US EPA RECORDS CENTER REGION 5
498900

7.2
5/20/86

INSPECTION REPORT
FOR
U.S. SCRAP
Ottawa, Illinois

ILD980902209

R05-8303-01E

May 20, 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: May 20, 1986
TO: File
FROM: David Curnock DC
SUBJECT: Illinois/R05-8303-01E/IL0231
Ottawa/U.S. Scrap
ILD 980902209

The U.S. Scrap site near Ottawa, Illinois, was a drum storage area. The site was originally mined for clay to be used in brick-making. The entire property covers approximately 39 acres consisting of spoil banks and final cut lakes. The area used for drum storage occupied only about one acre. (Drawing 1)

The U.S. Scrap site was originally identified by the Illinois Environmental Protection Agency through a Preliminary Assessment submitted to the United States Environmental Proteciton Agency.

The site was to be developed as a waste disposal facility by J. B. Industrial around 1972. J. B. Industrial leased the property from Brown Oil Company. According to IEPA file information up to 20,000 drums were on the site in 1973. The permit submitted by J. B. Industrial was denied by the IEPA. It was during the course of permit negotiations that the barrels were stockpiled onsite. The barrels were stored on the ground but were basically confined to the one acre area.

recycled paper

When no permit was issued, the IEPA ordered the barrels removed from the site. In 1973, U.S. Scrap contracted for the deed to the property with Brown Oil Company if U.S. Scrap would remove the drums. By 1975 only a portion of the drums had been removed and U.S. Scrap defaulted on the contract for deed agreement. That same year, Brown Oil Company made arrangements with Illinois Valley Disposal Company to deposit the remaining drums in a special seciton of their landfill under IEPA guidance.

Presently there are no drums at the site which is currently owned by Brown Oil Company.

On November 5, 1985, FIT members performed an onsite inspection of the U.S. Scrap site. Access to the site had to be procured through the USEPA legal staff. Thomas Hill represented Brown Oil Company, the site owner. During the Inspection five soil samples were collected from the area used for drum storage. A sixth soil sample was collected from offsite to be used as a background for comparative purposes.

Samples analysis revealed positive results for several organic compounds. The following table summarizes the significant results.

Sample	1S	2S	3S	4S	5S	6S(BKG)
OTR#	EE338	EE339	EE340	EE482	EE483	EE484
Compound	ug/kg					
ethyl benzene	15	-	-	-	-	-
total xylenes	31	-	-	-	-	-
chloroform	-	~~339~~ 318	-	-	-	-
toluene	-	-	-	12	-	-
1,1,1trichloroethane	-	-	-	-	15	-
trichloroethene	-	-	-	-	64	-
tetrachloroethene	-	-	-	-	160	-
Araclor 1242	-	-	-	-	4600	-
Araclor 1260	-	-	-	-	2100	-

IEPA files indicated that mainly pharmacuetical wastes and paint wastes, some liquid and some solid, were contained in the drums. IEPA had also recorded some drum labels indicating the presence of trichloebenzene, formaldehyde, acetone, trichloroethelene, methanol and heptane. IEPA analysis indicated toluene, tar, and methanol with chloroform and/or benzene. Numerous IEPA site inspections indicate open dumping and/or leaking of drums at the site.

The final cut lakes adjacent to the drum storage area are approximately forty feet deep. The overflow from the ponds can reach the Fox River via O'neil Creek. During the mining process there were several small seams of coal encountered. These seams were not removed and coal fragments are easily visble in the spoils.

The top of the bedrock is approximately fifty feet from the surface. The St. Peter's Sandstone which overlies the Ironton-Galesville sandstone is sometimes used for drinking water. The Ironton-Galesville is the major drinking water supplying aquifer for the area. A report on the area prepared by the Illinois State Geological survey indicates that the St. Peter and Ironton-Galesville sandstones are hydologically connected.

The site is not fenced or protected from public access.

2

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D046683

AGENCY USE ONLY

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

Page 1 of 1

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 36 M / D / Y 41 0990800009 FEDERAL ID NUMBER

SITE INVENTORY NUMBER 9 ~~0 9 9 0 8 0 0 9~~ 18

REGION R CO. La Salle

Ottawa / U. S. Scrap

LOCATION RESPONSIBLE PARTY

MONITOR POINT NUMBER 19 5 5 0 1 22 (see Instructions)

DATE COLLECTED 23 M 0 4 / D 0 7 / Y 8 6 28

IEPA LAB (see Instructions) Y 29

FOR IEPA USE ONLY

COMPLAINT NO. C 8 6 5 0 R

DATE RECEIVED 42 M 0 8 / D 1 2 / Y 8 6 47

SAMPLING PURPOSE CODE 4 48 (see Instructions)

TIME CARD PROGRAM CODE 49 L P 4 2 52 & UNIT CODE 53 N

BACKGROUND SAMPLE (X) 54

TIME COLLECTED (24 HR CLOCK) 55 H 1 3 : 4 0 M 58

UNABLE TO COLLECT SAMPLE (see Instructions) 59

MONITOR POINT SAMPLED BY (see Instructions) 60 O OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) 61 ORGANICS (X) 62

SAMPLE APPEARANCE 63 C L E A R 102

COLLECTOR COMMENTS 103 142

SPECIAL INSTRUCTIONS TO LAB PRIVATE WELL PROJECT ☐ Pesticides & Extractable Organics

USE SW-846 PROCEDURES: YES X NO

COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY
Robert Wengren	R A W (143–145)	DLPC	UPS	UPS

LAB USE ONLY

LAB SAMPLE NO. D046683 SB LAB NAME Springfield LAB ID NO. 146 0 0 0 D 149

DATE RECEIVED APR 10 1986 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED FORWARD 5-11-86

LAB COMMENTS 150 199

J. Hurley

SUPERVISOR SIGNATURE

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (Columns 9-29 from above)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE		STORET NUMBER	REMARKS SEE INST	REPLICATE	< OR >	VALUE	REPORTING LEVEL DIGITS TO L OR R	L OR R OF DECIMAL
DEPTH TO WATER (ft. below LS)	507F	72019 (30–34)	35	36	37	38 . 47	48	49
ELEVATION OF GW SURFACE (ft. ref MSL)	508F	71993				.		
TOTAL WELL DEPTH (ft. below LS)	509F	72008				.		
ALKALINITY TOTAL (mg/l as CaCO3) - Field	505F	00431				.		
REDOX POTENTIAL (millivolt) - Field	506F	00090				.		
pH (units) - Field	500F	00400				.		
SPEC CONDUCTANCE (umhos) - Field	503F	00094				.		
TEMP OF WATER SAMPLE (C) - Field	502F	00010				.		
						.		
						.		

RECEIVED AUG 12 1986 IEPA-DLPC

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

IL 532-1218
LPC 160 3/84

D046683

002-002

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D646683
SAMPLING POINT DESC. : LASALLE/OTTAWA/US SCRAP/S501

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 860407 TIME COLLECTED : 1340 SAMPLING PROGRAM :

COLLECTED BY : LLL DELIVERED BY : MESS
COMMENTS : PESTICIDES, EXTRACTABLE ORGANICS
FUNDING CODE : LP42 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 0

DATE RECEIVED : 860410 TIME RECEIVED : 1000 RECEIVED BY : S B
LAB OBSERVATIONS : 1 QUART WATER REPORTING INDICATOR :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39516	PCB'S	UG/L :	0.2K
P39782	LINDANE	UG/L :	.01K
P39410	HEPTACHLOR	UG/L :	.01K
P39330	ALDRIN	UG/L :	.01K
P39420	HEPTACHLOR EPOXIDE	UG/L :	.01K
P39350	CHLORDANE	UG/L :	.01K
P39380	DIELDRIN	UG/L :	.01K
P39390	ENDRIN	UG/L :	.01K
P39480	METHOXYCHLOR	UG/L :	.05K
P39327	O,P'-DDE	UG/L :	.01K
P39320	P,P'-DDE	UG/L :	.01K
P39315	O,P'-DDD	UG/L :	.01K
P39310	P,P'-DDD	UG/L :	.01K
P39305	O,P'-DDT	UG/L :	.01K
P39300	P,P'-DDT	UG/L :	.01K
P39400	TOXAPHENE	UG/L :	1.0K
P34273	BIS(2-CHLOROETHYL)ETHER	UG/L :	5.0K
P34566	1,3-DICHLOROBENZENE	UG/L :	5.0K
P34571	1,4-DICHLOROBENZENE	UG/L :	5.0K
P34536	1,2-DICHLOROBENZENE	UG/L :	5.0K
P34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/L :	5.0K
P34396	HEXACHLOROETHANE	UG/L :	5.0K
P34428	N-NITROSO-DI-N-PROPYLAMINE	UG/L :	5.0K
P34447	NITROBENZENE	UG/L :	5.0K
P34408	ISOPHORONE	UG/L :	5.0K
P34278	BIS(2-CHLOROETHOXY)METHANE	UG/L :	5.0K
P34551	1,2,4-TRICHLOROBENZENE	UG/L :	5.0K
P34696	NAPHTHALENE	UG/L :	5.0K
P34391	HEXACHLOROBUTADIENE	UG/L :	5.0K
P34386	HEXACHLOROCYCLOPENTADIENE	UG/L :	5.0K
P34581	2-CHLORONAPHTHALENE	UG/L :	5.0K
P34200	ACENAPHTHYLENE	UG/L :	5.0K
P34341	DIMETHYL PHTHALATE	UG/L :	5.0K
P34626	2,6-DINITROTOLUENE	UG/L :	5.0K

RECEIVED
AUG 12 1986

SAMPLE NUMBER : D646683

P34205	ACENAPHTHENE	UG/L	: 5.0K
P34611	2,4-DINITROTOLUENE	UG/L	: 5.0K
P34381	FLUORENE	UG/L	: 5.0K
P34336	DIETHYL PHTHALATE	UG/L	: 5.0K
P34641	4-CHLOROPHENYL PHENYL ETHER	UG/L	: 5.0K
P34636	4-BROMOPHENYL PHENYL ETHER	UG/L	: 5.0K
P39700	HEXACHLOROBENZENE	UG/L	: 5.0K
P34461	PHENANTHRENE	UG/L	: 5.0K
P34220	ANTHRACENE	UG/L	: 5.0K
P39110	DI-N-BUTYLPHTHALATE	UG/L	: 5.0K
P34376	FLUORANTHENE	UG/L	: 5.0K
P34469	PYRENE	UG/L	: 5.0K
P34292	BUTYL BENZYL PHTHALATE	UG/L	: 5.0K
P34320	CHRYSENE	UG/L	: 5.0K
P34526	BENZO(A)ANTHRACENE	UG/L	: 5.0K
P34631	3,3'-DICHLOROBENZIDINE	UG/L	: 5.0K
P39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	: 5.0K
P34596	DI-N-OCTYLPHTHALATE	UG/L	: 5.0K
P34230	BENZO(B)FLUORANTHENE	UG/L	: 5.0K
P34242	BENZO(K)FLUORANTHENE	UG/L	: 5.0K
P34247	BENZO(A)PYRENE	UG/L	: 5.0K
P34403	INDENO(1,2,3-C,D)PYRENE	UG/L	: 5.0K
P34556	DIBENZO(A,H)ANTHRACENE	UG/L	: 5.0K
P34521	BENZO(GHI)PERYLENE	UG/L	: 5.0K
P34694	PHENOL	UG/L	: 5.0K
P34586	2-CHLOROPHENOL	UG/L	: 5.0K
P34591	2-NITROPHENOL	UG/L	: 5.0K
P34606	2,4-DIMETHYLPHENOL	UG/L	: 5.0K
P34601	2,4-DICHLOROPHENOL	UG/L	: 5.0K
P34616	2,4-DINITROPHENOL	UG/L	: 5.0K
P34657	2-METHYL-4,6-DINITROPHENOL	UG/L	: 5.0K
P34646	4-NITROPHENOL	UG/L	: 5.0K
P34452	4-CHLORO-3-METHYLPHENOL	UG/L	: 5.0K
P34621	2,4,6-TRICHLOROPHENOL	UG/L	: 5.0K
P39032	PENTACHLOROPHENOL	UG/L	: 5.0K

RECEIVED
AUG 12 1986
EPA-DLPC

312/896/5001
33 South Stolp Avenue
Aurora, Illinois 60504

April 15, 1976

IN REPLY REFER TO: 09908009
LA SALLE COUNTY - Land Pollution Control
Ottawa/U.S. Scrap (J & B Ind.)

Brown Oil Company
P.O. Box 66
Ottawa, Illinois 61350

Gentlemen:

A reinspection of your property located on the east side of Ottawa, off U.S. Route 6 and Illinois Route 71 was made by William Child and Paul Steadman, representing this Agency on March 31, 1976.

The inspection disclosed that the barrels of hazardous and toxic substances have been removed and have received proper disposition.

Your cooperation in this matter is certainly appreciated. If this Agency can be of further assistance, please feel free to contact us.

Sincerely,

William C. Child, Regional Supervisor
Land Field Operations Section
Division of Land/Noise Pollution Control

PRS:ch
cc Northern Region

R05-8303-01E IL0231

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980902209

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
U.S. Scrap	Rt. 71 and Rt. 6

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Ottawa	IL	61350	LaSalle	099	15

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
41 21 44._	_88 47 11._	☒ 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
11, 5, 85 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	1973 (BEGINNING YEAR) / 1976 (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
DAVID CURNOCK	Biologist/Agronomist	Ecology & Environment	(312) 663-9415

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
RONALD BOCK	Chemical Engineer	"	(312) 663-9415
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Thomas Hill		P.O. Box 761; Ottawa IL 61350	(815) 434-0000
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☐ PERMISSION ☐ WARRANT	9:00 AM	Cool, 45°F, Partly Cloudy, winds 5-10 mph

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Rick Peterson	Illinois EPA DLPC MAWMD	(312) 345 9780

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
David Curnock	—	Ecology & Environment	(312) 663-9415	5, 20, 86 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980902209

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 presently,

NO. OF DRUMS None on site*

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 See narrative below*

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

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
*					

Allegedly at one time in 1973 there were up to 20,000 drums stored onsite. The drums were to have contained mainly solid and liquid paint wastes and pharmaceutical wastes. Drum labeling indicated contents of trichlorobenzene, formaldehyde, acetone, trichloroethelene, methanol and heptane. IEPA analysis indicated presence of toluene, tar, methanol with chloroform and/or benzene. E&E/FIT samples of soil indicated that contents of some of the drums had leaked onto the soil surface. Sample analysis showed toluene, xylenes, chloroform, 1,1,1 trichloroethane, trichloroethene, tetrachloroethene and ethyl benzene. No drums are currently on site.

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)

Site Inspection 11/5/85
E&E/FIT Files; IEPA 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	02 SITE NUMBER
IL	ILD980902209

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 13962 — 04 NARRATIVE DESCRIPTION
Since samples of soils showed detectable levels of various organics (toluene, xylene, ethylbenzene Trichloroethene, chloroform, etc) the potential exists for groundwater contamination. The saturated zone is ≈ 5 feet below the ground surface in this area. The St. Peter's Sandstone is ≈ 50 deep and is hydrologically connected to the Ironton-Galesville Sandstone which is the major aquifer in the area.

01 ☒ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION
Soil samples showed organic contaminants. The area is adjacent to surface water ponds. These ponds sometimes overflow into a creek that leads to the Fox River. Runoff from these contaminated soils could reach surface water.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — — 04 NARRATIVE DESCRIPTION
NONE REPORTED OR OBSERVED

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — — 04 NARRATIVE DESCRIPTION
NONE CURRENTLY EXIST AT THE SITE

01 ☒ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 148 — 04 NARRATIVE DESCRIPTION
The area is not Fenced. Access is only restricted by "Keep out" warnings. Contaminated surface soils provide an avenue for direct contact.

01 ☒ F. CONTAMINATION OF SOIL — 02 ☒ OBSERVED (DATE: 11-5-86) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 1 acre (Acres) — 04 NARRATIVE DESCRIPTION
Surface soil samples show contamination with toluene, xylenes, chloroform, 1,1,1 trichloroethane, trichloroethene, tetrachloroethene, and ethylbenzene. Also Aroclor 1248 and 1260

01 ☒ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 13962 — 04 NARRATIVE DESCRIPTION
Contaminated soil verifies the presence of hazardous materials. These materials could migrate to drinking water sources through the soil to the St. Peter and Ironton-Galesville Sandstones

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: — — 04 NARRATIVE DESCRIPTION
UNKNOWN — NO WORKERS AT SITE PRESENTLY

01 ☒ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 148 — 04 NARRATIVE DESCRIPTION
Surface soils show contamination with organic compounds. Site is not Fenced and easily accessible from public roads.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980902209

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None observed during inspection, However, some areas of stressed or of no vegetation could be result of surface soil contamination or from acid nature of spoils.

01 ☒ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)
None reported or observed. (See J)

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None Reported or observed (See J)

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☒ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 13962 — 04 NARRATIVE DESCRIPTION
Drums of waste were removed. During Removal process IEPA indicated some damaged and/or leaking drums.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION contaminated soils could produce contaminated runoff into lakes that lead to offsite property by way of O'Neil Creek.

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

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: 1973 IEPA) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION Barrels were deposited onsite without permit. IEPA inspection reports indicate leaking and emptying of barrels onsite.

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: 13962

IV. COMMENTS
The site was a drum storage area in an old clay mine. Up to 20,000 drums were onsite at one time in 1973. Many drums leaked or were dumped out. All drums have been removed but soil contamination remains.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
Site Inspection 11/5/85
E&E/FIT Files; IEPA Files

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980902209

II. PERMIT INFORMATION NONE ISSUED

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	APPLIED FOR STATE PERMIT, BUT DENIED			

III. SITE DESCRIPTION

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

04 TREATMENT (Check all that apply)
- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)
- ☒ NONE

05 OTHER
- ☐ A. BUILDINGS ON SITE
- NONE

06 AREA OF SITE
39 total (Acres)
1 acre, drum storage

07 COMMENTS Facility was to be used as a disposal pit. No permit was obtained. The waste material was stockpiled in drums at the site. When permits were denied, materials were ordered removed.

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.

of the alleged 20,000 drums that were onsite at some time, some were rotten and leaking according to IEPA file notes. Also, soil sample from the area show amounts of chloroform, toluene, trichloroethane, ethylbenzene, xylenes.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS All Drums have been removed from the site. However, some waste materials were detected in soil samples.

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

Site Inspection 11/5/85

E&E/FIT Files; IEPA Files

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980902209

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS: ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ☐	B. ☒	A. ☐	B. ☐	C. ☐	A. 1.8 (mi)
NON-COMMUNITY	C. ☐	D. ☒	D. ☐	E. ☐	F. ☐	B. 0.3 (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 13962

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.3 E. (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
5.0 (ft)	W	50 + (ft)	500-1,000 GPM	☐ YES ☒ NO

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

most wells utilize the Ironton-Galesville sandstone (deep) but some wells may be in the (shallow) St. Peter's Sandstone. The range of depths is ≈60-120' and 200-300'. The St. Peter's sandstone is hydrologically connected to the Ironton-Galesville Sandstone.

10 RECHARGE AREA: ☒ YES ☐ NO — COMMENTS The Fox and Illinois rivers cut into the St Peter's Sandstone - probable recharge (dependent on water levels)

11 DISCHARGE AREA: ☒ YES ☐ NO — COMMENTS Fox and Illinois Rivers cut into St Peter's Sandstone. Probable Discharge depending on water levels.

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Fox River	☐	0.4 (mi)
Illinois River	☐	1.0 (mi)
O'Neill Creek	☐	0.2 (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. 148 NO OF PERSONS	B. 4073 NO OF PERSONS	C. 13962 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION: 1500 ft ~~(mi)~~

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: 1072

04 DISTANCE TO NEAREST OFF-SITE BUILDING: 1500 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)

Population within 1 mile of the site is sparse and rural. The City of Ottawa is 1 mile east of the site with a population of ≈18,000. To the north, east and south of the site is agricultural or other rural lands

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980902209

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

disturbed soil profile - mined area

02 PERMEABILITY OF BEDROCK (Check one)

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

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
50 (St. Peter) (ft)	Unknown (ft)	potentially acidic Unknown	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
1.0" (in)	2.5" (in)	0-1 %	N	0-1 %

09 FLOOD POTENTIAL

SITE IS IN UNKNOWN YEAR FLOODPLAIN

10 NA

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. NA (mi) OTHER: B. N/A (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

> 3 (mi)

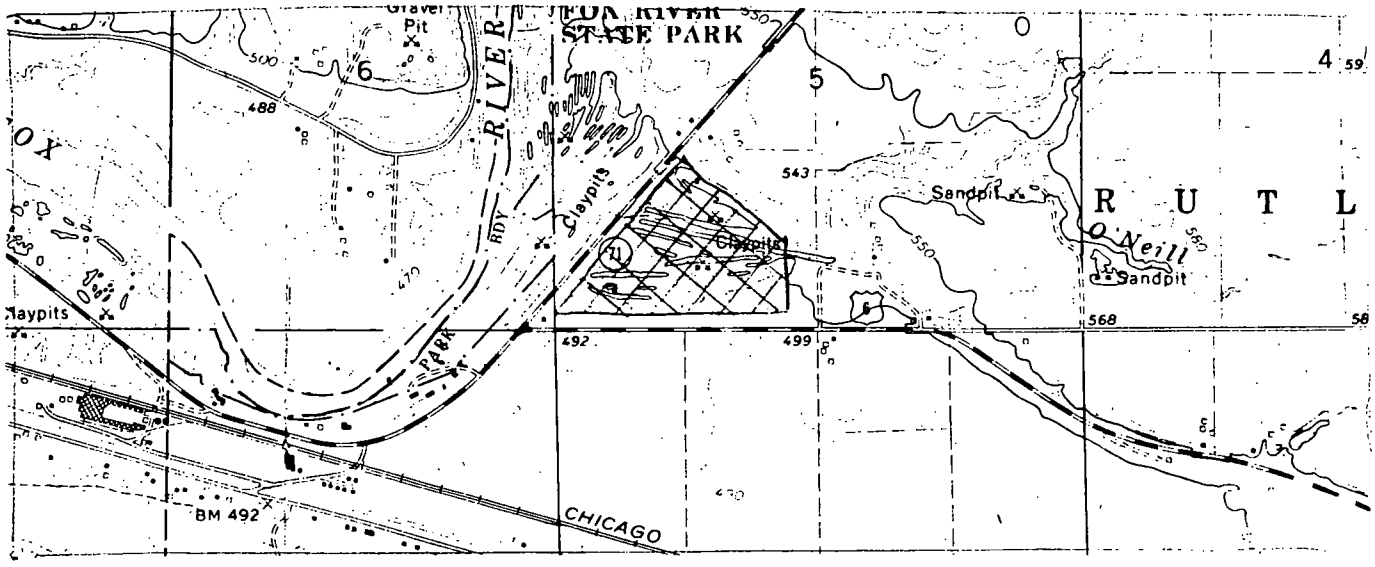
ENDANGERED SPECIES: N/A

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS PRIME AG LAND	AGRICULTURAL LANDS AG LAND
A. 1000' (mi)	B. 1.5 (mi)	C. 100' (mi)	D. – (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



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

Site Inspection 11/5/85
E+E/FIT Files ; IEPA Files
USGS 7.5' QUAD - Ottawa
HRS USER'S MANUAL
ISGS Report/memo 3/6/72 George Hughes to Perry Lewis

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980902209

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	6	ORGANICS - ATL INORGANICS - WEYERHAUSER	AVAILABLE
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN NONE

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☐ AERIAL

02 IN CUSTODY OF ECOLOGY & ENVIRONMENT / FIT
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS ECOLOGY & ENVIRONMENT / FIT

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NONE

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

Site Inspection 11/5/85

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980902204

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
MR. Thomas Hill BROWN OIL CO.			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
P.O. Box 761			

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
Ottawa	IL	61350			

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP 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

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 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

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

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 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

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

Site Inspection 11/5/85
E&E/FIT File; IEPA Files

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980902209

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
NOT OPERATING	

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

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	02 D+B NUMBER
William Hatfield J. and B. Industrial Services	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
2144 W 51st St.	

05 CITY	06 STATE	07 ZIP CODE
Chicago	IL	60609

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
1972-1973	Thomas Hill Brown Oil Co.

01 NAME	02 D+B NUMBER
US Scrap	

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

05 CITY	06 STATE	07 ZIP CODE
Riverdale	IL	60627

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
1973-1975	Thomas Hill Brown Oil Co.

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

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

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)

Site Inspection
E+E/FIT File; IEPA Files

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980902209

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	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Mr. William Hatfield J. and B. Industrial Services			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
2144 W 51st St.			
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
Chicago	IL / 60609		
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)

Site Inspection 11/5/85
E+E/FIT File; IEPA files

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980902209

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☒ G. WASTE DISPOSED ELSEWHERE — 02 DATE 1975 — 03 AGENCY _____
04 DESCRIPTION Drums removed and disposed of at Illinois Valley Disposal LF, LaSalle County.

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980902209

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: N/A

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

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

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

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

Site Inspection 11/5/85
E+E/FIT File; IEPA Files

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980902209

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

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

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

Site Inspection 11/5/85
E+E/FIT file ; IEPA files

EPA FORM 2070-13 (7-81)

US. SCRAP Ottawa, IL ILD980902209

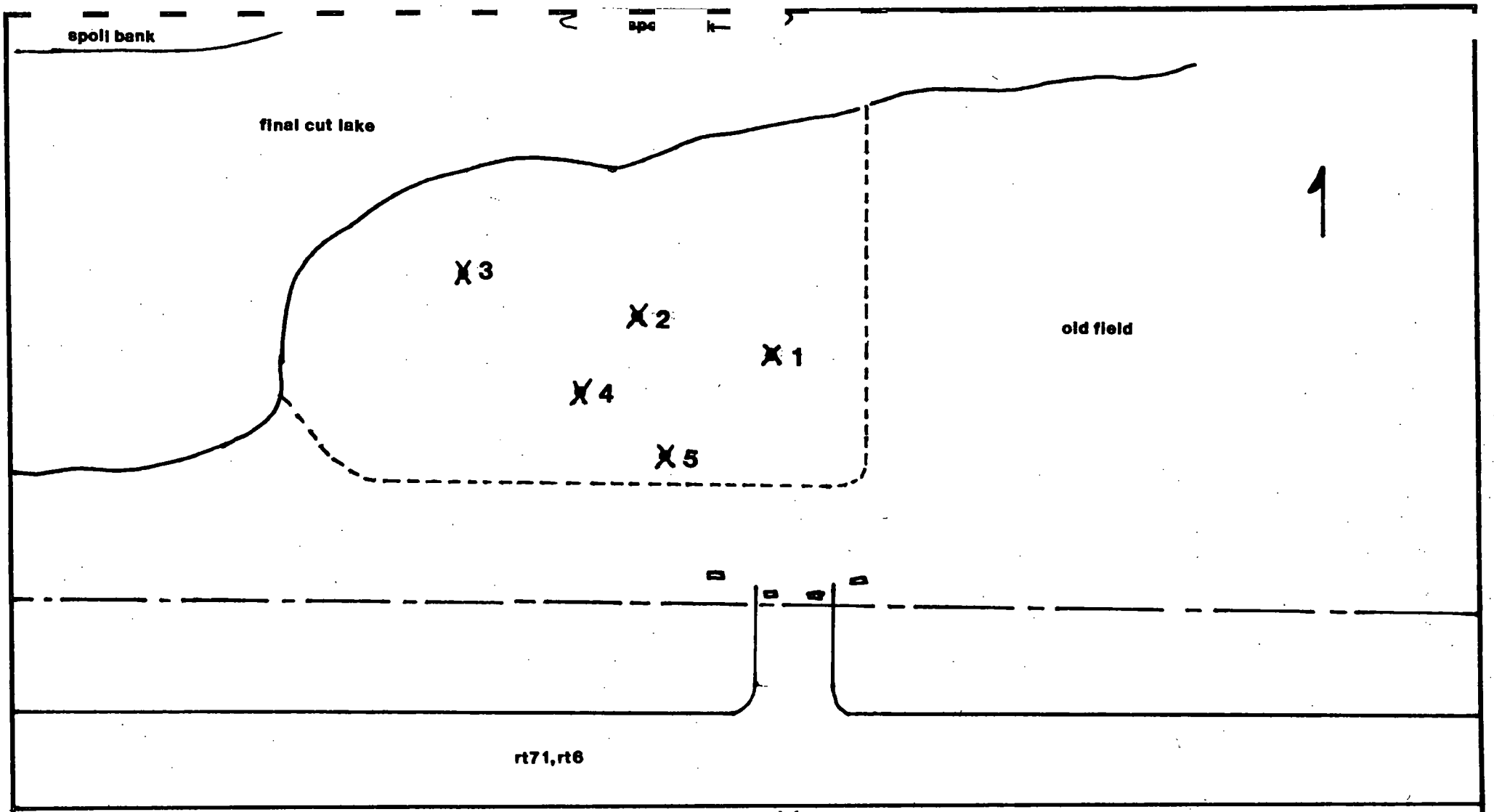
Immediate Removal Action Check Sheet

	High	Moderate	Low	
Fire and Explosion Hazard				
Flammable Materials			N/A	
Explosives			↓	
Incompatable Chemicals				
Direct Contact with Acutely Toxic Chemicals				
Site Security		✓		
Leaking Drums or Tanks			N/A	
Open Lagoons or pits			✓	Lakes onsite
Materials on Surface		✓		
Proximity of Population		✓		<1/4 mile
Evidence of Casual Site Use		✓		
Contaminated Water Supply				
Exceeds 10 Day Snarl			NA	
Gross Taste or Odors			↓	
Alternate Water Available				
Potential Contamination				
Is the site abandoned or active?				

Comments There are no longer any materials stored on the site. Soil samples show some contamination with organics.

3

nal®



PREVIOUS DRUM STORAGE AREA

SOIL SAMPLE LOCATIONS

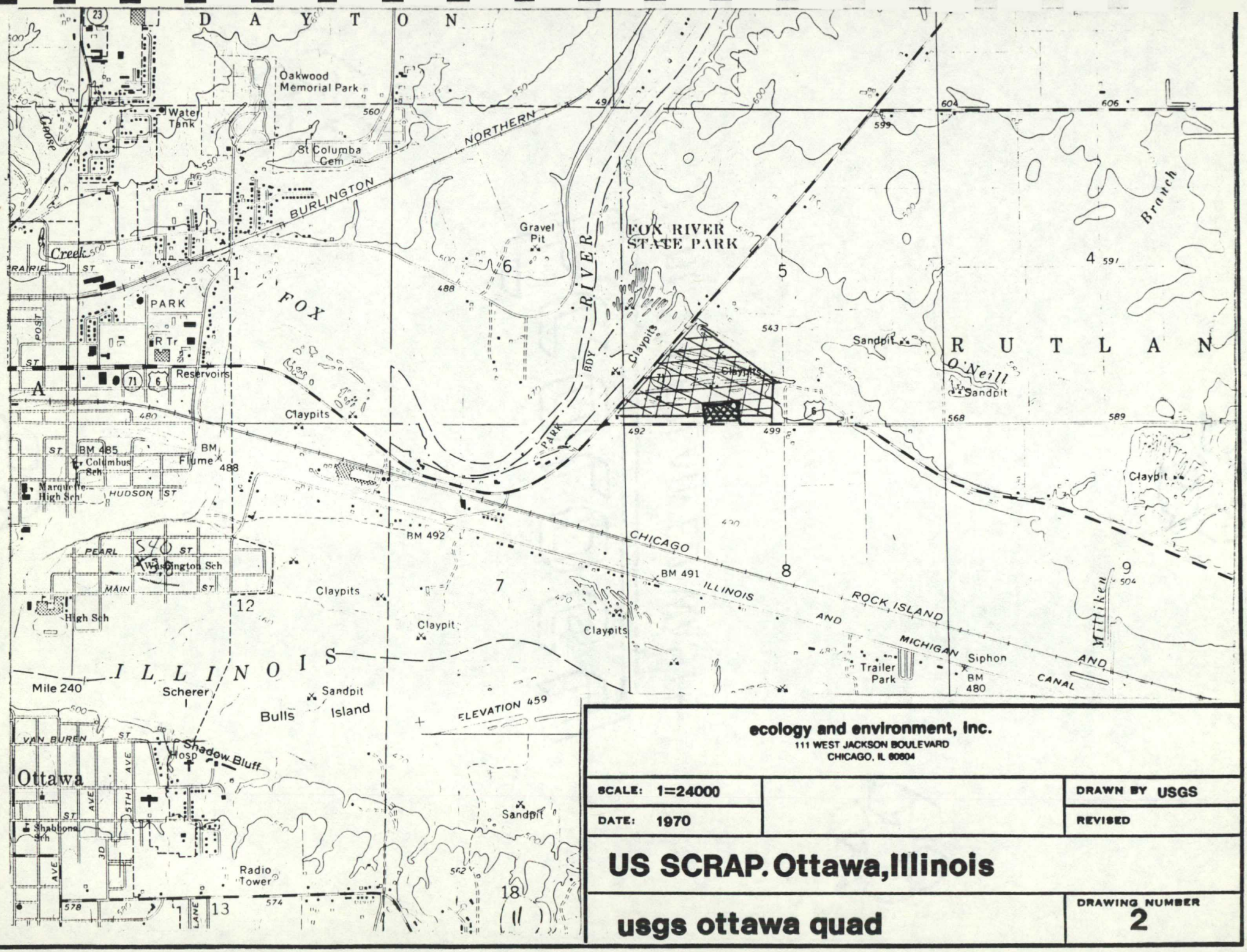
POWER LINES

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

SCALE: 1"=40'		DRAWN BY CURNOCK
DATE: 11/5/85		REVISED

US SCRAP. Ottawa,Illinois

DRAWING NUMBER 1



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

SCALE: 1=24000		DRAWN BY USGS
DATE: 1970		REVISED

US SCRAP. Ottawa, Illinois

usgs ottawa quad

DRAWING NUMBER
2

4

al®

FIELD PHOTOGRAPHY LOG SHEET

PAGE 1

DATE 11/5/85

TIME 9:15 (A.M.) P.M.

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

WEATHER overcast
cool, 45°F

SITE US. SCRAP; OTTAWA, IL

ID# 05-8303-01E

PHOTOGRAPHED BY:
D. CURNOCK

SAMPLE ID# (if applicable)
1S

DESCRIPTION: Sample 1S; 0-6" soil sample

DATE 11/5/85

TIME 9:15 (A.M.) P.M.

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

WEATHER overcast
cool, 45°F

SITE US SCRAP; OTTAWA, IL

ID# 05-8303-01E

PHOTOGRAPHED BY:
D. CURNOCK

SAMPLE ID# (if applicable)
1S

DESCRIPTION: Sample 1S, 0-6" soil sample - perspective

FIELD PHOTOGRAPHY LOG SHEET PAGE 2

DATE 11/5/85

TIME 9:30 (A.M.) P.M.

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

WEATHER overcast
cool, 45°F

SITE US. SCRAP; OTTAWA, IL

SITE ID# 05-8303-01E

PHOTOGRAPHED BY:
D. CURNOCK

SAMPLE ID# (if applicable)
2S

DESCRIPTION: 2S - "

DATE 11/5/85

TIME 9:30 (A.M.) P.M.

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

WEATHER overcast
cool, 45°F

SITE US SCRAP; OTTAWA, IL

SITE ID# 05-8303-01E

PHOTOGRAPHED BY:
D. CURNOCK

SAMPLE ID# (if applicable)
2S

DESCRIPTION: Perspective - sample 2S, 0-6" soil sample

FIELD PHOTOGRAPHY LOG SHEET

PAGE 3

DATE 11/5/85

TIME 9:35 (A.M.) P.M.

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

WEATHER overcast
cool, 45°F

SITE US. SCRAP; OTTAWA, IL

DD# 05-8303-01E

PHOTOGRAPHED BY:
D. CURNOCK

SAMPLE ID# (if applicable)
3S

DESCRIPTION: Sample 3S, 0-6" soil sample

DATE 11/5/85

TIME 9:35 (A.M.) P.M.

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

WEATHER overcast
cool, 45°F

SITE US SCRAP; OTTAWA, IL

DD# 05-8303-01E

PHOTOGRAPHED BY:
D. CURNOCK

SAMPLE ID# (if applicable)
3S

DESCRIPTION: perspective - Sample 3S, 0-6" soil Sample

FIELD PHOTOGRAPHY LOG SHEET

PAGE 4

DATE 11/5/85

TIME 9:40 (A.M.) P.M.

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

WEATHER overcast
cool, 45°F

SITE US. SCRAP; OTTAWA, IL

DD# 05-8303-01E

PHOTOGRAPHED BY:
D. CURNOCK

SAMPLE ID# (if applicable)
4S

DESCRIPTION: Sample 4S, 0-6" soil sample

DATE 11/5/85

TIME 9:40 (A.M.) P.M.

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

WEATHER overcast
cool, 45°F

SITE US SCRAP; OTTAWA, IL

DD# 05-8303-01E

PHOTOGRAPHED BY:
D. CURNOCK

SAMPLE ID# (if applicable)
4S

DESCRIPTION: Perspective - Sample 4S, 0-6" soil sample

FIELD PHOTOGRAPHY LOG SHEET

PAGE 5

DATE 11/5/85

TIME 9:50 (A.M.) P.M.

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

WEATHER overcast
cool, 45°F

SITE US. SCRAP; OTTAWA, IL

IDD# 05-8303-01E

PHOTOGRAPHED BY:
R. Bock

SAMPLE ID# (if applicable)
5S

DESCRIPTION: Sample 5S, 0-6" soil sample

DATE 11/5/85

TIME 9:50 (A.M.) P.M.

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

WEATHER overcast
cool, 45°F

SITE US SCRAP; OTTAWA, IL

IDD# 05-8303-01E

PHOTOGRAPHED BY:
R. Bock

SAMPLE ID# (if applicable)
5S

DESCRIPTION: Perspective — Sample 5S, 0-6" soil sample

FIELD PHOTOGRAPHY LOG SHEET

DATE 11/5/85

TIME 10:05 (A.M.) P.M.

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

WEATHER overcast
cool, 45°F

SITE US. SCRAP; OTTAWA, IL

LOD# 05-8303-01E

PHOTOGRAPHED BY:
R. Bock

SAMPLE ID# (if applicable)
6S

DESCRIPTION: Background 0-6" soil sample - Sample 6S

DATE 11/5/85

TIME 10:05 (A.M.) P.M.

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

WEATHER overcast
cool, 45°F

SITE US SCRAP; OTTAWA, IL

LOD# 05-8303-01E

PHOTOGRAPHED BY:
R. Bock

SAMPLE ID# (if applicable)
6S

DESCRIPTION: Perspective - Background 0-6" soil sample - Sample 6S

SAMPLE DESCRIPTION

SITE NAME/TDD# U.S. Scrap / 05-8303-D1E

CASE NUMBER 5174

SAMPLE #/STATION LOCATION 1S

SAMPLING DATE 11-5-85 SAMPLING TIME ~~9:30~~ 9:15

ORGANIC TRAFFIC NUMBER EE338

INORGANIC TRAFFIC NUMBER MEG 172

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8oz	metals/CN	5-39085	65161232
8oz	Organics	86	"
120 ml	Volatile Org	87	45159132
120 ml	Volatile Org	88	"

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Soil 0-6" Black, some gravel, coal fines

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT:

INSTRUMENT READINGS

pH None

CONDUCTIVITY None

TEMPERATURE None

SAMPLE DESCRIPTION

SITE NAME/TDD# U.S. Scrap / 05-8303-D1E

CASE NUMBER 5174

SAMPLE #/STATION LOCATION 2S

SAMPLING DATE 11-5-85 SAMPLING TIME 9:30

ORGANIC TRAFFIC NUMBER EE339

INORGANIC TRAFFIC NUMBER MEG 173

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8oz	metals/CN	5-39089	65161232
8oz	Organics	90	"
120 ml	Volatile Org	91	45199132
120 ml	Volatile Org	92	"

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Soil - 0-6" clay, silt coal fines, gray-black

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT:

INSTRUMENT READINGS

pH None

CONDUCTIVITY None

TEMPERATURE None

SAMPLE DESCRIPTION

SITE NAME/TDD# U.S. Scrap / 05-8303-D1E

CASE NUMBER 5174

SAMPLE #/STATION LOCATION 3S

SAMPLING DATE 11-5-85 SAMPLING TIME 9:35

ORGANIC TRAFFIC NUMBER EE340

INORGANIC TRAFFIC NUMBER MEG-174

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8oz	metals/CN	5-39093	65161232
8oz	Organics	94	"
120 ml	Volatile Org	95	45159132
120 ml	Volatile Org	96	"

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Soil - 0-6" brown loamy, coal fines

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT:

INSTRUMENT READINGS

pH None

CONDUCTIVITY None

TEMPERATURE None

SAMPLE DESCRIPTION

SITE NAME/TDD# U.S. Scrap / 05-8303-D1E

CASE NUMBER 5174

SAMPLE #/STATION LOCATION 45

SAMPLING DATE 11-5-85 SAMPLING TIME 9:40

ORGANIC TRAFFIC NUMBER EE482

INORGANIC TRAFFIC NUMBER MEG175

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8oz	metals/CN	5-39097	65161232
8oz	Organics	98	"
120 ml	Volatile Org	99	451,59132
120 ml	Volatile Org	100	"

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Soil - 0-6" grey-brown coal fines, silty

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT:

INSTRUMENT READINGS

pH None

CONDUCTIVITY None

TEMPERATURE None

SAMPLE DESCRIPTION

SITE NAME/TDD# U.S. Scrap / 05-8303-D1E

CASE NUMBER 5174

SAMPLE #/STATION LOCATION 5S

SAMPLING DATE 11-5-85 SAMPLING TIME 9:50

ORGANIC TRAFFIC NUMBER EE483

INORGANIC TRAFFIC NUMBER MEE 208

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8oz	metals/CN	5-117101	65161232
8oz	Organics	02	"
120 ml	Volatile Org	03	45159132
120 ml	Volatile Org	04	"

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Soil 0-6" brown, loam, organic, some fines - not much

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT:

INSTRUMENT READINGS

pH None

CONDUCTIVITY None

TEMPERATURE None

SAMPLE DESCRIPTION

SITE NAME/TDD# U.S. Scrap / 05-8303-01E

CASE NUMBER 5174

SAMPLE #/STATION LOCATION 6S

Roadside across from site ; Background

SAMPLING DATE 11-5-85 SAMPLING TIME 10:05

ORGANIC TRAFFIC NUMBER EE484

INORGANIC TRAFFIC NUMBER MEE209

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8oz	metals/CN	5-117105	65161232
8oz	Organics	06	"
120 ml	Volatile Org	07	45159132
120 ml	Volatile Org	08	"

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Soil - brown 0-6" gravelly (roadside)

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT:

INSTRUMENT READINGS

pH None

CONDUCTIVITY None

TEMPERATURE None

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	MEG172	MEG173	MEG174	MEG175	MEE208	MEE209					
DTC	EE338	EE339	EE340	EE482	EE483	EE484					
SAMPLE	1S	2S	3S	4S	5S	(BACK GROUND) 6S (OFFSITE)					
COMPOUND											
chloromethane											
bromomethane											
vinyl chloride											
chloroethane											
methylene chloride											
acetone											
carbon disulfide											
1,1-dichloroethene											
1,1-dichloroethane											
trans-1,2,-dichloroethene											
chloroform		339 ug/kg									
1,2-dichloroethane											
2-butanone											
1,1,1-trichloroethane					15 ug/kg						
carbon tetrachloride											
vinyl acetate											
bromodichloromethane											
1,1,2,2-tetrachloroethane											
1,2-dichloropropane											
trans-1,3-dichloropropene											
trichloroethene					64 ug/kg						
dibromochloromethane											
1,1,2-trichloroethane											
benzene											
cis-1,3-dichloropropene											
2-chloroethylvinylether											
bromoform											
2-hexanone											
4-methyl-2-pentanone											
tetrachloroethene					160 ug/kg						
toluene				12 ug/kg							
chlorobenzene											
ethylbenzene	15 ug/kg										
styrene											
total xylenes	31 ug/kg										
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											
4-chloroaniline											
hexachlorobutadiene											
4-chloro-3-methylphenol											
2-methylnapthalene											
hexachlorocyclopentadiene											
2,4,6-trichlorophenol											
2,4,5-trichlorophenol											
2-chloronaphthalene											
2-nitroaniline											
dimethyl phthalate											
acenapthylene											
3-nitroaniline											
acenaphthene											
2,4-dinitrophenol											
4-nitrophenol											
dibenzofurnan											
2,4-dinitrotoluene											
2,6-dinitrotoluene											
diethylphthalate											
4-chlorophenyl-phenylether											
flourene											
4-nitroaniline											
4,6-dinitro-2-methylphenol											
N-nitrosodiphenylamine											
4-bromophenyl-phenylether											
hexachlorobenzene											

STATE ILLINOIS SITE US SCRAP, OTTAWA TDD 05-8310-01E PAGE 1 OF 2, SET # 1

	ITC	MEG172	MEG173	MEG174	MEG175	MEE207	MEE209				
	OTC	EE338	EE339	EE340	EE482	EE483	EE484				
	SAMPLE										
COMPOUND											
pentachlorophenol											
phenanthrene											
anthracene											
di-n-butylphthalate											
fluoranthene											
benzidine											
pyrene											
butylbenzylphthalate											
3,3'-dichlorobenzidine											
benzo(a)anthracene											
bis(2-ethylhexyl)phthlate											
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					4600 ug/kg						
Aroclor-1248											
Aroclor-1254											
Aroclor-1260					2100 ug/kg						
ELEMENT											
aluminum											
antimony											
arsenic											
barium											
beryllium											
cadmium											
calcium											
chromium											
cobalt											
copper											
iron											
lead											
magnesium											
manganese											
mercury											
nickel											
potassium											
selenium											
silver											
sodium											
thallium											
tin											
vanadium											
zinc											
cyanide CHECK IF ANALYZED ( )											
TENTATIVELY IDENTIFIED ORGANICS											

STATE ILLINOIS SITE U.S. SCRAP, OTTAWA TDD 05-8510-01C 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: 3-31-86 Date Review Completed: 4-2-86

TO: Dave Curnock

FROM: Suzanne Kozlowski

SUBJECT: U.S. Scrap Illinois R05-8303-01E

Sample Description: Case # 5174 six (6) low soil organics

Project Data Status: Complete

FIT Data Review Findings:

See VIAR review. Bis (2-Ethylhexyl) phthalate was detected in the blank. Many PAH hits found in all samples. Pesticides detected in EE483.

Additional Comments:

Book No. 5
Page No. 64

recycled paper

Review Transmitted 3/31/86

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

TE: 3/31/86

: Review of Region V CLP Data
Received for Review on 3/31/86

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

: Data User: Art

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

SITE NAME: U.S. Scrap SMO Case No. 5174

EPA Data Set No. SF2784 No. of Samples: 6 D.U./Activity Numbers 4905/C48500

CRL No. 86FC02560 - 86FC02565

SMO Traffic No. EE338-340 ; EE482-484

CLP Laboratory: Analytical Technologies Inc Hrs. Required for Review: 1

Following are our findings.

See attached Viar review.

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( ) 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

FORM 13204 (REV 3-78)

RECEIVED MAR 3 1 1986

RECEIVED
MAR 2 1986
US EPA ... LAB.
53 ... STREET
CHICAGO, ILLINOIS 60605

MEMORANDUM

DATE: March 25, 1986

TO: Chuck Elly
USEPA Region V

FROM: Peter J. Isaacson
SMO Data Review Team

SUBJECT: QA/QC Compliance Review Summary for a Contract Laboratory Organic Sample Data Package: Case No. 5174

As requested, quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated:

Data Completeness	Blanks
Spectra Matching Quality	DFTPP and BFB Tuning
Surrogate Spikes	Chromatography
Matrix Spikes/Duplicates	Holding Times
Calibration	Compound ID (HSL, TIC)

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

	I Volatiles	II B/N/A	III Pesticide
Acceptable as Submitted		X	X
Acceptable with Comments	X		
Unacceptable, Action Pending			
Unacceptable			

Data Prepared by: HARRY B. McCARTY Date: 3-25-86

Reviewier's Name: PETER J. ISAACSON Date: 3/25/86

Reviewer's Signature: Peter Isaacson

Area Code/Phone No.: 703-683-0885

FTS Line: 8-557-2490

NARRATIVE

Case No. 5174

RECEIVED MAR 3 1 1986

Site Name: U.S. Scrap

Laboratory Name: Analytical Technologies, Inc.

Introduction

The laboratory's portion of this Case consisted of six samples collected on 11/5/85.

The laboratory reported no problems with the receipt of these samples.

The laboratory reported numerous problems with the analyses of all compounds.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the forms in Appendix A. Amounts of detected compounds are summarized in Appendix B.

Evaluation by Fraction

I. Volatiles

___ Holding Times
___ GC/MS Tuning
___ Calibration, Initial
X Calibration, Continuing
X Blank
X Surrogate Recovery
___ MS/MSD
___ Compound ID (HSL, TIC)
___ Spectra Quality
___ Standards
___ Chromatography
___ Data Completeness

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Comments:

Nine HSL compounds were detected among the six samples.

Two common solvents, methylene chloride and acetone, were among the nine HSL compounds detected in the samples. Methylene chloride was detected in all the samples, and all the blanks. Blank concentrations were low (4 - 14 ug/kg), and varied with the date on which the blank was analyzed. The values for EE378, EE340 and EE483 were at least 5X the blank value for the data of the VOA analyses, and are considered significant hits.

Acetone was detected in two of five blanks, but not the blank analyzed on the same day as the initial analyses of the samples. Acetone was detected in five of six samples, but not at levels that were significant when compared to the level detected in the other blanks.

No other HSL compounds were detected in any of the blanks.

Sample EE339 had 318 ug/kg of chloroform, which is considered a significant hit. The other two chloroform hits are not significant, relative to the detection limit.

15 ug/kg of 1,1,1-trichloroethane in Sample EE483 is significant, given the levels of other chlorinated compounds detected in that sample.

Of the three trichloroethene hits, only that in EE483 is considered significant. Similarly, only the tetrachloroethane hit in EE483 is significant.

Of the three toluene hits, only that in EE482 is significant, relative to the detection limits.

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The hits for ethylbenzene and total xylenes are significant in EE338.

The surrogate recoveries were outside QC limits for five of the six samples. Except for EE484, all the toluene-d_8 recoveries were too high, and all the BFB recoveries were too low. All these surrogate recoveries were still outside the QC limits upon re-extraction and re-analysis.

JT

In contrast, the surrogate recoveries for the blanks were all within QC limits. This makes it unlikely that the problem is due to a matrix effect. The 1,2-dichloroethane recoveries were within QC limits in all cases.

As the majority of hits for these samples were chlorinated hydrocarbons, the surrogate recovery problems should not severely affect data usability, as the 1,2-dichloroethane surrogate was within QC limits. At worst, toluene-like compounds may be overestimated, and BFB-like compounds may be present at very low levels but not detected.

As noted by the laboratory, three check compounds did not meet the QC specifications for the continuing calibration. The compounds were bromoform, vinyl chloride and 1,2-dichloropropene. The latter two compounds did not meet the QC specifications for maximum percent difference in response factors (they had %D greater than 25%). In one case, bromoform did not meet the minimum response factor of 0.25. The problems with vinyl chloride and 1,2-dichloropropane would have biased the quantification of those compounds. However, neither was detected in these samples. The response factor (RF) for bromoform met the QC specifications for all but one sample, and as bromoform was not detected in any of those samples, it is unlikely that it seriously affected the analysis of the remaining sample. Neither of the continuing calibration problems affect the usability of the data.

II. Base/Neutral/Acids

___ Holding Times
___ GC/MS Tuning
___ Calibration, Initial
X Calibration, Continuing
X Blank
___ Surrogate Recovery
___ MS/MSD
___ Compound ID (HSL, TIC)
___ Standards
___ Chromatography
___ Data Completeness

Comments:

Fifteen HSL compounds were detected in the BNA fractions of the six samples.

The BNA continuing calibration run on 11/18/85 did not meet the QC requirements, because the %D for N-nitrosodiphenylamine was greater than 30%. The response factor (RF) calculated during continuing calibration was greater than that for initial calibration, and by an amount outside the QC allowance.

Only sample EE338 had a hit for N-nitrosodiphenylamine, and that was estimated at less than the CRDL for that compound. The problem with the continuing calibration means that the estimated concentration may be too high. The problem with the continuing calibration does not affect the usability of the data.

One of the two blanks contained 840 ug/kg of bis(2-ethylhexyl) phthalate. No other BNA HSL compounds were detected.

The BEHP levels detected in all six samples were at least 200X that of the blank. The BEHP hits, along with all the other BNA hits in the samples are significant.

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III. Pesticides/PCBs

___ Holding Times
___ Instrument Performance
___ DDT RT/12 Minute
___ Retention Time Window
X Analytical Sequence
___ DDT/Endrin Degradation
___ RT Check for DBC
___ Resolution Check
___ Calibration Linearity
___ Calibration, Continuing
___ Blank
___ Surrogate Recovery
X MS/MSD
___ Compound ID (HSL, TIC)
___ Standards
___ Chromatography
___ Data Completeness

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Comments:

Two PCB HSL compounds were detected in sample EE483. No HSL compounds were detected in the blanks for this fraction. The laboratory noted possible problems with quantifying Aroclor-1242 and Aroclor-1260, due to interfering compounds. However, as the reported concentrations in the samples are 15 - 20 times the detection limit for these compounds, the concentrations should be considered significant.

The problems noted in the Case Narrative for analytical sequence do not affect the usability of the data. The pesticide standards that were run later than required met the contract criteria otherwise. No pesticide HSLs were detected in any sample. These problems would not affect the two PCB hits, as other standards are applied to the analysis of these compounds.

As noted in the Case Narrative, Endrin was not added to the matrix spiking solution. Therefore, the Endrin recoveries could not be calculated for the matrix spike and duplicate. However, no Endrin was detected in the samples, so the results should not be affected.

TUVIL W MATRIX

APPENDIX B - VOA COMPOUNDS

Case No. 5194

Laboratory Name ANALYTICAL TECHNOLOGIES

Compounds	Samples						Blanks				
	EE338	EE337	EE346	EE482	EE483	EE484	RB2-0/12	RB 11/26	RB 11/25	RB 11/12	0/12
Chloromethane											
Bromomethane											
Vinyl Chloride											
Chloroethane											
Methylene Chloride	22 B	7 B	21 B	17 B	22	10 B	6	4 J	4 J	4 J	4
Acetone	13	8 J	8 J	10 JB		9 J			6 J		7 J
Carbon Disulfide											
1,1-Dichloroethene											
1,1-Dichloroethane											
Trans-1,2-Dichloroethene											
Chloroform	5 J	318			8						
1,2-Dichloroethane											
2-Butanone											
1,1,1-Trichloroethane					15						
Carbon Tetrachloride											
Vinyl Acetate											
Bromodichloromethane											
1,2-Dichloropropane											
Trans-1,3-Dichloropropene											
Trichloroethene		3 J		6 J	64						
Dibromochloromethane											
1,1,2-Trichloroethane											
Benzene											
cis-1,3-Dichloropropene											
2-Chloroethylvinylether											
Bromoform											
4-Methyl-2-Pentanone											
2-Hexanone											
Tetrachloroethene			5 J	7	160						
1,1,2,2-Tetrachloroethane											
Toluene		3 J		12	3 J						
Chlorobenzene											
Ethylbenzene	15										
Styrene											
Total Xylenes	37										
	Sample/Blank Association										

RB 11/12 IS FOR ALL -01 VOA'S

RB 11/13 IS FOR REINJECTION OF EE-338

RB 11/25 " " " " EE 337

RB 11/26, RB 2 11/12 " " " EE 346, EE482, EE483

RECEIVED MAR 3 1 1986

Case No. 5174

Laboratory Name ANALYTICAL TECHNOLOGIES INC

Compounds	Samples								Blanks		
	EE338	EE339	EE340	EEYB2	EEYB3	EEYB4			1B n/a	RA n/a	
Phenol											
bis(2-Chloroethyl)Ether											
2-Chlorophenol											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
Benzyl Alcohol											
1,2-Dichlorobenzene				11,000 J							
2-Methylphenol											
bis(2-Chloroprapyl)Ether											
4-Methylphenol											
N-Nitroso-Di-n-Propylamine											
Hexachloroethane											
Nitrobenzene				18,000 J							
Isophorone	160,000	9000 J	11,000 J	95,000	63,000						
2-Nitrophenol											
2,4-Dimethylphenol											
Benzoic Acid	30,000 J	7200 J	9000 J								
bis(2-Chloroethoxy)Methane											
2,4-Dichlorophenol											
1,2,4-Trichlorobenzene											
Naphthalene	12,000 J			17,000 J	8600 J						
4-Chloroaniline											
Hexachlorobutadiene											
4-Chloro-3-Methylphenol											
2-Methylnaphthalene	62,000	29,000	26,000	290,000	150,000						
Hexachlorocyclopentadiene											
2,4,6-Trichlorophenol											
2,4,5-Trichlorophenol											
2-Chloronaphthalene											
2-Nitroaniline											
Dimethyl Phthalate				12,000							
Acenaphthylene											
3-Nitroaniline											
Acenaphthene											
2,4-Dinitrophenol											
4-Nitrophenol											
Dibenzofuran											
2,4-Dinitrotoluene											
2,6-Dinitrotoluene											
Diethylphthalate											
4-Chlorophenyl-phenylether											
Fluorene											
4-Nitroaniline											
4,6-Dinitro-2-Methylphenol											
N-Nitrosodiphenylamine(1)	11,000 J										
4-Bromophenyl-phenylether											
Hexachlorobenzene											
Pentachlorophenol											
Phenanthrene				24,000							
Anthracene											
Di-n-Butylphthalate	4700 J				8500 J						
Fluoranthene						6800 J					
Pyrene						6800 J					
Butylbenzylphthalate	4000 J			17,000 J							
3,3-Dichlorobenzidiene											
Benzo(a)Anthracene											
bis(2-Ethylhexyl)Phthalate	18,000	15,000	37,000	120,000 B	23,000	22,000 B			8/0		
Chrysene											
Di-n-Octyl Phthalate											
Benzo(b)Fluoranthene											
Benzo(b)Fluoranthene						5800 J					
Benzo(a)Pyrene											
Indeno(1,2,3-cd)Pyrene											
Dibenz(a-h)Anthracene											
Benzo(g,h,i)Perylene											

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Sample/Blank Association

REVIEW MATRIX

APPENDIX B - PESTICIDE/PCB COMPOUNDS

Case No. 5191

Laboratory Name ANALYTICAL TECHNOLOGIES

Compounds	Samples								Blanks		
	EEJJ8	EE339	EE340	EE482	EE483	EE484			RA112	RA116	
Alpha-BHC											
Beta-BHC											
Delta-BHC											
Gamma-BHC											
Heptachlor											
Aldrin											
Heptachlor Epoxide											
Endosulfan I											
Dieldrin											
4,4-DDE											
Endrin											
Endosulfan II											
4,4-DDD											
Endosulfan Sulfate											
4,4-DDT											
Methoxychlor											
Endrin Ketone											
Chlordane											
Toxaphene											
Aroclor-1016											
Aroclor-1221											
Aroclor-1232											
Aroclor-1242					4600						
Aroclor-1248											
Aroclor-1254											
Aroclor-1260					210D						
	Sample/Blank Association										

DL = 130, 260

RECEIVED MAR 31 1986

5F2784

Analytical Technologies, Inc.
225 W. 30th Street
National City, CA 92050

12/6/85

Case Narrative for Case # 5174
Contract #6801-7014

Samples:Soils;EE338-40,EE482-4

This case was received at Analytical Technologies, Inc. on 11/6/85. Comments regarding the analytical fractions are contained in the attachments that follow.

Sincerely,

Mike Hiatt

Attachments

RECEIVED
FEB 7 1986
U.S. EPA, CENTRAL REGIONAL LAB.
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

RECEIVED MAR 3 1 1986

Sample Number
EE-338
86F02560

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Case No: 5174
Lab Sample ID No: EE-338
QC Report No: —
Sample Matrix: Soil
Contract No: 68017014
Data Release Authorized By:
Date Sample Received: 11/4/85

Volatile Compounds

Concentration: Low Medium (Circle One)
RECEIVED MAR 3 1 1986
Date Extracted/Prepared: 11/12/85
Date Analyzed: 11/12/85
Conc/Dil Factor: 1.04 pH 5.50
Percent Moisture: (Not Decanted) 23.8

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	13U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	22B
67-64-1	Acetone	13
75-15-0	Carbon Disulfide	7U
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	5J
107-06-2	1, 2-Dichloroethane	7U
78-93-3	2-Butanone	13U
71-55-6	1, 1, 1-Trichloroethane	7U
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	13U
75-27-4	Bromodichloromethane	7U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7U
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	13U
75-25-2	Bromoform	7U
591-78-6	4-Methyl-2-Pentanone	13U
108-10-1	2-Hexanone	
127-18-4	Tetrachloroethene	7U
79-34-5	1, 1, 2, 2-Tetrachloroethane	
108-88-3	Toluene	7U
108-90-7	Chlorobenzene	7U
100-41-4	Ethylbenzene	15
100-42-5	Styrene	7U
	Total Xylenes	31

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.

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.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: ATI

Case No: 5174

05174

Sample Number: EE-338

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11/12/85

Date Analyzed: 11/18/85

Conc./Dil Factor: 1

Percent Moisture (Decanted)

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

RECEIVED MAR 3 1 1986

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	13000U
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1 3-Dichlorobenzene	
106-46-7	1 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
7-72-1	Hexachloroethane	
8-95-3	Nitrobenzene	
78-59-1	Isophorone	160,000
88-75-5	2-Nitrophenol	13000U
105-67-9	2 4-Dimethylphenol	
65-85-0	Benzoic Acid	30,000J
111-91-1	bis(-2-Chloroethoxy)Methane	13000U
120-83-2	2 4-Dichlorophenol	
120-82-1	1 2 4-Trichlorobenzene	
91-20-3	Naphthalene	12000J
106-47-8	4-Chloroaniline	13000U
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	69,000
77-47-4	Hexachlorocyclopentadiene	13000U
88-06-2	2 4 6-Trichlorophenol	
95-95-4	2 4 5-Trichlorophenol	65000U
91-58-7	2-Chloronaphthalene	13000U
88-74-4	2-Nitroaniline	65000U
131-11-3	Dimethyl Phthalate	13000U
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	65000U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	13000U
51-28-5	2 4-Dinitrophenol	65000U
100-02-7	4-Nitrophenol	65000U
132-64-9	Dibenzofuran	13000U
121-14-2	2 4-Dinitrotoluene	
606-20-2	2 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	65000U
534-52-1	4 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	11000J
101-55-3	4-Bromophenyl-phenylether	13000U
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	65000U
85-01-8	Phenanthrene	13000U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	4700J
206-44-0	Fluoranthene	13000U
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	4000J
91-94-1	3 3'-Dichlorobenzidine	26000U
56-55-3	Benzo(a)Anthracene	13000U
117-81-7	bis(2-Ethylhexyl)Phthalate	18000
218-01-9	Chrysene	13000U
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1 2 3-cd)Pyrene	
53-70-3	Dibenz(a h)Anthracene	
191-24-2	Benzo(g h i)Perylene	

(1)-Cannot be separated from diphenylamine

Laboratory Name: HII

Case No: 5174

Sample Number: EE-339

Organics Analysis Data Sheet
(Page 2)

05174

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11/12/85

Date Analyzed: 11/18/85

Conc./Dil Factor: 1

Percent Moisture (Decanted)

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

RECEIVED MAR 3 1 1986

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	11000U
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1,3-Dichlorobenzene	
106-46-7	1,4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1,2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	9000J
88-75-5	2-Nitrophenol	11000U
105-67-9	2,4-Dimethylphenol	
65-85-0	Benzoic Acid	7200J
111-91-1	bis(2-Chloroethoxy)Methane	11000U
120-83-2	2,4-Dichlorophenol	
120-82-1	1,2,4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	29,000
77-47-4	Hexachlorocyclopentadiene	11000U
88-06-2	2,4,6-Trichlorophenol	
95-95-4	2,4,5-Trichlorophenol	55,000U
91-58-7	2-Chloronaphthalene	11,000U
88-74-4	2-Nitroaniline	55,000U
131-11-3	Dimethyl Phthalate	11,000U
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	55,000U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	11,000U
51-28-5	2,4-Dinitrophenol	55,000U
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	11,000U
121-14-2	2,4-Dinitrotoluene	
606-20-2	2,6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	55,000U
534-52-1	4,6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	11,000U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	55,000U
85-01-8	Phenanthrene	11,000U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3,3'-Dichlorobenzidine	22,000U
56-55-3	Benzo(a)Anthracene	11,000U
117-81-7	bis(2-Ethylhexyl)Phthalate	15,000
218-01-9	Chrysene	11,000U
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1,2,3-cd)Pyrene	
53-70-3	Dibenz(a,h)Anthracene	
191-24-2	Benzo(g,h,i)Perylene	

(1)-Cannot be separated from diphenylamine

Laboratory Name ATI

Case No 5174

Sample Number EE 339

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12 NOV. 85

Date Analyzed 24 NOV. 85

Conc/Dil Factor: 1.0

Percent Moisture (decanted) _____

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	150u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	300u
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	1500u
53494-70-5	Endrin Ketone	300u
57-74-9	Chlordane	1500u
8001-35-2	Toxaphene	3000u
12674-11-2	Aroclor-1016	1500u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	3000u
11096-82-5	Aroclor-1260	

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 1.0 V_t 10000 V_i 2

Laboratory Name: HII

Case No: 5174

Sample Number: EE-339

Organics Analysis Data Sheet
(Page 4)

05174

Tentatively Identified Compounds

RECEIVED MAR 3 1 1986

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
	NO VOA COMPOUNDS FOUND			
2.				
5.				
7.				
10.				
1.				
2.				
3.				
4.				
15.				
6.				
7.				
8.				
9.				
20.				
1.				
2.				
23.				
4.				
25.				
6.				
7.				
28.				
9.				
30.				

Laboratory Name AIT

Case No 5174

Sample Number EE-339

Organics Analysis Data Sheet
(Page 4)

05174

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concen (ug/l ug/l
	—			97	
2.	—				000
	—				00
	—				
5	—				000
	—				✓
7	50-0	rs		1	000
	—			9	
	—			255	
10.	—			1	66
	—	nu			)
12.	—			1 5	
	—			0	
	—			6	
15.	—				55
	—				
	—				
	—				
	—				0
20.				23	
23.					
25.					
28.					
30.					

RECEIVED MAR 3 1 1986

Sample Number
EE-339 R.I

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: 5174
Lab Sample ID No: EE-339 R.I
Sample Matrix: Soil
Data Release Authorized By:

Case No: 5174 05174
QC Report No: —
Contract No: 68017014
Date Sample Received: 11-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/25/85
Date Analyzed: 11-25-85
Conc/Dil Factor: 0.99 pH 2.15
Percent Moisture: (Not Decanted) 18.4

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CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	12U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	48 B
67-64-1	Acetone	15 B
75-15-0	Carbon Disulfide	6U
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	4J
107-06-2	1, 2-Dichloroethane	6U
78-93-3	2-Butanone	12U
71-55-6	1, 1, 1-Trichloroethane	6U
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	12U
75-27-4	Bromodichloromethane	6U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	6U
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	4J
124-48-1	Dibromochloromethane	6U
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	12U
75-25-2	Bromoform	6U
108-10-1	4-Methyl-2-Pentanone	12U
591-78-6	2-Hexanone	
127-18-4	Tetrachloroethene	4J
79-34-5	1, 1, 2, 2-Tetrachloroethane	6U
108-88-3	Toluene	4J
108-90-7	Chlorobenzene	6U
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	6

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.

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.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Sample Number
FE-340

86FC02562

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI

Case No: 5174

Lab Sample ID No: FE 340

QC Report No: —

Sample Matrix: Soil

Contract No: 68017014

Data Release Authorized By:

Date Sample Received: 11-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11/12/85

Date Analyzed: 11/12/85

Conc/Dil Factor: 1 pH 3.05

Percent Moisture: (Not Decanted) 21.4 %

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CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	13 U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	21 B
67-64-1	Acetone	8 J
75-15-0	Carbon Disulfide	6 U
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	6 U
107-06-2	1, 2-Dichloroethane	6 U
78-93-3	2-Butanone	13 U
71-55-6	1, 1, 1-Trichloroethane	6 U
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	13 U
75-27-4	Bromodichloromethane	6 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	6 U
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	13 U
75-25-2	Bromoform	6 U
591-78-6	4-Methyl-2-Pentanone	13 U
108-10-1	2-Hexanone	
127-18-4	Tetrachloroethene	5 J
79-34-5	1, 1, 2, 2-Tetrachloroethane	6 U
108-88-3	Toluene	6 U
108-90-7	Chlorobenzene	6 U
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

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.

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.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

Laboratory Name HII

Case No 5174

Sample Number EE-339 R.I.

Organics Analysis Data Sheet
(Page 4)

05174

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
75-69-4	Methane, Trichlorofluoro	VOA	238	10 J
2.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
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29.				
30.				

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Laboratory Name: AII

Case No: 5174

Sample Number: EE-340

Organics Analysis Data Sheet
(Page 2)

05174

Semivolatile Compounds

Concentration: Low (Medium) (Circle One)

Date Extracted/Prepared: 11/12/85

Date Analyzed: 11/18/85

Conc./Dil Factor: 1

Percent Moisture (Decanted): —

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

RECEIVED MAR 3 1 1986

CAS Number		ug/l or ug/Kg (Circle One)
8-95-2	Phenol	13000 U
111-44-4	bis(2-Chloroethyl)Ether	
-57-8	2-Chlorophenol	
1-73-1	1,3-Dichlorobenzene	
106-46-7	1,4-Dichlorobenzene	
0-51-6	Benzyl Alcohol	
-50-1	1,2-Dichlorobenzene	
95-48-7	2-Methylphenol	
638-32-9	bis(2-chloroisopropyl)Ether	
6-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
7-72-1	Hexachloroethane	
3-95-3	Nitrobenzene	
78-59-1	Isophorone	11000 J
8-75-5	2-Nitrophenol	13000 U
05-67-9	2,4-Dimethylphenol	
65-85-0	Benzoic Acid	9000 JT
11-91-1	bis(2-Chloroethoxyl)Methane	13000 U
20-83-2	2,4-Dichlorophenol	
120-82-1	1,2,4-Trichlorobenzene	
1-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
9-50-7	4-Chloro-3-Methylphenol	
1-57-6	2-Methylnaphthalene	26000
77-47-4	Hexachlorocyclopentadiene	13000 U
8-06-2	2,4,6-Trichlorophenol	
5-95-4	2,4,5-Trichlorophenol	65000 U
91-58-7	2-Chloronaphthalene	13000 U
8-74-4	2-Nitroaniline	65000 U
31-11-3	Dimethyl Phthalate	13000 U
208-96-8	Acenaphthylene	
9-09-2	3-Nitroaniline	65000 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	13000 U
51-28-5	2,4-Dinitrophenol	65000 U
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	13000 U
121-14-2	2,4-Dinitrotoluene	
606-20-2	2,6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	65000 U
534-52-1	4,6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	13000 U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	65000 U
85-01-8	Phenanthrene	13000 U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3,3'-Dichlorobenzidine	26000 U
56-55-3	Benzo(a)Anthracene	13000 U
117-81-7	bis(2-Ethylhexyl)Phthalate	37000
218-01-9	Chrysene	13000 U
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1,2,3-cd)Pyrene	
53-70-3	Dibenz(a,h)Anthracene	
191-24-2	Benzo(g,h,i)Perylene	

(1)-Cannot be separated from diphenylamine

Laboratory Name ATI

Case No. 5174

Sample Number EE 340

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12 OCT 85

Date Analyzed: 23 NOV. 85

Conc/Dil Factor: 1.0

Percent Moisture (decanted) _____

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	100u
319-85-7	Beta-BHC	↓
319-86-8	Delta-BHC	↓
58-89-9	Gamma-BHC (Lindane)	↓
76-44-8	Heptachlor	↓
309-00-2	Aldrin	↓
1024-57-3	Heptachlor Epoxide	↓
959-98-8	Endosulfan I	↓
60-57-1	Dieldrin	210u
72-55-9	4,4'-DDE	↓
72-20-8	Endrin	↓
33213-65-9	Endosulfan II	↓
72-54-8	4,4'-DDD	↓
1031-07-8	Endosulfan Sulfate	↓
50-29-3	4,4'-DDT	↓
72-43-5	Methoxychlor	1000u
53494-70-5	Endrin Ketone	210u
57-74-9	Chlordane	1000u
8001-35-2	Toxaphene	2100u
12674-11-2	Aroclor-1016	1000u
11104-28-2	Aroclor-1221	↓
11141-16-5	Aroclor-1232	↓
53469-21-9	Aroclor-1242	↓
12672-29-6	Aroclor-1248	↓
11097-69-1	Aroclor-1254	2100u
11096-82-5	Aroclor-1260	↓

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 1.1 V_t 10000 V_i 2

Laboratory Name: AII

Case No: 5174

Sample Number: EE-320

Organics Analysis Data Sheet
(Page 4)

05174

Tentatively Identified Compounds

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CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
10544-50-0	Sulfur, Mol (S8)	BNA	1655	51,000 ✓
2. —	OPTAP degradation product		1446	18000 ✓
—	Alkane		2156	20000 ✓
—	Unknown Polynuclear Aromatic		2349	6500 ✓
5. —	xylene		413	14300 J
—	xylene		452	5200 J
7. 10544-50-0	Sulfur, Mol. (S8)		1189	3900 J
—	unknown PNA		1408	2600 J
—	carboxylic acid		1589	13000 J
10. —	carboxylic acid		1736	3900 J
11. —	unknown		2253	2600 J
12.				
13.				
14.				
15.				
16.				
17.				
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Sample Number
EE-340R.I

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Case No: 5174 05174
Lab Sample ID No: EE-340R.I.
QC Report No: —
Sample Matrix: Soil
Contract No: 68017014
Data Release Authorized By:
Date Sample Received: 11-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)
RECEIVED MAR 31 1986
Date Extracted/Prepared: 11/27/85
Date Analyzed: 11-27-85
Conc/Dil Factor: 0.98 pH 3.05
Percent Moisture: (Not Decanted) 21.4

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	13U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	220 B
67-64-1	Acetone	13U
75-15-0	Carbon Disulfide	7U
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	13U
71-55-6	1, 1, 1-Trichloroethane	7U
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	13U
75-27-4	Bromodichloromethane	7U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7U
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	13U
75-25-2	Bromoform	7U
591-78-6	4-Methyl-2-Pentanone	13U
108-10-1	2-Hexanone	
127-18-4	Tetrachloroethene	7U
79-34-5	1, 1, 2, 2-Tetrachloroethane	
108-88-3	Toluene	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

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.

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.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

horatory Name HTI

a No 5174

Sample Number
EE-340RI.

Organics Analysis Data Sheet
(Page 4)

RECEIVED MAR 3 1 1986
05174

Tentatively Identified Compounds

AS lumber	Compound Name	Fraction	RT or Scan Number	Estimat Conce n (ug/l c ug/k
4	ulbert		5	
—	r Rare			
—				√

2.

5.

10.

15.

20.

23.

25.

28.

30.

Sample Number
EE482

86FC02563

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI

Case No: 5174

Lab Sample ID No: EE482

QC Report No:

Sample Matrix: Soil

Contract No: 68017014

Data Release Authorized By:

Date Sample Received:

Volatile Compounds

Concentration: (Low) Medium (Circle One)

RECEIVED MAR 31 1986

Date Extracted/Prepared: 11/12/85

Date Analyzed: 11/12/85

Conc/Dil Factor: 1.03 pH: 1.60

Percent Moisture: (Not Decanted) 24.8

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	13U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	17B
67-64-1	Acetone	10JB
75-15-0	Carbon Disulfide	7U
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	13U
71-55-6	1, 1, 1-Trichloroethane	7U
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	13U
75-27-4	Bromodichloromethane	7U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7U
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	6J
124-48-1	Dibromochloromethane	7U
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	13U
75-25-2	Bromoform	7U
591-78-6	4-Methyl-2-Pentanone	13U
108-10-1	2-Hexanone	
127-18-4	Tetrachloroethene	7
79-34-5	1, 1, 2, 2-Tetrachloroethane	7U
108-88-3	Toluene	12
108-90-7	Chlorobenzene	7U
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

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.

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.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: [illegible]

Case No: 5174

Sample Number: EE-482

Organics Analysis Data Sheet
(Page 2)

05174

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11/7/85

Date Analyzed: 11/18/85

Conc./Dil Factor: 0.625

Percent Moisture (Decanted) _____

GPC Cleanup ☑Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

RECEIVED MAR 3 1 1986

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	21,000 U
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1,3-Dichlorobenzene	
106-46-7	1,4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1,2-Dichlorobenzene	11000 J
95-48-7	2-Methylphenol	21,000 U
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	18000 J
78-59-1	Isophorone	21000
88-75-5	2-Nitrophenol	21,000 U
105-67-9	2,4-Dimethylphenol	
65-85-0	Benzoic Acid	110,000 U
111-91-1	bis(2-Chloroethoxy)Methane	21,000 U
120-83-2	2,4-Dichlorophenol	
120-82-1	1,2,4-Trichlorobenzene	
91-20-3	Naphthalene	17000 J
106-47-8	4-Chloroaniline	21000 U
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	290000
77-47-4	Hexachlorocyclopentadiene	21,000 U
88-06-2	2,4,6-Trichlorophenol	
95-95-4	2,4,5-Trichlorophenol	110,000 U
91-58-7	2-Chloronaphthalene	21,000 U
88-74-4	2-Nitroaniline	110,000 U
131-11-3	Dimethyl Phthalate	12000 J
208-96-8	Acenaphthylene	21,000 U
99-09-2	3-Nitroaniline	110,000 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	21,000 U
51-28-5	2,4-Dinitrophenol	110,000 U
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	21,000 U
121-14-2	2,4-Dinitrotoluene	
606-20-2	2,6-Dinitrotoluene	
84-66-2	Diethylphthalate	21,000 U
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	110000 U
534-52-1	4,6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	21,000 U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	110000 U
85-01-8	Phenanthrene	21000
120-12-7	Anthracene	21,000 U
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	17000 J
91-94-1	3,3'-Dichlorobenzidine	42,000 U
56-55-3	Benzo(a)Anthracene	21,000 U
117-81-7	bis(2-Ethylhexyl)Phthalate	120000 B
218-01-9	Chrysene	21,000 U
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1,2,3-cd)Pyrene	
53-70-3	Dibenz(a,h)Anthracene	
191-24-2	Benzo(g,h,i)Perylene	

(1)-Cannot be separated from diphenylamine

Laboratory Name ATI

Case No 5174

Sample Number EE482

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 7 NOV. 85

Date Analyzed: 23 NOV. 85

Conc/Dil Factor: 0.0625

Percent Moisture (decanted) _____

GPC Cleanup ☑Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

RECEIVED MAR 3 1 1986

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	11u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	22u
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	110u
53494-70-5	Endrin Ketone	22u
57-74-9	Chlordane	110u
8001-35-2	Toxaphene	220u
12674-11-2	Aroclor-1016	110u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	220u
11096-82-5	Aroclor-1260	

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 30.6 V_t 20000 V_i 2

aboratory Name: AIT

No: 5174

Sample Number: EE482

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

RECEIVED MAR 3 1 1986

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or
75-69-	Trichlor nano	VOA	235	21J
			2	
7-1	1			26J

5.

10.

15.

18.

20.

23.

25.

5.

7.

28.

9.

0.

aboratory Name AYI

No 5174

Sample Number EE-482

Organics Analysis Data Sheet
(Page 4)

05174

Tentatively Identified Compounds

RECEIVED MAR 3 1 1986

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimate Conc ration (ug/l r ug/k
—			388	
—			1	
—			338	
—				
—			—	
5.				
1 [illegible]	158		1 62	
—				5
—				25
—	Arem			2 000
10. 108-21-	1 M			37800
110-12-3	5 —		406	31500
—			456	4100J
—	sti nl		2	3J
—			59	4100J
—			78	14 00J
—			5	6300J
—	alkane		1070	25200J
—			10 9	16800J
—			1286	50400J
20. —	alkane		1 6	44100
1. —	alkane		620	00J
2. —	kane		92	35700J
23. -89-5 7	o-4H LH nido 12-A:1'2'-F		75	1900J
4. —	al in id		1876	14700J
5. —	[illegible]		2022	48300
6.				
7.				
28.				
9.				
30.				

Sample Number
EE482RI.

Organics Analysis Data Sheet
(Page 1)

05174

Laboratory Name: ATI
Lab Sample ID No: EE482 R.I.
Sample Matrix: Soil
Data Release Authorized By:

Case No: 5174
QC Report No: —
Contract No: 68017014
Date Sample Received: 11/6/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/26/85
Date Analyzed: 11/26/85
Conc/Dil Factor: 1 pH 1.60
Percent Moisture: (Not Decanted) 24.8

RECEIVED MAR 3 1 1986

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	13U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	53B
67-64-1	Acetone	67
75-15-0	Carbon Disulfide	7U
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	13U
71-55-6	1, 1, 1-Trichloroethane	7U
56-23-5	Carbon Tetrachloride	7U
108-05-4	Vinyl Acetate	13U
75-27-4	Bromodichloromethane	7U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7U
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	7U
71-43-2	Benzene	7U
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	13U
75-25-2	Bromoform	7U
108-10-1	4-Methyl-2-Pentanone	13U
591-78-6	2-Hexanone	
127-18-4	Tetrachloroethene	7U
79-34-5	1, 1, 2, 2-Tetrachloroethane	8
108-88-3	Toluene	7U
108-90-7	Chlorobenzene	7U
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

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.

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

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

aboratory Name A11

e No 5174

Sample Number EE482KF.

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

RECEIVED MAR 3 1 1986

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or
75-69-	Me -Trich no luoro	VOA	23	9 J
—	Dibromoe isomer	↓	543	8 J

2.

5.

10.

15.

20.

23.

25.

28.

30.

Sample Number
EE-483
86FC02564

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Case No: 5174
Lab Sample ID No: EE-483
QC Report No: —
Sample Matrix: Soil
Contract No: 68017014
Data Release Authorized By:
Date Sample Received: 11-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)
05174
Date Extracted/Prepared: 11/12/85
Date Analyzed: 11-12-85
Conc/Dil Factor: 1 pH 5.95
Percent Moisture: (Not Decanted) 20.5

RECEIVED MAR 3 1 1986

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	12U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	22
67-64-1	Acetone	12U
75-15-0	Carbon Disulfide	6U
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	8
107-06-2	1, 2-Dichloroethane	6U
78-93-3	2-Butanone	12U
71-55-6	1, 1, 1-Trichloroethane	15
56-23-5	Carbon Tetrachloride	6U
108-05-4	Vinyl Acetate	12U
75-27-4	Bromodichloromethane	6U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	6U
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	64
124-48-1	Dibromochloromethane	6U
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	12U
75-25-2	Bromoform	6U
591-78-6	4-Methyl-2-Pentanone	12U
108-10-1	2-Hexanone	
127-18-4	Tetrachloroethene	160
79-34-5	1, 1, 2, 2-Tetrachloroethane	6U
108-88-3	Toluene	3J
108-90-7	Chlorobenzene	6U
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

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.

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.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

Laboratory Name ATI

Case No 5174

Sample Number EE-483

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

05174

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11/12/85

Date Analyzed 11/18/85

Conc./Dil Factor: 1

Percent Moisture (Decanted) —

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

RECEIVED MAR 31 1986

CAS Number		ug/l or ug/Kg (Circle One)
1[illegible]8-95-2	Phenol	13000U
111-44-4	bis(-2-Chloroethyl)Ether	
9[illegible]-57-8	2-Chlorophenol	
[illegible]1-73-1	1 3-Dichlorobenzene	
106-46-7	1 4-Dichlorobenzene	
[illegible]0-51-6	Benzyl Alcohol	
[illegible]-50-1	1 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
[illegible]638-32-9	bis(2-chloroisopropyl)Ether	
[illegible]6-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
[illegible]-72-1	Hexachloroethane	
[illegible]8-95-3	Nitrobenzene	
78-59-1	Isophorone	✓67000
[illegible]8-75-5	2-Nitrophenol	13000U
[illegible]05-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	650,000U
[illegible]11-91-1	bis(-2-Chloroethoxy)Methane	13000U
[illegible]20-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
[illegible]-20-3	Naphthalene	✓8600J
[illegible]06-47-8	4-Chloroaniline	13000U
87-68-3	Hexachlorobutadiene	
[illegible]9-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	✓130000
77-47-4	Hexachlorocyclopentadiene	13000U
[illegible]8-06-2	2, 4, 6-Trichlorophenol	
[illegible]5-95-4	2, 4, 5-Trichlorophenol	650,000U
[illegible]1-58-7	2-Chloronaphthalene	13000U
[illegible]8-74-4	2-Nitroaniline	650,000U
131-11-3	Dimethyl Phthalate	13000U
[illegible]08-96-8	Acenaphthylene	
[illegible]9-09-2	3-Nitroaniline	650000U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	13000U
51-28-5	2, 4-Dinitrophenol	650000U
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	13000U
121-14-2	2 4-Dinitrotoluene	
606-20-2	2 6-Dinitrotoluene	✓
84-66-2	Diethylphthalate	13000U
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	650000U
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	13000U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	✓650000U
85-01-8	Phenanthrene	13000U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	✓8500J
206-44-0	Fluoranthene	13000U
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3 3'-Dichlorobenzidine	26000U
56-55-3	Benzo(a)Anthracene	13000U
117-81-7	bis(2-Ethylhexyl)Phthalate	✓23000
218-01-9	Chrysene	13000U
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Laboratory Name ATI

Case No 5174

Sample Number EE483

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

RECEIVED MAR 3 1 1986

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12 Nov. 85

Date Analyzed: 24 Nov. 85

Conc/Dil Factor: 1.0

Percent Moisture (decanted) _____

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	140u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	280u
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	1400u
53494-70-5	Endrin Ketone	280u
57-74-9	Chlordane	1400u
8001-35-2	Toxaphene	2800u
12674-11-2	Aroclor-1016	1400u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	4600
12672-29-6	Aroclor-1248	1400u
11097-69-1	Aroclor-1254	2800u
11096-82-5	Aroclor-1260	2100

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 1.1 V_t 10000 V_i 2

Laboratory Name: HII

Case No: 5174

Sample Number: EE-483

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds RECEIVED MAR 3 1986

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
—	Alkane	VOA	406	4J
2. —	Unknown		552	4J
—	Alkane		608	6J
—	Alkane		646	4J
5. 75-69-4	Methane, trichlorofluoro		234	29J
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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30.				

oratory Name 491

e No 5174

Sample Number
EE-483

Organics Analysis Data Sheet
(Page 4)

05174

Tentatively Identified Compounds

RECEIVED MAR 3 1 1986

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
—	Xylene	BNA	375	5200 J
—	Xylene		390	35000 J
—	Xylene		432	22000 J
—	Ethylmethylbenzene		552	5200 J
—	C_9H_{12} (Trimethyl benzene)		563	6500 J
—	Ketone		570	3900 J
—	Unknown		692	6500 J
—	Substituted benzene		707	6500 J
—	Unknown Polynuclear Aromatic		982	3900 J
—	Substituted alkane		1094	6500 J
—	Substituted alkane		1192	7800 J
—	Carboxylic acid		1286	60000 J
—	Alkane		1380	76000 J
10544-50-0	Sulfur		1655	62000 J
—	Substituted phenanthrene		1867	7800 J
—	Carboxylic acid	↓	2108	23000 J

Sample Number
EE483 R.I

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Case No: 5174
Lab Sample ID No: EE483 R.I.
QC Report No:
Sample Matrix: Soil
Contract No: 68017014
Data Release Authorized By: ✓
Date Sample Received: 11/6/85

Volatile Compounds

Concentration: Low Medium (Circle One)
RECEIVED MAR 3 1 1986
Date Extracted/Prepared: 11/26/85
Date Analyzed: 11/26/85
Conc/Dil Factor: 1 pH 5.95
Percent Moisture: (Not Decanted) 20.5

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	13U
74-83-9	Bromomethane	↓
75-01-4	Vinyl Chloride	↓
75-00-3	Chloroethane	↓
75-09-2	Methylene Chloride	100B
67-64-1	Acetone	180
75-15-0	Carbon Disulfide	7U
75-35-4	1, 1-Dichloroethene	↓
75-34-3	1, 1-Dichloroethane	↓
156-60-5	Trans-1, 2-Dichloroethene	↓
67-66-3	Chloroform	7U
107-06-2	1, 2-Dichloroethane	7U
78-93-3	2-Butanone	13U
71-55-6	1, 1, 1-Trichloroethane	7U
56-23-5	Carbon Tetrachloride	7U
108-05-4	Vinyl Acetate	13U
75-27-4	Bromodichloromethane	7U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7U
10061-02-6	Trans-1, 3-Dichloropropene	↓
79-01-6	Trichloroethene	160
124-48-1	Dibromochloromethane	7U
79-00-5	1, 1, 2-Trichloroethane	7U
71-43-2	Benzene	7U
10061-01-5	cis-1, 3-Dichloropropene	↓
110-75-8	2-Chloroethylvinylether	13U
75-25-2	Bromoform	7U
108-10-1	4-Methyl-2-Pentanone	13U
591-78-6	2-Hexanone	↓
127-18-4	Tetrachloroethene	440
79-34-5	1, 1, 2, 2-Tetrachloroethane	7U
108-88-3	Toluene	↓
108-90-7	Chlorobenzene	7U
100-41-4	Ethylbenzene	7U
100-42-5	Styrene	↓
	Total Xylenes	↓

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.

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

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

L oratory Name ATI

C e No 5174

Sample Number EE483K.I

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

RECEIVED MAR 3 1 1986

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
	75-69-4	Methane, Trichlorofluoro	VOA	237	37J
2.	—	Unknown	↓	431	28J
3.	—	an Alkane	↓	553	250J
4.					
5.					
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Sample Number
EE-484
86FC02565

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Case No: 5174
Lab Sample ID No: EE-484
QC Report No: —
Sample Matrix: Soil
Contract No: 68017014
Data Release Authorized By:
Date Sample Received: 11-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)
RECEIVED MAR 31 1986
Date Extracted/Prepared: 11/12/85
Date Analyzed: 11-12-85
Conc/Dil Factor: 1 pH 8.35
Percent Moisture: (Not Decanted) 8.8

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

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

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.

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.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

Laboratory Name 471

Case No 5174

Sample Number EE-484

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

05174

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 11/7/85

Date Analyzed 11/18/85

Conc./Dil Factor 0.625

Percent Moisture (Decanted)

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	17000 U
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1,3-Dichlorobenzene	
106-46-7	1,4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1,2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2,4-Dimethylphenol	
65-85-0	Benzoic Acid	85000 U
111-91-1	bis(2-Chloroethoxyl)Methane	17000 U
120-83-2	2,4-Dichlorophenol	
120-82-1	1,2,4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2,4,6-Trichlorophenol	
95-95-4	2,4,5-Trichlorophenol	85000 U
91-58-7	2-Chloronaphthalene	17000 U
88-74-4	2-Nitroaniline	85000 U
131-11-3	Dimethyl Phthalate	17000 U
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	85000 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	17000 U
51-28-5	2,4-Dinitrophenol	85000 U
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	17000 U
121-14-2	2,4-Dinitrotoluene	
606-20-2	2,6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	85000 U
534-52-1	4,6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	17000 U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	85000 U
85-01-8	Phenanthrene	17000 U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	6800 J
129-00-0	Pyrene	6800 J
85-68-7	Butylbenzylphthalate	17000 U
91-94-1	3,3'-Dichlorobenzidine	34000 U
56-55-3	Benzo(a)Anthracene	17000 U
117-81-7	bis(2-Ethylhexyl)Phthalate	22000 B
218-01-9	Chrysene	17000 U
117-84-0	Di-n-Octyl Phthalate	20000
205-99-2	Benzo(b)Fluoranthene	5800 J
207-08-9	Benzo(k)Fluoranthene	17000 U
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1,2,3-cd)Pyrene	
53-70-3	Dibenz(a,h)Anthracene	
191-24-2	Benzo(g,h,i)Perylene	

(1)-Cannot be separated from diphenylamine

Laboratory Name ATI

Case No 5174

Sample Number EE484

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 7 NOV. 85

Date Analyzed 23 NOV. 85

Conc/Dil Factor: 0.625

Percent Moisture (decanted) _____

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	9.2u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	18u
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	92u
53494-70-5	Endrin Ketone	18u
57-74-9	Chlordane	92u
8001-35-2	Toxaphene	180u
12674-11-2	Aroclor-1016	92u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	180u
11096-82-5	Aroclor-1260	

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 30.6 V_t 20000 V_i 2

aboratory Name MII

No 5174

Sample Number
EE-484

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

05174

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CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
—	Unknown	VOA	236	2J
—	an Alkane	VOA	555	4J
2.				
5.				
10.				
15.				
20.				
23.				
25.				
28.				

Laboratory Name: ATI

Case No: 5174

Sample Number: EE-484

Organics Analysis Data Sheet
(Page 4)

05174

Tentatively Identified Compounds

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CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
—	Unknown	BNA	348	49000 ✓
—	Unknown		398	99,000 ✓
110-12-3	2-hexanone, 5-methyl		412	14000 ✓
—	Unknown		500	29000 ✓
—	Ketone		566	14000 ✓
—	Ketone		308	6800 ✓B
—	Ketone		519	5100 ✓
—	Carboxylic acid		1586	(6800) ✓
—	Unknown Phthalate		2056	8500
—	Unknown Phthalate		2063	6800 ✓
34A8-21-3	1,2-benzenedicarboxylic acid, dihexyl ester		2170	8500 ✓
—	Unknown Phthalate		2217	17000 ✓

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

Date Received for Review: 1-9-86 Date Review Completed: 1-13-86

To: Dave Curnock

From: Cynthia Pugh / Suzanne Kozlowski

Subject: U.S. Scrap Illinois R05-8303-01E

Sample Description: Case # 5174 6 low soil metals analyses and CN^-

Project Data Status: waiting for organics

FIT Data Review Findings: See attached CRL review.
CN^- data is unusable. Data acceptable for use. See notes on sample MEG 172 page.

Additional Comments:

Book No. 5
Page No. 64

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 12-27-85

T: Review of Region V CLP Data
Received for Review on 12/6/85

F M: Curtis Ross, Director (5SCRL)
Central Regional Laboratory Jay Thakker

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O: Data User: Jit

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

SITE NAME: U.S. Scrap SMO Case No. 5174

EPA Data Set No. SF 2784 No. of Samples: 6 D.U./Activity Numbers Y9051 C48500

CRL No. 86FC02560 - 86FC02565

SMO Traffic No. MEG172-MEG175; MEE208-MEE209

CLP Laboratory: Weyerhauser Hrs. Required for Review: 15 hrs

Following are our findings.

This review covers analysis of six low level soils for total metals and CN^-. Resubmitted Form I's and easier to read raw data, plus correctly marked analytes on some samples held up the review. Cr should not "E" for serial dilution. Spike recovery for Sb (60%) and Hg (11%) is biased low. RPD is above CRL for Al (31), Hg (23), and Zn (26). Contractor reported spike added on Form V in mg/kg units, which are different numbers than the required concn. to be added, listed in contract, since Contract calls for ppb, but they are correct. Sb uses CRDL rather than IDL to report less than values for samples Ag + Sn are calculated to other detection limits than reported. Cn^- does not list a detection limit. Many values of analytes below detectection are bracketed as well as placing a "U" after the value.

( ) Data are acceptable for use. This is a new lab, unfamiliar with Contrac.
(X) Data are acceptable for use with qualifications noted above. 12-26-85
( ) Data are preliminary - pending verification by Contractor Laboratory. DM
( ) Data are unacceptable.

→ CN^- is overdue. Void all results.

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

FORM 1320-6 (REV 3-78)

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

Date: 11/6/85

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name Weyerhaeuser Case No. 5174
SOW No. 784 QC Report No. 12912

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MEG 172	75702		
MEG 173	75703		
MEG 174	75704		
MEG 175	75705		
MEE 208	75706		
MEE 209	75707		

30-LS

Comments: Total metals, cyanide
Last three digits of Lab ID No used in RAW DATA.
E on Cr. due to matrix interference (14% difference)
RAW data includes information from other cases.

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 analytical methods used with P (for ICP/Flame AA) or F (for furnace) (cold vapor = c).
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 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.
* - Indicates duplicate analysis is not within control limits.
+ - Indicates the correlation coefficient for method of standard addition is less than 0.995.

In Reference to Case No(s): 5174

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 12/17/85

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Laboratory Name: Weyerhaeuser

Lab Contact: Mr Shelton

Region: 5

Regional Contact: Dorothy

Call Initiated By: ___ Laboratory X Region

In reference to data for the following sample number(s):

Summary of Questions/Issues Discussed: Request from Region

Please correct Forms 1 A) Remove Brackets on Values with U B) * all aluminum and Bracket Ba for sample MEG 172, MEG 173 C) Poor copies ICP data

Summary of Resolution:

Cont corrections 12/17/85

Mike Shelton
Signature

12/17
Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

Form I

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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. MEG 172

Date: 11/26/85

INORGANIC ANALYSES DATA SHEET

Lab Name Weyerhaeuser Case No. 5174

SOW No. 784

Lab Sample ID No. 75702 QC Report No. 12992

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

µg/L or mg/kg dry weight (Circle One)

1.	Aluminum	4390 *	P	13.	Magnesium	4190	P
2.	Antimony	40U R	P	14.	Manganese	114	P
3.	Arsenic	14	F	15.	Mercury	1.4 R *	C
4.	Barium	[84]	P	16.	Nickel	[24]	P
5.	Beryllium	2.6U	P	17.	Potassium	[1030]	P
6.	Cadmium	[3.8]	P	18.	Selenium	[3U]	F
7.	Calcium	8420	P	19.	Silver	2.6U	P
8.	Chromium	44 E	P	20.	Sodium	[229]	P
9.	Cobalt	[22]	P	21.	Thallium	[3]	F
10.	Copper	40	P	22.	Tin	13U	P
11.	Iron	30700	P	23.	Vanadium	[20]	P
12.	Lead	438	P	24.	Zinc	625 *	P

Cyanide 0.64U Percent Solids (%) 75.5

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: ✓ are toxic metals
O are hits
F, P & C are methods of analyses used
[x] less than x
R indicates low spike recovery (no effect on soil results)
* indicates relative % difference above CRDL limits

Lab Manager [signature]

Form I

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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. MEG 173

Date: 11/26/85

INORGANIC ANALYSES DATA SHEET

Lab Name Weyerhaeuser Case No. 5174

SOW No. 784

Lab Sample ID No. 75703 QC Report No. 12992

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

µg/L or mg/kg dry weight (Circle One)

1.	Aluminum	3180 *	P	13.	Magnesium	[742]	P
2.	Antimony	354 R	P	14.	Manganese	22	P
3.	Arsenic	7.9	F	15.	Mercury	0.21 R *	C
4.	Barium	[38]	P	16.	Nickel	12	P
5.	Beryllium	2.34	P	17.	Potassium	[1040]	P
6.	Cadmium	[1.1]	P	18.	Selenium	34	F
7.	Calcium	[1410]	P	19.	Silver	2.34	P
8.	Chromium	13 E	P	20.	Sodium	[267]	P
9.	Cobalt	[2.7]	P	21.	Thallium	24	F
10.	Copper	40	P	22.	Tin	124	P
11.	Iron	19200	P	23.	Vanadium	[18]	P
12.	Lead	254	P	24.	Zinc	77 *	P
	Cyanide	0.604			Percent Solids (%)	82.0	

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: see notes on sample page MEG 172

Lab Manager [signature]

004

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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. MEG 174

Date: 11/26/85

INORGANIC ANALYSES DATA SHEET

Lab Name Weyerhaeuser Case No. 5174

SOW No. 784

Lab Sample ID No. 75704 QC Report No. 12992

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

µg/L or mg/kg dry weight (Circle One)

1.	Aluminum	4500 *	P	13.	Magnesium	[724]	P
2.	Antimony	374 R	P	14.	Manganese	27	P
3.	Arsenic	12	F	15.	Mercury	0.29 R*	C
4.	Barium	[76]	P	16.	Nickel	[14]	P
5.	Beryllium	2.4U	P	17.	Potassium	[1120]	P
6.	Cadmium	[1.8]	P	18.	Selenium	3U	F
7.	Calcium	[1910]	P	19.	Silver	2.4U	P
8.	Chromium	21 E	P	20.	Sodium	[158]	P
9.	Cobalt	[3.2]	P	21.	Thallium	2U	F
10.	Copper	20	P	22.	Tin	[12]	P
11.	Iron	13500	P	23.	Vanadium	[19]	P
12.	Lead	264	P	24.	Zinc	90 *	P
	Cyanide	8.9			Percent Solids (%)	78.6	

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: see notes on sample page MEG 172

Lab Manager [signature]

005

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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. MEG 175

Date: 11/26/85

INORGANIC ANALYSES DATA SHEET

Lab Name Weyerhaeuser Case No. 5174

SOW No. 784

Lab Sample ID No. 75705 QC Report No. 12992

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

µg/L or mg/kg dry weight (Circle One)

1.	Aluminum	3750 *	P	13.	Magnesium	[624]	P
2.	Antimony	404 R	P	14.	Manganese	28	P
3.	Arsenic	20	F	15.	Mercury	0.17 R*	C
4.	Barium	[70]	P	16.	Nickel	[18]	P
5.	Beryllium	.264	P	17.	Potassium	[1800]	P
6.	Cadmium	3.4	P	18.	Selenium	.34	F
7.	Calcium	12 900	P	19.	Silver	2.64	P
8.	Chromium	12 E	P	20.	Sodium	[280]	P
9.	Cobalt	[3.3]	P	21.	Thallium	24	F
10.	Copper	26	P	22.	Tin	134	P
11.	Iron	33 600	P	23.	Vanadium	[21]	P
12.	Lead	178	P	24.	Zinc	295 *	P
Cyanide		0.644		Percent Solids (%)		75.4	

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: see notes on sample page MEG172

Lab Manager [signature]

006

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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. MEE 208

Date: 11/26/85

INORGANIC ANALYSES DATA SHEET

Lab Name Weyerhaeuser Case No. 5174

SOW No. 784

Lab Sample ID No. 75706 QC Report No. 12992

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

µg/L or mg/kg dry weight (Circle One)

1.	Aluminum	6390 *	P	13.	Magnesium	[2270]	P
✓2.	Antimony	364 R	P	14.	Manganese	91	P
✓3.	Arsenic	14	F	✓15.	Mercury	0.43 R*	C
4.	Barium	123	P	✓16.	Nickel	29	P
✓5.	Beryllium	2.44	P	17.	Potassium	[1590]	P
✓6.	Cadmium	[2.8]	P	✓18.	Selenium	[34]	F
7.	Calcium	5890	P	✓19.	Silver	2.44	P
✓8.	Chromium	72 E	P	20.	Sodium	[158]	P
✓9.	Cobalt	[13]	P	✓21.	Thallium	[24]	F
✓10.	Copper	31	P	✓22.	Tin	13	P
11.	Iron	24 300	P	✓23.	Vanadium	[24]	P
✓12.	Lead	398	P	24.	Zinc	399 *	P
Cyanide		3.3		Percent Solids (%)		79.6	

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: see notes on sample page MEG172

Lab Manager Steve Vincent

Form I

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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. MEE 209

Date: 11/26/85

INORGANIC ANALYSES DATA SHEET

Lab Name Weyerhaeuser Case No. 5174

SOW No. 784

Lab Sample ID No. 75707 QC Report No. 12992

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water ____ Soil X Sludge ____ Other ____

µg/L or mg/kg dry weight (Circle One)

1.	Aluminum	2750 *	P	13.	Magnesium	40 000	P
2.	Antimony	304 R	P	14.	Manganese	503	P
3.	Arsenic	6.0	F	15.	Mercury	0.054 R*	C
4.	Barium	[72]	P	16.	Nickel	[12]	P
5.	Beryllium	2.04	P	17.	Potassium	[565]	P
6.	Cadmium	[1.2]	P	18.	Selenium	[34]	F
7.	Calcium	89 100	P	19.	Silver	2.04	P
8.	Chromium	7.9 E	P	20.	Sodium	[293]	P
9.	Cobalt	[5.7]	P	21.	Thallium	[24]	F
10.	Copper	18	P	22.	Tin	104	P
11.	Iron	18 600	P	23.	Vanadium	[15]	P
12.	Lead	339	P	24.	Zinc	127 *	P

Cyanide 0.534 Percent Solids (%) 91.7

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: see notes on sample page MEG 172

Lab Manager [signature]

008

L oratory Name ATL

C e No 5174

Sample Number EE 338 R1

Organics Analysis Data Sheet
(Page 4)

05174

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
—	Unknown	VOA	777	7 J
—	Unknown		548	5 J
—	Alkane		604	5 J
—	Alkane		642	7 J
—	Xylene		915	8 J *
—	Xylene		943	7 J *
	* TIC values entered in HSL list for total xylenes			

RECEIVED MAR 3 1 1986

Sample Number
EE-339

86FC02561
05174

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Lab Sample ID No: EE-339
Sample Matrix: Soil
Data Release Authorized By:

Case No: 5174
QC Report No: —
Contract No: 68017014
Date Sample Received: 11-6-85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/12/85
Date Analyzed: 11-12-85
Conc/Dil Factor: 1.03 pH 2.15
Percent Moisture: (Not Decanted) 18.4

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	12U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	7B
67-64-1	Acetone	8J
75-15-0	Carbon Disulfide	6U
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	31B
107-06-2	1, 2-Dichloroethane	6U
78-93-3	2-Butanone	12U
71-55-6	1, 1, 1-Trichloroethane	6U
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	12U
75-27-4	Bromodichloromethane	6U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	6U
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	3J
124-48-1	Dibromochloromethane	6U
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	12U
75-25-2	Bromoform	6U
591-78-6	4-Methyl-2-Pentanone	12U
108-10-1	2-Hexanone	
127-18-4	Tetrachloroethene	6U
79-34-5	1, 1, 2, 2-Tetrachloroethane	
108-88-3	Toluene	3J
108-90-7	Chlorobenzene	6U
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

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.

RECEIVED MAR 31 1986

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.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name ATi

Case No 5174

Sample Number EE 338

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

RECEIVED MAR 3 1 1986

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12 NOV. 85

Date Analyzed: 23 NOV. 85

Conc/Dil Factor: 1.0

Percent Moisture (decanted) _____

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	160u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	320u
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	1600u
53494-70-5	Endrin Ketone	320u
57-74-9	Chlordane	1600u
8001-35-2	Toxaphene	3200u
12674-11-2	Aroclor-1016	1600u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	3200u
11096-82-5	Aroclor-1260	

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 1.0 V_t 10000 V_i 2

boratory Name ATI

ise No 5174

Sample Number
EE 338

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

05174

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	7569-4	Methane, Trichloro	VOA	240	9J
2.	—	alkane		564	7J
3.	—	alkane		620	13J
4.	—	alkane		660	25J
5.	—	alkane		675	26J
6.					
7.					
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OHD000600

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L oratory Name ATI

C e No 5174

05174

Sample Number EE-338

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
—	Xylene	BNA	421	157000 J
2. —	Xylene		458	69000 J
3. —	Substituted benzene (C_9H_{12})		611	31000 V
4. —	Alkane		758	23000 J
5. —	Carboxylic acid		1588	21000 J
6. 10544-50-0	Sulfur, Mol (S8)		1654	113000 J
7. —	Xylene		407	30000 J
8. —	Alkane		477	7800 J
9. —	Unknown		554	6500 J
10. —	C_9H_{12} (ethyl methyl benzene)		566	14000 J
11. —	Substituted benzene		576	14000 J
12. —	C_9H_{12} (trimethyl benzene)		651	12000 J
13. —	Substituted benzene		712	9100 J
14. —	Alkane		878	3900 J
15. —	Alkane		1155	3900 J
16. —	Carboxylic acid		1285	6500 J
17. —	Alkane		1380	21000 J
18. —	DFTPP degradation product		1746	3900 J
19. —	Carboxylic acid		1735	7800 J
20. —	Alkane		2082	5200 J
21. —	Carboxylic acid		2110	12000 J
22. —	Alkane		2161	21000 J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

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Sample Number
EE 338 R1

Organics Analysis Data Sheet
(Page 1)

05174

Laboratory Name: ATI
Lab Sample ID No: EE338R1
Sample Matrix: Soil
Data Release Authorized By:

Case No: 5174
QC Report No: —
Contract No: 68017014
Date Sample Received: 11/6/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/18/85
Date Analyzed: 11/18/85
Conc/Dil Factor: 1 pH 5.50
Percent Moisture: (Not Decanted) 23.8

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	13U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	39 B
67-64-1	Acetone	11 B
75-15-0	Carbon Disulfide	7U
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	4J
107-06-2	1, 2-Dichloroethane	7U
78-93-3	2-Butanone	13U
71-55-6	1, 1, 1-Trichloroethane	7U
56-23-5	Carbon Tetrachloride	7U
108-05-4	Vinyl Acetate	13U
75-27-4	Bromodichloromethane	7U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	7U
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	13U
75-25-2	Bromoform	7U
108-10-1	4-Methyl-2-Pentanone	13U
591-78-6	2-Hexanone	
127-18-4	Tetrachloroethene	7U
79-34-5	1, 1, 2, 2-Tetrachloroethane	
108-88-3	Toluene	5
108-90-7	Chlorobenzene	7U
100-41-4	Ethylbenzene	8
100-42-5	Styrene	7U
	Total Xylenes	15

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