EPA Region 5 Records Ctr.
321263

INSPECTION REPORT
FOR
MCKINLEY THOMPSON LANDFILL
MARION COUNTY, INDIANA

IND980500435

R05-8410-02A

IN0230

MARCH 11, 1986

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ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

MEMORANDUM

DATE: March 11, 1986
TO: File
FROM: Bridget A. Haugh
SUBJECT: Indiana/R05-8410-02A/IN0230
Marion County/McKinley-Thompson Landfill
IND980500433

McKinley - Thompson Landfill (Lane Landfill) is located in Marion County, Perry Township, Indianapolis, Indiana. The parcel of land is 89 acres, zoned as wood/wasteland. The site was originally used as a gravel quarry. When quarrying operations ceased, an 82-foot deep lake remained. The lake began to be filled with debris in 1913. The debris was dumped directly into the lake and is now approximately 25 feet above the level of the lake.

Garbage disposal was ceased when site was purchased in 1940 by McKinley-Thompson. Under new ownership, the site was used strictly for disposing demolished houses. In 1977, Jack Lane purchased the dump from McKinley-Thompson. Jack Lane accepted sludge from Belmont Sewage Treatment to put out fires that existed on site since 1976. The site was originally identified by the Indiana State Board of Health in the form of a Preliminary Assessment submitted to the U.S. EPA.

FIT proceeded to sample the soil on-site and surface water from the White River. Sampling was conducted in order to better identify waste characteristics and to rule out the possibility of a release

recycled paper

to the Environment. Refer to Section 3 of the Site Inspection package for a site map detailing sample locations.

Surface water samples consisted of one upgradient (north of site) and two downgradient. Results from FIT sampling revealed no contamination of the surface water sampled.

Soil samples consisted of 3 on-site locations. Analytical results can be found in Table II. The soil contamination increases the potential for groundwater contamination due to the fairly permeable geologic conditions.

The majority of the population surrounding the site is on Indianapolis Municipal water. However, the population south of the site is serviced by private wells.

82D:4M

2

Table I

Sample Descriptions

Sample	Organic Traffic Report Number	Inorganic Traffic Report Number
S1	EE457	MEG483
S2	EE458	MEG484
S3	EE459	MEG485

See Section 3, Site Map, for Sample Locations.

Table II

Contaminants Detected

All Conc. in mg/kg (ppm)

Contaminants	S1	S2	S3
Arsenic	27	123	134
Beryllium	5	5.9	5.2
Cadmium	4.2	6.4	7.7
Chromium	21	34	78
Copper	47	78	88
Lead	9	24	89
Nickel	31	75	58
Vanadium	66	135	108

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IND	980500433

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
McKinley Thompson Landfill	3434 S. Harding Street

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Indianapolis	In.	46217	Marion	97	10

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
39°42'55.0"N	086°11'35.0"W	☒ 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
10 29 85 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	1913 (BEGINNING YEAR) 1979 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☒ B. EPA CONTRACTOR Ecology + Environment, Inc. (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ___ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR ___ (Name of firm) ☐ G. OTHER ___ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
John Sternberg	Team Leader	E+E	(312) 663-9415

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Randy Ekstrom	Team Member	E+E	(312) 663-9415
Scott Green	Team Member	E+E	(312) 663-9415
Kelly Walker	Sampler	E+E	(312) 663-9415
Anne Sause	Sampler	E+E	(312) 663-9415
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
			( )
UNK			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☐ PERMISSION ☒ WARRANT	10⁰⁰ AM	Overcast, Windy, ≈ 50°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
George Oliver	Indiana State Board of Health	(317) 243-5038

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Bridget A. Haugh	US EPA	Ecology + Environment, Inc.	312/ 663-9415	2 28 86 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IND	980500433

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 _____
CUBIC YARDS 5,700,000
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	216,000	YDS³	SLUDGE MIXTURE = SLUDGE +
OLW	OILY WASTE			ASH + LIME
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	UNKNOWN		
IOC	INORGANIC CHEMICALS	UNKNOWN		
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	UNKNOWN		

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
MES	ARSENIC	74-403 82	OPEN DUMPS AND LANDFILL	27	ppm
MES	BERYLLIUM	74-404-17		5	"
MES	CADMIUM	74-404-39		4.2	"
MES	CHROMIUM	74-404-73		21	"
MES	COPPER	74-405-08		47	"
MES	LEAD	74-399-21		9	"
MES	NICKEL	74-400-20		31	"
MES	VANADIUM	74-406-22		66	"
OCC	CARBON DISULFIDE	75-15-0		44	ppb
OCC	TOLUENE	108-88-3		66	ppb

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)

ECOLOGY & ENVIRONMENT, INC. FILES.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION
01 STATE: IND
02 SITE NUMBER: 980500433

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☑ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: ____) — ☑ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 2831
04 NARRATIVE DESCRIPTION
GROUNDWATER CONTAMINATION POTENTIAL EXISTS BECAUSE SAMPLING OF SOILS REVEALED LOW HEAVY METAL CONCENTRATION WHICH COULD POTENTIALLY MIGRATE TO WATER TABLE.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: ____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION

01 ☑ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: ____) — ☐ POTENTIAL — ☑ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 207,024
04 NARRATIVE DESCRIPTION
AIR POLLUTION RATING TAKEN IN A RESIDENTIAL SECTION ADJACENT TO THE SITE WAS 1,200 MICROGRAMS/m^3. REPORTED IN MEMO DATED 11-24-76. THE HIGH RATING IS THE RESULT OF THE FIRE BURNING AT THE TIME. NO LEGAL ACTION TAKEN.

01 ☑ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: ____) — ☑ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____
04 NARRATIVE DESCRIPTION
NOVEMBER, 1976, A FIRE EXISTED ON SITE AND BURNED FOR APPROXIMATELY 1 YEAR. SPONTANEOUS COMBUSTION IS THE ASSUMED CAUSE. POTENTIAL IS LOW SINCE SITE IS NOW INACTIVE AND HAS HAD NO FUTHER FIRE INCIDENTS.

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: ____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION

01 ☑ F. CONTAMINATION OF SOIL — 02 ☑ OBSERVED (DATE: 10-30-85) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 89 (ACRES)
04 NARRATIVE DESCRIPTION
E&E SAMPLING OF 10-30-85 REVEALED A RELEASE TO SOIL OF HEAVY METALS + ORGANICS.

01 ☑ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: ____) — ☑ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 2831
04 NARRATIVE DESCRIPTION
THE MAJORITY OF POPULATION SERVICED BY CITY MUNICIPAL WATER. HOWEVER, DUE TO CONTAMINATION OF SOIL, MIGRATION OF CONTAMINANTS TO THE WATER TABLE IS A DEFINITE POSSIBILITY.

01 ☑ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: ____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION
NO WORKER INJURY REPORTED.

01 ☑ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: ____) — ☑ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION
SITE IS FENCED ON 3 SIDES AND A LEVEE ON THE FOURTH.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IND	980500433

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NA

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

NA

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NA

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

NA

01 ☑ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: '76) ☐ POTENTIAL ☑ ALLEGED
04 NARRATIVE DESCRIPTION
FILL WAS BEING PLACED IN THE FLOODWAY OF HIGHLAND CREEK AND ON THE FLOOD CONTROL LEVEE ALONG THE WEST FORK WHITE RIVER.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NA

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NA

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

NA

III. TOTAL POPULATION POTENTIALLY AFFECTED: 209,855

IV. COMMENTS

NONE.

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

E&E FILES.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IND	980500433

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)				
☐ 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	UNK.	
☐ C. DRUMS, ABOVE GROUND		
☑ D. TANK, ABOVE GROUND	1 TANK	
☐ E. TANK, BELOW GROUND		
☑ F. LANDFILL	5,700,000	YDS³
☐ G. LANDFARM		
☑ H. OPEN DUMP	UNK.	
☐ 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

89 (Acres)

07 COMMENTS

None

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.

NA.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☑ NO

02 COMMENTS

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

E+E FILES.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IND	980500433

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
COMMUNITY	A. ☐	B. ☐	C. ☑
NON-COMMUNITY	D. ☐	E. ☐	F. ☑

03 DISTANCE TO SITE

A. >3 (mi)
B. <100 ft (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 2831

03 DISTANCE TO NEAREST DRINKING WATER WELL <100 ft. (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
~50 (ft)	NORTH	40-60 (ft)	UNK. (gpd)	☐ YES ☑ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings) LOCATION OF WELLS: NORTHWEST + SOUTHEAST OF SITE COLUMN CONSISTED OF TOP SOIL, CLAY, SAND + GRAVEL, SAND, GRAVEL + CLAY, COARSE GRAVEL, LIMESTONE, + SHALE. SHALLOW AQUIFER SYSTEM CONSISTS OF SHALLOW SANDS + GRAVELS SEPARATED BY CLAY STRINGERS.

10 RECHARGE AREA
☑ YES ☐ NO
COMMENTS DURING PERIODS OF HIGH WATER LEVEL IN THE RIVER, THE SHALLOW AQUIFER SYSTEMS RECHARGE

11 DISCHARGE AREA
☑ YES ☐ NO
COMMENTS AT LOW WATER LEVELS, THE SHALLOW AQUIFERS DISCHARGE AND MAINTAIN BASE FLOW

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
WHITE RIVER	☐	ADJACENT (mi)
EAGLE CREEK	☐	ADJACENT (mi)
PLEASANT RUN	☐	1 (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. 1003.2 NO. OF PERSONS	B. 6870.4 NO. OF PERSONS	C. 34504 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION <100 ft. (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 1959

04 DISTANCE TO NEAREST OFF-SITE BUILDING <100 ft. (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)
THERE ARE PRIVATE RESIDENCES EAST OF THE LANDFILL SITE, EAST OF HARDING ST. THE WESTERN BOUNDARY OF THE SITE IS THE WHITE RIVER. EAGLE CREEK FLOWS INTO THE WHITE RIVER JUST NORTH OF THE SITE. THE CITY OF INDIANAPOLIS' BELMONT SEWAGE TREATMENT PLANT IS NORTH OF THE SITE; AND DISCHARGES EFFLUENT INTO THE RIVER UPSTREAM OF THE LANDFILL SITE. TO THE WEST OF THE SITE + THE RIVER IS THE KENTUCKY AVE. LANDFILL. SOUTH OF THE LANDFILL SITE IS THE PERRY SUBSTATION FOR THE INDIANAPOLIS POWER + LIGHT, CO.

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IND	980500433

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
~75 (ft)	UNK. (ft)	UNK.

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
8.3 (in)	39.3 (in)	UNK %	UNK	UNK. %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. — (mi)

OTHER: B. — (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

>3 (mi)

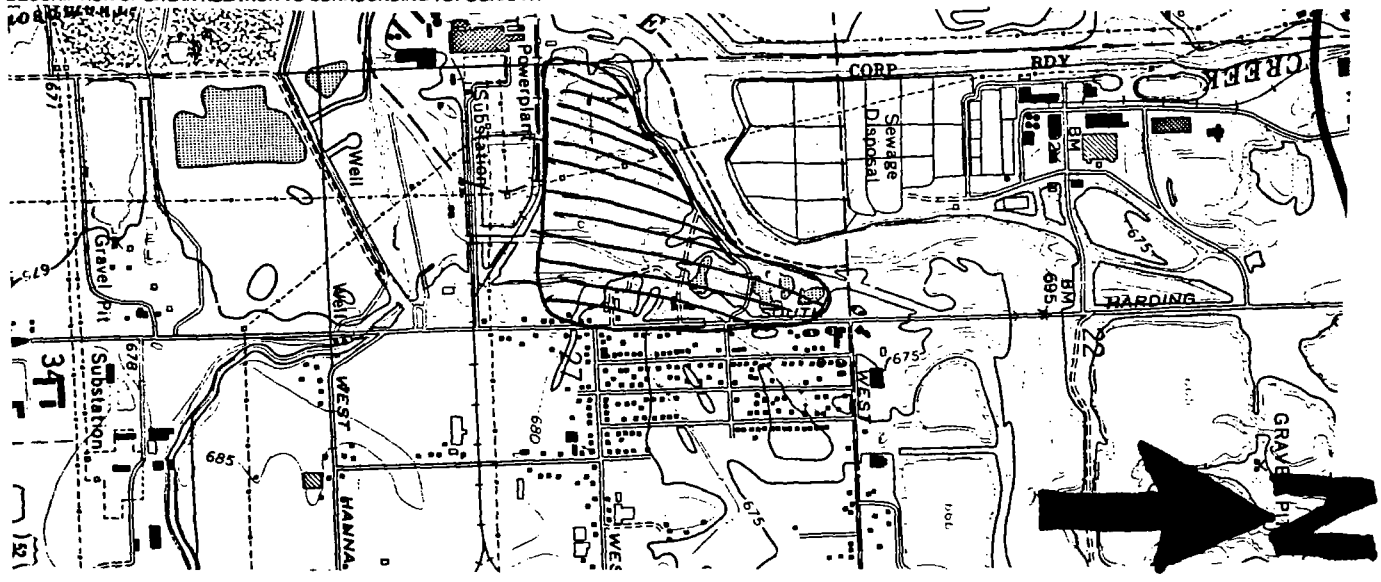
ENDANGERED SPECIES: _____

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. <1/4 (mi)	B. <1/4 (mi)	C. UNK. (mi)	D. UNK. (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



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

E&E FILES.

MAYWOOD QUADRANGLE, 7.5' SERIES, 1967.

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IND	980500433

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO		03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER				
SURFACE WATER	3 (THREE)	INORGANICS ROCKY MOUNTAIN ANALYTICAL	ORGANICS ERG, INC.	2-19-86
WASTE				
AIR				
RUNOFF				
SPILL				
SOIL	3 (THREE)	INORGANICS ROCKY MOUNTAIN ANALYTICAL	ORGANICS ERG, INC.	2-19-86
VEGETATION				
OTHER				

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
DISTANCES	DISTANCES DOCUMENTED REGARDING SAMPLE LOCATIONS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☑ GROUND ☐ AERIAL

02 IN CUSTODY OF ECOLOGY & ENVIRONMENT, INC. (Name of organization or individual)

03 MAPS ☑ YES ☐ NO

04 LOCATION OF MAPS ECOLOGY & ENVIRONMENT, INC.

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

UNK.

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

E+E FILES.

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IND	980500433

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
LANE RESTORATION INC.		4600 BLUFF RD.		INDIANAPOLIS	IN.	46217

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

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
MCKINLEY-THOMPSON		3434 SOUTH HARDING ST.		INDIANAPOLIS	IN.	46225

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

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

E&E FILES.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IND	980500433

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME: W. JACK LANE	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 4600 BLUFF ROAD.	04 SIC CODE:
05 CITY: INDIANAPOLIS	06 STATE: IN. / 07 ZIP CODE: 46217
08 YEARS OF OPERATION: 1977-79	09 NAME OF OWNER: LANE RESTORATION INC.

OPERATOR'S PARENT COMPANY (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:

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

01 NAME: McKINLEY-THOMPSON	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 3434 So. HARDING ST.	04 SIC CODE:
05 CITY: INDIANAPOLIS	06 STATE: IN. / 07 ZIP CODE: 46225
08 YEARS OF OPERATION: UNK.	09 NAME OF OWNER DURING THIS PERIOD: SAME.

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)

E&E FILES.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IND	980500433

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
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
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: UNKNOWN	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
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 FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IND	980500433

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ L. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	03 AGENCY

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IND	980500433

II PAST RESPONSE ACTIVITIES (Continued)

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

N/A

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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

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

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

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☒ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
① PERRY TOWNSHIP VOLUNTEER FIRE DEPT. NUMEROUS OCCASIONS 11-11-76 & 11-17-76. ② INDIANAPOLIS FIRE DEPT. 11-17-76.

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

N/A

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

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

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

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

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

E+E FILES

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IND	980500433

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☑ NO

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

None

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

E&E FILES.

EPA FORM 2070-13 (7-81)

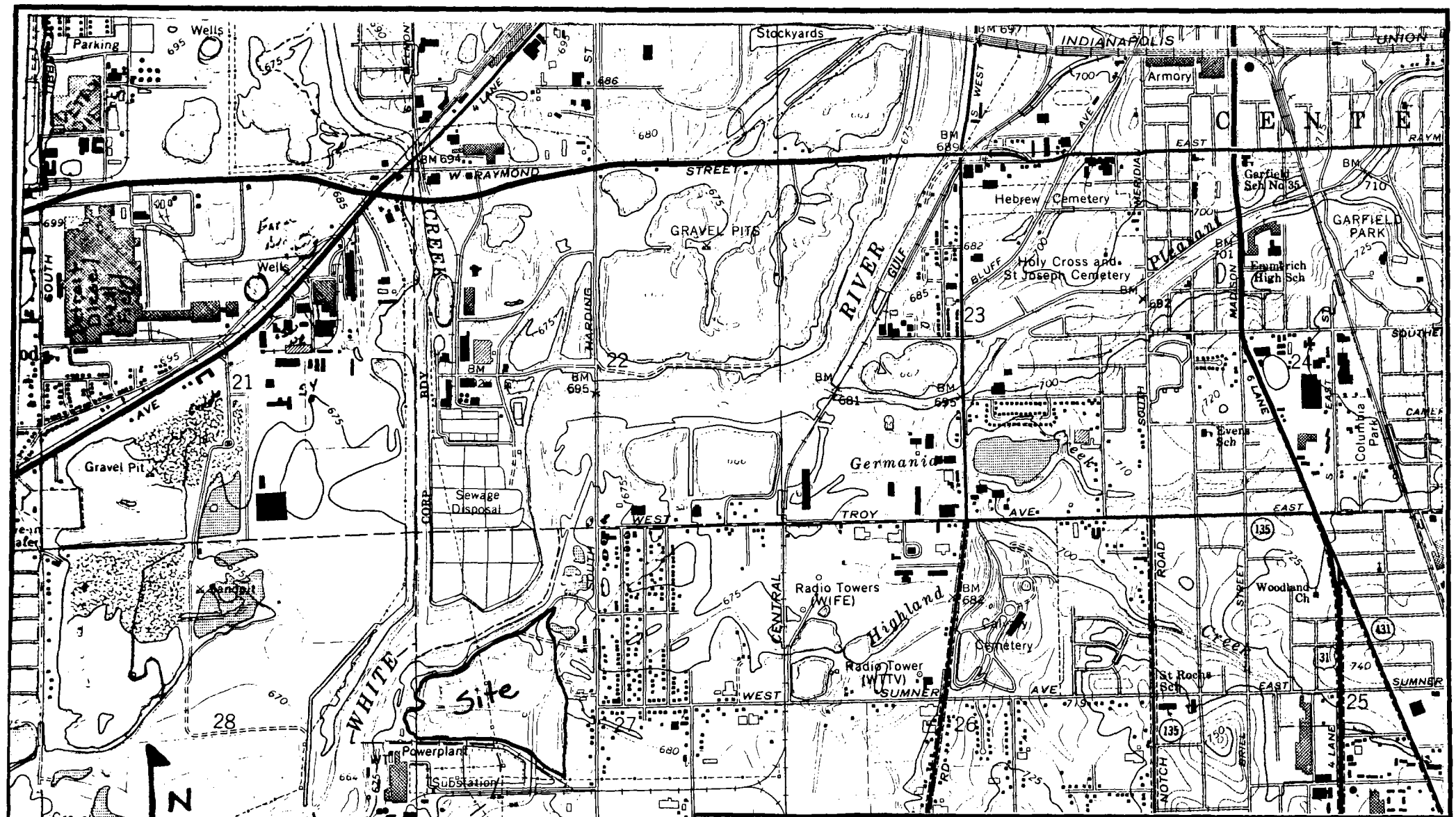
Immediate Removal Action Check Sheet

		High	Moderate	Low
Fire and Explosion Hazard				
Flammable Materials	YES			✓
Explosives	No			
Incompatable Chemicals	No			
Direct Contact with Acutely Toxic Chemicals				
Site Security	YES			
Leaking Drums or Tanks	No			
Open Lagoons or pits	No			
Materials on Surface	YES			✓
Proximity of Population	~100ft.			
Evidence of Casual Site Use	No			
Contaminated Water Supply				
Exceeds 10 Day Snarl	No			
Gross Taste or Odors	No			
Alternate Water Available	No			
Potential Contamination	YES			

Is the site abandoned or active?

INACTIVE

3



ecology and environment, inc.
111 WEST JACKSON BOULEVARD
CHICAGO, IL 60604

SCALE: 1:24000	R05—8410—02A	DRAWN BY
DATE: 1967		REVISED

McKinley Thompson Landfill

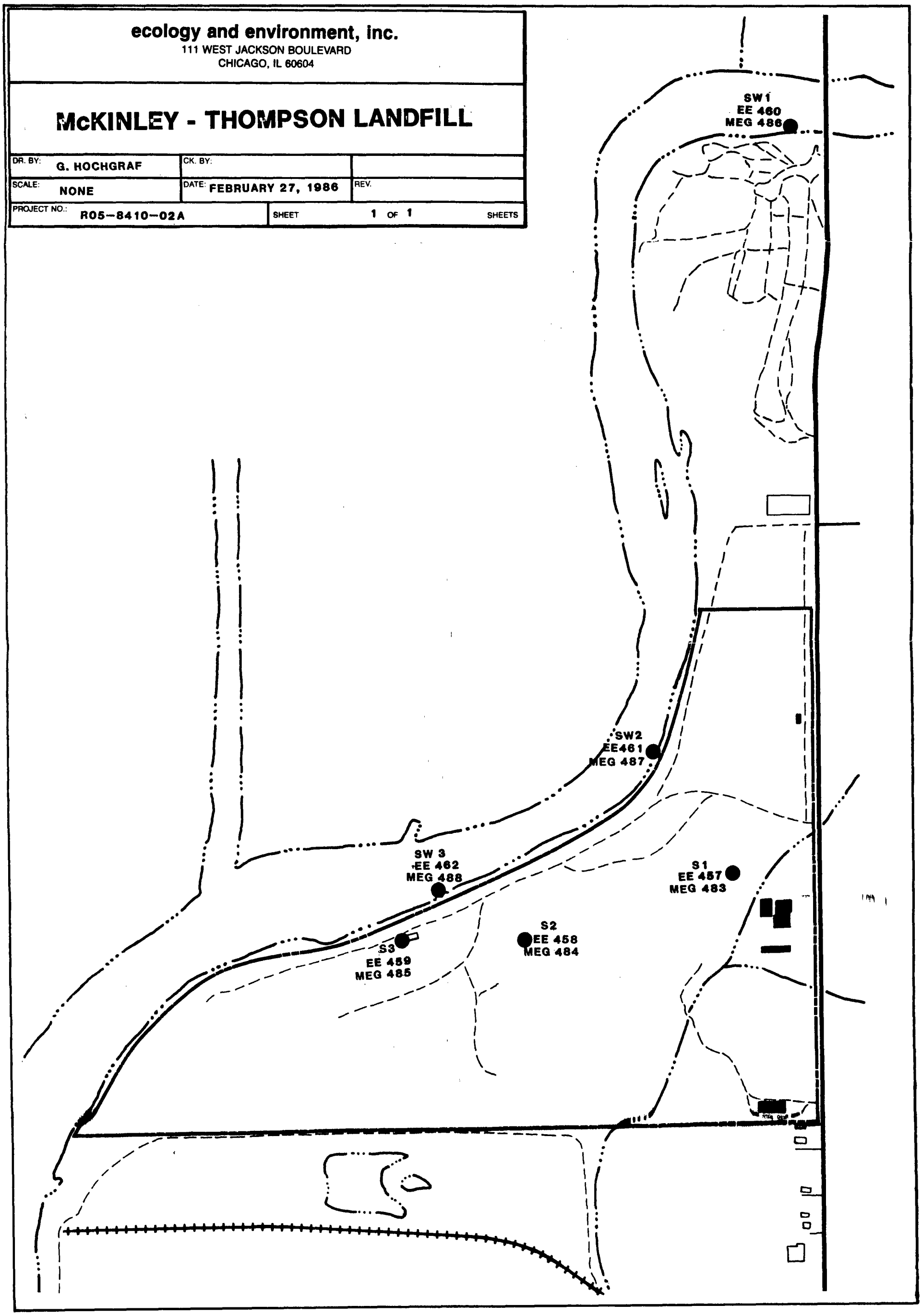
Maywood, IN. Quadrangle

DRAWING NUMBER

ecology and environment, inc.
111 WEST JACKSON BOULEVARD
CHICAGO, IL 60604

McKINLEY - THOMPSON LANDFILL

DR. BY: G. HOCHGRAF	CK. BY:	
SCALE: NONE	DATE: FEBRUARY 27, 1986	REV.
PROJECT NO.: R05-8410-02A	SHEET 1 OF 1 SHEETS	



4

FIELD PHOTOGRAPHY LOG SHEET

DATE 10-30-85

TIME 10:45 (A.M.) P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
(S) SSW SW WSW
W WNW NW NNW

WEATHER Overcast, windy, ~50°F

SITE McKinley-Thompson Landfill

TDD# R05-8410-02A

PHOTOGRAPHED BY: S. Green

SAMPLE ID# (if applicable) S-1

DESCRIPTION: Close-up picture of sample point S-1.

DATE 10-30-85

TIME 10:45 (A.M.) P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
(S) SSW SW WSW
W WNW NW NNW

WEATHER Overcast, windy, ~50°F

SITE McKinley-Thompson Landfill

TDD# R05-8410-02A

PHOTOGRAPHED BY: S. Green

SAMPLE ID# (if applicable) S-1

DESCRIPTION: General background photo. of sample point S-1.

FIELD PHOTOGRAPHY LOG SHEET

DATE 10-30-85

TIME 11:05 A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER Overcast, windy, ~50°F

SITE McKinley-Thompson Landfill

TDD# R05-8410-02A

PHOTOGRAPHED BY: S. Green

SAMPLE ID# (if applicable) S-2

DESCRIPTION: Close-up of sample point S-2.

DATE 10-30-85

TIME 11:05 A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER Overcast, windy, ~50°F

SITE McKinley-Thompson Landfill

TDD# R05-8410-02A

PHOTOGRAPHED BY: S. Green

SAMPLE ID# (if applicable) S-2

DESCRIPTION: General Background photo. of sample point S-2.

FIELD PHOTOGRAPHY LOG SHEET

DATE 10-30-85

TIME 11:22 (A.M.) P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
(S) SSW SW WSW
W WNW NW NNW

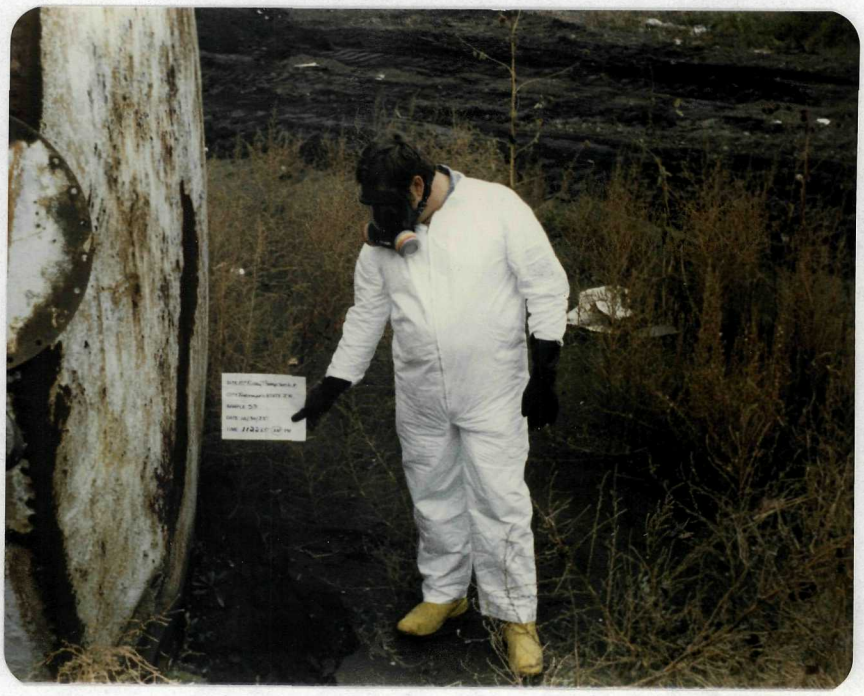
WEATHER Overcast, windy, ~50°F

SITE McKinley-Thompson Landfill

TDD# R05-8410-02A

PHOTOGRAPHED BY: S. Green

SAMPLE ID# (if applicable) S-3



DESCRIPTION: Close-up of sample point S-3.

DATE 10-30-85

TIME 11:22 (A.M.) P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
(S) SSW SW WSW
W WNW NW NNW

WEATHER Overcast, windy, ~50°F

SITE McKinley-Thompson Landfill

TDD# R05-8410-02A

PHOTOGRAPHED BY: S. Green

SAMPLE ID# (if applicable) S-3

DESCRIPTION: General background photo. of sample point S-3.

FIELD PHOTOGRAPHY LOG SHEET

DATE 10-30-85

TIME 1305 A.M. (P.M.)

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
(W) WNW NW NNW

WEATHER Overcast, windy, ~50°F

SITE McKinley-Thompson Landfill

TDD# R5-8410-02A

PHOTOGRAPHED BY: S. Green.

SAMPLE ID# (if applicable) SW-1

DESCRIPTION: Close-up of surface water sampling point SW-1

DATE 10-30-85

TIME 1305 A.M. (P.M.)

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
(W) WNW NW NNW

WEATHER Overcast, windy, ~50°F

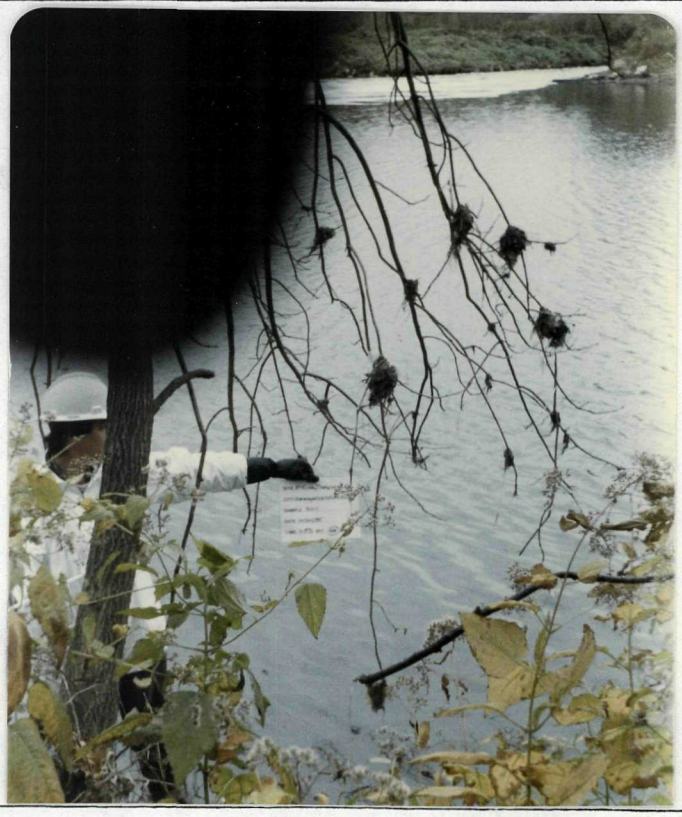
SITE McKinley-Thompson Landfill

TDD# R5-8410-02A

PHOTOGRAPHED BY: S. Green

SAMPLE ID# (if applicable) SW-1

?



DESCRIPTION: General background of surface water sampling point SW-1

FIELD PHOTOGRAPHY LOG SHEET

DATE 10-30-85

TIME 12:20 A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER Overcast, windy, ~50°F

SITE McKinley-Thompson Landfill

TDD# R05-8410-02A

PHOTOGRAPHED BY: S. Green

SAMPLE ID# (if applicable) SW-2

DESCRIPTION: Close-up of surface water sample point SW-2, upstream of site.

DATE 10-30-85

TIME 12:20 A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER Overcast, windy, ~50°F

SITE McKinley-Thompson Landfill

TDD# R05-8410-02A

PHOTOGRAPHED BY: S. Green

SAMPLE ID# (if applicable) SW-2

DESCRIPTION: General background view of surface water sample point SW-2, upstream of site.

5

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 2/10/86

RECEIVED FEB 11 1986

SUBJECT: Review of Region V CLP Data
Received for Review on 12/19/85

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory
Francis Thomas

TO: Data User: Sit

We have reviewed the data for the following case(s).

SITE NAME: McKinley-Thompson L.F. SMO Case No. 5136

EPA Data Set No. SF 2780 No. of Samples: 7 D.U./Activity Numbers 14051 C48500

CRL No. 86F502524-86F502529

SMO Traffic No. EE451-EE463

CLP Laboratory: ERG Hrs. Required for Review: 12

Following are our findings.

1. Sample EE458 had two volatile surrogates outside recovery limit. Matrix spike and matrix spike duplicate analysis of this sample verified that the problem was due to matrix effect.

2. The pesticide matrix spike/matrix spike duplicate of sample EE457 exhibited considerable sample inhomogeneity. Aroclor 1242 was found in the matrix spike but not the matrix spike duplicate or the sample. The value reported for Heptachlor in the matrix spike of sample EE457 is wrong. This peak is due to Aroclor 1242, not heptachlor.

3. Pesticide QC: Mixed phase column: endrin %RSD=13%, 4,4'-DDT %RSD=64%
4,4'-DDT Breakdown = 32%
3% SP2100 column: Aldrin %RSD=14%, 4,4'-DDT %RSD=43%
4,4'-DDT Breakdown = 79%
Because of these ~~total~~ quality control problems all pesticide data is considered estimated.

CONTINUED →

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Don Trees, CLP/Sample Management Office

EPA ORM 1320-6 (REV 3-78)

RECEIVED FEB 11 1986

DATA QUALIFIERS

Contractor: ERG

Case 5136

Below is a summary of the out of control audits and the possible effect on the data for this case:

4. In the low level VOA method blank (11-3/4-85) methylene chloride was found at levels 5x greater than the contract required detection limit. Results for samples run on 11-3 and 11-4 are considered false positives for methylene chloride.

5. In the medium level VOA method blank on 11-4-85, 2-butanone was found at levels 5x greater than the contract required detection limit. Results for ~~samples~~ ~~on~~ medium level samples run on 11-4-85 are considered false positives for 2-Butanone.

Reviewed by: Patrick J. Chunilla

Phone: 353-2720

Date: 1-27-86

Sample Management Office (SMO)
Ann Arbor Chicago

Systems Laboratory (EMS/LV)
Cleveland San Francisco

86F502327

Sample Number
EE 460

Organics Analysis Data Sheet
(Page 1)

RECEIVED FEB 11 1986

Laboratory Name: E.R.G. Inc.
Case No: 5136
Lab Sample ID No: VEE 460
QC Report No: —
Sample Matrix: Water
Contract No: 68-01-6869
Data Release Authorized By: Josepha A. Hatau
Date Sample Received: 10-31-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 11-1-85
Date Analyzed: 11-1-85
Conc/Dil Factor: 1 pH —
Percent Moisture: (Not Decanted) —

Clear

CAS Number		ug/l or ug/Kg (Circle One)		
74-87-3	Chloromethane	10	U	J
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	14	B	J
67-64-1	Acetone	10	U	J
75-15-0	Carbon Disulfide	5	U	
75-35-4	1, 1-Dichloroethene	5	U	
75-34-3	1, 1-Dichloroethane	5	U	
156-60-5	Trans-1, 2-Dichloroethene	1	J	
67-66-3	Chloroform	2	J	
107-06-2	1, 2-Dichloroethane	5	U	
78-93-3	2-Butanone	10	U	
71-55-6	1, 1, 1-Trichloroethane	5	U	J
56-23-5	Carbon Tetrachloride	5	U	J
108-05-4	Vinyl Acetate	10	U	J
75-27-4	Bromodichloromethane	5	U	

PJC 1-27-86

CAS Number		ug/l or ug/Kg (Circle One)		
78-87-5	1, 2-Dichloropropane	5	U	
10061-02-6	Trans-1, 3-Dichloropropene	5	U	
79-01-6	Trichloroethene	2	J	
124-48-1	Dibromochloromethane	5	U	J
79-00-5	1, 1, 2-Trichloroethane	5	U	
71-43-2	Benzene	5	U	
10061-01-5	cis-1, 3-Dichloropropene	5	U	J
110-75-8	2-Chloroethylvinylether	10	U	R
75-25-2	Bromoform	5	U	J
108-10-1	4-Methyl-2-Pentanone	10	U	R
591-78-6	2-Hexanone	10	U	J
127-18-4	Tetrachloroethene	1	J	
79-34-5	1, 1, 2, 2-Tetrachloroethane	5	U	
108-88-3	Toluene	5	U	
108-90-7	Chlorobenzene	5	U	
100-41-4	Ethylbenzene	5	U	
100-42-5	Styrene	5	U	J
	Total Xylenes	5	U	J

PJC 1-27-86

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

R = UNUSABLE

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

NR No value required.

Laboratory Name: ERG Inc

Case No: 5136

Sample Number
EE 460

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Clean

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11-1-85

Date Analyzed: 11-21-85

Conc/Dil Factor: 1

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

RECEIVED FEB 11 1986

CAS Number		(ug/l) or ug/Kg (Circle One)		
108-95-2	Phenol	10	U	
111-44-4	bis(-2-Chloroethyl)Ether	10	U	J
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	J
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	J
111-91-1	bis(-2-Chloroethoxy)Methane	10	U	
120-83-2	2, 4-Dichlorophenol	10	U	
120-82-1	1, 2, 4-Trichlorobenzene	10	U	
91-20-3	Naphthalene	10	U	J
106-47-8	4-Chloroaniline	10	U	J
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	
99-09-2	3-Nitroaniline	50	U	R

PJC 1-27-86

CAS Number		(ug/l) or ug/Kg (Circle One)		
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	J
606-20-2	2, 6-Dinitrotoluene	10	U	
84-66-2	Diethylphthalate	4		JB
7005-72-3	4-Chlorophenyl-phenylether	10	U	J
86-73-7	Fluorene	10	U	
100-01-6	4-Nitroaniline	50	U	J
534-52-1	4, 6-Dinitro-2-Methylphenol	50	U	R
86-30-6	N-Nitrosodiphenylamine (1)	10	U	
101-55-3	4-Bromophenyl-phenylether	10	U	J
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	10	U	J
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	J
56-55-3	Benzo(a)Anthracene	10	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U	
218-01-9	Chrysene	10	U	
117-84-0	Di-n-Octyl Phthalate	10	U	
205-99-2	Benzo(b)Fluoranthene	10	U	
207-08-9	Benzo(k)Fluoranthene	10	U	
50-32-8	Benzo(a)Pyrene	10	U	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10	U	
53-70-3	Dibenzo(a,h)Anthracene	10	U	
191-24-2	Benzo(g,h,i)Perylene	10	U	

PJC 1-27-

(1)-Cannot be separated from diphenylamine

Laboratory Name F R G Inc

Case No 5136

Sample Number
EE460

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

RECEIVED FEB 11 1986

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11/21/85

Date Analyzed: 11/23/85

Conc./Dil Factor: 1

Percent Moisture (decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

Clear

CAS Number		(ug/l) or ug/Kg (Circle One)	
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	0.5	U
53494-70-5	Endrin Ketone	0.10	U
57-74-9	Chlordane	0.5	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 500ml or W_s —— V_t 10,000 ul V_i 1.0 ul

Laboratory Name: E.R.G., Inc.

Case No: 5136

Sample Number: EE460

Organics Analysis Data Sheet
(Page 4)

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Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
	NO VOLATILE COMPOUNDS FOUND	VOA		
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10. —	UNKNOWN ALDEHYDE (C16-C20)	BNA	1299	7
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

86F502528

Sample Number
EE 461

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: E.R.G. Inc.
Case No: 5136
Lab Sample ID No: VEE461R
QC Report No: —
Sample Matrix: Water
Contract No: 68-01-6869
Data Release Authorized By: Joseph A Hrabow
Date Sample Received: 10-31-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
RECEIVED FEB 11 1986
Date Extracted/Prepared: 11-1-85
Date Analyzed: 11-1-85
Conc/Dil Factor: 1 pH —
Percent Moisture: (Not Decanted) —

Clem

CAS Number		(ug/l or ug/Kg) (Circle One)		
74-87-3	Chloromethane	10	U	J
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	J
67-64-1	Acetone	10	U	J
75-15-0	Carbon Disulfide	5	U	
75-35-4	1, 1-Dichloroethene	5	U	
75-34-3	1, 1-Dichloroethane	5	U	
156-60-5	Trans-1, 2-Dichloroethene	1	J	
67-66-3	Chloroform	2	J	
107-06-2	1, 2-Dichloroethane	5	U	
78-93-3	2-Butanone	10	U	
71-55-6	1, 1, 1-Trichloroethane	5	U	J
56-23-5	Carbon Tetrachloride	5	U	J
108-05-4	Vinyl Acetate	10	U	J
75-27-4	Bromodichloromethane	5	U	

JSC 1-27-86

CAS Number		(ug/l or ug/Kg) (Circle One)		
78-87-5	1, 2-Dichloropropane	5	U	
10061-02-6	Trans-1, 3-Dichloropropene	5	U	
79-01-6	Trichloroethene	2	J	
124-48-1	Dibromochloromethane	5	U	J
79-00-5	1, 1, 2-Trichloroethane	5	U	
71-43-2	Benzene	5	U	
10061-01-5	cis-1, 3-Dichloropropene	5	U	J
110-75-8	2-Chloroethylvinylether	10	U	R
75-25-2	Bromoform	5	U	J
108-10-1	4-Methyl-2-Pentanone	10	U	R
591-78-6	2-Hexanone	10	U	J
127-18-4	Tetrachloroethene	1	J	
79-34-5	1, 1, 2, 2-Tetrachloroethane	5	U	
108-88-3	Toluene	5	U	
108-90-7	Chlorobenzene	5	U	
100-41-4	Ethylbenzene	5	U	
100-42-5	Styrene	5	U	J
	Total Xylenes	5	U	J

JSC 1-27-86

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

R = UNUSABLE

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

NR No value required.

Laboratory Name: ERG Inc

Case No: 5136

Sample Number
EE 461

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

RECEIVED FEB 1 1 1986

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11-1-85

Date Analyzed: 11-21-85

Conc/Dil Factor: 1

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

Clean

CAS Number		ug/l or ug/Kg (Circle One)		
108-95-2	Phenol	10	U	
111-44-4	bis(-2-Chloroethyl)Ether	10	U	J
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	J
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	J
111-91-1	bis(-2-Chloroethoxy)Methane	10	U	
120-83-2	2, 4-Dichlorophenol	10	U	
120-82-1	1, 2, 4-Trichlorobenzene	10	U	
91-20-3	Naphthalene	10	U	J
106-47-8	4-Chloroaniline	10	U	J
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	
99-09-2	3-Nitroaniline	50	U	R

PJC 1-27-86

CAS Number		ug/l or ug/Kg (Circle One)		
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	J
606-20-2	2, 6-Dinitrotoluene	10	U	
84-66-2	Diethylphthalate	3		JB
7005-72-3	4-Chlorophenyl-phenylether	10	U	J
86-73-7	Fluorene	10	U	
100-01-6	4-Nitroaniline	50	U	J
534-52-1	4, 6-Dinitro-2-Methylphenol	50	U	R
86-30-6	N-Nitrosodiphenylamine (1)	10	U	
101-55-3	4-Bromophenyl-phenylether	10	U	J
118-74-1	Hexachlorobenzene	10	U	
87-86-5	Pentachlorophenol	5		J
85-01-8	Phenanthrene	10	U	
120-12-7	Anthracene	10	U	
84-74-2	Di-n-Butylphthalate	1		J
206-44-0	Fluoranthene	10	U	
129-00-0	Pyrene	2		J
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3, 3'-Dichlorobenzidine	20	U	J
56-55-3	Benzo(a)Anthracene	10	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U	
218-01-9	Chrysene	10	U	
117-84-0	Di-n-Octyl Phthalate	10	U	
205-99-2	Benzo(b)Fluoranthene	10	U	
207-08-9	Benzo(k)Fluoranthene	10	U	
50-32-8	Benzo(a)Pyrene	10	U	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10	U	
53-70-3	Dibenz(a, h)Anthracene	10	U	
191-24-2	Benzo(g, h, i)Perylene	10	U	

PJ 1-27-6

(1)-Cannot be separated from diphenylamine

Laboratory Name: F R G Inc.

Case No: 5136

Sample Number: EE 461

Organics Analysis Data Sheet.
(Page 3)

Pesticide/PCBs

RECEIVED FEB 11 1986

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11/21/85

Date Analyzed: 11/23/85

Conc/Dil Factor: 1

Percent Moisture (decanted): NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

Clear

CAS Number		(ug/l) or ug/Kg (Circle One)	
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	0.5	U
53494-70-5	Endrin Ketone	0.10	U
57-74-9	Chlordane	0.5	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s — V_t 10,000 ul V_i 1.0 ul

86F502529

Sample Number
EE 462

Organics Analysis Data Sheet
(Page 1)

RECEIVED FEB 11 1986

Laboratory Name: E.R.G. Inc.
Case No: 5136
Lab Sample ID No: VEE462R
QC Report No: —
Sample Matrix: Water
Contract No: 68-01-6869
Data Release Authorized By: Joseph C. Hunter
Date Sample Received: 10-31-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 11-2-85
Date Analyzed: 11-2-85
Conc/Dil Factor: 1 pH —
Percent Moisture: (Not Decanted) —

Clear

CAS Number		ug/l or ug/Kg (Circle One)		
74-87-3	Chloromethane	10	U	J
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	J
67-64-1	Acetone	10	U	J
75-15-0	Carbon Disulfide	5	U	
75-35-4	1, 1-Dichloroethene	5	U	
75-34-3	1, 1-Dichloroethane	5	U	
156-60-5	Trans-1, 2-Dichloroethene	1	J	
67-66-3	Chloroform	1	J	
107-06-2	1, 2-Dichloroethane	5	U	
78-93-3	2-Butanone	10	U	
71-55-6	1, 1, 1-Trichloroethane	5	U	J
56-23-5	Carbon Tetrachloride	5	U	J
108-05-4	Vinyl Acetate	10	U	J
75-27-4	Bromodichloromethane	5	U	

POC 1-27-86

CAS Number		ug/l or ug/Kg (Circle One)		
78-87-5	1, 2-Dichloropropane	5	U	
10061-02-6	Trans-1, 3-Dichloropropene	5	U	
79-01-6	Trichloroethene	2	J	
124-48-1	Dibromochloromethane	5	U	J
79-00-5	1, 1, 2-Trichloroethane	5	U	
71-43-2	Benzene	5	U	
10061-01-5	cis-1, 3-Dichloropropene	5	U	J
110-75-8	2-Chloroethylvinylether	10	U	R
75-25-2	Bromoform	5	U	J
108-10-1	4-Methyl-2-Pentanone	10	U	R
591-78-6	2-Hexanone	10	U	J
127-18-4	Tetrachloroethene	1	J	
79-34-5	1, 1, 2, 2-Tetrachloroethane	5	U	
108-88-3	Toluene	5	U	
108-90-7	Chlorobenzene	5	U	
100-41-4	Ethylbenzene	5	U	
100-42-5	Styrene	5	U	J
	Total Xylenes	5	U	J

POC 1-27-86

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

R = UNUSABLE

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

NR No value required.

Laboratory Name: ERG Inc

Case No: 5136

Sample Number
EE 462

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

RECEIVED FEB 11 1986

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11-1-85

Date Analyzed: 11-21-85

Conc/Dil Factor: 1

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l) or ug/Kg (Circle One)		
108-95-2	Phenol	10	U	
111-44-4	bis(-2-Chloroethyl)Ether	10	U	J
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	J
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	J
111-91-1	bis(-2-Chloroethoxy)Methane	10	U	
120-83-2	2, 4-Dichlorophenol	10	U	
120-82-1	1, 2, 4-Trichlorobenzene	10	U	
91-20-3	Naphthalene	10	U	J
106-47-8	4-Chloroaniline	10	U	J
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	
99-09-2	3-Nitroaniline	50	U	R

PJC 1-27-86

CAS Number		(ug/l) or ug/Kg (Circle One)		
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	J
606-20-2	2, 6-Dinitrotoluene	10	U	
84-66-2	Diethylphthalate	3	JB	
7005-72-3	4-Chlorophenyl-phenylether	10	U	J
86-73-7	Fluorene	10	U	
100-01-6	4-Nitroaniline	50	U	J
534-52-1	4, 6-Dinitro-2-Methylphenol	50	U	R
86-30-6	N-Nitrosodiphenylamine (1)	10	U	
101-55-3	4-Bromophenyl-phenylether	10	U	J
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	10	U	J
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	J
56-55-3	Benzo(a)Anthracene	10	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U	
218-01-9	Chrysene	10	U	
117-84-0	Di-n-Octyl Phthalate	10	U	
205-99-2	Benzo(b)Fluoranthene	10	U	
207-08-9	Benzo(k)Fluoranthene	10	U	
50-32-8	Benzo(a)Pyrene	10	U	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10	U	
53-70-3	Dibenza[illegible]h)Anthracene	10	U	
191-24-2	Benzo(g, h, i)Perylene	10	U	

PJC 1-27-86

(1)-Cannot be separated from diphenylamine

Laboratory Name F R G Inc.

Case No 5136

Sample Number EE 462

Organics Analysis Data Sheet.
(Page 3)

RECEIVED FEB 11 1986

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11/21/85

Date Analyzed: 11/23/85

Conc/Dil Factor: 1

Percent Moisture (decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l or ug/Kg) (Circle One)	
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	0.5	U
53494-70-5	Endrin Ketone	0.10	U
57-74-9	Chlordane	0.5	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Clear

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s — V_t 10,000 ul V_i 1.0 ul

Laboratory Name: E.R.G., Inc.

Case No: 5136

Sample Number: EE462

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

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CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO VOLATILE COMPOUNDS FOUND	VOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.	UNKNOWN ALDEHYDE (C16-C20)	ABNA	1300	5
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

86F502R03

Sample Number
EE463

Organics Analysis Data Sheet
(Page 1)

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Laboratory Name: E.R.G. Inc.
Case No: 5136
Lab Sample ID No: VEE 463R
QC Report No: —
Sample Matrix: Water
Contract No: 68-01-6869
Data Release Authorized By: Joseph A. Hutton
Date Sample Received: 10-31-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 11-2-85
Date Analyzed: 11-2-85
Conc/Dil Factor: 1 pH —
Percent Moisture: (Not Decanted) —

CAS Number		ug/l or ug/Kg (Circle One)		
74-87-3	Chloromethane	10	U	J
74-83-9	Bromomethane	10	U	J
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	12	B	
67-64-1	Acetone	10	U	J
75-15-0	Carbon Disulfide	5	U	
75-35-4	1, 1-Dichloroethene	5	U	
75-34-3	1, 1-Dichloroethane	5	U	
156-60-5	Trans-1, 2-Dichloroethene	5	U	
67-66-3	Chloroform	5	U	
107-06-2	1, 2-Dichloroethane	5	U	J
78-93-3	2-Butanone	10	U	J
71-55-6	1, 1, 1-Trichloroethane	5	U	J
56-23-5	Carbon Tetrachloride	5	U	
108-05-4	Vinyl Acetate	10	U	J
75-27-4	Bromodichloromethane	5	U	

PJC 1-27-86

CAS Number		ug/l or ug/Kg (Circle One)		
78-87-5	1, 2-Dichloropropane	5	U	
10061-02-6	Trans-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	
10061-01-5	cis-1, 3-Dichloropropene	5	U	J
110-75-8	2-Chloroethylvinylether	10	U	R
75-25-2	Bromoform	5	U	J
108-10-1	4-Methyl-2-Pentanone	10	U	R
591-78-6	2-Hexanone	10	U	J
127-18-4	Tetrachloroethene	5	U	
79-34-5	1, 1, 2, 2-Tetrachloroethane	5	U	
108-88-3	Toluene	5	U	
108-90-7	Chlorobenzene	5	U	
100-41-4	Ethylbenzene	5	U	
100-42-5	Styrene	5	U	
	Total Xylenes	5	U	

PJC 1-27-8

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

R = UNUSABLE

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

NR No value required.

Laboratory Name: FRG Inc

Case No: 5136

Sample Number: EE 463

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

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Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11-1-85

Date Analyzed: 11-21-85

Conc/Dil Factor: 1

Percent Moisture (Decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l) or ug/Kg (Circle One)		
108-95-2	Phenol	10	U	
111-44-4	bis(-2-Chloroethyl)Ether	10	U	J
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	J
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	J
111-91-1	bis(-2-Chloroethoxy)Methane	10	U	
120-83-2	2. 4-Dichlorophenol	10	U	
120-82-1	1. 2. 4-Trichlorobenzene	10	U	
91-20-3	Naphthalene	10	U	J
106-47-8	4-Chloroaniline	10	U	J
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	
99-09-2	3-Nitroaniline	50	U	R

PJC 1-27-86

CAS Number		(ug/l) or ug/Kg (Circle One)		
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	J
606-20-2	2. 6-Dinitrotoluene	10	U	
84-66-2	Diethylphthalate	3	JB	
7005-72-3	4-Chlorophenyl-phenylether	10	U	J
86-73-7	Fluorene	10	U	
100-01-6	4-Nitroaniline	50	U	J
534-52-1	4. 6-Dinitro-2-Methylphenol	50	U	R
86-30-6	N-Nitrosodiphenylamine (1)	10	U	
101-55-3	4-Bromophenyl-phenylether	10	U	J
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	10	U	J
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	J
56-55-3	Benzo(a)Anthracene	10	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U	
218-01-9	Chrysene	10	U	
117-84-0	Di-n-Octyl Phthalate	10	U	
205-99-2	Benzo(b)Fluoranthene	10	U	
207-08-9	Benzo(k)Fluoranthene	10	U	
50-32-8	Benzo(a)Pyrene	10	U	
193-39-5	Indeno(1. 2. 3-cd)Pyrene	10	U	
53-70-3	Dibenzo(a,h)Anthracene	10	U	
191-24-2	Benzo(g,h,i)Perylene	10	U	

PJC 1-27-86

(1)-Cannot be separated from diphenylamine

Laboratory Name: E R G Inc.

Case No: 5136

Sample Number: EE 463

Organics Analysis Data Sheet.
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11/21/85

Date Analyzed: 11/23/85

Conc/Dil Factor: 1

Percent Moisture (decanted): NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

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Clear

CAS Number		(ug/l) or ug/Kg (Circle One)	
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	0.5	U
53494-70-5	Endrin Ketone	0.10	U
57-74-9	Chlordane	0.5	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s — V_t 10,000 ul V_i 1.0 ul

Laboratory Name: E.R.G., Inc.

Case No: 5136

Sample Number
EE463

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

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CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO VOLATILE COMPOUNDS FOUND	VOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.	NO SEMI-VOLATILE COMPOUNDS FOUND			
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Sample Number
EE 457 R6

86F502524

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: E.R.G., Inc.
Case No: 5136
Lab Sample ID No: EE457
QC Report No: —
Sample Matrix: SOIL/SED.
Contract No: 68-01-6869
Data Release Authorized By: Joseph A. Amatour
Date Sample Received: 10/31/85

Volatile Compounds

Concentration: Low (Medium) (Circle One)
Date Extracted/Prepared: 11/4/85
Date Analyzed: 11/4/85
Conc/Dil Factor: 0.3 pH 7.59
Percent Moisture: (Not Decanted) 16.2

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CAS Number		ug/l or ug/Kg (Circle One)		
74-87-3	Chloromethane	360	U	J
74-83-9	Bromomethane	360	U	J
75-01-4	Vinyl Chloride	360	U	
75-00-3	Chloroethane	360	U	J
75-09-2	Methylene Chloride	7600	B	
67-64-1	Acetone	360	U	J
75-15-0	Carbon Disulfide	180		
75-35-4	1, 1-Dichloroethene	180	U	
75-34-3	1, 1-Dichloroethane	180	U	
156-60-5	Trans-1, 2-Dichloroethene	180	U	
67-66-3	Chloroform	180	U	
107-06-2	1, 2-Dichloroethane	180	U	J
78-93-3	2-Butanone	8200	B	J
71-55-6	1, 1, 1-Trichloroethane	120	J B	
56-23-5	Carbon Tetrachloride	180	U	J
108-05-4	Vinyl Acetate	360	U	J
75-27-4	Bromodichloromethane	180	U	J

PJC 1-27-86

CAS Number		ug/l or ug/Kg (Circle One)		
78-87-5	1, 2-Dichloropropane	180	U	
10061-02-6	Trans-1, 3-Dichloropropene	180	U	J
79-01-6	Trichloroethene	59	J B	
124-48-1	Dibromochloromethane	180	U	J
79-00-5	1, 1, 2-Trichloroethane	180	U	
71-43-2	Benzene	180	U	J
10061-01-5	cis-1, 3-Dichloropropene	180	U	J
110-75-8	2-Chloroethylvinylether	360	U	R
75-25-2	Bromoform	180	U	J
108-10-1	4-Methyl-2-Pentanone	1100		J
591-78-6	2-Hexanone	360	U	J
127-18-4	Tetrachloroethene	180	U	J
79-34-5	1, 1, 2, 2-Tetrachloroethane	180	U	
108-88-3	Toluene	180		
108-90-7	Chlorobenzene	180	U	
100-41-4	Ethylbenzene	120	J	
100-42-5	Styrene	180	U	
	Total Xylenes	180	U	

PJC 1-27-86

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

R = UNUSABLE

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

NR No value required.

Laboratory Name: E.R.G., Inc.

Case No: 5136

Sample Number
EE.457

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11-7-85

Date Analyzed: 11-22-85

Conc/Dil Factor: 1

Percent Moisture (Decanted) NOT 16.2

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

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CAS Number		ug/l or ug/Kg (Circle One)		
108-95-2	Phenol	390	U	
111-44-4	bis(-2-Chloroethyl)Ether	390	U	
95-57-8	2-Chlorophenol	390	U	
541-73-1	1, 3-Dichlorobenzene	390	U	J
106-46-7	1, 4-Dichlorobenzene	390	U	
100-51-6	Benzyl Alcohol	390	U	
95-50-1	1, 2-Dichlorobenzene	390	U	J
95-48-7	2-Methylphenol	390	U	
39638-32-9	bis(2-chloroisopropyl)Ether	390	U	
106-44-5	4-Methylphenol	390	U	
621-64-7	N-Nitroso-Di-n-Propylamine	390	U	
67-72-1	Hexachloroethane	390	U	
98-95-3	Nitrobenzene	390	U	
78-59-1	Isophorone	390	U	
88-75-5	2-Nitrophenol	390	U	
105-67-9	2, 4-Dimethylphenol	360	U	
65-85-0	Benzoic Acid	1900	U	J
111-91-1	bis(-2-Chloroethoxy)Methane	390	U	
120-83-2	2, 4-Dichlorophenol	390	U	
120-82-1	1, 2, 4-Trichlorobenzene	390	U	
91-20-3	Naphthalene	40	J	
106-47-8	4-Chloroaniline	390	U	J
87-68-3	Hexachlorobutadiene	390	U	
59-50-7	4-Chloro-3-Methylphenol	390	U	
91-57-6	2-Methylnaphthalene	260	J	
77-47-4	Hexachlorocyclopentadiene	390	U	
88-06-2	2, 4, 6-Trichlorophenol	390	U	
95-95-4	2, 4, 5-Trichlorophenol	1900	U	
91-58-7	2-Chloronaphthalene	390	U	
88-74-4	2-Nitroaniline	1900	U	
131-11-3	Dimethyl Phthalate	390	U	
208-96-8	Acenaphthylene	390	U	
99-09-2	3-Nitroaniline	1900	U	R

CAS Number		ug/l or ug/Kg (Circle One)		
83-32-9	Acenaphthene	36	J	
51-28-5	2, 4-Dinitrophenol	1900	U	
100-02-7	4-Nitrophenol	1900	U	
132-64-9	Dibenzofuran	77	J	
121-14-2	2, 4-Dinitrotoluene	390	U	J
606-20-2	2, 6-Dinitrotoluene	390	U	J
84-66-2	Diethylphthalate	250	JB	
7005-72-3	4-Chlorophenyl-phenylether	390	U	
86-73-7	Fluorene	390	U	
100-01-6	4-Nitroaniline	1900	U	J
534-52-1	4, 6-Dinitro-2-Methylphenol	1900	U	R
86-30-6	N-Nitrosodiphenylamine (1)	390	U	
101-55-3	4-Bromophenyl-phenylether	390	U	
118-74-1	Hexachlorobenzene	390	U	J
87-86-5	Pentachlorophenol	1900	U	
85-01-8	Phenanthrene	480		J
120-12-7	Anthracene	390	U	
84-74-2	Di-n-Butylphthalate	390	U	
206-44-0	Fluoranthene	86	J	
129-00-0	Pyrene	75	J	
85-68-7	Butylbenzylphthalate	390	U	J
91-94-1	3, 3'-Dichlorobenzidine	790	U	
56-55-3	Benzo(a)Anthracene	390	U	J
117-81-7	bis(2-Ethylhexyl)Phthalate	390	U	J
218-01-9	Chrysene	48	J	
117-84-0	Di-n-Octyl Phthalate	390	U	
205-99-2	Benzo(b)Fluoranthene	390	U	
207-08-9	Benzo(k)Fluoranthene	390	U	
50-32-8	Benzo(a)Pyrene	390	U	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	390	U	J
53-70-3	Dibenz(a, h)Anthracene	390	U	
191-24-2	Benzo(g, h, i)Perylene	390	U	J

(1)-Cannot be separated from diphenylamine

Laboratory Name E.R.G., Inc.

Case No 5136

Sample Number EE 457

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11/19/85

Date Analyzed: 11/23/85

Conc/Dil Factor: 1

Percent Moisture (decanted) 16.2%

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

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CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	9.5	U
319-85-7	Beta-BHC	9.5	U
319-86-8	Delta-BHC	9.5	U
58-89-9	Gamma-BHC (Lindane)	9.5	U
76-44-8	Heptachlor	9.5	U
309-00-2	Aldrin	9.5	U
1024-57-3	Heptachlor Epoxide	~~2.3~~	~~J~~ 9.5U
959-98-8	Endosulfan I	9.5	U
60-57-1	Dieldrin	19	U
72-55-9	4, 4'-DDE	19	U
72-20-8	Endrin	19	U
33213-65-9	Endosulfan II	19	U
72-54-8	4, 4'-DDD	19	U
1031-07-8	Endosulfan Sulfate	19	U
50-29-3	4, 4'-DDT	19	U
72-43-5	Methoxychlor	95	U
53494-70-5	Endrin Ketone	19	U
57-74-9	Chlordane	95	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	95	U
11104-28-2	Aroclor-1221	95	U
11141-16-5	Aroclor-1232	95	U
53469-21-9	Aroclor-1242	95	U
12672-29-6	Aroclor-1248	95	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s ——— or W_s 25.37g DRY WT. V_t 1000ml V_i 1.0ml

Laboratory Name: E.R.G., Inc.

Case No: 5136

Sample Number: EE457

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

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CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 554-12-1	METHYL ESTER PROPANOIC ACID	VOA	502	560
2.	UNKNOWN-NOT IN EPA/NIH LIBRARY	VOA	526	110
3. 563-80-4	3-METHYL-2-BUTANONE	VOA	546	690
4. 6137-11-7	4-METHYL-3-HEPTANONE	VOA	591	1500
5. 106-70-7	METHYL ESTER HEXANOIC ACID	VOA	637	660
6. 868-57-5	METHYL ESTER-2-METHYL-BUTANOIC ACID	VOA	704	490
7. 13151-04-7	5-METHYL-1-HEPTENE	VOA	716	200
8.	UNKNOWN-NOT IN EPA/NIH LIBRARY	VOA	729	170
9.	UNKNOWN-NOT IN EPA/NIH LIBRARY	VOA	860	170
10. 17257-81-7	3,4-EPOXY-2-HEXANONE	VOA	948	220
11. 62016-34-6	2,3,7-trimethyloctane	BNA	855	250
12.	UNKNOWN HYDROCARBON	BNA	880	380
13. 90-12-0	1-methylnaphthalene	BNA	885	250
14.	UNKNOWN HYDROCARBON	BNA	949	240
15. 62108-24-8	6-ETHYL-2-METHYL DECANE	BNA	969	600
16. 575-37-1	1,7-DIMETHYL-NAPHTHALENE	BNA	982	440
17.	DIMETHYL NAPHTHALENE	BNA	999	300
18.	UNKNOWN HYDROCARBON	BNA	1021	520
19.	UNKNOWN HYDROCARBON	BNA	1052	460
20.	UNKNOWN-NOT IN EPA/NIH LIBRARY	BNA	1067	440
21. 2245-38-7	1,6,7-TRIMETHYLNAPHTHALENE	BNA	1087	280
22. 829-26-5	2,3,6-TRIMETHYLNAPHTHALENE	BNA	1101	370
23.	UNKNOWN HYDROCARBON	BNA	1130	430
24. 7320-53-8	4-METHYLDIBENZOFURAN	BNA	1145	300
25.	UNKNOWN HYDROCARBON	BNA	1167	400
26.	UNKNOWN-NOT IN EPA/NIH LIBRARY	BNA	1229	430
27.	UNKNOWN HYDROCARBON (C14-C18)	BNA	1275	300
28.	UNKNOWN PHENANTHRENE	BNA	1343	370
29. 883-20-5	9-METHYL PHENANTHRENE	BNA	1355	340
30.	UNKNOWN-NOT IN EPA/NIH LIBRARY	BNA	2007	600

Sample Number
EE 458

R2

86F502525

Organics Analysis Data Sheet
(Page-1)

Laboratory Name: E.R.G., Inc.

Case No: 5136

Lab Sample ID No: EE 458 R2

QC Report No: —

Sample Matrix: SOIL/SED.

Contract No: 68-01-6869

Data Release Authorized By: Josepha Hutton

Date Sample Received: 10/31/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11/3/85

Date Analyzed: 11/3/85

Conc/Dil Factor: 5 pH 7.93

Percent Moisture: (Not Decanted) 31.3

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CAS Number		ug/l or ug/Kg (Circle One)		
74-87-3	Chloromethane	73	U	J
74-83-9	Bromomethane	73	U	J
75-01-4	Vinyl Chloride	73	U	
75-00-3	Chloroethane	73	U	J
75-09-2	Methylene Chloride	1300	B	
67-64-1	Acetone	73	U	J
75-15-0	Carbon Disulfide	44		
75-35-4	1, 1-Dichloroethene	36	U	
75-34-3	1, 1-Dichloroethane	36	U	
156-60-5	Trans-1, 2-Dichloroethene	36	U	
67-66-3	Chloroform	36	U	
107-06-2	1, 2-Dichloroethane	36	U	J
78-93-3	2-Butanone	73	U	J
71-55-6	1, 1, 1-Trichloroethane	15	J	
56-23-5	Carbon Tetrachloride	36	U	J
108-05-4	Vinyl Acetate	73	U	J
75-27-4	Bromodichloromethane	36	U	J

CAS Number		ug/l or ug/Kg (Circle One)		
78-87-5	1, 2-Dichloropropane	36	U	
10061-02-6	Trans-1, 3-Dichloropropene	36	U	J
79-01-6	Trichloroethene	15	J	
124-48-1	Dibromochloromethane	36	U	J
79-00-5	1, 1, 2-Trichloroethane	36	U	
71-43-2	Benzene	36	U	J
10061-01-5	cis-1, 3-Dichloropropene	36	U	J
110-75-8	2-Chloroethylvinylether	73	U	R
75-25-2	Bromoform	36	U	J
108-10-1	4-Methyl-2-Pentanone	73	U	R
591-78-6	2-Hexanone	73	U	J
127-18-4	Tetrachloroethene	36	U	J
79-34-5	1, 1, 2, 2-Tetrachloroethane	36	U	
108-88-3	Toluene	66		
108-90-7	Chlorobenzene	36	U	
100-41-4	Ethylbenzene	36	U	
100-42-5	Styrene	36	U	J
	Total Xylenes	36	U	

RJC 1-27-86

RJC 1-27-86

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

R = UNUSABLE

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

NR No value required.

Laboratory Name: E.R.G., Inc.

Case No: 5136

Sample Number: EE 458

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11-7-85

Date Analyzed: 11-22-85

Conc/Dil Factor: 1

Percent Moisture (Decanted) 31.3

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

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CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	480 U	
111-44-4	bis(-2-Chloroethyl)Ether	480 U	
95-57-8	2-Chlorophenol	480 U	
541-73-1	1, 3-Dichlorobenzene	480 U	J
106-46-7	1, 4-Dichlorobenzene	480 U	
100-51-6	Benzyl Alcohol	480 U	
95-50-1	1, 2-Dichlorobenzene	480 U	J
95-48-7	2-Methylphenol	480 U	
39638-32-9	bis(2-chloroisopropyl)Ether	480 U	
106-44-5	4-Methylphenol	480 U	
621-64-7	N-Nitroso-Di-n-Propylamine	480 U	
67-72-1	Hexachloroethane	480 U	
98-95-3	Nitrobenzene	480 U	
78-59-1	Isophorone	480 U	
88-75-5	2-Nitrophenol	480 U	
105-67-9	2, 4-Dimethylphenol	440 U	
65-85-0	Benzoic Acid	2300 U	J
111-91-1	bis(-2-Chloroethoxy)Methane	480 U	
120-83-2	2, 4-Dichlorophenol	480 U	
120-82-1	1, 2, 4-Trichlorobenzene	480 U	
91-20-3	Naphthalene	480 U	
106-47-8	4-Chloroaniline	480 U	J
87-68-3	Hexachlorobutadiene	480 U	
59-50-7	4-Chloro-3-Methylphenol	480 U	
91-57-6	2-Methylnaphthalene	480 U	J
77-47-4	Hexachlorocyclopentadiene	480 U	
88-06-2	2, 4, 6-Trichlorophenol	480 U	
95-95-4	2, 4, 5-Trichlorophenol	2300 U	
91-58-7	2-Chloronaphthalene	480 U	
88-74-4	2-Nitroaniline	2300 U	
131-11-3	Dimethyl Phthalate	480 U	
208-96-8	Acenaphthylene	480 U	
99-09-2	3-Nitroaniline	2300 U	R

PJC 1-27-86

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	480 U	
51-28-5	2, 4-Dinitrophenol	2300 U	
100-02-7	4-Nitrophenol	2300 U	
132-64-9	Dibenzofuran	480 U	
121-14-2	2, 4-Dinitrotoluene	480 U	J
606-20-2	2, 6-Dinitrotoluene	480 U	J
84-66-2	Diethylphthalate	130 B	
7005-72-3	4-Chlorophenyl-phenylether	480 U	
86-73-7	Fluorene	480 U	
100-01-6	4-Nitroaniline	2300 U	J
534-52-1	4, 6-Dinitro-2-Methylphenol	2300 U	R
86-30-6	N-Nitrosodiphenylamine (1)	480 U	
101-55-3	4-Bromophenyl-phenylether	480 U	
118-74-1	Hexachlorobenzene	480 U	J
87-86-5	Pentachlorophenol	2300 U	
85-01-8	Phenanthrene	480 U	J
120-12-7	Anthracene	480 U	
84-74-2	Di-n-Butylphthalate	480 U	
206-44-0	Fluoranthene	480 U	
129-00-0	Pyrene	480 U	
85-68-7	Butylbenzylphthalate	480 U	J
91-94-1	3, 3'-Dichlorobenzidine	960 U	
56-55-3	Benzo(a)Anthracene	480 U	J
117-81-7	bis(2-Ethylhexyl)Phthalate	480 U	J
218-01-9	Chrysene	480 U	
117-84-0	Di-n-Octyl Phthalate	480 U	
205-99-2	Benzo(b)Fluoranthene	480 U	
207-08-9	Benzo(k)Fluoranthene	480 U	
50-32-8	Benzo(a)Pyrene	480 U	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	480 U	J
53-70-3	Dibenzo(a, h)Anthracene	480 U	
191-24-2	Benzo(g, h, i)Perylene	480 U	J

PJ 1-27-86

(1)-Cannot be separated from diphenylamine

Laboratory Name: E.R.G., Inc.

Case No: 5136

Sample Number: EE 458

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11/19/85

Date Analyzed: 11/23/85

Conc/Dil Factor: 5

Percent Moisture (decanted): 31.3 %

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

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CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	58	U
319-85-7	Beta-BHC	58	U
319-86-8	Delta-BHC	58	U
58-89-9	Gamma-BHC (Lindane)	58	U
76-44-8	Heptachlor	58	U
309-00-2	Aldrin	58	U
1024-57-3	Heptachlor Epoxide	58	U
959-98-8	Endosulfan I	58	U
60-57-1	Dieldrin	120	U
72-55-9	4, 4'-DDE	120	U
72-20-8	Endrin	120	U
33213-65-9	Endosulfan II	120	U
72-54-8	4, 4'-DDD	120	U
1031-07-8	Endosulfan Sulfate	120	U
50-29-3	4, 4'-DDT	120	U
72-43-5	Methoxychlor	580	U
53494-70-5	Endrin Ketone	120	U
57-74-9	Chlordane	580	U
8001-35-2	Toxaphene	1200	U
12674-11-2	Aroclor-1016	580	U
11104-28-2	Aroclor-1221	580	U
11141-16-5	Aroclor-1232	580	U
53469-21-9	Aroclor-1242	~~290~~	~~J~~ 580 U
12672-29-6	Aroclor-1248	580	U
11097-69-1	Aroclor-1254	1200	U
11096-82-5	Aroclor-1260	1200	U

PJC 1-27-86

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s — or W_s 20.66 g U DRY WT. V_t 1000 µL V_i 1.0 µL

Laboratory Name: ERG. INC.

Case No: 5136

Sample Number: EE 458

Organics Analysis Data Sheet
(Page 4)

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Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 563-80-4	3-METHYL-2-BUTANONE	VOA	589	5
2.				
3.				
4.	NO SEMI-VOLATILE COMPOUNDS FOUND			
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
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22.				
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24.				
25.				
26.				
27.				
28.				
29.				
30.				

Sample Number
EE 459

R1

86F502526

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: E.R.G., Inc.

Case No: 5136

Lab Sample ID No: EE 459 R1

QC Report No: —

Sample Matrix: SOIL/SED.

Contract No: 68-01-6869

Data Release Authorized By: Josephine Hutchins

Date Sample Received: 10/31/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11/4/85

Date Analyzed: 11/4/85

Conc/Dil Factor: 5 pH 7.46

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Percent Moisture: (Not Decanted) 38.1

CAS Number		ug/l or (ug/Kg) (Circle One)		
74-87-3	Chloromethane	81	U	J
74-83-9	Bromomethane	81	U	J
75-01-4	Vinyl Chloride	81	U	
75-00-3	Chloroethane	81	U	J
75-09-2	Methylene Chloride	730	B	
67-64-1	Acetone	81	U	J
75-15-0	Carbon Disulfide	16	J	
75-35-4	1, 1-Dichloroethene	40	U	
75-34-3	1, 1-Dichloroethane	40	U	
156-60-5	Trans-1, 2-Dichloroethene	40	U	
67-66-3	Chloroform	40	U	
107-06-2	1, 2-Dichloroethane	40	U	J
78-93-3	2-Butanone	81	U	J
71-55-6	1, 1, 1-Trichloroethane	8	J	
56-23-5	Carbon Tetrachloride	40	U	J
108-05-4	Vinyl Acetate	81	U	J
75-27-4	Bromodichloromethane	40	U	J

CAS Number		ug/l or (ug/Kg) (Circle One)		
78-87-5	1, 2-Dichloropropane	40	U	
10061-02-6	Trans-1, 3-Dichloropropene	40	U	J
79-01-6	Trichloroethene	40	U	
124-48-1	Dibromochloromethane	40	U	J
79-00-5	1, 1, 2-Trichloroethane	40	U	
71-43-2	Benzene	40	U	J
10061-01-5	cis-1, 3-Dichloropropene	40	U	J
110-75-8	2-Chloroethylvinylether	81	U	R
75-25-2	Bromoform	40	U	J
108-10-1	4-Methyl-2-Pentanone	81	U	R
591-78-6	2-Hexanone	81	U	J
127-18-4	Tetrachloroethene	40	U	J
79-34-5	1, 1, 2, 2-Tetrachloroethane	40	U	
108-88-3	Toluene	40	U	
108-90-7	Chlorobenzene	40	U	
100-41-4	Ethylbenzene	40	U	
100-42-5	Styrene	40	U	
	Total Xylenes	40	U	

PEC 1-27-86

PEC 1-27-86

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

R = UNUSABLE

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

NR No value required.

Laboratory Name: E.R.G., Inc.

Case No: 5136

Sample Number: EE459

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11-7-85

Date Analyzed: 11-22-85

Conc/Dil Factor: 1

Percent Moisture (Decanted) NOT 38.1

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

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CAS Number		ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	530 U	
111-44-4	bis(-2-Chloroethyl)Ether	530 U	
95-57-8	2-Chlorophenol	530 U	
541-73-1	1, 3-Dichlorobenzene	530 U	J
106-46-7	1, 4-Dichlorobenzene	530 U	
100-51-6	Benzyl Alcohol	530 U	
95-50-1	1, 2-Dichlorobenzene	530 U	J
95-48-7	2-Methylphenol	530 U	
39638-32-9	bis(2-chloroisopropyl)Ether	530 U	
106-44-5	4-Methylphenol	530 U	
621-64-7	N-Nitroso-Di-n-Propylamine	530 U	
67-72-1	Hexachloroethane	530 U	
98-95-3	Nitrobenzene	530 U	
78-59-1	Isophorone	530 U	
88-75-5	2-Nitrophenol	530 U	
105-67-9	2, 4-Dimethylphenol	480 U	
65-85-0	Benzoic Acid	2600 U	J
111-91-1	bis(-2-Chloroethoxy)Methane	530 U	
120-83-2	2, 4-Dichlorophenol	530 U	
120-82-1	1, 2, 4-Trichlorobenzene	530 U	
91-20-3	Naphthalene	530 U	
106-47-8	4-Chloroaniline	530 U	J
87-68-3	Hexachlorobutadiene	530 U	
59-50-7	4-Chloro-3-Methylphenol	530 U	
91-57-6	2-Methylnaphthalene	530 U	J
77-47-4	Hexachlorocyclopentadiene	530 U	
88-06-2	2, 4, 6-Trichlorophenol	530 U	
95-95-4	2, 4, 5-Trichlorophenol	2600 U	
91-58-7	2-Chloronaphthalene	530 U	
88-74-4	2-Nitroaniline	2600 U	
131-11-3	Dimethyl Phthalate	530 U	
208-96-8	Acenaphthylene	530 U	
99-09-2	3-Nitroaniline	2600 U	R

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	530 U	
51-28-5	2, 4-Dinitrophenol	2600 U	
100-02-7	4-Nitrophenol	2600 U	
132-64-9	Dibenzofuran	530 U	
121-14-2	2, 4-Dinitrotoluene	530 U	J
606-20-2	2, 6-Dinitrotoluene	530 U	J
84-66-2	Diethylphthalate	330 JB	
7005-72-3	4-Chlorophenyl-phenylether	530 U	
86-73-7	Fluorene	530 U	
100-01-6	4-Nitroaniline	2600 U	J
534-52-1	4, 6-Dinitro-2-Methylphenol	2600 U	R
86-30-6	N-Nitrosodiphenylamine (1)	530 U	
101-55-3	4-Bromophenyl-phenylether	530 U	
118-74-1	Hexachlorobenzene	530 U	J
87-86-5	Pentachlorophenol	2600 U	
85-01-8	Phenanthrene	100 J	
120-12-7	Anthracene	530 U	
84-74-2	Di-n-Butylphthalate	530 U	
206-44-0	Fluoranthene	110 J	
129-00-0	Pyrene	100 J	
85-68-7	Butylbenzylphthalate	530 U	J
91-94-1	3, 3'-Dichlorobenzidine	1100 U	
56-55-3	Benzo(a)Anthracene	59 J	
117-81-7	bis(2-Ethylhexyl)Phthalate	530 U	J
218-01-9	Chrysene	85 J	
117-84-0	Di-n-Octyl Phthalate	530 U	
205-99-2	Benzo(b)Fluoranthene	530 U	
207-08-9	Benzo(k)Fluoranthene	530 U	
50-32-8	Benzo(a)Pyrene	530 U	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	530 U	J
53-70-3	Dibenzo(a, h)Anthracene	530 U	
191-24-2	Benzo(g, h, i)Perylene	530 U	J

(1)-Cannot be separated from diphenylamine

Laboratory Name: E.R.G., Inc.

Case No: 5136

Sample Number: EE459

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11/19/85

Date Analyzed: 11/23/85

Conc/Dil Factor: 1

Percent Moisture (decanted) 38.4%

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

RECEIVED FEB 11 1986

CAS Number		ug/l or (ug/Kg) (Circle One)	
319-84-6	Alpha-BHC	13	U
319-85-7	Beta-BHC	13	U
319-86-8	Delta-BHC	13	U
58-89-9	Gamma-BHC (Lindane)	13	U
76-44-8	Heptachlor	13	U
309-00-2	Aldrin	13	U
1024-57-3	Heptachlor Epoxide	13	U
959-98-8	Endosulfan I	13	U
60-57-1	Dieldrin	26	U
72-55-9	4, 4'-DDE	26	U
72-20-8	Endrin	26	U
33213-65-9	Endosulfan II	26	U
72-54-8	4, 4'-DDD	26	U
1031-07-8	Endosulfan Sulfate	26	U
50-29-3	4, 4'-DDT	26	U
72-43-5	Methoxychlor	130	U
53494-70-5	Endrin Ketone	26	U
57-74-9	Chlordane	130	U
8001-35-2	Toxaphene	260	U
12674-11-2	Aroclor-1016	130	U
11104-28-2	Aroclor-1221	130	U
11141-16-5	Aroclor-1232	130	U
53469-21-9	Aroclor-1242	130	U
12672-29-6	Aroclor-1248	130	U
11097-69-1	Aroclor-1254	260	U
11096-82-5	Aroclor-1260	260	U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s — or W_s 18.55g DRY WT. V_t 1000 ml V_i 1.0 ml

Laboratory Name: E.R.G., Inc.

Case No: 5136

Sample Number
EE451

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

RECEIVED FEB 11 1986

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.				
2.				
3.	NO VOLATILE COMPOUNDS FOUND	VOA		
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.	UNKNOWN HYDROCARBON (C19-C21)	BNA	1206	440
12.	UNKNOWN CARBOXYLIC ACID (C12-C16)	BNA	1379	340
13.	UNKNOWN PAH	BNA	1829	450
14.	UNKNOWN-NOT IN EPA/NIH LIBRARY	BNA	1855	490
15.	UNKNOWN-NOT IN EPA/NIH LIBRARY	BNA	1890	290
16.	UNKNOWN-NOT IN EPA/NIH LIBRARY	BNA	2006	280
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

INTRODUCTION TO DATA TABLES

A SUMMARY OF THE ANALYTICAL RESULTS FOR SAMPLES WHICH WERE TAKEN DURING FIELD ACTIVITIES CAN BE FOUND IN THE FOLOWING TABLES. ONLY DETECTABLE CONCENTRATIONS ARE REPORTED, HOWEVER, IF THE COMPOUND HAS A FOOTNOTE FOLLOWING THE VALUE, CONSULT THE DEFINITION OF THE FOOTNOTE PROVIDED BELOW. ADDITIONAL QA/QC INFORMATION IS PROVIDED IN THE ATTACHED DATA SHEETS.

I) REPORTING UNITS
- A) ORGANICS
  - 1) Water Samples - ug/l or ppb (parts per billion)
  - 2) Soils or Sediments - ug/kg or ppb (parts per billion)
- B) METALS
  - 1) Water Samples - ug/l or ppb
  - 2) Soils or sediments - mg/kg or ppm

II) DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A) ORGANICS

Footnote	Definition	Interpretation
UJ	Detection Limit (D.L.) is estimated because of a Quality Control (QC) protocol. D.L. is possibly above or below Contract Required Detection Limit (CRDL).	Compound was not detected
UB	Compound found in laboratory blank. No Value above CRDL.	Compound was not detected
UJB	Compound found in laboratory blank, but not detected in sample. CRDL is estimated because of a QC protocol.	Compound was not detected
B	Compound found in blank. Two interpretations are possible:	
	a) If sample value is equivalent to D.L. to 5x blank concentration	Compound value is semi-quantitative.
	b) If sample value is greater than 5x the blank concentration	Compound value is quantitative
JB	Compound found in blank, value is estimated because of QC protocol.	Compound value is semi-quantitative
R	Do Not Use Value. Major Violation of QC Protocol	Compound value is not usable.
C	Value adjusted for blank (an unacceptable procedure)	Compound value is semi-quantitative
J	Value is above CRDL and is an estimated value because of a QC protocol	Compound value is semi-quantitative
Q	No Analytical Result	Compound was not detected
N	Presumptive evidence for the presence of a compound as used for a Tentatively Identified Compound (TIC)	Compound value is semi-quantitative

B) METALS

FOOTNOTE	DEFINITION	INTERPRETATION
E	Estimated or not reported due to interference. See laboratory narrative.	Compound or element was not detected or value is semi-quantitative
s	Analysis by Method of Standard Additions (Look for a "+" Footnote)	Value is quantative
R	Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semiquantitative
*	Duplicate value outside QC protocols which indicates a possible matrix problem	Value is semiquantitative
+	Correlation coefficient for standard additions is less than 0.995. See review and laboratory narrative.	Data value is biased
[ ]	Value is real, but is above instrument D.L. and below CRDL	Value may be quantitative or semiquantitative
UJ	D.L. is estimated because of a QC protocol. D.L. is possibly above or below CRDL.	Compound or element was not detected
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value is semiquantitative

ITC	MEG486		MEG487		MEG 488		MEG 483		MEG 484		MEG 485
OTC	EE460		EE461		EE 462		EE 457		EE 458		EE 459
SAMPLE	SW 1		SW 2		SW 3		S 1		S 2		S 3
COMPOUND											
chloromethane											
bromomethane											
vinyl chloride											
chloroethane							7600 B		1300 B		730 B
methylene chloride	14 BJ		11 BJ		11 BJ						
acetone							180		44		16 J
carbon disulfide											
1,1-dichloroethene											
1,1-dichloroethane											
trans-1,2,-dichloroethene	1 J		1 J		1 J						
chloroform	2 J		2 J		1 J						
1,2-dichloroethane							8200 BJ				
2-butanone							120 JB		15 J		8 J
1,1,1-trichloroethane											
carbon tetrachloride											
vinyl acetate											
bromodichloromethane											
1,1,2,2-tetrachloroethane											
1,2-dichloropropane											
trans-1,3-dichloropropene											
trichloroethene	2 J		2 J		2 J		59 JB		15 J		
dibromochloromethane											
1,1,2-trichloroethane											
benzene											
cis-1,3-dichloropropene											
2-chloroethylvinylether											
bromoform											
2-hexanone							1100 J				
4-methyl-2-pentanone											
tetrachloroethene	1 J		1 J		1 J		180		66		
toluene											
chlorobenzene							120 J				
ethylbenzene											
styrene											
total xylenes											
N-nitrosodimethylamine											
phenol											
aniline											
bis(2-chloroethyl)ether											
2-chlorophenol											
1,3-dichlorobenzene											
1,4-dichlorobenzene											
benzyl alcohol											
1,2-dichlorobenzene											
2-methylphenol											
bis(2-chloroisopropyl)ether											
4-methylphenol											
N-nitroso-di-n-propylamine											
hexachloroethane											
nitrobenzene											
isophrone											
2-nitrophenol											
2,4-dimethylphenol											
benzoic acid											
bis(2-chloroethoxy)methane											
2,4-dichlorophenol											
1,2,4-trichlorobenzene											
napthalene							40 J				
4-chloroaniline											
hexachlorobutadiene											
4-chloro-3-methylphenol											
2-methylnapthalene							260 J				
hexachlorocyclopentadiene											
2,4,6-trichlorophenol											
2,4,5-trichlorophenol											
2-chloronaphthalene											
2-nitroaniline											
dimethyl phthalate											
acenapthylene							36 J				
3-nitroaniline											
acenaphthene											
2,4-dinitrophenol											
4-nitrophenol											
dibenzofurnan							77 J				
2,4-dinitrotoluene											
2,6-dinitrotoluene											
diethylphthalate	4 JB		3 JB		3 JB		250 JB		130 B		330 JB
4-chlorophenyl-phenylether											
flourene											
4-nitroaniline											
4,6-dinitro-2-methylphenol											
N-nitrosodiphenylamine											
4-bromophenyl-phenylether											
hexachlorobenzene											

STATE INDIANA SITE McKINLEY-THOMPSON TDD R05-8410-02A PAGE 1 OF 2, SET # 1

	ITC	MEG486		MEG487		MEG488		MEG483		MEG484		MEG485
	OTC	EE460		EE461		EE462		EE457		EE458		EE459
	SAMPLE	SW1		SW2		SW3		S1		S2		S3
COMPOUND												
pentachlorophenol				5 J				480 J				100 J
phenanthrene												
anthracene				1 J				86 J				110 J
di-n-butylphthalate												
fluoranthene												100 J
benzidine				2 J								
pyrene												
butylbenzylphthalate												59 J
3,3'-dichlorobenzidine												
benzo(a)anthracene												85 J
bis(2-ethylhexyl)phthlate								48 J				
chrysene												
di-n-octyl phthlate												
benzo(b&k)fluoranthene												
benzo(a)pyrene												
indeno(1,2,3-cd)pyrene												
dibenzo(a,h)anthracene												
benzo(g,h,i)perylene												
alpha-BHC												
beta-BHC												
delta-BHC												
gamma-BHC(lindane)												
heptachlor												
aldrin												
heptachlor epoxide												
endosulfan I												
dieldrin												
4,4'-DDE												
endrin												
endosulfan II												
4,4'-DDD												
endrin aldehyde												
endosulfan sulfate												
4,4'-DDT												
methoxychlor												
endrin ketone												
chlorodane												
toxaphene												
Aroclor-1016												
Aroclor-1221												
Aroclor-1232												
Aroclor-1242												
Aroclor-1248												
Aroclor-1254												
Aroclor-1260												
ELEMENT												
aluminum		257		[176]		[159]		8260		11900		13600
antimony												60
arsenic								27		123		134
barium		[74]		[70]		[67]		[92]		[110]		221
beryllium								5		5.9		5.2
cadmium								4.2		6.4		7.7
calcium		87900		85900		83400		10400		25100		7360
chromium								21		34		78
cobalt								[12]		[23]		[23]
copper		[10]		[7.7]		[14]		47		78		88
iron		631		402		377		38700		59900		77100
lead		6.5		[3.7]		[4.3]		9		24		89
magnesium		31200		30400		29400		[671]		[1790]		[1710]
manganese		69		57		53		146		213		252
mercury										[0.088]		[0.17]
nickel								31		75		58
potassium		[4560]		[4420]		[4290]				[2420]		[3780]
selenium												[3.1]
silver								[3.4]		[4.5]		[6.5]
sodium		46700		46000		43700		[418]		[1130]		[1280]
thallium										[2.8]		[1.7]
tin												
vanadium								66		135		108
zinc		21		[15]		[17]		163		167		245
cyanide CHECK IF ANALYZED ( )												
TENTATIVELY IDENTIFIED ORGANICS												

STATE INDIANA SITE McKINLEY THOMPSON TDD R05-8410-02A PAGE 2 OF 2, SET # 1

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

Date Received for Review: 2-11-86 Date Review Completed: 2-19-86

To: Pat Petrella

From: Cynthia Pugh

Subject: Mc Kinley Thompson Landfill (Indiana)
(ROS- 8410-2A)

Sample Description: Case # 5136: Low Soil and Low Water Organics and Low Water Metals

Project Data Status: COMPLETE

FIT Data Review Findings: Data Acceptable with qualifications noted below and on attached review sheets.

Organics: All Pesticide Data is Estimated. Use 2-Butanone and
(Low Water) methylene chloride data with caution - See comment #4 & #5
(Low Soil) on attached review sheet.

Metals: Field Blank MEG489 contains Cu [7.6 ug/l]; Iron [29 ug/l];
(Low Water) Na [605 ug/l]; and Zn [4.9 ug/l].

[ ] = result is ≥ instrument detection limit but < contract required detection limit

Sample values w/in an order of magnitude of the value for a metal found in a blank are unusable.

Additional Comments:

Copies of data for Low Soil Metals MEG483-485 are included. These were already received - this is just an extra copy.

Book No. 5
Page No. 60

HG

More QA info. available in ~~Form~~ Original file

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 11-25-85

SUBJ: Review of Region V CLP Data
Received for Review on 11/25/85

TO: Curtis Ross, Director (5SCRL)
Central Regional Laboratory Jay Thakkar RECEIVED FEB 11 1986

FROM: Data User: Jt

We have reviewed the data for the following case(s).

SITE NAME: McKinley-Thompson L.F. SMO Case No. 5136

EPA Data Set No. SF 2780 No. of Samples: 7 D.U./Activity Numbers 4905 C48500

CRL No. 86F502324 - 86F502329

SMO Traffic No. MEG483 - MEG489

CLP Laboratory: RMAL Hrs. Required for Review: 3 hrs

Following are our findings.

This review covers three low soil samples and four low H_2O for total metals. Duplicate RPD for soil on Fe (29%) and Zn (58%) exceed 20% limits while sample values are > 5XS CRDL. Interferance was found in Zn on the soil serial dilution. Spike recovery for water samples is biased low for Al (71%), Ba (68%), Fe (69%), Se (60%), Tl (48%) and Sb (73%). Fe was not flagged on Form I's, only on Form I. Duplicate values on Form VI for H_2O did not show Pb to be 6.8 µg/l and calculate the RPD. Thallium duplicate showed 2U, not the raw data value of 10U. Both analyte duplicates were corrected.

11-25-85
DMM

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Don Trees, CLP/Sample Management Office

EPA DRM 1320-4 (REV 3-78)

REGION V, U.S. ENVIRONMENTAL PROTECTION AGENCY
ESD/Central Regional Laboratory

DATA TRACKING - FORM I

CRL Data Set No. SF 2780 ERRIS No. _____

SI Case No. 5136 Site Name: McKinley-Thompson Landfill

Name of Laboratory: RMAL Data User: Fit

No. of Samples: 7 Date Samples Received: 11/25/85

1. Have chain-of-custody records been received? YES ✓ NO ___
2. Have Traffic reports been received? YES ✓ NO ___ RECEIVED FEB 11 1986
3. If no, are Traffic report numbers written on the chain-of-custody record? YES ✓ NO ___
4. If no, which Traffic report numbers are missing?

5. Are basic data forms in? YES ✓ NO ___
6. Number of samples claimed: 7 Number of samples received: 7
7. Checked by: Nidia Feliciano Date: 11/25/85
8. Received by Contract Project Management Section: JJC Date: 11-25-85
9. Review Started: 11-25-85 Reviewer Signature: Dorothy M. May
10. Total time spent on review: 3 hrs Date review completed: 11-25-85
11. Copied (xeroxed) by: _____ Date: _____
12. Mailed to Data User by: Nidia Feliciano Date: 11/26/85

DATA USERS:

Please fill in the blanks and return this form to:

Charles Elly, DPO, Region V, SSCRL

13. Data received by: Cynthia Pugh Date: 2-18-86
14. Q.A. review received by: Cynthia Pugh Date: 2-18-86
15. Received by CRL - CPM Section for file by: _____

Date: _____

Inorganic + Organic
Complete

REGION V, U.S. ENVIRONMENTAL PROTECTION AGENCY
ESD/Central Regional Laboratory

DATA TRACKING - FORM I

CRL Data Set No. SF 2780 ERRIS No. _____

SMO Case No. 5136 Site Name: McKinley Thompson L.F.

Name of Laboratory: ERG Data User: Fit

No. of Samples: 7 Date Samples Received: 12/18/85

1. Have chain-of-custody records been received? YES ✓ NO ___
2. Have Traffic reports been received? YES ✓ NO ___
3. If no, are Traffic report numbers written on the chain-of-custody record? YES ✓ NO ___
4. If no, which Traffic report numbers are missing?

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5. Are basic data forms in? YES ✓ NO ___
6. Number of samples claimed: 7 Number of samples received: 7
7. Checked by: Nidia Feliciano Date: 12/19/85
8. Received by Contract Project Management Section: Patrick J. Chunelle Date: 12/23/85
9. Review Started: 1-24-86 Reviewer Signature: Patrick J. Chunelle
10. Total time spent on review: 12 HRS Date review completed: 1-27-86
11. Copied (xeroxed) by: _____ Date: _____
12. Mailed to Data User by: Nidia Feliciano Date: 2/11/86

TO DATA USERS:

Please fill in the blanks and return this form to:

Charles Elly, DPO, Region V, SSCRL

13. Data received by: Cynthia Pugh Date: 2-18-86
14. Q.A. review received by: Cynthia Pugh Date: 2-18-86
15. Received by CRL - CPM Section for file by: _____

IN0 + OR6 Complete Date: _____

SF2780

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

RECEIVED FEB 11 1986

Date 11-21-85

COVER PAGE
INORGANIC ANALYSIS DATA PACKAGE

Lab Name ROCKY MOUNTAIN ANALYTICAL
SOW No. 784

Case No. 5136
QC Report No. 55430

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MEG483D			
MEG483			
MEG483+			
MEG484			
MEG485			
[MEG999]			

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NOV 25 1985
US EPA CONTRACT LAB PROG.
SAMPLE MGMT. OFF.
CHICAGO ILLINOIS 60605

Comments: 3 LOW SOILS TASK 1 2 ONLY
SERIAL DILUTION OF SAMPLE MEG485 IS IDENTIFIED AS [MEG999]
~~Sest~~ Interference noted on serial dilution for Zn.

ICP Interelement and background corrections applied? Yes X No ___.
If yes, corrections applied before X or after ___ generation of raw data.

Footnotes:

NR - not required by contract at this time
Form I:
Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the method used with P (for ICP/Flame AA) or F (for furnace).
U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).
E - Indicates a value estimated or not reported due to the presence of Interference. Explanatory note included on cover page.
S - Indicates value determined by Method of Standard Addition.
R - Indicates spike sample recovery is not within control limits.
X - Indicates duplicate analysis is not within control limits.
+ - Indicates the correlation coefficient for method of standard addition is Less than 0.995
CV - Indicates Cold Vapor
AS - Indicates Automated Spectrophotometric

Narrative

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RMA QC # 55430

Case # 5136

Comments: → Pb, As data used by both ICAP and Furnace, Forms II, III and VII reflect 2 sets of QC.

→ Duplicate RPD > 20% noted for Fe, Zn. Results reported flagged w/ "*".

→ RPD's > 20% for Be, ~~Fe~~ Cr, V not flagged. Results are < 5X CRDL. Sample and Duplicate are within ± CRDL for these element.

→ Interference noted on ICAP serial dilution for Zn. Data reported flagged with an "S".

Lab Manager JM

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

86F502324
EPA Sample No.
MEG483

Date 11-21-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 5136
QC REPORT NO. 55430

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Sludge ____ Other ____

mg/kg dry weight

1.	ALUMINUM	8260	P	13.	MAGNESIUM	[671]	P
2.	ANTIMONY	15U	P	14.	MANGANESE	146	P
3.	ARSENIC	27	F	15.	MERCURY	0.06U	CV
4.	BARIUM	[92]	P	16.	NICKEL	31	P
5.	BERYLLIUM	5	P	17.	POTASSIUM	1310U	P
6.	CADMIUM	4.2	P	18.	SELENIUM	1.2U	F
7.	CALCIUM	10400	P	19.	SILVER	[3.4]	P
8.	CHROMIUM	21	P	20.	SODIUM	[418]	P
9.	COBALT	[12]	P	21.	THALLIUM	1.2U	F
10.	COPPER	47	P	22.	TIN	9.6U	P
11.	IRON	38700	P X J	23.	VANADIUM	66	P
12.	LEAD	9	F	24.	ZINC	163	P X S J

Cyanide NR

Percent Solids (%) 83

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 36F502325 MEG484

Date 11-21-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 5136
QC REPORT NO. 55430

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Sludge ____ Other ____

mg/kg dry weight

1.	ALUMINUM	11900	P	13.	MAGNESIUM	[1290]	P
2.	ANTIMONY	18U	P	14.	MANGANESE	213	P
3.	ARSENIC	123	P	15.	MERCURY	[0.088]	CV
4.	BARIUM	[110]	P	16.	NICKEL	75	P
5.	BERYLLIUM	5.9	P	17.	POTASSIUM	[2420]	P
6.	CADMIUM	6.4	P	18.	SELENIUM	1.5U	P
7.	CALCIUM	25100	P	19.	SILVER	[4.5]	P
8.	CHROMIUM	34	P	20.	SODIUM	[1130]	P
9.	COBALT	[28]	P	21.	THALLIUM	[2.8]	P
10.	COPPER	78	P	22.	TIN	12U	P
11.	IRON	59700	P x J	23.	VANADIUM	135	P
12.	LEAD	24	P	24.	ZINC	167	P x S J

Cyanide NR

Percent Solids (%) 68

Footnotes: For reporting results to EPA. standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager JM

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

86F502526
EPA Sample No.
MEG485

Date 11-21-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 5136
QC REPORT NO. 55430

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Sludge ____ Other ____

mg/kg dry weight

1.	ALUMINUM	13600	P	13.	MAGNESIUM	[1710]	P
2.	ANTIMONY	60	P	14.	MANGANESE	252	P
3.	ARSENIC	134	P	15.	MERCURY	[0.17]	CV
4.	BARIUM	221	P	16.	NICKEL	58	P
5.	BERYLLIUM	5.2	P	17.	POTASSIUM	[3780]	P
6.	CADMIUM	7.7	P	18.	SELENIUM	[3.1]	F
7.	CALCIUM	7360	P	19.	SILVER	[6.5]	P
8.	CHROMIUM	78	P	20.	SODIUM	[1380]	P
9.	COBALT	[23]	P	21.	THALLIUM	[1.7]	F
10.	COPPER	88	P	22.	TIN	14U	P
11.	IRON	77100	P X J	23.	VANADIUM	108	P
12.	LEAD	89	P	24.	ZINC	245	P X SJ

Cyanide NR Percent Solids (%) 59

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager JW

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

86F502327
EPA Sample No.
MEG486

Date 11-21-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 5136
QC REPORT NO. 55429

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water X Soil ____ Sludge ____ Other ____

UG/L

1.	ALUMINUM	257	P	R J	13.	MAGNESIUM	31200	P	
2.	ANTIMONY	25U	P		14.	MANGANESE	69	P	
3.	ARSENIC	2U	F		15.	MERCURY	0.1U	CV	
4.	BARIUM	[74]	P	R J	16.	NICKEL	7U	P	
5.	BERYLLIUM	0.4U	P		17.	POTASSIUM	[4560]	P	
6.	CADMIUM	4U	P		18.	SELENIUM	5U	F	R J
7.	CALCIUM	87900	P		19.	SILVER	3U	P	
8.	CHROMIUM	[5.3]	P		20.	SODIUM	46700	P	
9.	COBALT	5U	P		21.	THALLIUM	10U	F	R J
10.	COPPER	[10]	P		22.	TIN	16U	P	R J
11.	IRON	631	P	R J	23.	VANADIUM	4U	P	
12.	LEAD	6.5	F		24.	ZINC	21	P	

Cyanide NR Percent Solids (%) ____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager JW

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Form I

86F502528

U.S. EPA Contract Laboratory Program
Sample Management Office
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703/557-2490 FTS: 8-557-2490

EPA Sample No.
MEG487

Date 11-21-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 5136
QC REPORT NO. 55429

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water X Soil ____ Sludge ____ Other ____

UG/L

1.	ALUMINUM	[176]	P	R J	13.	MAGNESIUM	30400	P	
2.	ANTIMONY	25U	P		14.	MANGANESE	57	P	
3.	ARSENIC	2U	F		15.	MERCURY	0.1U	CV	
4.	BARIUM	[70]	P	R J	16.	NICKEL	7U	P	
5.	BERYLLIUM	0.4U	P		17.	POTASSIUM	[4420]	P	
6.	CADMIUM	4U	P		18.	SELENIUM	5U	F	R J
7.	CALCIUM	85900	P		19.	SILVER	3U	P	
8.	CHROMIUM	4U	P		20.	SODIUM	46000	P	
9.	COBALT	5U	P		21.	THALLIUM	10U	F	R J
10.	COPPER	[7.7]	P		22.	TIN	16U	P	R J
11.	IRON	402	P	R J	23.	VANADIUM	4U	P	
12.	LEAD	[3.7]	F		24.	ZINC	[15]	P	

Cyanide NR Percent Solids (%) ____

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Comments: ____

Lab Manager JM

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
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703/557-2490 FTS: 8-557-2490

86FS02529
EPA Sample No.
MEG488

Date 11-21-85

No Hits

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 5136
QC REPORT NO. 55429

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water X Soil ____ Sludge ____ Other ____

UG/L

1.	ALUMINUM	[159]	P	R J	13.	MAGNESIUM	29400	P
2.	ANTIMONY	25U	P		14.	MANGANESE	53	P
3.	ARSENIC	2U	F		15.	MERCURY	0.1U	CV
4.	BARIUM	[67]	P	R J	16.	NICKEL	7U	P
5.	BERYLLIUM	0.4U	P		17.	POTASSIUM	[4290]	P
6.	CADMIUM	4U	P		18.	SELENIUM	5U	F R J
7.	CALCIUM	83400	P		19.	SILVER	3U	P
8.	CHROMIUM	4U	P		20.	SODIUM	43700	P
9.	COBALT	5U	P		21.	THALLIUM	10U	F R J
10.	COPPER	[14]	P		22.	TIN	16U	P R J
11.	IRON	377	P	R J	23.	VANADIUM	4U	P
12.	LEAD	[4.3]	F		24.	ZINC	[17]	P

Cyanide NR Percent Solids (%) ____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager JW

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Form I

U.S. EPA Contract Laboratory Program
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86F502R03
EPA Sample No.
MEG489

Date 11-21-85

INORGANIC ANALYSIS DATA SHEET

No Hits

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 5136
QC REPORT NO. 55429

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water X Soil ____ Sludge ____ Other ____

UG/L

1.	ALUMINUM	25U	P R J	13.	MAGNESIUM	312U	P
2.	ANTIMONY	25U	P	14.	MANGANESE	5U	P
3.	ARSENIC	2U	F	15.	MERCURY	0.1U	CV
4.	BARIUM	13U	P R J	16.	NICKEL	7U	P
5.	BERYLLIUM	0.4U	P	17.	POTASSIUM	2170U	P
6.	CADMIUM	4U	P	18.	SELENIUM	2U	F R J
7.	CALCIUM	207U	P	19.	SILVER	3U	P
8.	CHROMIUM	4U	P	20.	SODIUM	[605]	P
9.	COBALT	5U	P	21.	THALLIUM	2U	F R J
10.	COPPER	[7.6]	P	22.	TIN	16U	P R J
11.	IRON	[29]	P R J	23.	VANADIUM	4U	P
12.	LEAD	2U	F	24.	ZINC	[4.9]	P

Cyanide NR Percent Solids (%) ____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: BLANK

Lab Manager JW

3F0780

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Date 11-21-85

COVER PAGE
INORGANIC ANALYSIS DATA PACKAGE

Lab Name ROCKY MOUNTAIN ANALYTICAL
SOW No. 784

Case No. 5136
QC Report No. 55429

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MEG486			
MEG486D			
MEG487			
MEG487+			
MEG488			
MEG489			
[MEG999]			

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NOV 25 1985
U.S. EPA CONTRACT LAB.
CHICAGO

Comments: 4 LOW WATERS TASK 1 2 ONLY
SERIAL DILUTION OF SAMPLE MEG488 IS IDENTIFIED AS [MEG999]

ICP Interelement and background corrections applied? Yes X No ___
If yes, corrections applied before X or after ___ generation of raw data.

Footnotes:

NR - not required by contract at this time
Form I:
Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the method used with P (for ICP/Flame AA) or F (for furnace).
U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).
E - Indicates a value estimated or not reported due to the presence of Interference. Explanatory note included on cover page.
S - Indicates value determined by Method of Standard Addition.
R - Indicates spike sample recovery is not within control limits.
X - Indicates duplicate analysis is not within control limits.
+ - Indicates the correlation coefficient for method of standard addition is Less than 0.995
CV - Indicates Cold Vapor
AS - Indicates Automated Spectrophotometric

Narrative

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RMA QC # 55429

Case # 5136

Comments: Matrix spike recovery < 75% for Sb, Ba, Fe, Se, Tl, Sn. Results flagged w/ "R".

Lab Manager