak with John Morgan of the IEPA during a site reconnaissance inspection May 18, 1988. The purpose of the interview was to gather information about the site's history and the impact the landfill operation has had on the surrounding residents. Non-responsive PII, who has lived across the street from the landfill since its initial opening, claims that several private wells were abandoned in the 1960's due to increasing contamination problems associated with the landfill activity. In addition, he

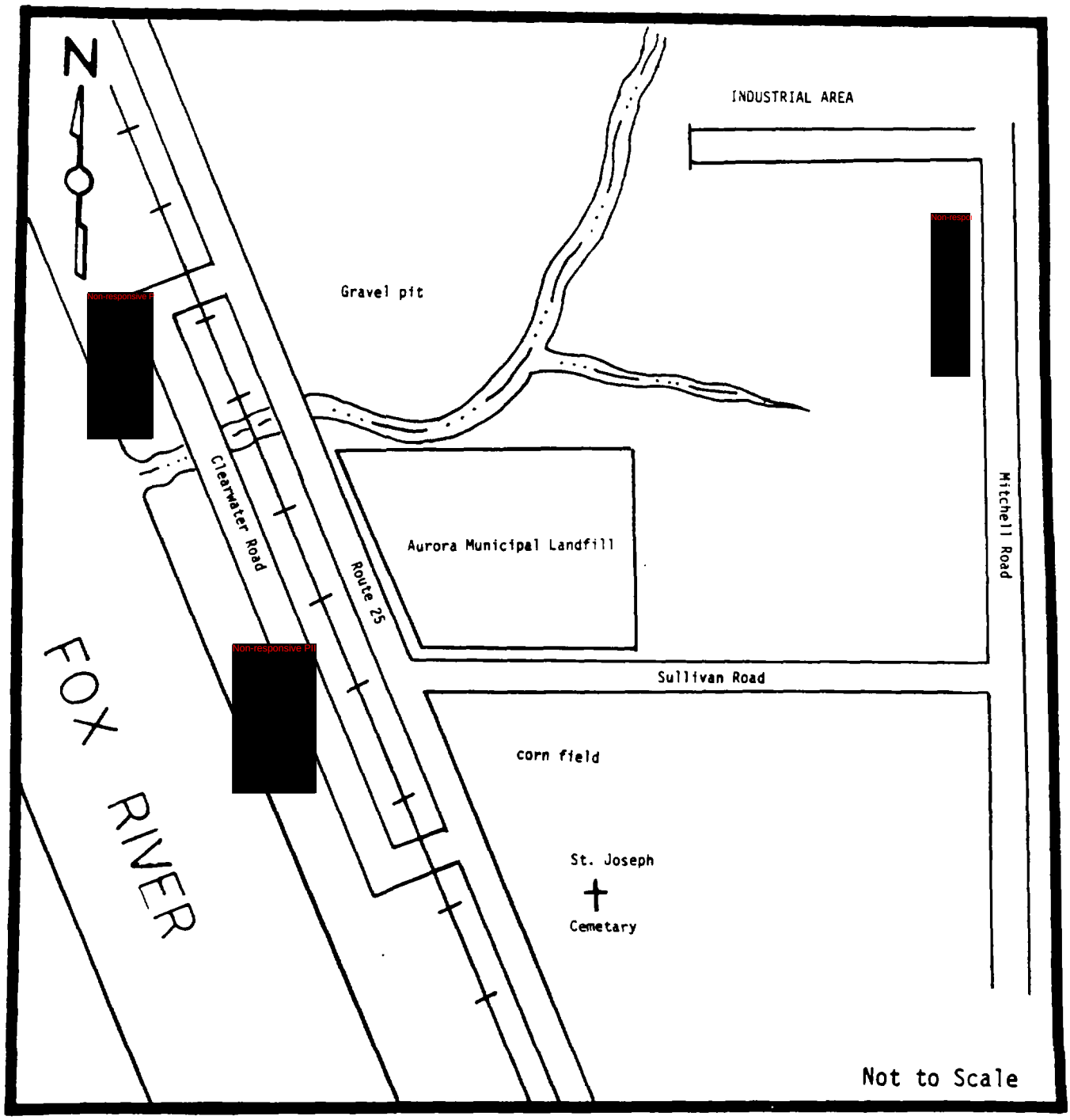
claims that the landfill operator routinely routed ponded leachate liquid towards an adjacent creek that discharges into the Fox River.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, IEPA personnel conducted a reconnaissance inspection at the Aurora Municipal Landfill and surrounding area. The reconnaissance inspection included a walk-through of the site to identify sampling locations and to determine appropriate health and safety requirements. The site reconnaissance inspection began at 9:00 a.m on May 18, 1988. No site representative accompanied the IEPA personnel during the reconnaissance inspection.

Reconnaissance Inspection Observations. The Aurora Municipal Landfill is located on a 20-acre parcel of land, which is covered with light brush and grass. Land use in the area is a combination of residential, agricultural, and light industrial. The site itself resembles a grass covered hill, and the surrounding topography is mainly flat with a gentle slope developing to the west toward the Fox River.

The site is bordered on the north by a small creek and gravel quarry; on the south by Sullivan Road and a corn field; on the west by Illinois Route 25, [redacted], and the Fox Valley River, and on the east by small industry [redacted]. The site perimeter is not fenced and no additional security measures exist to deter site access (see Figure 3-1).



SOURCE: IEPA, 1988

FIGURE 3-1, SITE FEATURES

Surface drainage is towards a small creek that borders the site to the north, and roadside ditches that border the site to the west and south. Drainage from the creek is toward the Fox Valley River approximately 500 feet to the west, and into ditches that parallel Illinois Route 25.

3.4 SAMPLING PROCEDURES

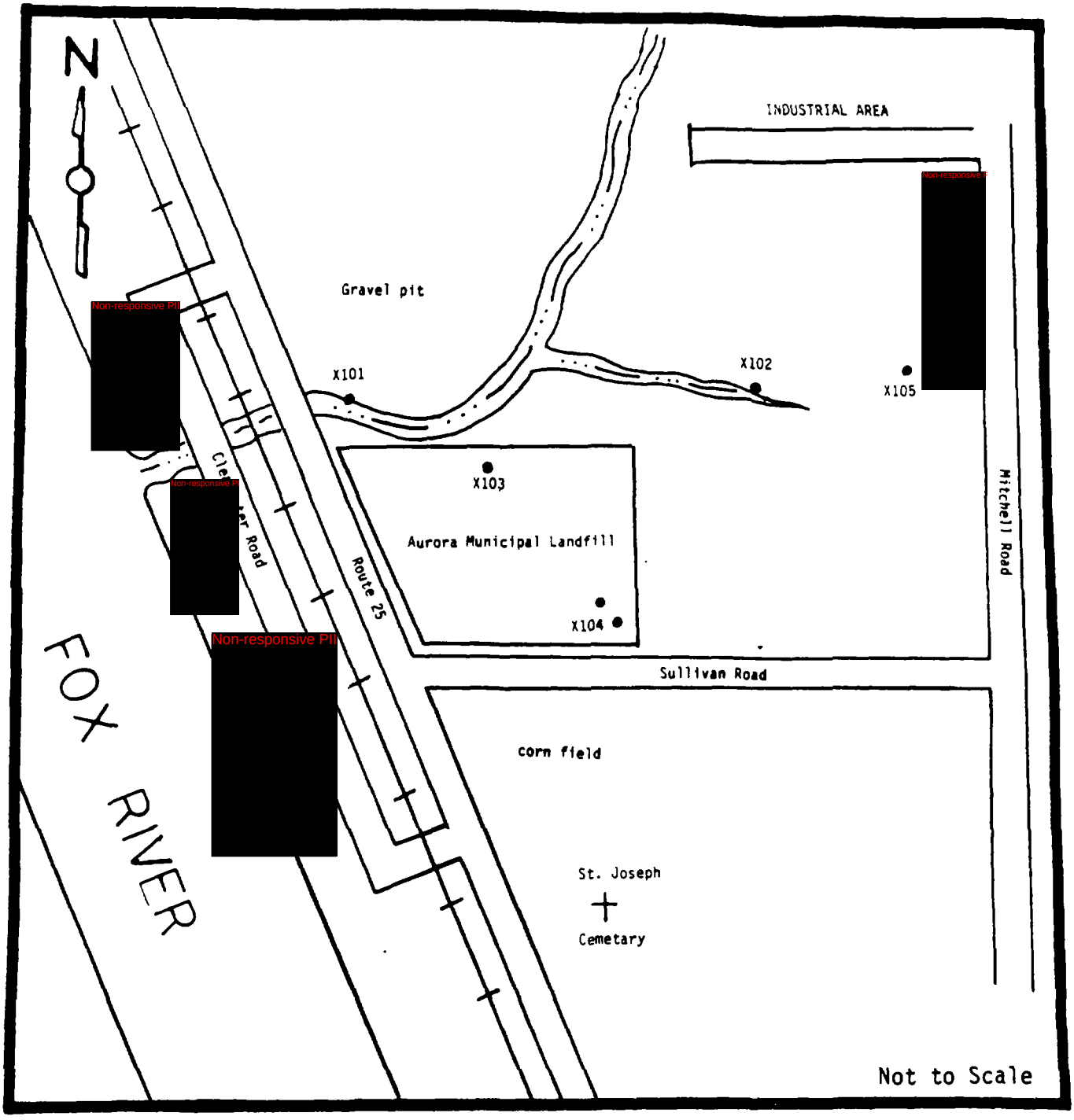
Samples were collected by IEPA personnel to determine levels of U.S. EPA Target Compound List (TCL) compounds. The TCL is provided in Appendix E.

On July 12, 1988, IEPA personnel collected four on-site soil samples, one off-site background soil sample, and three off-site private well groundwater samples (see Figure 3-2 for sampling locations).

Soil Sampling Procedures. Soil sample X101 and X102 were taken from a evaporated creek bed that borders the site to the north. The sample purpose was to detect contamination from site run-off that is potentially entering the Fox River via stream water discharge. X101 is located adjacent to NW corner of the landfill, 50 feet east of Illinois Route 25. X102 was taken as a background sample located a significant distance upstream from the landfill.

Soil sample X103 was collected from a leachate gulley located on-site at the northern portion of the landfill. X104 is a composite sample taken from two currently active leachate seeps located at the southeast perimeter of the site. Background sample X105 was collected from the yard of a private well owner located at [redacted], approximately 1/2 mile east of the landfill. All soil samples were collected with separate decontaminated stainless spoons from a depth of 0 to 6 inches.

Groundwater Sampling Procedures. The three private wells (G201, G202, G203, see Figure 3-2) were sampled to determine if any contaminats were currently migrating off-site via groundwater. All three private well samples



Source:IEPA, 1988

FIGURE 3-2, SAMPLING LOCATIONS

were collected from outdoor water taps after a significant amount of water had been allowed to discharge from the system during a 15 minute time period. All samples were field checked for pH, conductivity, and temperature prior to collection.

Samples G201 was collected from Non-responsive PII, southwest of the landfill adjacent to the Fox River. Sample G202 was collected from the Non-responsive PII [redacted]. Non-responsive PII [redacted] and supplies water to over 200 members. Sample G203 was collected as a background sample located approximately Non-responsive PII [redacted]. The private wells at all three locations sampled were the only source of drinking water available due to the public water supply distribution restrictions. All samples were evidence taped and packaged in accordance with U.S. EPA-required procedures. Soil samples X101, X102, X103, X104, X105, and groundwater samples G201, G202 and G203 were analyzed for TCL compounds at the Applied Research and Development Laboratory in Mt. Vernon.

<u>Decontamination Procedures.</u> Standard Illinois Environmental Protection Agency decontamination procedures were followed prior to the collection of all samples. The procedures included the scrubbing of all equipment (spoon, pans, etc.) with a non-foaming Trisodium Phosphate solution, rinsing with hot tap water, acetone, hot tap water again, and final rinsed with distilled water. All equipment is air dried, then wrapped and stored in heavy duty aluminum foil for transport to the field. Field decontamination procedures include all of the above except the hot tap water rinse.

4. ANALYTICAL RESULTS

4.1 INTRODUCTION

This section includes the analytical results of IEPA-collected samples for TCL compounds.

4.2 ANALYTICAL RESULTS OF IEPA-COLLECTED SAMPLES

Chemical analysis of water samples revealed the following substances from TCL: volatiles, base/neutrals, common laboratory artifacts, and common groundwater constituents. Chemical analysis of soil samples revealed volatiles, base/neutrals, common laboratory artifacts, and common soil constituents. In addition, several tentatively identified unknown compounds were detected in both the water and soil compounds (see Table 4-1 for the summary of groundwater and soil sample lab results).

Inorganic soil concentrations - mg/kg
Remaining environmental concentrations - ug/kg

Table 4-1
SAMPLE SUMMARY FORM

SAMPLE #	G201	G202	G203	X101	X102	X103	X104	X105
ACIDS								
Benzoic Acid								
Phenol								
2-chlorophenol								
2-nitrophenol								
2-methylphenol								
2,4-dimethylphenol								
4-methylphenol								
2,4-dichlorophenol								
2,4,6-trichlorophenol								
2,4,5-trichlorophenol								
4-chloro-3-methylphenol								
2,4-dinitrophenol								
2-methyl-4,6-dinitrophenol								
Pentachlorophenol								
4-nitrophenol								
BASE/NEUTRALS								
Hexachloroethane								
Bis (2-chloroethyl) ether								
Benzyl Alcohol								
Bis (2-chloroisopropyl) ether								
N-nitrosodi-n-propylamine								59 J
Nitrobenzene								
Hexachlorobutadiene								
2-Methylnaphthalene								68 J
1,2,4-trichlorobenzene								
Isophorone					75 J			
Naphthalene					60 J			300 J
4-Chloroaniline								
Bis (2-chloroethoxy) methane								
Hexachlorocyclopentadiene								
2-chloronaphthalene								
2-Nitroaniline								
Acenaphthylene								
3-Nitroaniline								
Acenaphthene								
Dibenzofuran								
Dimethylphthalate								
2,6-Dinitrotoluene								
Fluorene								
4-Nitroaniline								
4-Chlorophenyl-phenyl ether								
2,4-Dinitrotoluene								
Diethylphthalate								
N-Nitrosodiphenylamine								
Hexachlorobenzene								
Phenanthrene					25 J	15 J	50 J	35 J
4-Bromophenyl-phenyl ether								
Anthracene					25 J			35 J
Dibutylphthalate	19 B	23 B	40 B	2200 B	3100 B	2900 B	2600 B	2000 B
Fluoranthene				40 J	39 J	9 J		50 J
Pyrene				31 J	38 J	9 J	110 J	42 J
Butyl benzyl phthalate						8 J	17 J	
Bis (2-ethylhexyl) phthalate	11 B	27 B	22 B	110 JB	24 JB			
Chrysene							61 J	30 J
Benzo (a) anthracene							37 J	27 J
3,3'-Dichlorobenzidene								
Di-n-octyl phthalate		2 JB			7 J	6 JB	75 J	140 J
Benzo (b) fluoranthene							33 J	31 J
Benzo (k) fluoranthene							39 J	37 J
Benzo (a) pyrene							15 J	
Indeno (1,2,3-cd) pyrene								
Dibenzo (a,h) anthracene								
Benzo (g,h,i) perylene								
1,2-Dichlorobenzene								
1,3-Dichlorobenzene								
1,4-Dichlorobenzene								

Inorganic soil concentrations - mg/kg
Remaining environmental concentrations - ug/kg

Table 4-1
SAMPLE SUMMARY FORM

SAMPLE #	G201	G202	G203	X101	X102	X103	X104	X105
VOLATILES								
chloromethane								
bromomethane								
vinyl chloride								
chloroethane								
methylene chloride		0.6BJ	0.6BJ	16B	12B	12B	20B	16B
acetone	4	2	0.6J	140B	68B	53B	160B	130B
carbon disulfide								
1,1-dichloroethene								
1,1-dichloroethane								
1,2-dichloroethene (total)								
1,2-dichloropropane								
chloroform		0.4J	0.3J					
1,2-dichloroethane								
2-butanone				21B	23B	17B		65B
1,1,1-trichloroethane								
carbon tetrachloride	0.05J							
vinyl acetate							6J	
dichlorobromomethane								
c-1,3-dichloropropene								
trichloroethene	0.06BJ	1BU	1BU					
benzene							9	
chlorodibromomethane								
1,1,2-trichloroethane								
t-1,3-dichloropropene								
bromoform								
2-hexanone								
4-methyl-2-pentanone								
1,1,2,2-tetrachloroethane								
tetrachloroethene	0.08J							
toluene	3B	1B	1BU	6B	5JB	3JB	7B	18B
chlorobenzene							2J	
ethylbenzene							71	
styrene								
total xylenes	0.2J						370	2J
PESTICIDES								
alpha-BHC								
beta-BHC								
delta-BHC								
Lindane (gamma-BHC)								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
4,4'-DDE								
Dieldrin								
Endrin								
4,4'-DDD								
Endosulfan II								
4,4'-DDT								
Endrin ketone								
Endosulfan sulfate								
Methoxychlor								
alpha-Chlordane								
gamma-Chlordane								
Toxaphene								
Arochlor-1016								
Arochlor-1221								
Arochlor-1232								
Arochlor-1242								
Arochlor-1248								
Arochlor-1254								
Arochlor-1260								

Table 4-1

SAMPLE SUMMARY FORM
(CONT)

SAMPLE #	G201	G202	G203	X101	X102	X103	X104	X105
METALS								
Aluminum	120u	120u	120u	9420	20900	6390	7090	9340
Antimony	58	45u	105	6.7u	7.3u	7.3u	8.5u	6.4u
Arsenic	1	1u	1u	2.5	6.3	2.7	2.8	5.4
Barium	36	20u	27	53	110	26	130	82
Beryllium	1u	1u	1u	9.0	16	7.9	11	8.1
Cadmium	5u	5u	5u	0.74u	0.800	0.82u	0.940	0.70u
Calcium	77000	2200	62000	69000	10,900	64,200	78,400	3770
Chromium	9u	9u	9u	13	26	9.9	26	18
Cobalt	10u	10u	10u	13	20	9.3	11	10
Copper	9u	11	11	18	31	17	25	17
Iron	1050	63	2300	15400	27,500	12,900	17,400	12,100
Lead	28	17	39	27	60	14	65	69
Magnesium	81,000	11,000u	88000	40,300	10,200	39,000	43,500	2840
Manganese	57	9u	13	600	620	310	470	600
Mercury	0.1u	0.2	0.1u	0.065	0.046	0.071	0.054	0.096
Nickel	25u	25u	25u	22	46	20	22	11
Potassium	2500	1600	2300	1490	3100	1170	1030	780
Selenium	2u	2	2u	0.40	0.48	0.32	0.38u	0.63
Silver	7u	7u	7u	1.1	1.1u	1.1u	1.4	0.99u
Sodium	35000	280,000	39000	210	190	200	650	110
Thallium	10u	5u	10u	0.76u	0.78u	0.78u	1.1u	0.65u
Vanadium	15u	15u	15u	24	46	17	14	28
Zinc	56	8u	210	69	110	53	74	96
OTHERS								
Cyanide	5u	5u	5u	0.17u	0.18	0.18u	0.23	0.44
Sulfide	1000u	1000u	1000u	5.2u	5.5u	5.6u	7.4u	5.2u
Phenols								
Nitrogen-Ammonia								
Nitrogen, Total Kjeldahl								
Nitrogen-Nitrate								
Boron								
pH								
Sulfate	160,000	120,000	160,000	43	160	33u	44u	31u
Chloride								

TC:tk:4/30/12-1(6/2/88)

Inorganic soil concentrations - mg/kg
Remaining environmental concentrations - ug/kg

QUALIFIER	DEFINITION
U	Indicates element or compound was analyzed for but not detected. Report the detection limit value (e.g., 10U).
J	Indicates an estimated value. This flag is used either when estimating a concentration for TIC's where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the CRDL.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides greater than or equal to 10 ng/ul in the final extract shall be confirmed by GC/MS.
B	This flag is used when the analyte is found in the blank as well as the sample. This flag must be used for a TIC as well as for a positively identified TCL compound.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample numbers (both lab and EPA) on the Form 1 for the diluted sample, and all concentration values reported on that Form 1 are flagged with the "D" flag.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form 1 for the original analysis. If the dilution

QUALIFIER	DEFINITION
	of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms 1. The Form 1 for the diluted sample shall have the "DL" suffix appended to the lab sample number and the EPA sample number.
S	Indicates value determined by Method of Standard Addition.
N	Indicates spike sample recovery is not within control limits.
*	Indicates duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for method of standard addition is less than 0.995.

5. BIBLIOGRAPHY

Illinois Environmental Protection Agency, 1987, Potential Hazardous Waste Site Preliminary Assessment, for Aurora Municipal Landfill, U.S. EPA ID: ILD087147203, prepared by Ken W. Corkill, Springfield, Illinois.

Clark, C.E., Groundwater Investigation Report, Microfilm, IEPA, Division of Land Pollution Control, Springfield, Illinois.

Newspaper Report, May 13, 1966, Law suit information, Microfilm, IEPA, Division of Land Pollution Control, Springfield, Illinois.

U.S. EPA, Office of Solid Waste and Emergency Response, February 12, 1988, Pre-Remedial Strategy for Implementing SARA, Directive number 9345.2-01, Washington, D.C.

U.S.G.S., 1972, Aurora North Quadrangle, Illinois, 7.5 Minute Series.

U.S.G.C., Aurora South Quadrangle, Illinois, 7.5 Minute Series.

U.S.G.C., 1973, Yorkville Quadrangle, Illinois, 7.5 Minute Series.

U.S.G.S., Sugar Grove, Illinois, 7.5 Minute Series.

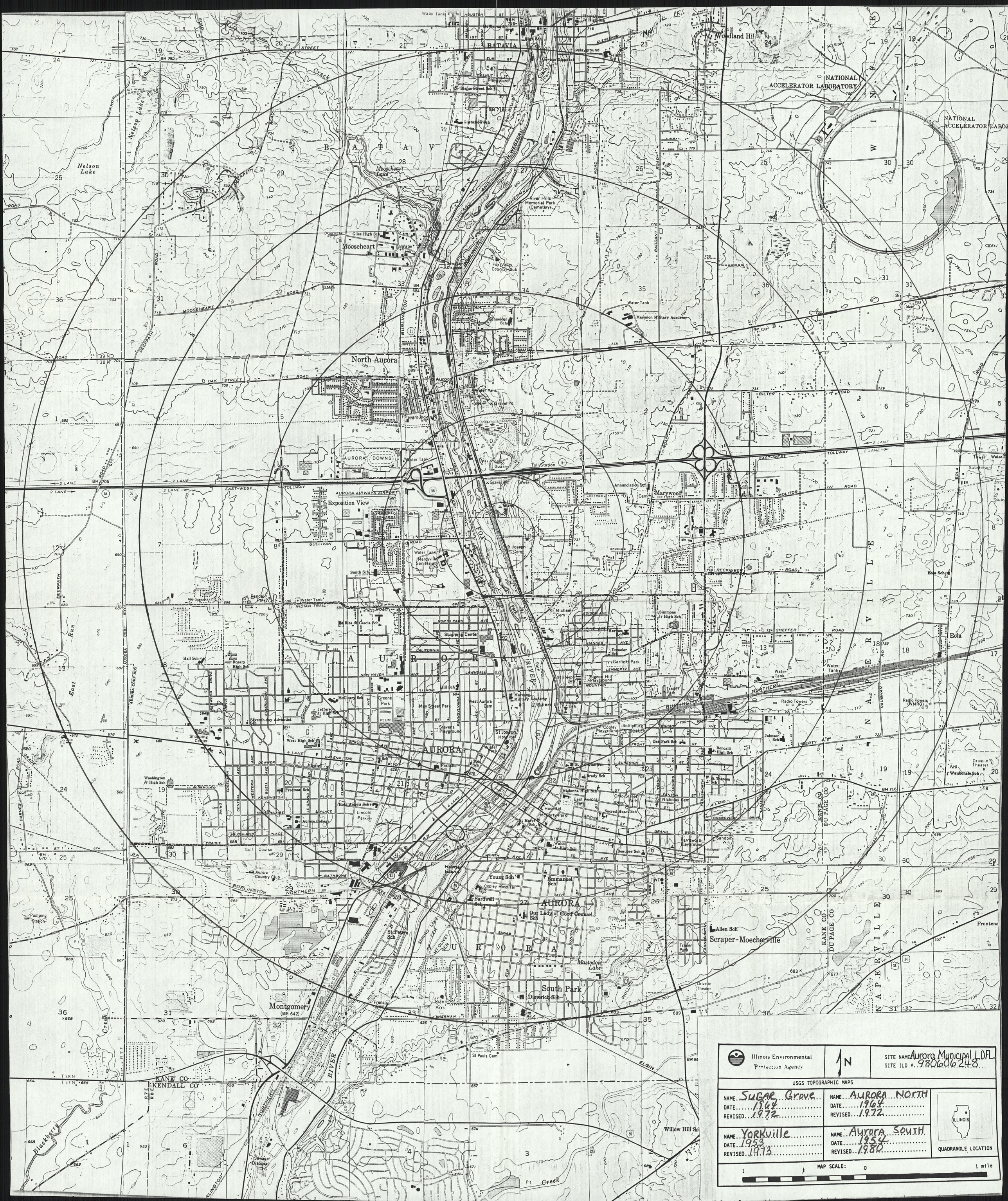
U.S.G.C., 1948, Geneva Quadrangle, 15 Minute Series.

U.S.G.C., 1954, Yorkville Quadrangle, 15 Minute Series.

JM:jk/sp/2954j

Appendix A

Site 4-Mile Radius Map


BATAVIA
Mooseheart
North Aurora
AURORA
Montgomery
Marmion Military Academy
Fox Valley Country Club
River Hills Memorial Park (Cemetery)
NATIONAL ACCELERATOR LABORATORY
Woodland Hill
Nelson Lake
Mooseheart Lake
Exposition View
AURORA DOWNS
Marywood
Scraper-Moecherville
South Park
Mastodon Lake
Eola
Willow Hill Sch
Illinois Environmental Protection Agency
N
SITE NAME Aurora Municipal LDFL.
SITE ILD # 980606248
USGS TOPOGRAPHIC MAPS
NAME Sugar Grove
DATE 1964
REVISED 1972
NAME Aurora North
DATE 1964
REVISED 1972
NAME Yorkville
DATE 1953
REVISED 1973
NAME Aurora South
DATE 1954
REVISED 1980
ILLINOIS
QUADRANGLE LOCATION
MAP SCALE: 1 0 1 mile

Appendix B

Site 15-Mile Stream Map

Aurora Muni Landfill

Illinois Environmental Protection Agency

N

SITE NAME: AURORA MUNI LDFL
SITE ILD #: 980606248

USGS TOPOGRAPHIC MAPS

NAME: SUGAR GROVE DATE: 1964 REVISED: 1972	NAME: AURORA NORTH DATE: 1964 REVISED: 1972
NAME: YORKVILLE DATE: 1953 REVISED: 1973	NAME: AURORA SOUTH DATE: 1954 REVISED: 1980
NAME: DATE: REVISED:	NAME: DATE: REVISED:

ILLINOIS

QUADRANGLE LOCATION

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Appendix C

U.S. EPA Form 2070-13

Site Inspection Report

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606248

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
AURORA MUNICIPAL LANDFILL (FOX VALLEY DISPOSAL)	Route 25 + East Sullivan Road

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
AURORA	IL	60504	KANE	089	15

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
41 47 28.0	088 18 30.0	☐ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☒ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
07 12 88 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	1961 (BEGINNING YEAR) MID 1970's (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☒ E. STATE ☐ F. STATE CONTRACTOR IEPA (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
John McRGAN	Geologist	IEPA	(217) 782-6761

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO
Greg DUNN	Geologist	IEPA	(217) 782-6761
			( )
			( )
			( )
			( )

Non-responsive PII

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
William Morr	Street Department	City of Aurora, 44 E. Downer Place,	(312) 892-8811
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	7:00 AM	CLEAR, ≈80°

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
William Morr	City of Aurora	(312) 892-8811

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
John MorGAN	IEPA	RPMS	(217) 782-6761	7 12 88 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606248

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☒ A SOLID
- ☐ B. POWDER, FINES
- ☐ C SLUDGE
- ☐ D OTHER _____ (Specify)
- ☐ E SLURRY
- ☒ F LIQUID
- ☐ G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS UNKNOWN

CUBIC YARDS 1

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ■ A TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ■ D PERSISTENT
- ☐ E SOLUBLE
- ☐ F INFECTIOUS
- ☐ G FLAMMABLE
- ☐ H IGNITABLE
- ☐ I HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K REACTIVE
- ☐ L INCOMPATIBLE
- ☐ M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	UNKNOWN		
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OCC	Chloroform	67-66-3	THESE CONTAMINANTS were detected IN SOIL + Groundwater Samples collected on 7/12/88 by IEPA	0.4 J	ug/Kg
OCC	CARBON Tetrachloride	56-23-5		0.05 J	ug/L
OCC	Benzene	71-43-2		9	ug/Kg
OCC	Tetrachloroethene	127-18-4		0.08 J	ug/Kg
OCC	Chlorobenzene	108-90-7		2 J	ug/Kg
OCC	ethylbenzene	100-41-4		71	ug/Kg
OCC	xylene	1330-20-7		370	ug/Kg
OCC	phenanthrene	85-01-8		50 J	ug/Kg
OCC	N-nitrosodi-n-propylamine	86-30-6		59 J	ug/Kg
OCC	2-Methylnaphthalene	91-57-6		68 J	ug/Kg
OCC	Isophorene	78-59-1		75 J	ug/Kg
OCC	Naphthalene	91-20-3		300 J	ug/Kg
OCC	Anthracene	120-12-7		35 J	ug/Kg
OCC	Fluoranthene	206-44-0		50 J	ug/Kg
OCC	Pyrene	129-00-0		110 J	ug/Kg
OCC	Chrysene + Benzo(k)fluoranthene	218-01-9 / 205-99-2 / 207-08-9		69 J / 39 J	ug/Kg

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

ILLINOIS EPA FILES - LAND Pollution DIVISION - RESULTS FROM SAMPLES COLLECTED ON July 12, 1988, during IEPA site inspection.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 980606248

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
NONE documented or observed

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
NONE documented or observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
NONE documented or observed

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
No Liner or Leachate collection exist. On July 7, 1988, Leachate was observed flowing at the SE perimeter of the landfill.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
NONE documented or observed

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)
Illinois EPA - Land Division Files
and Analysis of Samples collected on 7/12/88 by IEPA Personnel

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606248

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: 7/12/88) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

During the 1960's, area residents had to abandon their private wells due to contamination. Results from samples taken 7/12/88 during an IEPA site inspection indicates the groundwater contains low levels of Chloroform, carbon tetrachloride, tetrachloroethylene, xylene, and common groundwater inorganic constituents.

01 ☒ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: 7/12/88) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

A creek at the northern portion of the landfill was sampled 7/12/88. Results indicated the soil contained low levels of Fluoranthane and Pyrene. The creek, when containing water, discharges into the Fox River.

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

None documented or observed

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

None documented or observed

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

None documented or observed

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: 7/12/88) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION

Soil samples taken on 7/12/88 from leachate gulley's at the landfill indicate volatile organic contamination and the detection of Base/neutral compounds. (See Table 4-1 for details)

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

Samples collected from three private wells on 7/12/88, indicate low levels of Chloroform, carbon tetrachloride, tetrachloroethylene, xylene and common inorganic groundwater constituents.

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

None documented or observed

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

None documented or observed

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606248

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)		1-29-88		Applied for permit with Dept of Public Health to operate a solid waste disposal site.
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☒ F. LANDFILL	UNKNOWN	
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)
☒ A. INCENERATION
☐ B. UNDERGROUND INJECTION
☐ C. CHEMICAL/PHYSICAL
☐ D. BIOLOGICAL
☐ E. WASTE OIL PROCESSING
☐ F. SOLVENT RECOVERY
☐ G. OTHER RECYCLING/RECOVERY
☐ H. OTHER (Specify)

05 OTHER

☐ A. BUILDINGS ON SITE

06 AREA OF SITE

20 (Acres)

07 COMMENTS

The LANDFILL mainly received general municipal refuse, demolition debris and some unknown industrial waste.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

NO INFORMATION IS AVAILABLE about Liners or a Leachate collection system, therefore, it is assumed that neither exist.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

LANDFILL closed and covered, but Leachate seepage is still occurring.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

ILLINOIS EPA Files - LAND DIVISION AND visual observations

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606245

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☐	B. ☒
NON-COMMUNITY	C. ☐	D. ☒

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☒	E. ☐	F. ☐

03 DISTANCE TO SITE

A. N/A (mi)
B. 0.10 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER > 10,000

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
well Depth UNKNOWN (ft)	UNKNOWN	50 to 80 (ft)	(gpd)	☐ YES ☐ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

The majority of the private wells are completed in the Niagaran Limestone at a depth ranging from ≈ about 45' to 100'. Some wells are completed in a shallow sand and gravel aquifer where accessible.

10 RECHARGE AREA		11 DISCHARGE AREA	
☒ YES ☐ NO	COMMENTS infiltration through soil and the Fox River (Depending on amount of precipatation).	☐ YES ☐ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Fox River via intermittent stream	☐	0.1 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. ≈ 10,000 NO OF PERSONS	B. ≈ 30,000 NO OF PERSONS	C. ≈ 80,000 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION 0.1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE ≈ 10273

04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.05 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

A small Non-responsive PII exist on the west side of the property about 500 feet from the landfill. To the North is a gravel pit, to the south is an agricultural area, to the East and northeast about ½ mile away is another Non-responsive PII

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606248

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☒ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☒ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
≈ 50-100 (ft)	0-6 inches (ft)	N/A

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
2 (in)	2.3 (in)	>8% %	WEST	3-5% %

09 FLOOD POTENTIAL

SITE IS IN N/A YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. >4 (mi)

OTHER: B. >4 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

>4 (mi)

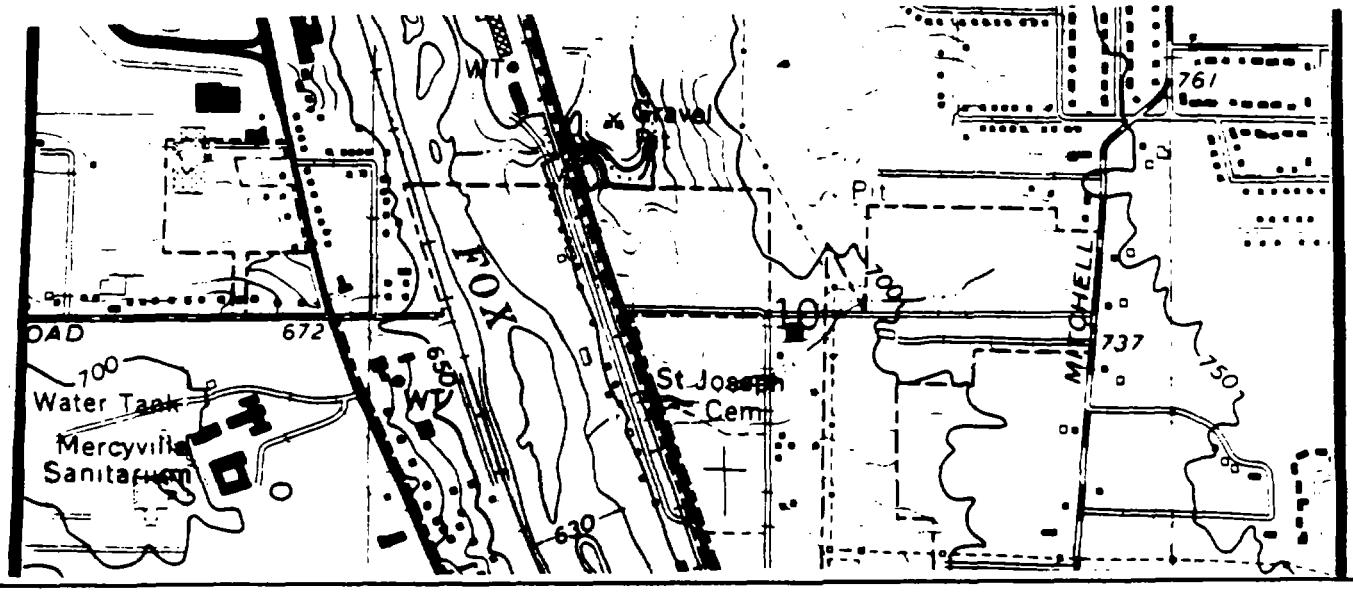
ENDANGERED SPECIES: N/A

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 0.1 (mi)	B. 0.1 (mi)	C. 0.05 (mi)	D. (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606248

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	3	ARDL Laboratory, Mt Vernon, Illinois	9-22-88
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	3	" " " "	9-22-88
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
OVA	No levels above background
HNU	No Levels Above background

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF ILLINOIS EPA (Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Illinois Environmental Protection Agency, LAND Files.

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

	G201	G202	G203
1) CONDUCTIVITY	1.01 x 1000	1.27 x 1000	1.90 x 1000
2) ph	8.02	7.75	8.07
3) Temp.	62.5°	67.6°	63.5°

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SITE Inspection conducted on July 12, 1988 by IEPA Personnel.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606248

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
City of Aurora		44 E. Downer Place		Aurora	IL	60504
William Morr		(Same as above)				

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE
N/A						

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
N/A						

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
N/A						

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IEPA - LAND DIVISION Files (HRS/Superfund) AND Microfilm

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606248

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
FOX VALLEY DISPOSAL	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
780 N. KIRK Rd	

05 CITY	06 STATE	07 ZIP CODE
BATAVIA	IL.	60510

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER
WASTE MANAGEMENT OF ILL.	

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
P.O. Box 563	

14 CITY	15 STATE	16 ZIP CODE
PALOS HEIGHTS	IL.	60463

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER
SAME AS ABOVE	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IEPA - DIVISION of LAND Files AND Microfilm

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606248

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
NA	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
NA			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
			-

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
NA			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA

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

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 980606248

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED | 02 DATE | 03 AGENCY
04 DESCRIPTION DURING 1966, SEVERAL PRIVATE WELLS WERE ABANDONED and replaced WITH CITY water. THIS was a result of contamination from the landfill activity

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED | 02 DATE | 03 AGENCY
04 DESCRIPTION THE CITY provided permanent water lines to the residents AFFected by the LANDFILL CONTAMINATION.

01 ☐ D. SPILLED MATERIAL REMOVED | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ E. CONTAMINATED SOIL REMOVED | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ F. WASTE REPACKAGED | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ G. WASTE DISPOSED ELSEWHERE | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ H. ON SITE BURIAL | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ I. IN SITU CHEMICAL TREATMENT | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ J. IN SITU BIOLOGICAL TREATMENT | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ K. IN SITU PHYSICAL TREATMENT | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ L. ENCAPSULATION | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ M. EMERGENCY WASTE TREATMENT | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ N. CUTOFF WALLS | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ P. CUTOFF TRENCHES/SUMP | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

01 ☐ Q. SUBSURFACE CUTOFF WALL | 02 DATE | 03 AGENCY
04 DESCRIPTION NA

EPA

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

I. IDENTIFICATION
01 STATE: ILD 02 SITE NUMBER: 980606248

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ S. CAPPING/COVERING 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION
The LANDFill is closed AND final cover has been applied.

01 ☐ T. BULK TANKAGE REPAIRED 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ U. GROUT CURTAIN CONSTRUCTED 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ V. BOTTOM SEALED 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ W. GAS CONTROL 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION
None Documented or observed

01 ☐ X. FIRE CONTROL 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ Y. LEACHATE TREATMENT 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION
None Documented or observed

01 ☐ Z. AREA EVACUATED 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ 1. ACCESS TO SITE RESTRICTED 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ 2. POPULATION RELOCATED 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ 3. OTHER REMEDIAL ACTIVITIES 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION
NA

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SITE Inspection conducted 7/23/88 by IEPA personnel
IEPA - LAND Division Files and Microfilm

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	980606248

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION

N/A

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Appendix D

U.S. EPA Immediate Removal Action Checksheet

IMMEDIATE REMOVAL ACTION CHECK SHEET

Site Name: AURORA MUNICIPAL LANDFILL IL ILD 980606248

	High	Moderate	Low
Fire and Explosion Hazard:			
Flammable Materials:			X
Explosives:			X
Incompatible Chemicals:			X
Direct Contact with Acutely Toxic Chemicals:			
Site Security:			X
Leaking Drums or Tanks:			X
Open Lagoons or Pits:			X
Materials on Surface:		X	
Proximity of Population:	X		
Evidence of Casual Site Use:			X
Contaminated Water Supply:			
Exceeds 10 Day Snarl:			
Gross Taste or Odors:			
Alternate Water Available:			
Potential Contamination:	X		
Is the site abandoned or active?			X

Comments:

THE site is closed and covered. The clay cap appears to be in moderate condition. An alternate water source was supplied by the City of Aurora to residents in the area who were affected by groundwater contamination in the 1960's. No chemical waste is exposed at the surface but some areas still contain demolition construction debris. Immediate removal is not necessary at this time

RML:tk:4/28/18-1(3/30/88)

Appendix E

Chemical Analysis Data of IEPA Collected Samples

Exhibit 8

TARGET COMPOUND LIST

Volatile Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. chloromethane	10 ug/l	10 ug/kg
2. bromomethane	10	10
3. vinyl chloride	10	10
4. chloroethane	10	10
5. methylene chloride	5	5
6. acetone	10	10
7. carbon disulfide	5	5
8. 1,1-dichloroethene	5	5
9. 1,1-dichloroethane	5	5
10. t-1.2-dichloroethene	5	5
11. 1,2-dichloropropane	5	5
12. chloroform	5	5
13. 1,2-dichloroethane	5	5
14. 2-butanone	10	10
15. 1,1,1-trichloroethane	5	5
16. carbon tetrachloride	5	5
17. vinyl acetate	10	10
18. dichlorobromomethane	5	5
19. c-1,3-dichloropropene	5	5
20. trichloroethene	5	5
21. benzene	5	5
22. chlorodibromomethane	5	5
23. 1,1,2-trichloroethane	5	5
24. t-1,3-dichloropropene	5	5
25. 2-chloroethyl vinyl ether	10	10
26. bromoform	5	5
27. 2-hexanone	10	10
28. 4-methyl-2-pentanone	10	10
29. 1,1,2,2-tetrachloroethane	5	5
30. tetrachloroethene	5	5
31. toluene	5	5
32. chlorobenzene	5	5
33. ethylbenzene	5	5
34. styrene	5	5
35. total xylenes	15	15

CRDL - Contract Required Detection Limit

Base/Neutral Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. Hexachloroethane	10 ug/l	330 ug/kg
2. Bis (2-chloroethyl) ether	10	330
3. Benzyl Alcohol	10	330
4. Bis (2-chloroisopropyl) ether	10	330
5. N-nitrosodi-n-propylamine	10	330
6. Nitrobenzene	10	330
7. Hexachlorobutadiene	10	330
8. 2-Methylnaphthalene	10	330
9. 1,2,4-trichlorobenzene	10	330
10. Isophorone	10	330
11. Naphthalene	10	330
12. 4-Chloroaniline	10	330
13. Bis (2-chloroethoxy) methane	10	330
14. Hexachlorocyclopentadiene	10	330
15. 2-chloronaphthalene	10	330
16. 2-Nitroaniline	50	1600
17. Acenaphthylene	10	330
18. 3-Nitroaniline	50	1600
19. Acenaphthene	10	330
20. Dibenzofuran	10	330
21. Dimethylphthalate	10	330
22. 2,6-Dinitrotoluene	10	330
23. Fluorene	10	330
24. 4-Nitroaniline	50	1600
25. 4-Chlorophenyl-phenyl ether	10	330
26. 2,4-Dinitrotoluene	10	330
27. Diethylphthalate	10	330
28. N-Nitrosodiphenylamine	10	330
29. Hexachlorobenzene	10	330
30. Phenanthrene	10	330
31. 4-Bromophenyl-phenyl ether	10	330
32. Anthracene	10	330
33. Dibutylphthalate	10	330
34. Fluoranthene	10	330
35. Pyrene	10	330
36. Butyl benzyl phthalate	10	330
37. Bis (2-ethylhexyl) phthalate	10	330
38. Chrysene	10	330
39. Benzo (a) anthracene	10	330
40. 3,3'-Dichlorobenzidene	20	660
41. Di-n-octyl phthalate	10	330
42. Benzo (b) fluoranthene	10	330
43. Benzo (k) fluoranthene	10	330
44. Benzo (a) pyrene	10	330
45. Indeno (1,2,3-cd) pyrene	10	330
46. Dibenzo (a,h) anthracene	10	330
47. Benzo (g,h,i) perylene	10	330
48. 1,2-Dichlorobenzene	10	330
49. 1,3-Dichlorobenzene	10	330
50. 1,4-Dichlorobenzene	10	330

Acid Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. Benzoic Acid	50 ug/l	1600 ug/kg
2. Phenol	10	330
3. 2-chlorophenol	10	330
4. 2-nitrophenol	50	1600
5. 2-methylphenol	10	330
6. 2,4-dimethylphenol	10	330
7. 4-methylphenol	10	330
8. 2,4-dichlorophenol	10	330
9. 2,4,6-trichlorophenol	10	330
10. 2,4,5-trichlorphenol	50	1600
11. 4-chloro-3-methylphenol	10	330
12. 2,4-dinitrophenol	50	1600
13. 2-methyl-4,6-dinitrophenol	50	1600
14. Pentachlorophenol	50	1600
15. 4-nitrophenol	50	1600

Pesticide Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. alpha-BHC	.05 ug/l	8.0 ug/kg
2. beta-BHC	.05	8.0
3. delta-BHC	.05	8.0
4. Lindane (gamma-BHC)	.05	8.0
5. Heptachlor	.05	8.0
6. Aldrin	.05	8.0
7. Heptachlor epoxide	.05	8.0
8. Endosulfan I	.05	8.0
9. 4,4'-DDE	.10	16.0
10. Dieldrin	.10	16.0
11. Endrin	.10	16.0
12. 4,4'-DDD	.10	16.0
13. Endosulfan II	.10	16.0
14. 4,4'-DDT	.10	16.0
15. Endrin aldehyde	.10	16.0
16. Endosulfan sulfate	.10	16.0
17. Methoxychlor	.50	80.0
18. Chlordane	.50	80.0
19. Toxaphene	.50	80.0
20. Arochlor-1016	1.0	160.0
21. Arochlor-1221	.50	80.0
22. Arochlor-1232	.50	80.0
23. Arochlor-1242	.50	80.0
24. Arochlor-1248	.50	80.0
25. Arochlor-1254	1.0	160.0
26. Arochlor-1260	1.0	160.0

Inorganic Target Compounds

Metals Analyses (CRDL)-ug/l*	
Aluminum	200
Antimony	60
Arsenic	10
Barium	200
Beryllium	5
Cadmium	5
Chromium	10
Cobalt	50
Copper	25
Iron	100
Lead	5
Manganese	15
Mercury	0.2
Nickel	40
Selenium	5
Silver	10
Thallium	10
Vanadium	50
Zinc	20

Other Inorganics
Cyanide
Sulfide
Phenols
Nitrogen-Ammonia
Nitrogen, Total Kjeldahl
Nitrogen-Nitrate
Boron
pH

*Any analytical method specified in the Quality Assurance Project Plan (QAPP) may be utilized as long as the documented instrument or method detection limits meet the Contract Required Detection Level requirements. Higher detection levels may only be used in the following circumstance:

If the sample concentration exceeds two times the detection limit of the instrument or method in use, the value may be reported even though the instrument or method detection limit may not equal the CRDL. This is illutrated in the example below:

For lead:

Method in use -- ICP
Instrument Detection Limit (IDL) = 40
Sample Concentration = 85
Contract Required Detection Level (CRDL) = 5

The value of 85 may be reported even though instrument detection limit is greater than required detection level. The instrument or method detection limit must be documented as described in Form IIIX.

These CRDL are the instrument detection limits obtained in pure water that must be met using ICP/Flame AA or Furnace AA. The detection limits for samples may be considerably higher depending on the sample matrix.

0890050001 / Kane
Aurora Municipal Landfill
S.F. Tech

ARDL Inc.

applied research & development laboratory

CHEMISTRY · BIOLOGY · PHYSIOLOGY
ENGINEERING · ENVIRONMENTAL ANALYSIS

12 September 1988

Original lab Data

Ms. Sue Doubet
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

SUBJECT: Data Package
Aurora Municipal Landfill
ARDL #200046
Site Inventory No.: 0890050001

Dear Ms. Doubet:

Enclosed please find ARDL's data package for analyses performed on samples delivered to our laboratory by IEPA personnel on July 13, 1988. The data package consists of the following:

1. Letter of Transmittal
2. Tabulated Analytical Results
3. Chain-of-Custody Documentation
4. Data Package
   a. Volume 1 - Inorganic Data Package
   b. Volume 2 - Organic Sample Data Summary Package
   c. Volume 3 - Volatiles Analysis Data Package
   d. Volume 4 - Semi-Volatiles Analysis Data Package
   e. Volume 5 - PEST/PCB Analysis Data Package

We appreciate the opportunity to be of service to the IEPA.

Thank you.

Sincerely yours,

Daniel J. Gillespie

Daniel J. Gillespie
Technical Services Manager

DJG/mld

Enclosures

RECEIVED
SEP 19 1988
IEPA-DLPC

P.O. Box 1566 · 1801 W. Forest Street · Mt. Vernon, Illinois 62864 · (618)244-3235
"Test Everything - Keep The Good" 1 Thes. 5:21

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHAIN OF CUSTODY

SAMPLING TEAM

I certify that the samples listed below were collected in my presence and that each sample bottle was sealed intact by me and that I wrote my initials and the date on the seal of each bottle.

Site Inventory No. 0890050001 County KANE

Federal I.D. No. ILD 980606248 AURORA MUNICIPAL LANDFILL (Facility Name)

Sample No.	Initials	Consisting of the Indicated No. of Bottles	Date Collected	Time Sealed
X101	JM	4	7/12/88	11:20 AM/PM
X102	JM	4	7/12/88	11:20 AM/PM
X103	JM	4	7/12/88	11:20 AM/PM
X104	JM	4	7/12/88	11:20 AM/PM
G201	JM	14	7/12/88	9:45 AM/PM
G202	JM	14	7/12/88	10:20 AM/PM
G203	JM	14	7/12/88	11:10 AM/PM
				AM/PM
				AM/PM
				AM/PM

Sealer's Signature John Morgan Date 7/12/88 Time 11:20 AM/PM

Sampler(s) Gregory W. [illegible]

CARRIERS

I certify I received the above samples, with each seal on each bottle intact and the sealer's initials written on each sample seal.

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM

LAB CUSTODIAN

I certify I received the above samples with each seal on each bottle intact, and the sealer's initials written on each sample seal. After recording these samples in the official record book, these same samples will be in the custody of competent laboratory personnel ~~at all~~ times or locked in a secured area.

Signature Kris Parks Date 7/13/88 Time 1430 A.M. P.M.

Lab Location Mt Vernon (City)

Also recv'd X105 - not listed above

IL 532-1147
LPC 141 9/83

120-011

IEPA
CHAIN OF CUSTODY

Seal # 2859

Date Sealed: 7/11/88 By AWU

Facility
Name: ALTON MUNICIPAL LANDFILL
Type: NORTHERN
Location: ALTON

Inspection #: [illegible]
Site Sampling Code: [illegible]
Project Manager: [illegible]

LABORATORY #

200046-1 6201 7/12/88 9:25AM-9:41AM

CLEAR

30 DAY TURN AROUND

John Morgan IEPA

CONTAINER No.	Code	Size	Preser.	ANALYSIS		
				DRINKING WATER SAMPLE	N	7/12/88
		1/2GL	----	BNA	N	7/12/88 9:30AM
		1/2GL	----	PEST/PCB	N	7/12/88 9:33AM
		40ML	----	VOA	N	7/12/88 9:25AM
		1L	GRN	TOTAL METALS	N	7/12/88 9:38AM
		1L	BLU	CYANIDE	N	7/12/88 9:36AM
		1L	----	SULFATES	N	7/12/88 9:37AM
		1L	RED	SULFIDES	N	7/12/88 9:40AM
		500ML	GRY	MERCURY	N	7/12/88 9:41AM

JOHN MORGAN John Morgan
7/12/88 9:15 AM 0002859

JOHN MORGAN John Morgan
7/12/88 9:45AM 0002860
FED EXPRESS

Courier - sample delivery: Federal Express

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Rick Pooks Signature: Rick Pooks

Date: 7/13/88 Time: 1430 Seal #: 0002860 Intact?: (Y) / N

Lab Name: ARDL, Inc. Comments: Air bubbles in 1 VOA container

IEPA - [illegible]
CHAIN OF CUSTODY

Seal # 2861

Date Sealed: 7/11/88 By: AWU

Facility
Name: ALTON MUNICIPAL LANDFILL
Region: [illegible]
County: [illegible]

Site Inventory #: [illegible]
Site Billing Code: [illegible]
Project Manager: JOHN MORGAN

LABORATORY #

200046-2 G202 7/12/88 10:08-10:17AM

CLEAR

30 DAY TURN AROUND

John Morgan IEPA

CONTAINER				ANALYSIS	
[illegible]	[illegible]	[illegible]	[illegible]	DRINKING WATER SAMPLE	N
[illegible]	[illegible]	[illegible]	[illegible]	BNA	N 7/12/88 10:10A
[illegible]	[illegible]	[illegible]	[illegible]	PESTICIDE	N 7/12/88 10:10A
[illegible]	[illegible]	[illegible]	[illegible]	VOA	N 7/12/88 10:08A
[illegible]	[illegible]	[illegible]	[illegible]	TOTAL METALS	N 7/12/88 10:16A
[illegible]	[illegible]	[illegible]	[illegible]	CYANIDE	N 7/12/88 10:14A
[illegible]	[illegible]	[illegible]	[illegible]	SULFATES	N 7/12/88 10:14AM
[illegible]	[illegible]	[illegible]	[illegible]	SULFIDES	N 7/12/88 10:15AM
[illegible]	[illegible]	[illegible]	[illegible]	MERCURY	N 7/12/88 10:17A

JOHN MORGAN John Morgan
7/12/88 10:06 0002861

JOHN MORGAN John Morgan
7/12/88 10:20 0002862
FED. EXPRESS

Courier - sample delivery: Federal Express

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Rick Parks Signature: Rick Parks

Date: 7/13/88 Time: 1430 Seal #: 0002862 Intact?: (Y) / N

Lab Name: AROL, Inc Comments: 4 vot's have air bubbles

Seal #: 2851

Date Sealed: 7/11/88 By: AWW

Site Inventory #:

Site Billing Code: SAMPLE

Project Manager: JOHN MORGAN

LABORATORY #

200046-3 G203 7/12/88 10:45-11:00AM

CLEAR

30 DAY TURN AROUND

John Morgan IEPA

CONTAINER			ANALYSIS	
No.	Code	Size	Type	
			DRINKING WATER SAMPLE	7/12/88
2	VOA	----	BNA	7/12/88 10:50AM
1			PESTICIDE	7/12/88 10:55AM
3	AMBER	----	VOA	N 7/12/88 10:45AM
1		GRN	TOTAL METALS	7/12/88 10:59AM
1		BL	CYANIDE	7/12/88 11:00AM
1		----	SULFATES	7/12/88 10:58AM
1		PUR	SULFIDES	7/12/88 10:57AM
1	BOTTLE	GRY	MERCURY	7/12/88 11:00AM

JOHN MORGAN John Morgan

7/12/88 10:38 0002851

JOHN MORGAN John Morgan

7/12/88 ~~10:38~~ 11:10AM 0002852

Fed Express

Courier - sample delivery: Federal Express

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Rick Prahs Signature: Rick Prahs

Date: 7/13/88 Time: 1430 Seal #: 0002852 Intact?: Y / N

Lab Name: ARDL, Inc Comments: 3 VOA's have air bubbles

IEPA - CLP
CHAIN OF CUSTODY

Seal # 2859

Date Sealed 7/11/88 By AWN

Facility Name: AURORA MUNICIPAL LANDFILL
Region: NORTHERN
County: KANE

Site Inventory #: 0890050001
Site Billing Code: SA-06
Project Manager: JOHN MORGAN

LABORATORY #		
200046-4	TRIP BLANK	7/12/88

CLEAR

John Morgan IEPA

CONTAINERS No.	Code	Size	Preser.	ANALYSIS	
2	8	40ml	—	TRIP BLANK	

JOHN MORGAN John Morgan
7/12/88 9:15 0002859 0

JOHN MORGAN John Morgan
7/12/88 9:45AM 0002860
FED. EXPRESS

Courier - sample delivery: Federal Express

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Rick Parks Signature: Rick Parks

Date: 7/13/88 Time: 1430 Seal #: 0002860 Intact?: (Y) N

Lab Name: ARDL, Inc. Comments: 1 Container has an air bubble

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2857

Date Sealed: 7/11/88 By: AWU

Facility
Name: AURORA MUNICIPAL LANDFILL
Region: NORTHERN
County: KANE

Site Inventory #: 0830050001
Site Billing Code: SA-06
Project Manager: JOHN MORGAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
200046-5	X101	7/12/88	7:14 AM

Sample Appearance: BROWNISH TAN, DRY, HARD SOIL

30 DAY TURN AROUND

John Morgan IEPA

	Type	Size	Preser			
	G	16oz		BNA, PEST/PCB	N	7/12/88 7:05 AM
	G	16oz		TOTAL METALS, CYANIDE, SULFATES	N	7/12/88 7:05 AM
	G			SULFIDES, MERCURY	N	7/12/88 7:05 AM
2	12	2oz		VOA	N	7/12/88 7:14 AM

CHAIN OF CUSTODY RECORD

JOHN MORGAN — John Morgan
7/12/88 6:45 AM 0002857 0

JOHN MORGAN — John Morgan
7/12/88 11:20 AM 0002858
Fed express

Courier - sample delivery: Federal Express

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): _____ Signature: Rick Tinsley

Date: 7/13/88 Time: 1430 Seal #: 0002858 Intact?: (Y) / N

Lab Name: ARDL, Inc. Comments: _____

IEPA - OLF
CHAIN OF CUSTODY

Seal #: 2857

Date Sealed: 7/11/88 By: AWU

Facility Name: AURORA MUNICIPAL LANDFILL
Region: NORTHERN
County: KANE

Site Inventory #: 0890150001
Site Billing Code: SA-08
Project Manager: JOHN MORGAN

LABORATORY #

2000466 X102 7/12/88 8:50 - 8:53AM

BROWNISH TAN SOIL

30 DAY TURN AROUND

John Morgan IEPA

CONTAINERS			ANALYSIS		
Order	Size	Fmes			
1	8oz	----	BNA, PEST/PCB	N	7/12/88 8:53 A
2	2oz	----	VOA	N	7/12/88 8:55 A
3	16oz	----	TOTAL METALS, CYANIDE, SULFATES, SULFIDES, MERCURY	N	7/12/88 8:51 A

CHAIN OF CUSTODY RECORD

JOHN MORGAN John Morgan
7/12/88 6:45 AM Seal: 0002857 O

JOHN MORGAN John Morgan
7/12/88 11:20 AM Seal: 0002858
FED EXPRESS

Courier - sample delivery: Federal Express

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Rick Prahs Signature: Rick Prahs

Date: 7/13/88 Time: 1430 Seal #: 0002858 Intact? (Y) / N

Lab Name: ARDL, Inc Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal # 2857

Date Sealed: 7/11/88 By: AWU

Facility
Name: AURORA MUNICIPAL LANDFILL
Region: NORTHERN
County: KANE

Site Inventory #: 0890[illegible]
Site Billing Code: SA-CE
Project Manager: JOHN MORGAN

LABORATORY #

200046-7 X103 7/12/88 8:40AM

Brownish, Red, soil

30 DAY TURN AROUND

John Morgan IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	
1	B	32oz	----	BNA, PEST/PCB	7/12/88 8:40 AM
2	A	2oz	----	VOA	7/12/88 8:40AM
3	B	32oz	----	TOTAL METALS, CYANIDE, SULFATES, SULFIDES, MERCURY	7/12/88 8:40AM

CHAIN OF CUSTODY RECORD

JOHN MORGAN John Morgan
7/12/88 Time 6:45 AM Seal 002857 O

John Morgan JOHN MORGAN
7/12/88 Time 11:20 AM Seal 0002858
FED Express

Courier - sample delivery: Federal Express

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Rick Parks Signature: Rick Parks

Date: 7/13/88 Time: 1430 Seal #: 0002858 Intact?: (Y) / N

Lab Name: ARDL, Inc. Comments:

IEPA - CCP
CHAIN OF CUSTODY

Seal #. 2857

Date Sealed: 7/11/88 By. AW

Facility
Name: AURORA MUNICIPAL LANDFILL
Region: NORTHERN
County: KANE

Site Inventory #: 0890050001
Site Billing Code: SA-OF
Project Manager: JOHN MORGAN

LABORATORY #

200846-8 X104 7/12/88 8:05-8:15AM

Brown, Rocky, wet, composite sample
30 DAY TURN AROUND

John Morgan IEPA

	CONTAINER			ANALYSIS	
No.	Code	Size	Preps		
1	E	1000ml	----	BNA, PEST/PCB	7/12/88 8:05
2	VE	120ml	----	VOA	7/12/88 8:15
3	PE	1000ml	----	TOTAL METALS, CYANIDE, SULFITES SULFIDES, MERCURY	7/12/88 8:05

CHAIN OF CUSTODY RECORD

JOHN MORGAN John Morgan
7/12/88 6:45AM 002857

JOHN MORGAN John Morgan
7/12/88 11:20AM 0002858
FED EXPRESS

Courier - sample delivery: Federal Express

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Rick Parks Signature: Rick Parks

Date: 7/13/88 Time: 1430 Seal #: 0002858 Intact? (Y) / N

Lab Name: ARDL, Inc. Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2857

Date Sealed: 7/11/88 By: AWW

Facility
Name: A & J RA MUNICIPAL LANDFILL
Region: NORTHERN
County: LAKE

Site Inventory #: IDSPA 0000
Site Billing Code: IAHW
Project Manager: JOHN MORGAN

LABORATORY
200046-9 X105 7/12/88 11:15
Brownish gray, Hard, Soil
30 DAY TURN AROUND
John Morgan IEPA

	CONTAINER			ANALYSIS		
No.	Code	Size	Preser			
1	G	32oz	----	BNA, PEST/PCB	N	7/12/88 11:15AM
2	VOA	40oz	----	VOA	N	7/12/88 11:15AM
3	G	32oz	----	TOTAL METALS, CYANIDE, SULFATES SULFIDES, MERCURY	N	7/12/88 11:15AM

JOHN MORGAN John Morgan
7/12/88 6:45AM 0002857

JOHN MORGAN John Morgan
7/12/88 11:20AM 0002858
Fed Express

Courier - sample delivery: Federal Express

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Rick Pruks Signature: Rick Pruks

Date: 7/13/88 Time: 1430 Seal #: 0002858 Intact?: (Y) / N

Lab Name: ARDL, Inc Comments:

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: G201

Matrix (soil/water): water Lab Sample ID: 200046-1

Level (low/Med): Date Received: 7/13/88

% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	120U		P	
7440-36-0	Antimony	[58]		P	
7440-38-2	Arsenic	[1]		BH	
7440-39-3	Barium	[36]		P	
7440-41-7	Beryllium	1U		P	
7440-43-9	Cadmium	5U		P	
7440-70-2	Calcium	77,000		P	
7440-47-3	Chromium	9U		P	
7440-48-4	Cobalt	10U		P	
7440-50-8	Copper	9U		P	
7439-89-6	Iron	1050		P	
7439-92-1	Lead	28		F	
7439-95-4	Magnesium	81,000		P	
7439-96-5	Manganese	57		P	
7439-97-6	Mercury	0.1U		CV	
7440-02-0	Nickel	25U		P	
7440-09-7	Potassium	[2500]		P	
7782-49-2	Selenium	2U		BH	
7440-22-4	Silver	7U		P	
7440-23-5	Sodium	35,000		P	
7440-28-0	Thallium	10U		F	
7440-62-2	Vanadium	15U		P	
7440-66-6	Zinc	56		P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IB

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: G201

Matrix (soil/water): water Lab Sample ID: 200046-1

Level (low/Med): Date Received: 7/13/88

% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	5U			
	Phenol				
	Sulfate	160,000			
	Sulfide	1000U			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Sample Number
G201

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200046-1
Sample Matrix: WATER
Data Release Authorized By:

Case No: 200046
QC Report No:
Contract No: AURORA LF
Date Sample Received: 07/13/88

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 07/26/88
Date Analyzed: 07/26/88
Conc Factor: 5.000000 pH
Percent Moisture: (Not Decanted)

CAS Number		UG/L		CAS Number		UG/L	
74-87-3	Chloromethane	2	U	78-87-5	1,2-Dichloropropane	1	U
74-83-9	Bromomethane	2	U	10061-02-6	Trans-1,3-Dichloropropene	1	U
75-01-4	Vinyl Chloride	2	U	79-01-6	Trichloroethene	0.06	BJ
75-00-3	Chloroethane	2	U	124-48-1	Dibromochloromethane	1	U
75-09-2	Methylene Chloride	3	B	79-00-5	1,1,2-Trichloroethane	1	U
67-64-1	Acetone	4		71-43-2	Benzene	1	U
75-15-0	Carbon Disulfide	1	U	10061-01-5	cis-1,3-Dichloropropene	1	U
75-35-4	1,1-Dichloroethene	1	U	110-75-8	2-Chloroethylvinylether	2	U
75-35-3	1,1-Dichloroethane	1	U	75-25-2	Bromoform	1	U
156-60-5	Trans-1,2-Dichloroethene	1	U	591-78-6	2-Hexanone	2	U
67-66-3	Chloroform	1	U	108-10-1	4-Methyl-2-Pentanone	2	U
107-06-2	1,2-Dichloroethane	1	U	127-18-4	Tetrachloroethene	0.05	J
78-93-3	2-Butanone	2	U	79-34-5	1,1,2,2-Tetrachloroethane	2	U
71-55-6	1,1,1-Trichloroethane	1	U	108-88-3	Toluene	3	B
56-23-5	Carbon Tetrachloride	0.05	J	108-90-7	Chlorobenzene	1	U
108-05-4	Vinyl Acetate	2	U	100-41-4	Ethylbenzene	1	U
75-27-4	Bromodichloromethane	1	U	100-42-5	Styrene	1	U
					Total Xylenes	0.2	J

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Laboratory Name: PEDL, INC.
Case No: 20004s

Sample Number
S201

TENTATIVELY IDENTIFIED COMPOUNDS
(Page 4)

LAB SAMPLE ID: 200046-1

	CAS Number	Compound Name	Fraction	Scan Num	Estimated Conc UG/L
1	124-38-9	CARBON DIOXIDE (ACN)	VOA	16	50
2	75-69-4	METHANE, TRICHLOROFLUORO-	VOA	274	0.6
3	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUORO-	VOA	396	32
4		UNKNOWN	VOA	611	0.24
5		UNKNOWN	VOA	651	0.08

No semi-volatile compounds found.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ------ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 200046-1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >D0044

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.--- dec. --- Date Extracted: 07/15/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 8/05/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	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
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-chloroisopropyl)ether	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
65-85-0	Benzoic acid	50.	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	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethyl Phthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ------ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 200046-1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >D0044

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.--- dec. --- Date Extracted: 07/15/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 8/05/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	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
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	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	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	19.	B
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	11.	B
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	Dibenzo(a,h)Anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G 201

Lab Name: ARDL, INC. Contract: AURORA CF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 200046-1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >D0044

Level: (low/med) LOW Date Received: 7/13/88

% Moisture: not dec. _____ dec. _____ Date Extracted: 7/15/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 8/05/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1

Number TICs found: 7

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	108883	toluene	7.11	3.5	
2.		unknown	8.56	8.0	
3.		unknown alkane	18.30	4.0	
4.		unknown	19.42	2.0	
5.		unknown	23.89	1.0	
6.		unknown	24.03	40.0	
7.		unknown	27.20	6.0	
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

EPA SAMPLE NO.
G201

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) WATER
Sample wt/vol: 1000 (g/mL) mL
Level: (low/med) low
% Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) SEPF
GPC Cleanup: (Y/N) N pH: _____

Contract: Aurora LF
Lab Sample ID: 200046-1
Lab File ID: _____
Date Received: 07/13/88
Date Extracted: 07/14/88
Date Analyzed: 08/24/88
Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	0.05	U
319-85-7----	beta-BHC	0.05	U
319-86-8----	delta-BHC	0.05	U
58-89-9-----	gamma-BHC (Lindane)	0.05	U
76-44-8-----	Heptachlor	0.05	U
309-00-2----	Aldrin	0.05	U
1024-57-3---	Heptachlor epoxide	0.05	U
959-98-8----	Endosulfan I	0.05	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
5103-71-9---	alpha-Chlordane	0.50	U
5103-74-2---	gamma-Chlordane	0.50	U
8001-35-2---	Toxaphene	1.0	U
12674-11-2--	Aroclor-1016	0.50	U
11104-28-2--	Aroclor-1221	0.50	U
11141-16-5--	Aroclor-1232	0.50	U
53469-21-9--	Aroclor-1242	0.50	U
12672-29-6--	Aroclor-1248	0.50	U
11097-69-1--	Aroclor-1254	1.0	U
11096-82-5--	Aroclor-1260	1.0	U

FORM I PEST

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: G202
Matrix (soil/water): water Lab Sample ID: 200046-2
Level (low/Med): Date Received: 7/13/88
% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	120U		P	
7440-36-0	Antimony	45U		P	
7440-38-2	Arsenic	1U		BH	
7440-39-3	Barium	20U		P	
7440-41-7	Beryllium	1U		P	
7440-43-9	Cadmium	5U		P	
7440-70-2	Calcium	[2200]		P	
7440-47-3	Chromium	9U		P	
7440-48-4	Cobalt	10U		P	
7440-50-8	Copper	[11]		P	
7439-89-6	Iron	[63]		P	
7439-92-1	Lead	.17		F	
7439-95-4	Magnesium	1600U		P	
7439-96-5	Manganese	9U		P	
7439-97-6	Mercury	[0.2]		CV	
7440-02-0	Nickel	25U		P	
7440-09-7	Potassium	[1600]		P	
7782-49-2	Selenium	[2]		BH	
7440-22-4	Silver	7U		P	
7440-23-5	Sodium	280,000		P	
7440-28-0	Thallium	5U		F	
7440-62-2	Vanadium	15U		P	
7440-66-6	Zinc	9U		P	

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

FORM IB

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: G202

Matrix (soil/water): water Lab Sample ID: 200046-2

Level (low/Med): Date Received: 7/13/88

% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	5U			
	Phenol				
	Sulfate	120,000			
	Sulfide	1000U			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

ZDDDDDDDDDDDDDDD?
3 Sample Number 3
3 6202 3
@DDDDDDDDDDDDDDY

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200046-2
Sample Matrix: WATER
Data Release Authorized By:

Case No: 200046
QC Report No:
Contract No: AURORA LF
Date Sample Received: 07/13/88

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 07/26/88
Date Analyzed: 07/26/88
Conc Factor: 5.000000 pH
Percent Moisture: (Not Decanted)

CAS Number		UG/L		CAS Number		UG/L	
74-87-3	Chloromethane	2	U	78-87-5	1,2-Dichloropropane	1	U
74-83-9	Bromomethane	2	U	10061-02-6	Trans-1,3-Dichloropropene	1	U
75-01-4	Vinyl Chloride	2	U	79-01-6	Trichloroethene	1	BU
75-00-3	Chloroethane	2	U	124-48-1	Dibromochloromethane	1	U
75-09-2	Methylene Chloride	0.6	BJ	79-00-5	1,1,2-Trichloroethane	1	U
67-64-1	Acetone	2		71-43-2	Benzene	1	U
75-15-0	Carbon Disulfide	1	U	10061-01-5	cis-1,3-Dichloropropene	1	U
75-35-4	1,1-Dichloroethene	1	U	110-75-8	2-Chloroethylvinylether	2	U
[illegible]-35-3	1,1-Dichloroethane	1	U	75-25-2	Bromoform	1	U
156-60-5	Trans-1,2-Dichloroethene	1	U	591-78-6	2-Hexanone	2	U
67-66-3	Chloroform	0.4	J	108-10-1	4-Methyl-2-Pentanone	2	U
107-06-2	1,2-Dichloroethane	1	U	127-18-4	Tetrachloroethene	1	U
78-93-3	2-Butanone	2	U	79-34-5	1,1,2,2-Tetrachloroethane	2	U
71-55-6	1,1,1-Trichloroethane	1	U	108-88-3	Toluene	1	B
56-23-5	Carbon Tetrachloride	1	U	108-90-7	Chlorobenzene	1	U
108-05-4	Vinyl Acetate	2	U	100-41-4	Ethylbenzene	1	U
75-27-4	Bromodichloromethane	1	U	100-42-5	Styrene	1	U
					Total Xylenes	1	U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

Laboratory Name: EPDL, INC.
Case No: 200042

Sample Number
G202

TENTATIVELY IDENTIFIED COMPOUNDS

(Page 4)

LAB SAMPLE ID: 200046-2

	CAS Number	Compound Name	Fraction	Scan Num	Estimated Conc UG/L	
1		UNKNOWN	VOA	284	50	J

No semi-volatile compounds found.

See page 14 for complete definitions of the data reporting qualifiers.

Form I

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200046-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >00087

Level: (low/med) LOW Date Received: 07/13/88

Moisture: not dec.--- dec. --- Date Extracted: 07/15/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 8/15/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	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
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-chloroisopropyl)ether	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
65-85-0	Benzoic acid	50.	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	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethyl Phthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Name: ARDL, INC Contract: AURORA LF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

atrix: (soil/water) WATER Lab Sample ID: 200046-2

ample wt/vol: 1000 (g/mL) ML Lab File ID: >D0087

evel: (low/med) LOW Date Received: 07/13/88

Moisture: not dec.--- dec. --- Date Extracted: 07/15/88

xtraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 8/15/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	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
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	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	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	23.	B
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	27.	B
117-84-0	Di-n-Octyl_Phthalate	2.	JB
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	Dibenzo(a,h)Anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G202

Name: ARDL, INC Contract: AURORA LF

b Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

trix: (soil/water) WATER Lab Sample ID: 200046-2

mple wt/vol: 1000 (g/mL) mL Lab File ID: >D0087

vel: (low/med) LOW Date Received: 7/13/88

Moisture: not dec. _____ dec. _____ Date Extracted: 7/15/88

traction: (SepF/Cont/Sonc) SepF Date Analyzed: 8/15/88

C Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

umber TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108883	toluene	6.76	2.2	
2.	unknown	7.23	4.0	
3.	unknown	7.88	3.0	
4.	unknown	8.22	8.0	
5.	unknown	14.93	2.0	
6.	unknown alkane	17.95	3.0	
7.	unknown alkane	19.08	1.0	
8.	unknown	23.69	29	
9.	unknown	26.73	6.0	
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

EPA SAMPLE NO.
G202

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) WATER
Sample wt/vol: 1000 (g/mL) mL
Level: (low/med) low
% Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) SEPF
GPC Cleanup: (Y/N) N pH: _____

Contract: Aurora LF
Lab Sample ID: 200046-2
Lab File ID: _____
Date Received: 07/13/88
Date Extracted: 07/14/88
Date Analyzed: 08/24/88
Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	0.05	U
319-85-7----	beta-BHC	0.05	U
319-86-8----	delta-BHC	0.05	U
58-89-9-----	gamma-BHC (Lindane)	0.05	U
76-44-8-----	Heptachlor	0.05	U
309-00-2----	Aldrin	0.05	U
1024-57-3---	Heptachlor epoxide	0.05	U
959-98-8----	Endosulfan I	0.05	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
5103-71-9---	alpha-Chlordane	0.50	U
5103-74-2---	gamma-Chlordane	0.50	U
8001-35-2---	Toxaphene	1.0	U
12674-11-2--	Aroclor-1016	0.50	U
11104-28-2--	Aroclor-1221	0.50	U
11141-16-5--	Aroclor-1232	0.50	U
53469-21-9--	Aroclor-1242	0.50	U
12672-29-6--	Aroclor-1248	0.50	U
11097-69-1--	Aroclor-1254	1.0	U
11096-82-5--	Aroclor-1260	1.0	U

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: G203
Matrix (soil/water): Water Lab Sample ID: 200046-3
Level (low/Med): Date Received: 7/13/88
% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	120U		P	
7440-36-0	Antimony	105		P	
7440-38-2	Arsenic	1U		BH	
7440-39-3	Barium	[27]		P	
7440-41-7	Beryllium	1U		P	
7440-43-9	Cadmium	5U		P	
7440-70-2	Calcium	62,000		P	
7440-47-3	Chromium	9U		P	
7440-48-4	Cobalt	10U		P	
7440-50-8	Copper	[11]		P	
7439-89-6	Iron	2300		P	
7439-92-1	Lead	39		F	
7439-95-4	Magnesium	88,000		P	
7439-96-5	Manganese	[13]		P	
7439-97-6	Mercury	0.1U		CV	
7440-02-0	Nickel	25U		P	
7440-09-7	Potassium	[2300]		P	
7782-49-2	Selenium	2U		BH	
7440-22-4	Silver	7U		P	
7440-23-5	Sodium	39000		P	
7440-28-0	Thallium	10U		F	
7440-62-2	Vanadium	15U		P	
7440-66-6	Zinc	210		P	

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

FORM IB

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: G-203

Matrix (soil/water): water Lab Sample ID: 200046-3

Level (low/Med): Date Received: 7/13/88

% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	5U			
	Phenol				
	Sulfate	160,000			
	Sulfide	1000U			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

ZDDDDDDDDDDDDDDD?
3 Sample Number 3
3 6203 3
@DDDDDDDDDDDDDDDY

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: ARDL, INC.
Case No: 200046-3
Lab Sample ID No: 200046-3
QC Report No:
Sample Matrix: WATER
Contract No: AURORA LF
Data Release Authorized By:
Date Sample Received: 07/13/88

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 07/26/88
Date Analyzed: 07/26/88
Conc Factor: 5.000000 pH
Percent Moisture: (Not Decanted)

CAS Number		UG/L	CAS Number		UG/L
74-87-3	Chloromethane	2 U	78-87-5	1,2-Dichloropropane . . .	1 U
74-83-9	Bromomethane	2 U	10061-02-6	Trans-1,3-Dichloroproene .	1 U
75-01-4	Vinyl Chloride	2 U	79-01-6	Trichloroethene	1 BU
75-00-3	Chloroethane	2 U	124-48-1	Dibromochloromethane . . .	1 U
75-09-2	Methylene Chloride	0.6BJ	79-00-5	1,1,2-Trichloroethane . .	1 U
67-64-1	Acetone	0.6J	71-43-2	Benzene	1 U
75-15-0	Carbon Disulfide	1 U	10061-01-5	cis-1,3-Dichloropropene .	1 U
75-35-4	1,1-Dichloroethene	1 U	110-75-8	2-Chloroethylvinylether .	2 U
75-35-3	1,1-Dichloroethane	1 U	75-25-2	Bromoform	1 U
156-60-5	Trans-1,2-Dichloroethene .	1 U	591-78-6	2-Hexanone	2 U
67-66-3	Chloroform	0.3J	108-10-1	4-Methyl-2-Pentanone . . .	2 U
107-06-2	1,2-Dichloroethane	1 U	127-18-4	Tetrachloroethene	1 U
78-93-3	2-Butanone	2 U	79-34-5	1,1,2,2-Tetrachloroethane	2 U
71-55-6	1,1,1-Trichloroethane . .	1 U	108-88-3	Toluene	1 BU
56-23-5	Carbon Tetrachloride . . .	1 U	108-90-7	Chlorobenzene	1 U
108-05-4	Vinyl Acetate	2 U	100-41-4	Ethylbenzene	1 U
75-27-4	Bromodichloromethane . . .	1 U	100-42-5	Styrene	1 U
				Total Xylenes	1 U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

Laboratory Name: MEDL, INC.
Case No: 200046

Sample Number
G203

TENTATIVELY IDENTIFIED COMPOUNDS
(Page 4)

LAB SAMPLE ID NO.: 200046-3

	CAS Number	Compound Name	Fraction	Scan Num	Estimated Conc UG/L
1	124-38-9	CARBON DIOXIDE (ACN)	VOA	16	50
2		UNKNOWN	VOA	286	2.9
3	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUORO-	VOA	395	0.25

No semi-volatile compounds found.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G203

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200046-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >D0088

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.--- dec. --- Date Extracted: 07/15/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 8/15/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/ L	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
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-chloroisopropyl)ether	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
65-85-0	Benzoic acid	50.	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	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethyl Phthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G203

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200046-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >D0088

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.--- dec. --- Date Extracted: 07/15/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 8/15/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/ L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	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
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	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	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	40.	B
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	22.	B
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	Dibenzo(a,h)Anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G203

Lab Name: ARDL, Inc Contract: AURORA LF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) water Lab Sample ID: 200046-3

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >D0088

Level: (low/med) low Date Received: 7/13/88

% Moisture: not dec. _____ dec. _____ Date Extracted: 7/15/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 8/15/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.23	6.0	
2.	unknown	7.89	5.0	
3.	unknown	8.22	19.	
4.	unknown alkane	17.96	2.0	
5.	unknown	23.54	2.0	
6.	unknown alkene	23.68	32	
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

EPA SAMPLE NO.
G203

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) WATER
Sample wt/vol: 1000 (g/mL) mL
Level: (low/med) low
% Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) SEPF
GPC Cleanup: (Y/N) N pH: _____

Contract: Aurora LF
Lab Sample ID: 200046-3
Lab File ID: _____
Date Received: 07/13/88
Date Extracted: 07/14/88
Date Analyzed: 08/04/88
Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	0.05	U
319-85-7----	beta-BHC	0.05	U
319-86-8----	delta-BHC	0.05	U
58-89-9-----	gamma-BHC (Lindane)	0.05	U
76-44-8-----	Heptachlor	0.05	U
309-00-2----	Aldrin	0.05	U
1024-57-3---	Heptachlor epoxide	0.05	U
959-98-8----	Endosulfan I	0.05	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
5103-71-9---	alpha-Chlordane	0.50	U
5103-74-2---	gamma-Chlordane	0.50	U
8001-35-2---	Toxaphene	1.0	U
12674-11-2--	Aroclor-1016	0.50	U
11104-28-2--	Aroclor-1221	0.50	U
11141-16-5--	Aroclor-1232	0.50	U
53469-21-9--	Aroclor-1242	0.50	U
12672-29-6--	Aroclor-1248	0.50	U
11097-69-1--	Aroclor-1254	1.0	U
11096-82-5--	Aroclor-1260	1.0	U

ZDDDDDDDDDDDDDDD[
3 Sample Number 3
3 TRIP_BLANK 3
@DDDDDDDDDDDDDDDY

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200046-4
Sample Matrix: WATER
Data Release Authorized By:

Case No: 200046
QC Report No:
Contract No: AURORA LF
Date Sample Received: 07/13/88

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 07/26/88
Date Analyzed: 07/26/88
Conc Factor: 5.000000 pH
Percent Moisture: (Not Decanted)

CAS Number		UG/L		CAS Number		UG/L	
74-87-3	Chloromethane	2	U	78-87-5	1,2-Dichloropropane	1	U
74-83-9	Bromomethane	2	U	10061-02-6	Trans-1,3-Dichloroproene	1	U
75-01-4	Vinyl Chloride	2	U	79-01-6	Trichloroethene	1	BU
75-00-3	Chloroethane	2	U	124-48-1	Dibromochloromethane	1	U
75-09-2	Methylene Chloride	3	B	79-00-5	1,1,2-Trichloroethane	1	U
67-64-1	Acetone	1	J	71-43-2	Benzene	1	U
75-15-0	Carbon Disulfide	1	U	10061-01-5	cis-1,3-Dichloropropene	1	U
75-35-4	1,1-Dichloroethene	1	U	110-75-8	2-Chloroethylvinylether	2	U
75-35-3	1,1-Dichloroethane	1	U	75-25-2	Bromoform	1	U
156-60-5	Trans-1,2-Dichloroethene	1	U	591-78-6	2-Hexanone	2	U
67-66-3	Chloroform	1		108-10-1	4-Methyl-2-Pentanone	2	U
107-06-2	1,2-Dichloroethane	1	U	127-18-4	Tetrachloroethene	1	U
78-93-3	2-Butanone	2	U	79-34-5	1,1,2,2-Tetrachloroethane	2	U
71-55-6	1,1,1-Trichloroethane	1	U	108-88-3	Toluene	0.3	BJ
56-23-5	Carbon Tetrachloride	1	U	108-90-7	Chlorobenzene	1	U
108-05-4	Vinyl Acetate	2	U	100-41-4	Ethylbenzene	1	U
75-27-4	Bromodichloromethane	1	U	100-42-5	Styrene	1	U
					Total Xylenes	1	U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

Laboratory Name: [illegible]
Case No: [illegible]

Sample Number
TRIP_BLANK

TENTATIVELY IDENTIFIED COMPOUNDS

Page 4/

LAB SAMPLE ID 200096-4

	CAS Number	Compound Name	Fraction	Scan Num	Estimated Conc UG/L
1	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUORO-	VOA	395	50 J

No semi-volatile compounds found.

See page 1A for complete definitions of the data reporting qualifiers.

Form 1

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: X101

Matrix (soil/water): soil Lab Sample ID: 200046-5

Level (low/Med): Date Received: 7/13/88

% Solids: 96

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

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	9420		P	
7440-36-0	Antimony	6.7U		P	
7440-38-2	Arsenic	[2.5]		BH	
7440-39-3	Barium	53		P	
7440-41-7	Beryllium	9.0		P	
7440-43-9	Cadmium	0.74U		P	
7440-70-2	Calcium	69000		P	
7440-47-3	Chromium	13		P	
7440-48-4	Cobalt	13		P	
7440-50-8	Copper	18		P	
7439-89-6	Iron	15400		P	
7439-92-1	Lead	27		F	
7439-95-4	Magnesium	40,300		P	
7439-96-5	Manganese	600		P	
7439-97-6	Mercury	0.065		CV	
7440-02-0	Nickel	22		P	
7440-09-7	Potassium	1490		P	
7782-49-2	Selenium	[0.40]		BH	
7440-22-4	Silver	[1.1]	N	P	
7440-23-5	Sodium	[210]		P	
7440-28-0	Thallium	0.76U		F	
7440-62-2	Vanadium	24		P	
7440-66-6	Zinc	69	E	P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM I3

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: X101

Matrix (soil/water): Soil Lab Sample ID: 200046-5

Level (low/Med): Date Received: 7/13/88

% Solids: 96

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	0.17U			
	Phenol				
	Sulfate	43			
	Sulfide	5.2U			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC Contract: AURORA MLF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046-5

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 3V4605

Level: (low/med) LOW Date Received: 07/13/88

Moisture: not dec. 0.1 Date Analyzed: 7/18/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/UG	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	16.	B
67-64-1	Acetone	140.	B
75-15-0	Carbon Disulfide	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
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	21.	B
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	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
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	6.	B
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	5.	U
106-42-3	o & p-Xylene	5.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ARDL, Inc. Contract: AURCRA MLF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 200046-5

Sample wt/vol: 5 (g/mL) g Lab File ID: >V4605

Level: (low/med) LOW Date Received: 7/13/88

% Moisture: not dec. 0.1 Date Analyzed: 7/18/88

Column: (pack/cap) PACK Dilution Factor: 1

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	14.32	60	
2.		Unknown	14.39	88	
3.		Unknown	14.51	89	
4.		Unknown	16.22	35	
5.		Unknown	16.29	47	
6.		Unknown	16.53	7	
7.		Unknown	18.19	4	
8.		Unknown	20.44	3	
9.		Unknown	27.04	4	
10.		Unknown	31.43	8	
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

ab Name: ARDL, INC Contract: AURORA LF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200046-5

ample wt/vol: 30 (g/mL) G Lab File ID: >D0092

evel: (low/med) LOW Date Received: 07/13/88

Moisture: not dec.--- dec. --- Date Extracted: 07/14/88

xtraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/15/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	1700.	U
111-91-1	bis(-2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

ab Name: ABDL, INC Contract: AURORA LF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200046-5

ample wt/vol: 30 (g/mL) G Lab File ID: >D0092

vel: (low/med) LOW Date Received: 07/13/88

Moisture: not dec.--- dec. --- Date Extracted: 07/14/88

xtraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/15/88

PC Cleanup: (Y/N) N pH:--- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	2200	B
206-44-0	Fluoranthene	40.	J
129-00-0	Pyrene	31	J
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)anthracene	330.	U
218-01-9	Chrysene	330.	U
117-81-7	bis(2-Ethylhexyl)phthalate	110.	J B
117-84-0	Di-n-Octyl_Phthalate	330.	U
205-99-2	Benzo(b)fluoranthene	330.	U
207-08-9	Benzo(k)fluoranthene	330.	U
50-32-8	Benzo(a)pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenzo(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Name: HROL, INC Contract: AURORA LF

.b Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

.trix: (soil/water) SOIL Lab Sample ID: 200046-5

ımple wt/vol: 30 (g/mL) g Lab File ID: 200092

:vel: (low/med) LOW Date Received: 7/13/88

Moisture: not dec. _____ dec. _____ Date Extracted: 7/14/88

traction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/15/88

C Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

umber TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	108883	Toluene	6.86	3700	
2.		unknown	7.38	1700	
.		unknown	8.33	10000	
4.		unknown	8.83	170	
5.	95476	Benzene, 1,2-dimethyl	8.94	170	
6.		unknown	9.75	590	
7.		unknown	10.98	400	
8.		unknown	13.49	1100	
9.		unknown	14.18	1100	
10.		unknown	19.63	100	
11.		unknown alkane	21.16	100	
12.		unknown alkane	21.28	100	
13.		unknown	22.08	1100	
14.		unknown	24.74	200	
15.		unknown	26.57	2000	
16.		unknown	27.77	200	
17.		unknown alkane	30.67	460	
18.		unknown	33.61	360	
19.		unknown alkane	34.85	1900	
20.		unknown alkane	40.95	990	
21.					
22.					
23.					
24.					
25.					
26.					
27.					
29.					
30.					

EPA SAMPLE NO.
X101

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Contract: Aurora LF
Matrix: (soil/water) SOIL
Lab Sample ID: 200046-5
Sample wt/vol: 30.0 (g/mL) G
Lab File ID:
Level: (low/med) LOW
Date Received: 07/13/88
% Moisture: not dec. ____ dec. ____
Date Extracted: 07/14/88
Extraction: (SepF/Cont/Sonc) SONC
Date Analyzed: 07/27/88
GPC Cleanup: (Y/N) N pH: ____
Dilution Factor: 0.05

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

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	8.0	U
319-85-7----	beta-BHC	8.0	U
319-86-8----	delta-BHC	8.0	U
58-89-9-----	gamma-BHC (Lindane)	8.0	U
76-44-8-----	Heptachlor	8.0	U
309-00-2----	Aldrin	8.0	U
1024-57-3---	Heptachlor epoxide	8.0	U
959-98-8----	Endosulfan I	16	U
60-57-1-----	Dieldrin	16	U
72-55-9-----	4,4'-DDE	16	U
72-20-8-----	Endrin	16	U
33213-65-9--	Endosulfan II	16	U
72-54-8-----	4,4'-DDD	16	U
1031-07-8---	Endosulfan sulfate	16	U
50-29-3-----	4,4'-DDT	16	U
72-43-5-----	Methoxychlor	80	U
53494-70-5--	Endrin ketone	16	U
5103-71-9---	alpha-Chlordane	80	U
5103-74-2---	gamma-Chlordane	80	U
8001-35-2---	Toxaphene	160	U
12674-11-2--	Aroclor-1016	80	U
11104-28-2--	Aroclor-1221	80	U
11141-16-5--	Aroclor-1232	80	U
53469-21-9--	Aroclor-1242	80	U
12672-29-6--	Aroclor-1248	80	U
11097-69-1--	Aroclor-1254	160	U
11096-82-5--	Aroclor-1260	160	U

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: X102

Matrix (soil/water): Soil Lab Sample ID: 200046-6

Level (low/Med): Date Received: 7/13/88

% Solids: 91

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

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	20,900		P	
7440-36-0	Antimony	7.3U		P	
7440-38-2	Arsenic	6.3		BH	
7440-39-3	Barium	110		P	
7440-41-7	Beryllium	16		P	
7440-43-9	Cadmium	0.80U		P	
7440-70-2	Calcium	10,900		P	
7440-47-3	Chromium	26		P	
7440-48-4	Cobalt	20		P	
7440-50-8	Copper	31		P	
7439-89-6	Iron	27,500		P	
7439-92-1	Lead	60		F	
7439-95-4	Magnesium	10,200		P	
7439-96-5	Manganese	620		P	
7439-97-6	Mercury	0.046		CV	
7440-02-0	Nickel	46		P	
7440-09-7	Potassium	3100		P	
7782-49-2	Selenium	[0.48]		BH	
7440-22-4	Silver	1.1U	N	P	
7440-23-5	Sodium	[190]		P	
7440-28-0	Thallium	0.78U		F	
7440-62-2	Vanadium	46		P	
7440-66-6	Zinc	110	E	P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IB

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: X102

Matrix (soil/water): soil Lab Sample ID: 200046-6

Level (low/Med): Date Received: 7/13/88

% Solids: 91

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	0.18			
	Phenol				
	Sulfate	160			
	Sulfide	5.5U			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

ab Name: URDL, INC Contract: AURORA MLF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 20004c-6

ample wt/vol: 5.0 (g/mL) G Lab File ID: V4606

evel: (low/med) LOW Date Received: 07/13/88

Moisture: not dec. 0.1 Date Analyzed: 7/19/88

olumn: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/UG	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	12.	B
67-64-1	Acetone	68.	B
75-15-0	Carbon Disulfide	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
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	23.	B
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	2.	J
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
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	JB
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	5.	U
106-42-3	o & p-Xylene	5.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X 102

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 200046-6

Sample wt/vol: 5 (g/mL) g Lab File ID: > V4606

Level: (low/med) LOW Date Received: 7/13/88

% Moisture: not dec. 0.1 Date Analyzed: 7/19/88

Column: (pack/cap) PACK Dilution Factor: 1

Number TICs found: 8

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	16.55	9	
2.		unknown	16.63	11	
3.		unknown	16.82	12	
4.		unknown	17.06	10	
5.		Unknown	17.13	20	
6.		unknown	19.65	7	
7.		unknown	27.30	9	
8.		unknown	31.41	9	
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046-6

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >D0098

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.--- dec. --- Date Extracted: 07/14/88

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	75.	J
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	1700.	U
111-91-1	bis(-2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	6.	J
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	9.	J
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046-6

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >D0098

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.--- dec. --- Date Extracted: 07/14/88

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	25.	J
120-12-7	Anthracene	25.	J
84-74-2	Di-n-butylphthalate	3100.	B
206-44-0	Fluoranthene	39.	J
129-00-0	Pyrene	38	J
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)anthracene	330.	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	24.	JB
117-84-0	Di-n-Octyl_Phthalate	7.	J
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenzo(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X 102

Lab Name: ARDL, INC. Contract: MUCKALF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 200046-6

Sample wt/vol: 30 (g/mL) g Lab File ID: >D 0098

Level: (low/med) LOW Date Received: 7/13/88

% Moisture: not dec. _____ dec. _____ Date Extracted: 7/14/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	8.55	4000	
2.	unknown	9.75	130	
3.	unknown	10.15	230	
4.	unknown	10.98	360	
5.	unknown	11.77	200	
6.	unknown	13.06	66	
7.	unknown	13.66	170	
8.	unknown	14.17	1100	
9.	unknown	17.97	66	
10.	unknown	19.09	66	
11.	unknown alkane	19.61	66	
12.	unknown	21.15	66	
13.	unknown	21.27	99	
14.				
15.				
16.	unknown	24.73	99	
17.	unknown	26.56	1700	
18.	unknown	27.75	200	
19.	unknown	30.66	330	
20.	unknown	33.58	260	
21.	unknown	34.82	1200	
22.	unknown alkane	40.91	1100	
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

EPA SAMPLE NO.
X102

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) SOIL
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW
% Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) SONC
GPC Cleanup: (Y/N) N pH: _____

Contract: Aurora LF
Lab Sample ID: 200046-6
Lab File ID: _____
Date Received: 07/13/88
Date Extracted: 07/14/88
Date Analyzed: 07/27/88
Dilution Factor: 0.05

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

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	8.0	U
319-85-7----	beta-BHC	8.0	U
319-86-8----	delta-BHC	8.0	U
58-89-9-----	gamma-BHC (Lindane)	8.0	U
76-44-8-----	Heptachlor	8.0	U
309-00-2----	Aldrin	8.0	U
1024-57-3---	Heptachlor epoxide	8.0	U
959-98-8----	Endosulfan I	16	U
60-57-1-----	Dieldrin	16	U
72-55-9-----	4,4'-DDE	16	U
72-20-8-----	Endrin	16	U
33213-65-9--	Endosulfan II	16	U
72-54-8-----	4,4'-DDD	16	U
1031-07-8---	Endosulfan sulfate	16	U
50-29-3-----	4,4'-DDT	16	U
72-43-5-----	Methoxychlor	80	U
53494-70-5--	Endrin ketone	16	U
5103-71-9---	alpha-Chlordane	80	U
5103-74-2---	gamma-Chlordane	80	U
8001-35-2---	Toxaphene	160	U
12674-11-2--	Aroclor-1016	80	U
11104-28-2--	Aroclor-1221	80	U
11141-16-5--	Aroclor-1232	80	U
53469-21-9--	Aroclor-1242	80	U
12672-29-6--	Aroclor-1248	80	U
11097-69-1--	Aroclor-1254	160	U
11096-82-5--	Aroclor-1260	160	U

FORM I PEST

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: X103

Matrix (soil/water): Soil Lab Sample ID: 200046-7

Level (low/Med): Date Received: 7/13/88

% Solids: 90

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

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	6390		P	
7440-36-0	Antimony	7.3U		P	
7440-38-2	Arsenic	[2.7]		BH	
7440-39-3	Barium	26		P	
7440-41-7	Beryllium	7.9		P	
7440-43-9	Cadmium	0.82U		P	
7440-70-2	Calcium	64,200		P	
7440-47-3	Chromium	9.9		P	
7440-48-4	Cobalt	9.3		P	
7440-50-8	Copper	17		P	
7439-89-6	Iron	12,900		P	
7439-92-1	Lead	14		F	
7439-95-4	Magnesium	39,000		P	
7439-96-5	Manganese	310		P	
7439-97-6	Mercury	0.071		CV	
7440-02-0	Nickel	20		P	
7440-09-7	Potassium	1170		P	
7782-49-2	Selenium	[0.32]		BH	
7440-22-4	Silver	1.1U	N	P	
7440-23-5	Sodium	[200]		P	
7440-28-0	Thallium	0.78U		F	
7440-62-2	Vanadium	17		P	
7440-66-6	Zinc	53	E	P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IB

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: X103
Matrix (soil/water): Soil Lab Sample ID: 200046-7
Level (low/Med): Date Received: 7/13/88
% Solids: 90

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	0.18U			
	Phenol				
	Sulfate	33U			
	Sulfide	5.6U			

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

1H

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

ab Name: ARDL, INC Contract: AURORA MLF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200046-7

ample wt/vol: 5.0 (g/mL) G Lab File ID: V4607

evel: (low/med) LOW Date Received: 07/13/88

Moisture: not dec. 0.1 Date Analyzed: 7/19/88

olumn: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/UG	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	12.	B
67-64-1	Acetone	53.	B
75-15-0	Carbon Disulfide	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
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	17.	B
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	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
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	3.	JB
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	5.	U
106-42-3	o & p-Xylene	5.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X 103

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 200046-7

Sample wt/vol: 5 (g/mL) g Lab File ID: >V4607

Level: (low/med) LOW Date Received: 7/13/88

% Moisture: not dec. 0.1 Date Analyzed: 7/19/88

Column: (pack/cap) PACK Dilution Factor: 1

Number TICs found: 4

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	13.14	50	
2.		Unknown	13.72	7	
3.		Unknown	15.51	2	
4.		Unknown	31.34	11	
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X 103

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 200046-7

Sample wt/vol: 5 (g/mL) g Lab File ID: >V4607

Level: (low/med) LOW Date Received: 7/13/88

% Moisture: not dec. 0.1 Date Analyzed: 7/19/88

Column: (pack/cap) PACK Dilution Factor: 1

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	13.14	50	
2.	Unknown	13.72	7	
3.	Unknown	15.51	2	
4.	Unknown	31.34	11	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046-7

Sample wt/vol: 30 (g/mL) G Lab File ID: D0099

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.0.1 dec. Date Extracted: 07/14/88

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH:--- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	1700.	U
111-91-1	bis(-2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046-7

Sample wt/vol: 30 (g/mL) G Lab File ID: D0099

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec. dec. Date Extracted: 07/14/88

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	15.	J
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	2900.	B
206-44-0	Fluoranthene	9.	J
129-00-0	Pyrene	9.	J
85-68-7	Butylbenzylphthalate	8.	J
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)anthracene	330.	U
218-01-9	Chrysene	330.	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.	U
117-84-0	Di-n-Octyl_Phthalate	6.	JB
205-99-2	Benzo(b)fluoranthene	330.	U
207-08-9	Benzo(k)fluoranthene	330.	U
50-32-8	Benzo(a)pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenzo(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ARDL, INC Contract: AURORA CF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 200046-7

Sample wt/vol: 30 (g/mL) G Lab File ID: >D0099

Level: (low/med) LOW Date Received: 7/13/88

% Moisture: not dec. _____ dec. _____ Date Extracted: 7/14/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/16/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

Number TICs found: 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		unknown	8.73	7600	
2.		unknown	11.00	220	
3.		unknown	11.30	110	
4.		unknown	14.19	1100	
5.		unknown alkane	17.54	98	
6.		unknown	17.98	110	
7.		unknown alkane	19.11	220	
8.		unknown	19.29	220	
9.		unknown alkane	19.64	220	
10.		unknown alkane	21.17	220	
11.		unknown alkane	21.29	330	
12.		unknown phthalate	22.09	19	
13.		unknown	22.46	110	
14.		unknown	23.90	330	
15.		unknown	24.74	220	
16.		unknown	26.58	2200	
17.		unknown	27.09	220	
18.		unknown	27.77	220	
19.		unknown	30.66	220	
20.		unknown	34.80	220	
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

EPA SAMPLE NO.
X103

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) SOIL
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW
% Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) SONC
GPC Cleanup: (Y/N) N pH: _____

Contract: Aurora LF
Lab Sample ID: 200045-7
Lab File ID: _____
Date Received: 07/13/88
Date Extracted: 07/14/88
Date Analyzed: 07/27/88
Dilution Factor: 0.05

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

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	8.0	U
319-85-7----	beta-BHC	8.0	U
319-86-8----	delta-BHC	8.0	U
58-89-9-----	gamma-BHC (Lindane)	8.0	U
76-44-8-----	Heptachlor	8.0	U
309-00-2----	Aldrin	8.0	U
1024-57-3---	Heptachlor epoxide	8.0	U
959-98-8----	Endosulfan I	16	U
60-57-1-----	Dieldrin	16	U
72-55-9-----	4,4'-DDE	16	U
72-20-8-----	Endrin	16	U
33213-65-9--	Endosulfan II	16	U
72-54-8-----	4,4'-DDD	16	U
1031-07-8---	Endosulfan sulfate	16	U
50-29-3-----	4,4'-DDT	16	U
72-43-5-----	Methoxychlor	80	U
53494-70-5--	Endrin ketone	16	U
5103-71-9---	alpha-Chlordane	80	U
5103-74-2---	gamma-Chlordane	80	U
8001-35-2---	Toxaphene	160	U
12674-11-2--	Aroclor-1016	80	U
11104-28-2--	Aroclor-1221	80	U
11141-16-5--	Aroclor-1232	80	U
53469-21-9--	Aroclor-1242	80	U
12672-29-6--	Aroclor-1248	80	U
11097-69-1--	Aroclor-1254	160	U
11096-82-5--	Aroclor-1260	160	U

FORM I PEST

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: X104

Matrix (soil/water): Soil Lab Sample ID: 200046-8

Level (low/Med): Date Received: 7/13/88

% Solids: 68

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

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	7090		P	
7440-36-0	Antimony	8.5U		P	
7440-38-2	Arsenic	[2.8]		BH	
7440-39-3	Barium	130		P	
7440-41-7	Beryllium	11		P	
7440-43-9	Cadmium	0.94U		P	
7440-70-2	Calcium	78,400		P	
7440-47-3	Chromium	26		P	
7440-48-4	Cobalt	11		P	
7440-50-8	Copper	25		P	
7439-89-6	Iron	17,400		P	
7439-92-1	Lead	65		F	
7439-95-4	Magnesium	43,500		P	
7439-96-5	Manganese	470		P	
7439-97-6	Mercury	[0.054]		CV	
7440-02-0	Nickel	22		P	
7440-09-7	Potassium	1030		P	
7782-49-2	Selenium	0.38U		BH	
7440-22-4	Silver	[1.4]	N	P	
7440-23-5	Sodium	[650]		P	
7440-28-0	Thallium	1.1U		F	
7440-62-2	Vanadium	14		P	
7440-66-6	Zinc	74	E	P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IB

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: X104

Matrix (soil/water): Soil Lab Sample ID: 200046-8

Level (low/Med): Date Received: 7/13/88

% Solids: 68

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	0.23			
	Phenol				
	Sulfate	440			
	Sulfide	7.4U			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: NAPL,INC Contract: AURORA MLF

Lab Code: --- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046 8

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V4608

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.0.1 Date Analyzed: 7/19/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/UG	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	20.	B
67-64-1	Acetone	160.	B
75-15-0	Carbon Disulfide	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
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	6.	J
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
71-43-2	Benzene	9.	
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	7.	B
108-90-7	Chlorobenzene	2.	J
100-41-4	Ethylbenzene	71.	
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	180.	
106-42-3	o & p-Xylene	190.	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ARDL, INC Contract: AURORA MLF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 200046-8

Sample wt/vol: 5 (g/mL) g Lab File ID: >V4608

Level: (low/med) LOW Date Received: 7/13/88

% Moisture: not dec. 0.1 Date Analyzed: 7/19/88

Column: (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	14.46	38	
2.		UNKNOWN	14.65	33	
3.		UNKNOWN	14.73	29	
4.		UNKNOWN	14.85	25	
5.					
6.		UNKNOWN	17.17	7	
7.		UNKNOWN	17.29	5	
8.					
9.		UNKNOWN	24.15	5	
10.		UNKNOWN	27.65	7	
11.		UNKNOWN	28.97	5	
12.		UNKNOWN	31.30	20	
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046-8

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >D0100

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.--- dec. --- Date Extracted: 07/14/88

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic acid	1700.	U
111-91-1	bis(-2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	300.	J
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	68.	J
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

JC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046-8

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >D0100

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.--- dec. --- Date Extracted: 07/14/88

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	59.	J
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	50.	J
120-12-7	Anthracene	330	U
84-74-2	Di-n-butylphthalate	2600.	B
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	110.	J
85-68-7	Butylbenzylphthalate	17.	J
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)anthracene	37.	J
218-01-9	Chrysene	61.	J
117-81-7	bis(2-Ethylhexyl)phthalate	410.	B
117-84-0	Di-n-Octyl_Phthalate	75.	J
205-99-2	Benzo(b)fluoranthene	33.	J
207-08-9	Benzo(k)fluoranthene	39.	J
50-32-8	Benzo(a)pyrene	15.	J
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenzo(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

:L Name: ARDL, INC Contract: Aurora LF

:b Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

:trix: (soil/water) SOIL Lab Sample ID: 200046-8

:mple wt/vol: 30 (g/mL) g Lab File ID: >D 0100

:vel: (low/med) LOW Date Received: 7/13/88

Moisture: not dec. _____ dec. _____ Date Extracted: 7/14/88

:traction: (SepF/Cont/Sonc) Sonc Date Analyzed: 8/16/88

C Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

umber TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	8.75	230	
2	Unknown	11.32	30	
	Unknown	13.61	6.6	
4.	Unknown	13.80	9.9	
5.	Unknown	14.16	13	
6.	Unknown	16.08	3.3	
7.	Unknown	17.53	3.0	
8.	Unknown	17.97	3.3	
9.				
10.	Unknown alkane	19.09	6.6	
11.	Unknown	20.14	2.6	
12.	Unknown	20.61	3.3	
13.	Unknown alkane	21.16	6.6	
14.	Unknown alkane	21.27	9.9	
15.	Unknown	22.08	27	
16.	Unknown alkane	23.89	6.6	
17.	Unknown	24.42	26	
18.				
19.	Unknown	26.57	99	
20.	Unknown alkane	27.75	9.9	
21.	Unknown alkane	30.65	9.9	
22.	Unknown	43.78	17	
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104RE

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046-8RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >D0102

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.--- dec. --- Date Extracted: 07/14/88

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	6.	J
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	1700.	U
111-91-1	bis(-2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	310.	J
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	71.	J
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104RE

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046-8RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >D0102

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.--- dec. --- Date Extracted: 07/14/88

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	52.	J
120-12-7	Anthracene	51.	J
84-74-2	Di-n-butylphthalate	2600.	B
206-44-0	Fluoranthene	110.	J
129-00-0	Pyrene	120.	J
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)anthracene	38.	J
218-01-9	Chrysene	62.	J
117-81-7	bis(2-Ethylhexyl)phthalate	390.	B
117-84-0	Di-n-Octyl_Phthalate	88.	J
205-99-2	Benzo(b)fluoranthene	34.	J
207-08-9	Benzo(k)fluoranthene	40.	J
50-32-8	Benzo(a)pyrene	23.	J
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenzo(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104RE

:b Name: ARDL, INC Contract: AURORALF

:b Code: _____ Case No.: 20046 SAS No.: _____ SDG No.: _____

:trix: (soil/water) SOIL Lab Sample ID: 200046-8RE

:mple wt/vol: 30 (g/mL) G Lab File ID: >D0102

:vel: (low/med) LOW Date Received: 7/13/88

Moisture: not dec. _____ dec. _____ Date Extracted: 7/14/88

:traction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/16/88

C Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.0

umber TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.74	200	
2.				
3.	UNKNOWN	11.33	33	
4.	UNKNOWN C10 Substituted Benzene	12.69	6.6	
5.	UNKNOWN	13.61	3.0	
6.	UNKNOWN	13.81	6.6	
7.	UNKNOWN	14.15	13	
8.	UNKNOWN PHENOLIC	15.57	3.0	
9.	UNKNOWN PHENOLIC	16.22	9.9	
10.	UNKNOWN ALKANE	17.54	1.6	
11.	UNKNOWN ALKANE	17.97	3.3	
12.	UNKNOWN ALKANE	19.09	6.6	
13.	UNKNOWN	20.61	3.0	
14.	UNKNOWN ALKANE	21.16	9.9	
15.	UNKNOWN ALKANE	21.28	9.9	
16.				
17.	UNKNOWN ALKANE	23.89	6.6	
18.	UNKNOWN	24.43	26	
19.	UNKNOWN	24.76	1.3	
20.	UNKNOWN	25.64	3.3	
21.	UNKNOWN	26.59	99	
22.	UNKNOWN ALKANE	27.77	9.9	
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

EPA SAMPLE NO.
X104

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) SOIL
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW
% Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) SONC
GPC Cleanup: (Y/N) N pH: _____

Contract: Aurora LF
Lab Sample ID: 200096-8
Lab File ID: _____
Date Received: 07/13/88
Date Extracted: 07/14/88
Date Analyzed: 07/27/88
Dilution Factor: 0.05

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

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	8.0	U
319-85-7----	beta-BHC	8.0	U
319-86-8----	delta-BHC	8.0	U
58-89-9-----	gamma-BHC (Lindane)	8.0	U
76-44-8-----	Heptachlor	8.0	U
309-00-2----	Aldrin	8.0	U
1024-57-3---	Heptachlor epoxide	8.0	U
959-98-8----	Endosulfan I	16	U
60-57-1-----	Dieldrin	16	U
72-55-9-----	4,4'-DDE	16	U
72-20-8-----	Endrin	16	U
33213-65-9--	Endosulfan II	16	U
72-54-8-----	4,4'-DDD	16	U
1031-07-8---	Endosulfan sulfate	16	U
50-29-3-----	4,4'-DDT	16	U
72-43-5-----	Methoxychlor	80	U
53494-70-5--	Endrin ketone	16	U
5103-71-9---	alpha-Chlordane	80	U
5103-74-2---	gamma-Chlordane	80	U
8001-35-2---	Toxaphene	160	U
12674-11-2--	Aroclor-1016	80	U
11104-28-2--	Aroclor-1221	80	U
11141-16-5--	Aroclor-1232	80	U
53469-21-9--	Aroclor-1242	80	U
12672-29-6--	Aroclor-1248	80	U
11097-69-1--	Aroclor-1254	160	U
11096-82-5--	Aroclor-1260	160	U

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: X105

Matrix (soil/water): Soil Lab Sample ID: 200046-9

Level (low/Med): Date Received: 7/13/88

% Solids: 96

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

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	9340		P	
7440-36-0	Antimony	6.4U		P	
7440-38-2	Arsenic	5.4		BH	
7440-39-3	Barium	82		P	
7440-41-7	Beryllium	8.1		P	
7440-43-9	Cadmium	0.70U		P	
7440-70-2	Calcium	3770		P	
7440-47-3	Chromium	18		P	
7440-48-4	Cobalt	10		P	
7440-50-8	Copper	17		P	
7439-89-6	Iron	12,100		P	
7439-92-1	Lead	69		F	
7439-95-4	Magnesium	2840		P	
7439-96-5	Manganese	600		P	
7439-97-6	Mercury	0.096		CV	
7440-02-0	Nickel	11		P	
7440-09-7	Potassium	780		P	
7782-49-2	Selenium	[0.63]		BH	
7440-22-4	Silver	0.99U	N	P	
7440-23-5	Sodium	[110]		P	
7440-28-0	Thallium	0.65U		F	
7440-62-2	Vanadium	28		P	
7440-66-6	Zinc	96	E	P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IB

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: X105

Matrix (soil/water): Soil Lab Sample ID: 200046-9

Level (low/Med): Date Received: 7/13/88

% Solids: 96

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	0.44			
	Phenol				
	Sulfate	31U			
	Sulfide	5.2U			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ARDL, INC Contract: AURORA MLF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046-9

Sample wt/vol: 5.0 (g/mL) G Lab File ID: X04609

Level: (low/med) LOW Date Received: 07/13/88

Moisture: not dec. 0.1 Date Analyzed: 7/19/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/UG	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	16.	B
67-64-1	Acetone	130.	B
75-15-0	Carbon Disulfide	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
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	65.	B
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	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
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	18.	B
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	11.	
106-42-3	o & p-Xylene	2.	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: AKDL, INC Contract: AURORA LF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 200046-9

Sample wt/vol: 5 (g/mL) g Lab File ID: >V4609

Level: (low/med) LOW Date Received: 7/13/88

% Moisture: not dec. 0.1 Date Analyzed: 7/19/88

Column: (pack/cap) PACK Dilution Factor: 1

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	13.14	50	
2.	unknown	15.31	6	
3.	unknown	15.43	5	
4.				
5.	unknown	15.78	7	
6.	unknown	15.90	5	
7.	unknown	31.46	11	
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046-9

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >D0101

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.--- dec. --- Date Extracted: 07/14/88

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	1700.	U
111-91-1	bis(-2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046-9

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >D0101

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec.--- dec. --- Date Extracted: 07/14/88

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	35.	J
120-12-7	Anthracene	35.	J
84-74-2	Di-n-butylphthalate	2000.	B
206-44-0	Fluoranthene	50.	J
129-00-0	Pyrene	42.	J
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)anthracene	27.	J
218-01-9	Chrysene	30.	J
117-81-7	bis(2-Ethylhexyl)phthalate	330.	U
117-84-0	Di-n-Octyl_Phthalate	140.	J
205-99-2	Benzo(b)fluoranthene	31.	J
207-08-9	Benzo(k)fluoranthene	37.	J
50-32-8	Benzo(a)pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenzo(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ARDL, INC Contract: Aurora LF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 200046-9

Sample wt/vol: 30 (g/mL) g Lab File ID: > D0101

Level: (low/med) Low Date Received: 7/13/88

Moisture: not dec. _____ dec. _____ Date Extracted: 7/14/88

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1

Number TICs found: 18

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		unknown	8.62	130	
2.		unknown	10.91	3.3	
3.		unknown	14.17	23	
4.		unknown alkane	17.96	2.0	
5.		unknown alkane	19.09	2.6	
6.		unknown	19.28	6.6	
7.		unknown	19.98	0.99	
8.		unknown alkane	21.16	1.3	
9.		unknown	22.08	18	
10.		unknown	24.73	2.0	
11.		unknown	26.56	26	
12.		unknown	27.76	33	
13.		unknown alkane	30.65	9.9	
14.		unknown alcohol	33.59	20	
15.		unknown alkane	34.81	33	
16.		unknown	39.17	2.6	
17.		unknown alkane	40.92	33	
18.		unknown	49.94	3.3	
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105RE

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200046-9RE

Sample wt/vol: 30 (g/mL) G Lab File ID: >D0103

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec. dec. Date Extracted: 07/14/88

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	1700.	U
111-91-1	bis(-2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105RE

ab Name: ARDL, INC Contract: AURORA LF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200046-9RE

ample wt/vol: 30 (g/mL) G Lab File ID: >D0103

evel: (low/med) LOW Date Received: 07/13/88

Moisture: not dec. dec. Date Extracted: 07/14/88

xtraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/16/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	35.	J
120-12-7	Anthracene	34.	J
84-74-2	Di-n-butylphthalate	2000.	B
206-44-0	Fluoranthene	52.	J
129-00-0	Pyrene	43.	J
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	29.	J
117-81-7	bis(2-Ethylhexyl)phthalate	330.	U
117-84-0	Di-n-Octyl_Phthalate	130.	J
205-99-2	Benzo(b)fluoranthene	20.	J
207-08-9	Benzo(k)fluoranthene	24.	J
50-32-8	Benzo(a)pyrene	19.	J
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenzo(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X 105 RE

ab Name: ARDL, Inc Contract: AURORA LF

ab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

atrix: (soil/water) SOIL Lab Sample ID: 200046-9RE

ample wt/vol: 30 (g/mL) g Lab File ID: >D0103

evel: (low/med) low Date Received: 7/13/88

Moisture: not dec. _____ dec. _____ Date Extracted: 7/14/88

xtraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 8/16/88

PC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

umber TICs found: 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.63	4400	
2.		UNKNOWN	10.74	980	
3.		UNKNOWN	14.18	760	
4.					
5.		UNKNOWN	17.98	65	
6.		UNKNOWN ALKANE	19.10	76	
7.		UNKNOWN	19.28	220	
8.		UNKNOWN	19.63	33	
9.	119619	Benzophenone	19.98	33	
10.		UNKNOWN	21.17	44	
11.		UNKNOWN	23.90	44	
12.		UNKNOWN	24.74	54	
13.		UNKNOWN	25.63	65	
14.		UNKNOWN	26.57	980	
15.		UNKNOWN	27.77	110	
16.		UNKNOWN ALKANE	30.68	330	
17.	629801	Hexadecanal	33.62	650	
18.		UNKNOWN	34.85	3300	
19.		UNKNOWN	39.20	330	
20.		UNKNOWN ALKANE	40.96	3300	
21.		UNKNOWN	50.02	440	
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

EPA SAMPLE NO.
X105

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Contract: Aurora LF
Matrix: (soil/water) SOIL
Lab Sample ID: 200096-9
Sample wt/vol: 30.0 (g/mL) G
Lab File ID:
Level: (low/med) LOW
Date Received: 07/13/88
% Moisture: not dec. _____ dec. _____
Date Extracted: 07/14/88
Extraction: (SepF/Cont/Sonc) SONC
Date Analyzed: 07/27/88
GPC Cleanup: (Y/N) N pH: _____
Dilution Factor: 0.05

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

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	8.0	U
319-85-7----	beta-BHC	8.0	U
319-86-8----	delta-BHC	8.0	U
58-89-9-----	gamma-BHC (Lindane)	8.0	U
76-44-8-----	Heptachlor	8.0	U
309-00-2----	Aldrin	8.0	U
1024-57-3---	Heptachlor epoxide	8.0	U
959-98-8----	Endosulfan I	16	U
60-57-1-----	Dieldrin	16	U
72-55-9-----	4,4'-DDE	16	
72-20-8-----	Endrin	16	U
33213-65-9--	Endosulfan II	16	U
72-54-8-----	4,4'-DDD	16	U
1031-07-8---	Endosulfan sulfate	16	U
50-29-3-----	4,4'-DDT	16	U
72-43-5-----	Methoxychlor	80	U
53494-70-5--	Endrin ketone	16	U
5103-71-9---	alpha-Chlordane	80	U
5103-74-2---	gamma-Chlordane	80	U
8001-35-2---	Toxaphene	160	U
12674-11-2--	Aroclor-1016	80	U
11104-28-2--	Aroclor-1221	80	U
11141-16-5--	Aroclor-1232	80	U
53469-21-9--	Aroclor-1242	80	U
12672-29-6--	Aroclor-1248	80	U
11097-69-1--	Aroclor-1254	160	U
11096-82-5--	Aroclor-1260	160	U

FORM I PEST

ORGANIC SAMPLE DATA SUMMARY PACKAGE
FACILITY NAME: Aurora Municipal Landfill
SITE INVENTORY #: 0890050001
LABORATORY ID #: 200046

VOLUME 2

ARDL, Inc.

CHEMISTRY — BIOLOGY — PHYSIOLOGY — ENGINEERING
ENVIRONMENTAL ANALYSIS

P. O. BOX 1566
1801 FOREST STREET
MT. VERNON, ILLINOIS 62864
TELEPHONE (618) 244-3236

RECEIVED

SEP 19 1988

IEPA-DLPC

FORM O

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
CONTRACT LABORATORY SERVICES
ORGANIC ANALYSIS DATA PACKAGE

Date 9/14/88

IEPA ... SERVICES
Manager's Office

Cover Page

Lab Name ARDL, Inc. Q.C. Report No. 200046

Site Inventory No. 0890050001 Facility Name Aurora Municipal Landfill

Region Northern County Kane

CONTENTS SUMMARY - use additional page if necessary

IEPA I.D.No.	Lab I.D. No.	VOA Anal Date	SEMI-VOL. Extr Date	SEMI-VOL. Anal Date	Pesticide/PCB Extr Date	Pesticide/PCB Anal Date
G201	200046-1	7/26/88	7/15/88	8/5/88	7/14/88	8/24/88
G201MS	200046-1MS	7/26/88				
G201MSD	200046-1MSD	7/26/88				
G202	200046-2	7/26/88	7/15/88	8/15/88	7/14/88	8/24/88
G203	200046-3	7/26/88	7/15/88	8/15/88	7/14/88	8/24/88
G203MS	200046-3MS		7/15/88	8/15/88	7/14/88	8/24/88
G203MSD	200046-3MSD		7/15/88	8/15/88	7/14/88	8/24/88
Trip Blank	200046-4	7/26/88				
X101	200046-5	7/18/88	7/14/88	8/15/88	7/14/88	7/27/88
X101MS	200046-5MS	7/18/88	7/14/88	8/15/88	7/14/88	7/27/88
X101MSD	200046-5MSD	7/19/88	7/14/88	8/15/88	7/14/88	7/27/88
X102	200046-6	7/19/88	7/14/88	8/16/88	7/14/88	7/27/88
X103	200046-7	7/19/88	7/14/88	8/16/88	7/14/88	7/27/88
X104	200046-8	7/19/88	7/14/88	8/16/88	7/14/88	7/27/88
X104RE	200046-8RE		7/14/88	8/16/88	7/14/88	
X105	200046-9	7/19/88	7/14/88	8/16/88	7/14/88	7/27/88
X105RE	200046-9RE		7/14/88	8/16/88	7/14/88	
	Water Blank	7/18/88				

20000

FORM O

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
CONTRACT LABORATORY SERVICES
ORGANIC ANALYSIS DATA PACKAGE

Date 9/14/88

Cover Page

Lab Name ARDL, Inc. Q.C. Report No. 200046

Site Inventory No. 0890050001 Facility Name Aurora Municipal Landfill

Region Northern County Kane

CONTENTS SUMMARY - use additional page if necessary

IEPA I.D.No.	Lab I.D. No.	VOA Anal Date	SEMI-VOL. Extr Date	SEMI-VOL. Anal Date	Pesticide/PCB Extr Date	Pesticide/PCB Anal Date
	200046-WB1	7/26/88				
	200046-OSWB		7/15/88	8/16/88		
	200046-OSSB		7/14/88	8/15/88		
	200046-OW				7/14/88	8/24/88
	200046-OS				7/14/88	7/27/88

20001

ORGANIC ANALYSES CASE NARRATIVE

Date: 9/14/89

COVER PAGE

Lab Name: ARDL, Inc.
1801 Forest St.
Mt. Vernon, IL 62864

Site Location: Aurora Municipal Landfill Site Inventory No.: 0890050001

Region: Northern County: Kane

SAMPLE SUMMARY

IEPA NUMBER	ARDL NUMBER	LEVEL LOW	LEVEL MED	FRACTION VOA	FRACTION BNA	FRACTION PEST	FRACTION PCB	MS/MSD	RPT	DIL.	COMMENTS
G201	200046-1	X		X	X	X	X				
G201MS	200046-1MS	X		X				X			
G201MSD	200046-1MSD	X		X				X			
G202	200046-2	X		X	X	X	X				
G203	200046-3	X		X	X	X	X				
G203MS	200046-3MS	X			X	X	X	X			
G203MSD	200046-3MSD	X			X	X	X	X			
Trip Blank	200046-4	X		X							
X101	200046-5	X		X	X	X	X				
X101MS	200046-5MS	X		X	X	X	X	X			
X101MSD	200046-5MSD	X		X	X	X	X	X			
X102	200046-6	X		X	X	X	X				
X103	200046-7	X		X	X	X	X				
X104	200046-8	X		X	X	X	X				
X104RE	200046-8RE	X			X				X		(1)
X105	200046-9	X		X	X	X	X				
X105RE	200046-9RE	X			X				X		(1)
	Water Blank	X		X							Method Blank
	200046-WB1	X		X							Method Blank
	200046-OSWB	X			X						Method Blank

COMMENTS

(1) Surrogate recovery failure on both original and reanalysis

20002

ORGANIC ANALYSES CASE NARRATIVE

Date: 9/14/98

COVER PAGE

Lab Name: ARDL, Inc.
1801 Forest St.
Mt. Vernon, IL 62864

Site Location: Aurora Municipal Landfill Site Inventory No.: 0890050001

Region: Northern County: Kane

SAMPLE SUMMARY

IEPA NUMBER	ARDL NUMBER	LEVEL LOW	LEVEL MED	FRACTION VOA	FRACTION BNA	FRACTION PEST	FRACTION PCB	MS/MSD	RPT	DIL.	COMMENTS
	200046-05SB	X			X						Method Blank
	200046-0W	X				X	X				Method Blank
	200046-05	X				X	X				Method Blank

COMMENTS

20003

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
CONTRACT LABORATORY SERVICE
ORGANIC ANALYSES DATA PACKAGE

Date: 09/14/88

COVER PAGE

Lab Name: ARDL, Inc. Q.C. Report Number: 200046

Site Inventory No.: 0890050001 Facility Name: Aurora Municipal Landfill

Region: Northern County: Kane

Case Narrative

VOLATILE FRACTION

Air bubbles were present in the VOA containers for the following samples:

IEPA ID.#	ARDL ID.#	# Containers
G201	200046-1	1
G202	200046-2	4
G203	200046-3	3
Trip Blank	200046-4	1

All water samples were analyzed on 7/26/88 within fourteen (14) days of sample collection.

The average response factor for chloromethane on the initial calibration on 6/17/88 fell below the 0.300 minimum value. This requirement was waved by Ron Turpin, IEPA, due to mechanical limitations on the GC/MS instrument.

Drinking water levels of detection were requested on all water samples and reported herein.

No other unusual problems were encountered during volatile analysis.

SEMI-VOLATILE FRACTION

Surrogate recovery failure occurred on the original and reanalysis of IEPA #X104 (ARDL ID 200046-8) and IEPA #X105 (ARDL ID 200046-9). No other unusual problems were encountered during semi-volatile analysis.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
CONTRACT LABORATORY SERVICE
ORGANIC ANALYSES DATA PACKAGE

Date: 09/14/88

COVER PAGE (CONTINUED)

Lab Name: ARDL, Inc. Q.C. Report Number: 200046

Site Inventory No.: 0890050001 Facility Name: Aurora Municipal Landfill

Region: Northern County: Kane

Case Narrative (Continued)

PESTICIDE/PCB FRACTION

Initial sample analysis yielded the presence of a contaminant in the water matrix blank. This contaminant, Arochlor 1260, was present in the blank at levels above the CRDL. The contaminant was not present in any samples associated with this blank. However, as per the SOW, all samples and the blank were re-extracted on 8/23/88 and reanalyzed on 8/24/88. Quantitation was performed off of this second analysis. Chromatograms from both analyses have been included in this data package.

All water samples (ARDL Nos. 200046-1, 2, and 3) analyzed on 8/24/88 and the associated blank showed the presence of Endosulfan Sulfate. However, the initial analysis on 7/27/88 did not yield this compound. The same basic grouping of peak shapes was present in the chromatograms for all samples in both the 7/27/88 and 8/24/88 analyses. Therefore, it is the opinion of the analyst that Endosulfan Sulfate is not present in these samples, and the extraneous peaks are due to interferences introduced in the extraction process.

The matrix spike duplicate sample for the soil lot failed to confirm the presence of the spiked compounds. These spiked compounds fell outside the established retention time windows for the analytical column employed. The matrix spike sample confirmed the presence of all spiked compounds; additionally, the retention time shift for DBC was acceptable in all samples.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
CONTRACT LABORATORY SERVICE
ORGANIC ANALYSES DATA PACKAGE

Date: 09/14/88

COVER PAGE (CONTINUED)

Lab Name: ARDL, Inc. Q.C. Report Number: 200046

Site Inventory No.: 0890050001 Facility Name: Aurora Municipal Landfill

Region: Northern County: Kane

ORGANIC DATA REPORTING QUALIFIERS

The following organic data reporting qualifiers are used as required.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. This flag is used either when estimating a concentration for TICs where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the CRDL.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides greater than or equal to 10 ng/ul in the final extract shall be confirmed by GC/MS.

B - This flag is used when the analyte is found in the blank as well as the sample. This flag must be used for a TIC as well as for a positively identified TCL compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form 1 for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms 1. The Form 1 for the diluted sample shall have the "DL" suffix appended to the lab sample number and the EPA sample number.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
CONTRACT LABORATORY SERVICE
ORGANIC ANALYSES DATA PACKAGE

Date: 09/14/88

COVER PAGE (CONTINUED)

Lab Name: ARDL, Inc. Q.C. Report Number: 200046

Site Inventory No.: 0890050001 Facility Name: Aurora Municipal Landfill

Region: Northern County: Kane

ORGANIC DATA REPORTING QUALIFIERS

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample numbers (both lab and EPA) on the Form 1 for the diluted sample, and all concentration values reported on that Form 1 are flagged with the "D" flag.

Release of the data contained in this package has been authorized by the Technical Services Manager or his designee as verified by the following signature.

Daniel J. Gillespie
Technical Services Manager

WATER SURROGATE PERCENT RECOVERY SUMMARY
(Page 1)

Case No. 200046 Contract Laboratory ARDL, INC. Contract No. AURORA LF

	VOLATILE			SEMI-VOLATILE								PEST
	Toluene-d8	BFB	1,2-Dichloroethane-d4	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14			Phenol-d5	2-Fluorophenyl	2,4,6-Tribromophenol	Dibutylchlorendate
SMO TRAFFIC NO.	88	86	76	41	44	38			15	23	10	48 **
	110	115	114	120	119	128			103	121	130	136
G201	110	98	105									
G202	93	93	88									
G203	93	88	88									
TRIP_BLANK	88	95	94									
H2O_BLANK	94	106	107									
G201MS	119*	91	137*									
G201MSD	115*	89	145*									

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: 4 out of 21; outside of QC limits
Semi-Volatiles: ____ out of 42; outside of QC limits
Pesticides: ____ out of 7; outside of QC limits

Comments:

FORM II

2B
SOIL VOLATILE SURROGATE RECOVERY

Name: ARDL, INC Contract: AURORA MLF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

evel: (low/med) LOW

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	H2O BLK	102	97	83		0
02	X101	108	96	102		0
03	X101MS	96	88	70		0
04	X101MSD	106	89	103		0
05	X102	103	104	71		0
06	X103	104	83	93		0
07	X104	108	95	116		0
08	X105	101	75	112		0
09						
10						
11						
12						
13						
14						
15						
16						

		QC LIMITS
S1 (TOL)	= Toluene-d8	(81-117)
S2 (BFB)	= Bromofluorobenzene	(74-121)
S3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II VOA-2 1/87 Rev.

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

ıt Name: ARDL, INC Contract: AURORA LF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	G201	66	44	69	37	45	26		0
02	WATER BLAN	73	67	90	34	22	40		0
03	G202	69	56	112	29	48	91		0
04	G203	68	71	78	29	51	90		0
05	G203MS	72	87	114	33	54	93		0
06	G203MSD	67	80	96	31	52	81		0
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl-d14	(33-141)
S4 (PHL)	= Phenol-d5	(10-94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

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

20010

FORM II SV-1 1/87 Rev.

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

ab Name: ARDL, INC Contract: AURORA LF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

evel: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	X101	61	89	81	58	67	70		0
02	SOIL BLANK	70	69	100	24	39	60		0
03	X101MS	67	91	115	62	63	71		0
04	X101MSD	67	91	95	65	55	70		0
05	X103	62	81	86	42	18*	61		1
06	X104	52	74	93	22*	8*	70		2
07	X105	54	79	81	26	6*	56		1
08	X104RE	41	72	93	18*	4*	86		2
09	X105RE	40	78	81	19*	4*	70		2
10	X102	77	91	103	48	27	66		0
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl-d14	(18-137)
S4 (PHL)	= Phenol-d5	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

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

20011

FORM II SV-2 1/87 Rev.

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ARDL Contract: Aurora LF

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
01	PBLK3	60	
02	G201	52	
03	G202	62	
04	G203	57	
05	G203MS	69	
06	G203MSD	69	
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

ADVISORY QC LIMITS (24-154)

S1 (DBC) = Dibutylchlorendate

Column used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out

FORM II PEST-1

IF

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ARDL Contract: Aurora LF

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
01	PBLK4	268 *	
02	X101	66	
03	X101MS	123	
04	X101MSD	125	
05	X102	85	
06	X103	124	
07	X104	107	
08	X105	21	
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

ADVISORY QC LIMITS (20-150)

S1 (DBC) = Dibutylchlorendate

Column used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out

FORM II PEST-2

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ARDL INC Contract: AURORA LF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: G201

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	10.0	0	11	110	61-145
Trichloroethene	10.0	0.06	8	79	71-120
Benzene	10.0	0	15	150 *	76-127
Toluene	10.0	3.0	14	110	76-125
Chlorobenzene	10.0	0	9	90	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	10.0	12	120	9	14	61-145
Trichloroethene	10.0	9	89	12	14	71-120
Benzene	10.0	16	160 *	6	11	76-127
Toluene	10.0	18	150 *	31 *	13	76-125
Chlorobenzene	10.0	9	90	0	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 3 out of 10 outside limits

COMMENTS: Spiking level reduced due to drinking water samples

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

.ab Name: ARDL, INC Contract: AURORA MLF

.ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

latrix Spike - EPA Sample No.: X101 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	0.00	32.00	64	59-172
Trichloroethene	50.00	0.00	54.00	108	62-137
Benzene	50.00	0.00	32.00	64 *	66-142
Toluene	50.00	6.50	37.00	60	59-139
Chlorobenzene	50.00	0.00	39.00	77	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.00	35.00	70	8	22	59-172
Trichloroethene	50.00	38.00	76	34 *	24	62-137
Benzene	50.00	42.00	84	27 *	21	66-142
Toluene	50.00	50.00	86	35 *	21	59-139
Chlorobenzene	50.00	40.00	79	2	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

Values outside of qc limits

PD: 3 out of 5 outside limits
pike Recovery: 1 out of 10 outside limits

OMMENTS: _____

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ab Name: ARDL, INC Contract: AURORA LF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

atrix Spike - EPA Sample No.: G203

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	100.00	0.00	23.00	22	12- 89
2-Chlorophenol	100.00	0.00	41.00	40	27-123
1,4-Dichlorobenzene	50.00	0.00	38.00	76	36- 97
N-Nitroso-di-n-prop.(1)	50.00	0.00	39.00	78	41-116
1,2,4-Trichlorobenzene	50.00	0.00	39.00	77	39- 98
4-Chloro-3-methylphenol	100.00	0.00	41.00	40	23- 97
Acenaphthene	50.00	0.00	65.00	130 *	46-118
4-Nitrophenol	100.00	0.00	10.00	10	10- 80
2,4-Dinitrotoluene	50.00	0.00	80.00	160 *	24- 96
Pentachlorophenol	100.00	0.00	30.00	29	9-103
Pyrene	50.00	0.00	71.00	142 *	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	100.00	22.00	22	0	42	12- 89
2-Chlorophenol	100.00	40.00	39	2	40	27-123
1,4-Dichlorobenzene	50.00	39.00	78	2	28	36- 97
N-Nitroso-di-n-prop.(1)	50.00	38.00	76	2	38	41-116
1,2,4-Trichlorobenzene	50.00	39.00	77	0	28	39- 98
4-Chloro-3-methylphenol	100.00	38.00	38	5	42	23- 97
Acenaphthene	50.00	60.00	120 *	8	31	46-118
4-Nitrophenol	100.00	10.00	10	10	50	10- 80
2,4-Dinitrotoluene	50.00	71.00	141 *	12	38	24- 96
Pentachlorophenol	100.00	30.00	29	0	50	9-103
Pyrene	50.00	61.00	122	15	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

'D: 0 out of 11 outside limits
ike Recovery: 5 out of 22 outside limits

OMMENTS:

20016

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ab Name: ARDL, INC Contract: AURORA LF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

latrix Spike - EPA Sample No.: X101 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	3340.00	0.00	1480.00	44	26- 90
2-Chlorophenol	3340.00	0.00	1360.00	40	25-102
1,4-Dichlorobenzene	1670.00	0.00	1680.00	100	28-104
N-Nitroso-di-n-prop.(1)	1670.00	0.00	1180.00	70	41-126
1,2,4-Trichlorobenzene	1670.00	0.00	1590.00	95	38-107
4-Chloro-3-methylphenol	3340.00	0.00	1490.00	44	26-103
Acenaphthene	1670.00	0.00	2100.00	126	31-137
4-Nitrophenol	3340.00	0.00	1090.00	32	11-114
2,4-Dinitrotoluene	1670.00	0.00	2040.00	122 *	28- 89
Pentachlorophenol	3340.00	0.00	240.00	7 *	17-109
Pyrene	1670.00	31.00	2250.00	133	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3340.00	1490.00	44	0	35	26- 90
2-Chlorophenol	3340.00	1390.00	41	2	50	25-102
1,4-Dichlorobenzene	1670.00	1740.00	104	3	27	28-104
N-Nitroso-di-n-prop.(1)	1670.00	1250.00	74	5	38	41-126
1,2,4-Trichlorobenzene	1670.00	1700.00	101	6	23	38-107
4-Chloro-3-methylphenol	3340.00	1460.00	43	2	33	26-103
Acenaphthene	1670.00	2200.00	132	5	19	31-137
4-Nitrophenol	3340.00	1110.00	33	3	50	11-114
2,4-Dinitrotoluene	1670.00	2110.00	126 *	3	47	28- 89
Pentachlorophenol	3340.00	520.00	15 *	72 *	47	17-109
Pyrene	1670.00	2100.00	123	7	36	35-142

1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
Values outside of qc limits

PD: 1 out of 11 outside limits
p'ke Recovery: 4 out of 22 outside limits

OMMENTS: _____

20017

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ARDL Contract: Aurora LF

Matrix Spike - EPA Sample No.: G203

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Lindane	0.20	-	0.32	160 *	56-123
Heptachlor	0.20	-	0.26	129	40-131
Aldrin	0.20	-	0.30	149 *	40-120
Dieldrin	0.50	-	0.58	115	52-126
Endrin	0.50	-	0.68	136 *	56-121
4,4'DDT	0.50	-	0.57	113	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONC. (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Lindane	0.20	0.36	180 *	12	15	56-12
Heptachlor	0.20	0.28	144 *	11	20	40-13
Aldrin	0.20	0.33	165 *	10	22	40-12
Dieldrin	0.50	0.61	122	5.9	18	52-12
Endrin	0.50	0.73	147 *	7.8	21	56-12
4,4'DDT	0.50	0.60	120	6.0	27	38-12

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: 6 out of 12 outside limits

COMMENTS:

FORM III PEST-1

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: [illegible] Contract: [illegible]

Matrix Spike - EPA Sample No.: X101 Level:(low/med): Low

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONC. (ug/kg)	MS CONC. (ug/kg)	MS % REC #	QC LIMIT REC.
Lindane	27	—	21	78	46-12
Heptachlor	27	—	21	78	35-13
Aldrin	27	—	25	93	34-13
Dieldrin	67	—	69	103	31-13
Endrin	67	3.5	65	92	42-13
4,4'DDT	67	12	74	93	23-13

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONC. (ug/kg)	MSD % REC #	% RPD #	QC LIMIT RPD	QC LIMIT REC.
Lindane	27	18	67	15	50	46-1
Heptachlor	27	22	82	50	31	35-1
Aldrin	27	20	74	23	43	34-1
Dieldrin	67	60	73	17	38	31-1
Endrin	67	62	94	9.1	45	42-1
4,4'DDT	67	82	104	11	50	23-1

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:

FORM III PEST-2

FORM 4-VOA

VOLATILE METHOD BLANK SUMMARY

Lab Name: ARDL, Inc. Contract: Aurora LF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

EPA Sample No. for Method Blank: _____ Lab Sample ID: 200046-WB1

Instrument ID: 5100 Lab File ID: VWB726B

Date Analyzed: 7/26/88 Time Analyzed: 17:51

Matrix: (soil/water) WATER Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA Sample Number	Lab Sample ID	Lab File ID	Time of Analysis
G201	200046-1	V4601	17:04
G201MS	200046-1MS	V4501MS	18:37
G201MSD	200046-1MSD	V45XMSD	19:24
G202	200046-2	V4502	20:10
G203	200046-3	V4603	20:57
TRIP BLANK	200046-4	V4604	21:54

Comments: _____

2DDDDDDDDDDDDDDD?
3 Sample Number 3
3 H2O_BLANK 3
@DDDDDDDDDDDDDDDY

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 20004G-WB1
Sample Matrix: WATER
Data Release Authorized By:

Case No: 200046
QC Report No:
Contract No: AURORA LF
Date Sample Received: 07/26/88

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 07/26/88
Date Analyzed: 07/26/88
Conc Factor: 5.000000 pH
Percent Moisture: (Not Decanted)

CAS Number		UG/L	CAS Number		UG/L
74-87-3	Chloromethane	2 U	78-87-5	1,2-Dichloropropane . . .	1 U
74-83-9	Bromomethane	2 U	10061-02-6	Trans-1,3-Dichloroproene .	1 U
75-01-4	Vinyl Chloride	2 U	79-01-6	Trichloroethene	0.6BJ
75-00-3	Chloroethane	2 U	124-48-1	Dibromochloromethane . . .	1 U
75-09-2	Methylene Chloride	0.7BJ	79-00-5	1,1,2-Trichloroethane . .	1 U
67-64-1	Acetone	2 U	71-43-2	Benzene	1 U
75-15-0	Carbon Disulfide	1 U	10061-01-5	cis-1,3-Dichloropropene .	1 U
75-35-4	1,1-Dichloroethene	1 U	110-75-8	2-Chloroethylvinylether .	2 U
-35-3	1,1-Dichloroethane	1 U	75-25-2	Bromoform	1 U
156-60-5	Trans-1,2-Dichloroethene .	1 U	591-78-6	2-Hexanone	2 U
67-66-3	Chloroform	1 U	108-10-1	4-Methyl-2-Pentanone . . .	2 U
107-06-2	1,2-Dichloroethane	1 U	127-18-4	Tetrachloroethene	1 U
78-93-3	2-Butanone	2 U	79-34-5	1,1,2,2-Tetrachloroethane	2 U
71-55-6	1,1,1-Trichloroethane . .	1 U	108-88-3	Toluene	0.5BJ
56-23-5	Carbon Tetrachloride . . .	1 U	108-90-7	Chlorobenzene	1 U
108-05-4	Vinyl Acetate	2 U	100-41-4	Ethylbenzene	1 U
75-27-4	Bromodichloromethane . . .	1 U	100-42-5	Styrene	1 U
				Total Xylenes	1 U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

Laboratory Name: [illegible] INC.
Case No: [illegible]

Sample Number
H2O_BLANK

TENTATIVELY IDENTIFIED COMPOUNDS
(Page 4)

LAB Sample ID. 200046-WB1

	CAS Number	Compound Name	Fraction	Scan Num	Estimated Conc UG/L
1	124-38-9	CARBON DIOXIDE (ACN)	VOA	16	50 J
2		UNKNOWN	VOA	293	2.4 J
3	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUORO-	VOA	395	2.0 J

No semi-volatile compounds found.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ARDL, INC Contract: AURORA MLF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Lab File ID: >B718A Lab Sample ID: WATER BLANK

Date Analyzed: 7/18/88 Time Analyzed: 19:02

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: HP-2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	X101	200046-5	>V4605	22:50
02	X101MS	200046-5MS	>V46MS	23:36
03	X101MSD	200046-5MSD	>V6MSD	0:22
04	X102	200046-6	>V4606	1:08
05	X103	200046-7	>V4607	1:54
06	X104	200046-8	>V4608	2:40
07	X105	200046-9	>V4609	3:26
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV VOA 1/87 Rev.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

H2O BLK

Lab Name: ARDL, INC Contract: AURORA MLF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >B718A

Level: (low/med) LOW Date Received: 07/13/88

% Moisture: not dec. 0.1 Date Analyzed: 7/18/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

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	11.	B
67-64-1	Acetone	17.	B
75-15-0	Carbon Disulfide	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
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	13.	B
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	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	2.	JB
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	7.	B
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	5.	U
106-42-3	o & p-Xylene	5.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H2O BLANK

Lab Name: AROL, INC Contract: AURORA MLF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

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

Sample wt/vol: 5 (g/mL) mL Lab File ID: >B718A

Level: (low/med) LOW Date Received: 7/13/88

% Moisture: not dec. 0.1 Date Analyzed: 7/18/88

Column: (pack/cap) PACK Dilution Factor: 1

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	16.29	11	
2.	unknown	16.44	3	
3.	unknown	16.52	3	
4.	unknown	16.63	4	
5.	unknown	16.75	3	
6.	unknown	16.77	6	
7.	unknown	27.19	3	
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

4B
SEMIVOLATILE METHOD BLANK SUMMARY

ab Name: ARDL, INC Contract: AURORA LF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

ab File ID: >D0091 Lab Sample ID: 200046-055B

ate Extracted 07/14/88 Extraction: (SepF/Cont/Sonc) SONC

ate Analyzed: 8/15/88 Time Analyzed: 18:15

atrix: (soil/water) SOIL Level: (low/med) LOW

nstrument ID: HP-1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	X101	200046-5	>D0092	8/15/88
02	X102	200046-6	>D0098	8/16/88
03	X103	200046-7	>D0099	8/16/88
04	X104	200046-8	>D0100	8/16/88
05	X104RE	200046-8RE	>D0102	8/16/88
06	X105	200046-9	>D0101	8/16/88
07	X105RE	200046-9RE	>D0103	8/16/88
08	X101MS	200046-5MS	>D0093	8/15/88
09	X101MSD	200046-5MSD	>D0094	8/15/88
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

ENTS: _____

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOIL BLANK

ab Name: ARDL, INC Contract: AURORA LF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200046-05SB

ample wt/vol: 30 (g/mL) G Lab File ID: >00091

evel: (low/med) LOW Date Received: NA

Moisture: not dec.--- dec. --- Date Extracted: 07/14/88

xtraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/15/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	1700.	U
111-91-1	bis(-2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

20027

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOIL BLANK

ab Name: ARDL, INC Contract: AURORA LF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200046-05SB

ample wt/vol: 30 (g/mL) G Lab File ID: >D0091

evel: (low/med) LOW Date Received: NA

Moisture: not dec.--- dec. --- Date Extracted: 07/14/88

xtraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/15/88

PC Cleanup: (Y/N) N pH:--- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	330.	U
120-12-7	Anthracene	330.	U
84-74-2	Di-n-butylphthalate	550.	B
206-44-0	Fluoranthene	330.	U
129-00-0	Pyrene	330.	U
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)anthracene	330.	U
218-01-9	Chrysene	330.	U
117-81-7	bis(2-Ethylhexyl)phthalate	940.	B
117-84-0	Di-n-Octyl_Phthalate	330.	U
205-99-2	Benzo(b)fluoranthene	330.	U
207-08-9	Benzo(k)fluoranthene	330.	U
50-32-8	Benzo(a)pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenzo(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

20028

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL BLANK

Name: ARDL, INC Contract: AURORA LF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 200046-05SB

Sample wt/vol: 30 (g/mL) g Lab File ID: >D0091

Level: (low/med) LOW Date Received: 7/13/88

Moisture: not dec. _____ dec. _____ Date Extracted: 7/14/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/15/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.46	66	
2. 108883	toluene	6.78	1.4	
3.	unknown	7.25	99	
4.	unknown	7.89	130	
5.	unknown	8.24	460	
6.	unknown	13.45	33	
7.	unknown alkane	17.47	66	
8.	unknown	19.27	30	
9.	unknown	23.69	460	
10.	unknown	26.74	260	
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

4B
SEMIVOLATILE METHOD BLANK SUMMARY

ab Name: ARDL, INC Contract: AURORA LF

ab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

ab File ID: >D0097 Lab Sample ID: 200046-05WB

ate Extracted 07/15/88 Extraction: (SepF/Cont/Sonc) SEPF

ate Analyzed: 8/16/88 Time Analyzed: 11:47

atrix: (soil/water) WATER Level: (low/med) LOW

nstrument ID: HP-1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	G201	200046-1	>D0044	8/05/88
02	G202	200046-2	>D0087	8/15/88
03	G203	200046-3	>D0088	8/15/88
04	G203MS	200046-3MS	>D0089	8/15/88
05	G203MSD	200046-3MSD	>D0090	8/15/88
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

ENTS: _____

20030

FORM IV SV 1/87 Rev.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WATER BLANK

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200046-05WB

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >D0097

Level: (low/med) LOW Date Received: N/A

% Moisture: not dec.--- dec. --- Date Extracted: 07/15/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	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
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-chloroisopropyl)ether	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
65-85-0	Benzoic acid	50.	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	.2	JB
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	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethyl Phthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

20031

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WATER BLANK

Lab Name: ARDL, INC Contract: AURORA LF

Lab Code: ----- Case No.: 200046 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200046-05WB

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >D0097

Level: (low/med) LOW Date Received: N/A

% Moisture: not dec.--- dec. --- Date Extracted: 07/15/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	.2	JB
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	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
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	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	50.	U
85-01-8	Phenanthrene	.2	JB
120-12-7	Anthracene	.2	JB
84-74-2	Di-n-butylphthalate	8.	JB
206-44-0	Fluoranthene	.2	JB
129-00-0	Pyrene	.2	JB
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	11.	B
117-84-0	Di-n-Octyl_Phthalate	.9	JB
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	Dibenzo(a,h)Anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

2003

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

H_2O Blank

Name: ARDL, Inc Contract: Aurora LF

Lab Code: _____ Case No.: 200046 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: 200046-05WB

Sample wt/vol: 1000 (g/mL) ml Lab File ID: >D0097

Level: (low/med) low Date Received: 7/13/88

Moisture: not dec. _____ dec. _____ Date Extracted: 7/15/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 8/16/88

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.56	2.0	
2.	UNKNOWN	13.45	0.9	
	UNKNOWN ALKANE	17.96	2.0	
4.	UNKNOWN	23.70	22	
5.	UNKNOWN	26.74	3.0	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
29.				
30.				

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: ARDI

Contract: Auburn LF

Lab File ID:

Lab Sample ID: 200046-0 W

Matrix: (soil/water): WATER

Level: (low/med) LOW

Date Extracted: 07/14/88

Extraction: (SepF/Cont/Sonc): SEPF

Date Analyzed (1): 07/27/88

Date Analyzed (2): 08/24/88

Time Analyzed (1): 0124

Time Analyzed (2): 1120

Instrument ID (1): 540ECD

Instrument ID (2): 540ECD

GC Column ID (1): DEC

GC Column ID (2): DEGOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	G201	200046-1	07/27/88	08/24/88
02	G202	200046-2	07/27/88	08/24/88
03	G203	200046-3	07/27/88	08/24/88
04	G203MS	200046-3MS		08/24/88
05	G203MSD	200046-3MSD		08/24/88
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: Note: Initial Blank contaminated. All samples and blank re-extracted on 08/23/88

FORM IV PEST

EPA SAMPLE NO.
PBLK3

PESTICIDE ORGANICS ID ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) WATER
Sample wt/vol: 1000 (g/mL) mL
Level: (low/med)
% Moisture: not dec. dec.
Extraction: (SepF/Cont/Sonc) SEPF
GPC Cleanup: (Y/N) N pH:

Contract: Aurora LF
Lab Sample ID: 200046-QW
Lab File ID:
Date Received: 07/13/88
Date Extracted: 07/14/88
Date Analyzed: 07/24/88
Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	0.05	U
319-85-7----	beta-BHC	0.05	U
319-86-8----	delta-BHC	0.05	U
58-89-9-----	gamma-BHC (Lindane)	0.05	U
76-44-8-----	Heptachlor	0.05	U
309-00-2----	Aldrin	0.05	U
1024-57-3---	Heptachlor epoxide	0.05	U
959-98-8----	Endosulfan I	0.05	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
5103-71-9---	alpha-Chlordane	0.50	U
5103-74-2---	gamma-Chlordane	0.50	U
8001-35-2---	Toxaphene	1.0	U
12674-11-2--	Aroclor-1016	0.50	U
11104-28-2--	Aroclor-1221	0.50	U
11141-16-5--	Aroclor-1232	0.50	U
53469-21-9--	Aroclor-1242	0.50	U
12672-29-6--	Aroclor-1248	0.50	U
11097-69-1--	Aroclor-1254	1.0	U
11096-82-5--	Aroclor-1260	1.0	U

FORM I PEST

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: ARDL

Contract: [illegible] LF

Lab File ID:

Lab Sample ID: 200046-05

Matrix: (soil/water): SOIL

Level: (low/med) LOW

Date Extracted: 07/14/[illegible]

Extraction: (SepF/Cont/Sonc): SONC

Date Analyzed (1): 07/27/[illegible]

Date Analyzed (2): 08/24/[illegible]

Time Analyzed (1): 1332

Time Analyzed (2): 1716

Instrument ID (1): 540 ECD

Instrument ID (2): 540 ECD

GC Column ID (1): SPB-5

GC Column ID (2): DB 608

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	X101	200046-5	07/27/[illegible]	08/24/[illegible]
02	X102	200046-6	07/27/[illegible]	08/24/[illegible]
03	X103	200046-7	07/27/[illegible]	08/24/[illegible]
04	X104	200046-8	07/27/[illegible]	08/24/[illegible]
05	X105	200046-9	07/27/[illegible]	08/24/[illegible]
06	X101MS	200046-5MS	7/27/89	
07	X101MSD	200046-5MSD	7/27/89	
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV PEST

EPA SAMPLE NO.
PBLK4

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) SOIL
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW
% Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) Sonc
GPC Cleanup: (Y/N) N pH: _____

Contract: Aurora LF
Lab Sample ID: 200046-05
Lab File ID: _____
Date Received: 07/13/88
Date Extracted: 07/14/88
Date Analyzed: 07/27/88
Dilution Factor: 0.05

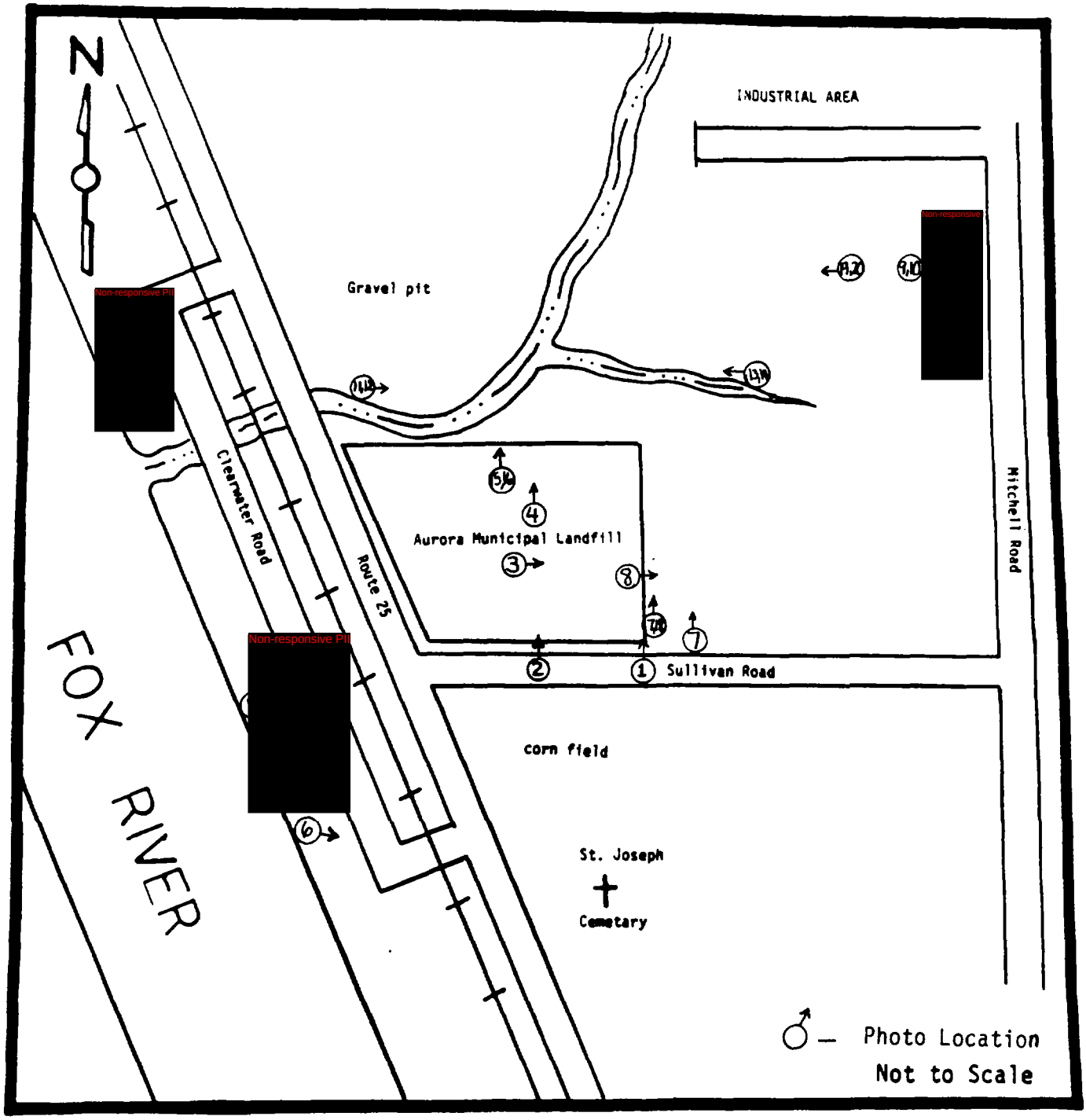
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	8.0	U
319-85-7----	beta-BHC	8.0	U
319-86-8----	delta-BHC	8.0	U
58-89-9-----	gamma-BHC (Lindane)	8.0	U
76-44-8-----	Heptachlor	8.0	U
309-00-2----	Aldrin	8.0	U
1024-57-3---	Heptachlor epoxide	8.0	U
959-98-8----	Endosulfan I	8.0	U
60-57-1-----	Dieldrin	16	U
72-55-9-----	4,4'-DDE	16	U
72-20-8-----	Endrin	16	U
33213-65-9--	Endosulfan II	16	U
72-54-8-----	4,4'-DDD	16	U
1031-07-8---	Endosulfan sulfate	16	U
50-29-3-----	4,4'-DDT	16	U
72-43-5-----	Methoxychlor	80	U
53494-70-5--	Endrin ketone	16	U
5103-71-9---	alpha-Chlordane	80	U
5103-74-2---	gamma-Chlordane	80	U
8001-35-2---	Toxaphene	160	U
12674-11-2--	Aroclor-1016	80	U
11104-28-2--	Aroclor-1221	80	U
11141-16-5--	Aroclor-1232	80	U
53469-21-9--	Aroclor-1242	80	U
12672-29-6--	Aroclor-1248	80	U
11097-69-1--	Aroclor-1254	160	U
11096-82-5--	Aroclor-1260	160	U

FORM I PEST

Appendix F

IEPA Site Photographs



SOURCE: IEPA, 1988

PHOTO LOCATION MAP

DATE: MAY 18, 1988

TIME: 8:45 AM

Photograph by:

J. MORGAN

Location:

Aurora Muni LDF
Sullivan Rd.

Comments: Picture taken toward

North

#1

DATE: MAY 18, 1988

TIME: 8:50 AM

Photograph by:

J. MORGAN

Location: Aurora Muni
Sullivan Rd.

Comments: Picture taken toward

North.

#2

IL 532-0603
L/NPC 24 (Rev. 7/86)

DATE: MAY 18, 1988

TIME: 9:00 AM

Photograph by:

J. MORGAN

Location:

Top of LANDFILL (Aurora Muni LDF)

Comments: Picture taken toward

EAST Direction

#3

DATE: MAY 18, 1988

TIME: 9:15 AM

Photograph by:

J. MORGAN

Location: North FLANK (Aurora Muni LDF)

Comments: Picture taken toward

Facing North: Gravel Pit on NORth SIDE of LANDFill

#4

DATE: 7/12/88

TIME: 9:41 AM

Photograph by:

John MORGAN

Location:

[redacted]

Comments: Picture taken toward

NE.

Private Well (6201)

#5

DATE: 7/12/88

TIME: 10:17 AM

Photograph by:

John MORGAN

[redacted]

Comments: Picture taken toward

SE:

Private Well (6202)

#6

IL 532-0603
L/NPC 24 (Rev. 7/86)

DATE: MAY 18, 1988

TIME: 9:30 AM

Photograph by:

J. Morgan

Location:

Southeast SIDE of LandFill

Comments: Picture taken toward

Southeast: Construction Waste

#8

DATE: MAY 18, 1988

TIME: 9:45 AM

Photograph by:

J. MORGAN

Location: Sullivan Rd Along South Flank of LDF.

Comments: Picture taken toward

North: Construction Waste (Concrete)

#7

DATE: 7/12/88

TIME: 10:45 AM

Photograph by:

John MORGAN

Location:

[redacted]

Comments: Picture taken toward

EAST.

PRIVATE Well (G203)

#9

[redacted]

DATE: 7/12/88

TIME: 10:45 AM

Photograph by:

John MORGAN

Location: [redacted]

Comments: Picture taken toward

EAST

(G203)

#10

[redacted]

IL 532-0603
L/NPC 24 (Rev. 7/86)

DATE: 7/12/88

TIME: 7:14 AM

Photograph by:

John MORGAN

Location:

AURORA Muni LDFL.

Comments: Picture taken toward

EAST:

(CREEK ON NORTH SIDE)

(X101) #11

DATE: 7/12/88

TIME: 7:14 AM

Photograph by:

John MORGAN

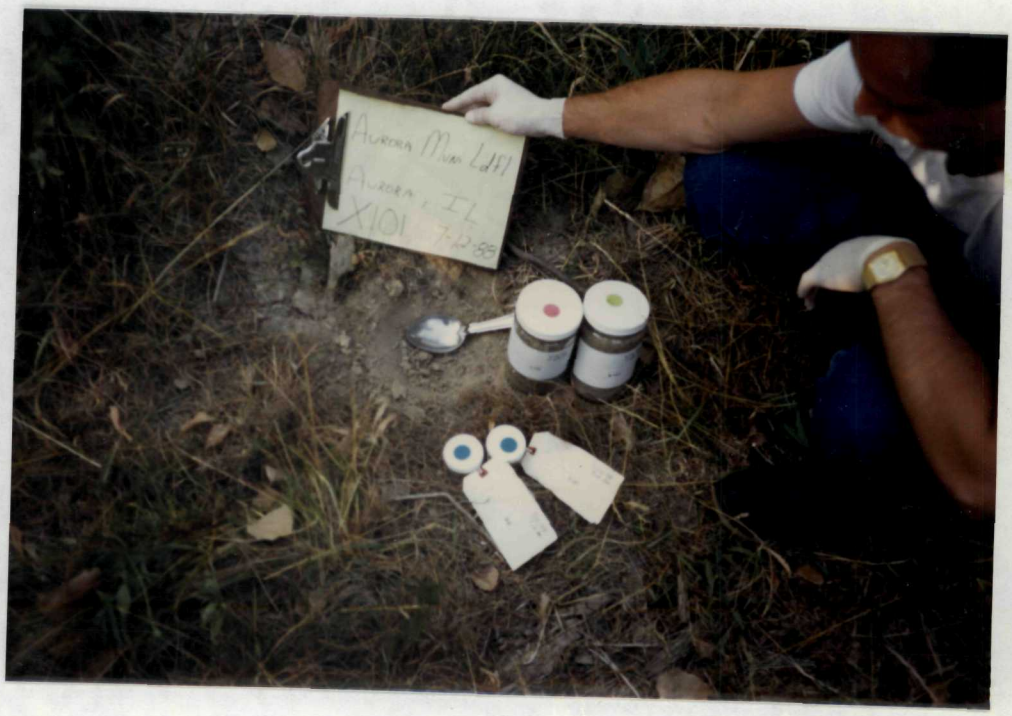
Location: AURORA Muni LDFL.

Comments: Picture taken toward

EAST

X101

#12



IL 532-0603
L/NPC 24 (Rev. 7/86)

DATE: 7/12/88

TIME: 8:53 AM

Photograph by:

John MORGAN

Location:

AURORA MUNI LDFL.

Comments: Picture taken toward

WEST:

X102

#13

DATE: 7/12/88

TIME: 8:53 AM

Photograph by:

John MORGAN

Location: AURORA

MUNI LANDFILL

Comments: Picture taken toward

WEST

X102

#14

IL 532-0603
L/NPC 24 (Rev. 7/86)

DATE: 7/12/88

TIME: 8:40 AM

Photograph by:

John MORGAN

Location:

AURORA MUNI LANDFILL

Comments: Picture taken toward NORTH. #15

X103, ON NORTH SIDE OF LANDFILL

DATE: 7/12/88

TIME: 8:40 AM

Photograph by:

John MORGAN

Location: AURORA MUNI LANDFILL

Comments: Picture taken toward NORTH:

X103

#16

DATE: 7/12/88

TIME: 8:15 AM

Photograph by:

John MORGAN

Location:

AURORA Muni LANDFILL

Comments: Picture taken toward NORTH:

X104

#17

DATE: 7/12/88

TIME: 8:15 AM

Photograph by:

John MORGAN

Location: AURORA Muni LANDFILL

Comments: Picture taken toward NORTH:

X104

#18

DATE: 7/12/88

TIME: 11:15 AM

Photograph by:

John MORGAN

Location:

AURORA MUNI LANDFILL

Non-responsive PII

Comments: Picture taken toward

WEST:

X105

#19

Non-responsive PII

DATE: 7/12/88

TIME: 11:15 AM

Photograph by:

John MORGAN

Location: AURORA MUNI LANDFILL

Comments: Picture taken toward

WEST:

X105

#20

IL 532-0603
L/NPC 24 (Rev. 7/86)