INSPECTION REPORT

FOR

J.J. SCHULTZ CONTAINER

LEMONT, IL

ILD096776547

R05-8410-05

NOVEMBER 4, 1985

EPA Region 5 Records Ctr.

343486

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

MEMORANDUM

DATE: November 4, 1985
TO: File
FROM: Dave Curnock DC
SUBJECT: Illinois/R05-8410-01/IL0303
Lemont/J.J. Schultz Container
ILD096778547

J. J. Schultz Container was a drum cleaning and transfer facility located near the Sanitary and Ship Canal south of Lemont, Illinois. The facility would accept empty drums, clean and then sell the drums to larger recycling operations. In 1980, over two thousand drums were reported to have been on the one acre site.

The washwater from the cleaning process was channelled off into a 5'x5'x5' unlined pit located in what is now a parking/driveway area (see Drawing I). Operations ceased in the early 1980's and the property was sold to RAL Construction in 1983.

There were no drums onsite when RAL began operations. The washwater disposal pit had been filled in also. RAL currently uses the facility for constructing and storage of highway signs.

The facility became a candidate for FIT involvement via a Preliminary Assessment submitted to the USEPA by the Illinois EPA.

On May 1, 1985, the facility was inspected by FIT. Representatives of RAL Construction were in attendance, however, there was no representative for J. J. Schultz Container. During the inspection five composite soil samples were collected (see Drawing I for locations). These samples were taken to help characterize the

potentially hazardous materials that were brought to the site during the drum cleaning and transfer operations by Schultz.

Due to laboratory problems, the acid-base-nuetral organic analysis data is unacceptable. The volatile organic values are qualitative only, the quantities are estimated. The pesticide and metals analysis are acceptable.

Samples 1 and 2 were taken onsite while 3 and 4 were taken adjacent to the site in an area that been previously used for disposal of drums and refuse. Sample 5 was a background sample for comparative purposes. Sample 1 revealed elevated levels of barium, chromium and mercury compared to the background sample. Samples 3 and 4 showed elevated levels of barium and chromium also. Sample 3 also elicited 68,000 ppb of PCB (araclor). Although lead was prevalent in samples 1,3 and 4, the laboratory spike recovery was out of the control limits for acceptable data.

Sample	Barium ----	Mercury mg/kg	Chromium ----	Lead ----	PCB (araclor) ug/l
1 (Onsite)	306	84	217	824R*	ND
2 (Onsite)	83	1.0	79	140R	ND
3 (Offsite)	245	0.24	116	7880R	68,000
4 (Offsite)	357	0.06U**	199	1760R	ND
5 (Background)	75	0.06U	19	106R	ND

*R - Spike recovery out of control limits, data questionable.
**U - Analyzed for but not detected.

The main area of the facility is surrounded by a cyclone fence with a locking gate. There is an earthen berm overgrown with trees and shrubs to the northwest of the site separating it from the Sanitary

and Ship Canal. The site is generally flat with a 1-2% slope to the northwest. The nearest well is approximately 80 feet deep and located at a residence approximately 1000 feet east of the site.

51R:5M

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R5-8410-01
IL-0303

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D096778547

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
J.J. Schultz Container	7. W New Street.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Lemont	IL	60439	Cook	031	16

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
41 39 55.0	088 01 15.0	☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
5 / 1 / 85 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	Unknown / 1983 (BEGINNING YEAR / ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☒ B. EPA CONTRACTOR Ecology + Environment (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
Dan Cozza	Biologist	Ecology + Environment	(312) 663-9415

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Dave Curnock	Biologist	Ecology + Environment	(312) 663-9415
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Ginger Custer	office Manager	RAL Construction Inc 7 W. New Ave Lemont IL 60439	(312) 257-5700
Rick Sisson	foreman	" "	( ) "
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	8:45 Am	overcast, 55-60°

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Brad Benning	Illinois EPA DLPC Maywood	(312) 345-9780

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Dan Cozza / Dave Curnock	—	E&E / FIT	(312) 663-9415	10 / 24 / 85 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D096775547

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

TONS Unknown

CUBIC YARDS _____

NO OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

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

WASTE QUANTITY IS unknown. The site has had the majority of the waste removed. Spillage, Leakage, etc. would constitute the remaining waste onsite. Soil samples of the areas of drum storage and nearby show elevated levels of Cadmium, Chromium, and mercury. Also, PCB's and some pesticides were detected.

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

The site was the former location of a drum cleaner and transfer station but has since been cleaned and is now occupied by a highway construction firm. The only evidence of drums/waste left in the immediate site area is approximately 1/2 dozen rusted 55 gallon drums, and 5 gal pails - all either empty or full of hardened resins. These drums are located just north of the site in question, amongst a wooded area on the bank of the sanitary canal.

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)

On-site inspection 5-1-85 by ETE
SAMPLE ANALYSIS OF SAMPLES TAKEN 5/1/85

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D096778547

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 12,275 — 04 NARRATIVE DESCRIPTION: Site reportedly had an on-site pit to gather wash waters from drum cleaning operations. Site also had hundreds of drums on-site. Site has since been cleaned and no evidence of a pit exists.

01 ☒ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION: Rusted out drums were noted on the shore line of the Illinois and Michigan Canal.

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

N/A

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

N/A

01 ☒ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 2353 (1 mile R) — 04 NARRATIVE DESCRIPTION: The rusted drums are open and their contents are or appear to be hardened resins and paints. The drums + pails are located in a nonfenced area and is accessible but the area is not within a well traveled area.

01 ☒ F. CONTAMINATION OF SOIL — 02 ☒ OBSERVED (DATE 5-1-85) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 1 (Acres) — 04 NARRATIVE DESCRIPTION: Soil samples showed elevated levels of cadmium, mercury and chromium and PCB's.

01 ☒ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 12,275 — 04 NARRATIVE DESCRIPTION: The area surrounding the site aquires its drinkwater from bedrock wells. The potential exists due to alleged poor storage + handling of wastes from the barrel cleaning process. The waste water disposal pit would provide a conduit to shallow ground water. However, proximity to surface water would lessen the potential.

01 ☒ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 6 — 04 NARRATIVE DESCRIPTION: Currently, Deubel/RAL has an office and workshop on the facility. They could easily contact areas of contaminated soil.

01 ☒ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION: The population exposure would be negligible because the drums have been removed and only residual contamination would be present. The site is fenced with a locking gate for security.

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

I. IDENTIFICATION
01 STATE: IL
02 SITE NUMBER: D096778547

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☒ OBSERVED (DATE 5-1-85) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
No DAMAGE noted on the J.J Schultz property — now RAL construction. but patches of soil are weedless within the area around the drums + pails just south of the canal

01 ☒ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
Rusted drums + pails located just south of the canal within a wooded area, Assorted birds and some rabbits were observed within the area near the drums.

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
dependent on J + K above

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids/Leaking drums) — 02 ☒ OBSERVED (DATE 5/1/85) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 12,275
04 NARRATIVE DESCRIPTION
Although "all" wastes were removed during clean up, some contaminated soil still remains onsite. Elevated levels of Cd, Hg and Cr were detected in soil sample (5/1/85)

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Not observed.

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) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Representatives from RAL construction / Dewbel Ind. did not know how or where the rusted out drums + pails, north of their property came from.

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: 12,275

IV. COMMENTS
J.J. Schultz Container was bought by RAL const. + Dewbel in 7/83. The site was reportedly cleaned up by the time the purchase was made. Dewbel + Ral are involved in highway construction, materials and signs

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
on-site inspection and interview by E+E 5-1-85

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D096778547

II. PERMIT INFORMATION NONE

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☒ C. DRUMS, ABOVE GROUND	SEE Comment	
☐ 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 drum reconditioning (Specify)

05 OTHER
- ☒ A. BUILDINGS ON SITE

06 AREA OF SITE: 1 acre (Acres)

07 COMMENTS
The site is now cleared and operated by a highway construction + sign company. But there is evidence of 3-4 dozen 55 gallon rusted out drums and numerous 55 gallon pails to the north of the site. At one time, according to an IEPA site inspection on 7/14/80, as much as 2863 drums existed on the site at one time.

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.
Drums all have been removed from the former J.J. Schultz Container property, but 3-4 dozen drums in a rusted out condition were noted to the north of the property.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS the former J.J. Schultz property - now RAL/Dewbel Ind is completely fenced. The rusted out drums to the north of the property are not within a fenced area

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

On-site inspection by E&E on 5-1-85

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D096778547

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. 1.5 (mi)
NON-COMMUNITY	C. ☐	D. ☒	D. ☐	E. ☐	F. ☐	B. 1000' (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 12,275

03 DISTANCE TO NEAREST DRINKING WATER WELL 1000' (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
60' (ft)	SW	40 - 142 (ft)	1000 gpm (gpd)	☐ YES ☒ NO

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

Closest well is approximately 1000' East of the site and is ~80' deep

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☐ NO	COMMENTS: UNKNOWN	☐ YES ☐ NO	COMMENTS: UNKNOWN

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
Illinois and Michigan Canal	☐	100' (mi)
Des Plaines River	☐	1000' (mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 2353 NO. OF PERSONS	B. 7749 NO. OF PERSONS	C. 12275 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: < 1000' (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: 2039

04 DISTANCE TO NEAREST OFF-SITE BUILDING: < 100' (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)

Area to the east and west of the former J.J. Schultz Container is industrial/commercial area to the north is the Illinois + Michigan Canal, the Chicago Sanitary + Ship Canal and the Des Plaines River. To the south is a growing residential area - unincorporated Lemont

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

I. IDENTIFICATION

01 STATE: IL | 02 SITE NUMBER: D096778547

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

topsoil, clay.

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)

dolomitic limestone

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
10 - 50 (ft)	unknown (ft)	unknown

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
3.0 (in)	2.3 (in)	0-1 %	N-NW	0-1 %

09 FLOOD POTENTIAL: SITE IS IN _____ YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. N/A (mi) OTHER: B. 1/2 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species): unknown (mi)

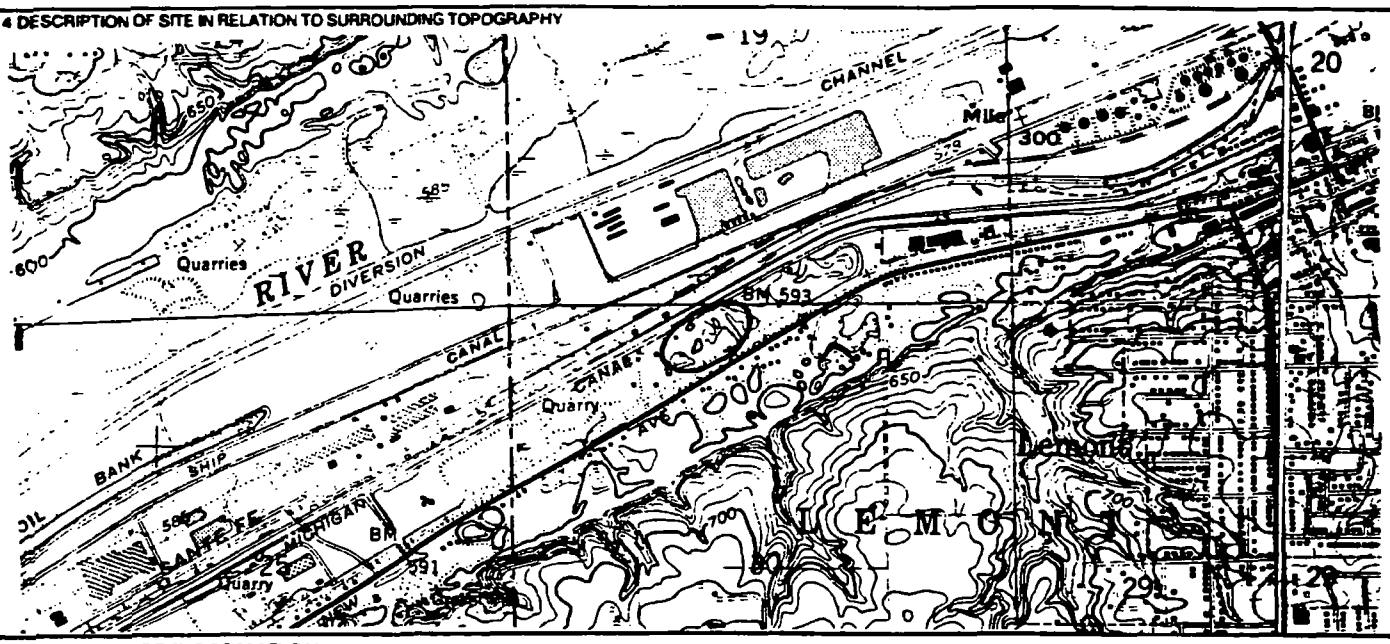
ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. <100' (mi)	B. ~500' (mi)	C. ≥1.0 (mi)	D. ≥1.0 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



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

on-site inspection by E&E-5-1-85
Romeoville, IL 7.5 topographic map 1962 photo revised 1973
HRS USERS MANUAL

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D096778547

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	5	org - Environmental Control Technology Corp. inorg - Rocky Mountain Analytical Labs	Available 9/14/85
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL None

02 IN CUSTODY OF _____ (Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Ecology + Environmental Law files. IEPA ~~EPCD~~ DLPC file

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

No HNU readings above bkg anywhere around the site
10.2 probe used.

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

On-site inspection by ERE on 5-1-85

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D096778547

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
RAL Construction Inc		7 W. New Ave		Lemont	IL	60439

PARENT COMPANY (If applicable)

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

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

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

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

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

On-site inspection and interview by E&E on 5-1-85

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D 096 778 547

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
RAL Construction / Daubel Inc	

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

05 CITY	06 STATE	07 ZIP CODE
Lemont	IL	60439

08 YEARS OF OPERATION	09 NAME OF OWNER
2 1983-Present	Patricia + Richard Low

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
J. J. Schultz Container	

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

05 CITY	06 STATE	07 ZIP CODE
Lemont	IL	60439

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
ended 1983	J. J. Schultz

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

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

on-site inspection by E+E on 5-1-85

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D096728547

II. ON-SITE GENERATOR N/A

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) UNKNOWN

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) UNKNOWN

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

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

E & E onsite Inspection and interview 5-1-85

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D096778547

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 UNKNOWN — 03 AGENCY N/A
04 DESCRIPTION DRUMS WERE REMOVED FROM SITE DURING CLEANUP OPERATIONS by Schultz.

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	D096778547

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ S. CAPPING/COVERING — 02 DATE UNKNOWN — 03 AGENCY N/A
04 DESCRIPTION: OLD PIT WAS FILLED IN DURING CLEAN UP OPERATIONS by Schultz.

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)

E&E/FIT Files, site inspection 5/85

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D096778547

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

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

Notice of Violation served by Chicago Sanitary District for: Discharging of effluent that contains excessive amounts of chromium, nickel, lead, zinc, fats, oil and grease into water under jurisdiction of the MSD. 6-17-80

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

E&E FIT Files

EPA FORM 2070-13 (7-81)

J.J. Schultz Container 05-8410-01 ILO303

Immediate Removal Action Check Sheet ILD096776547

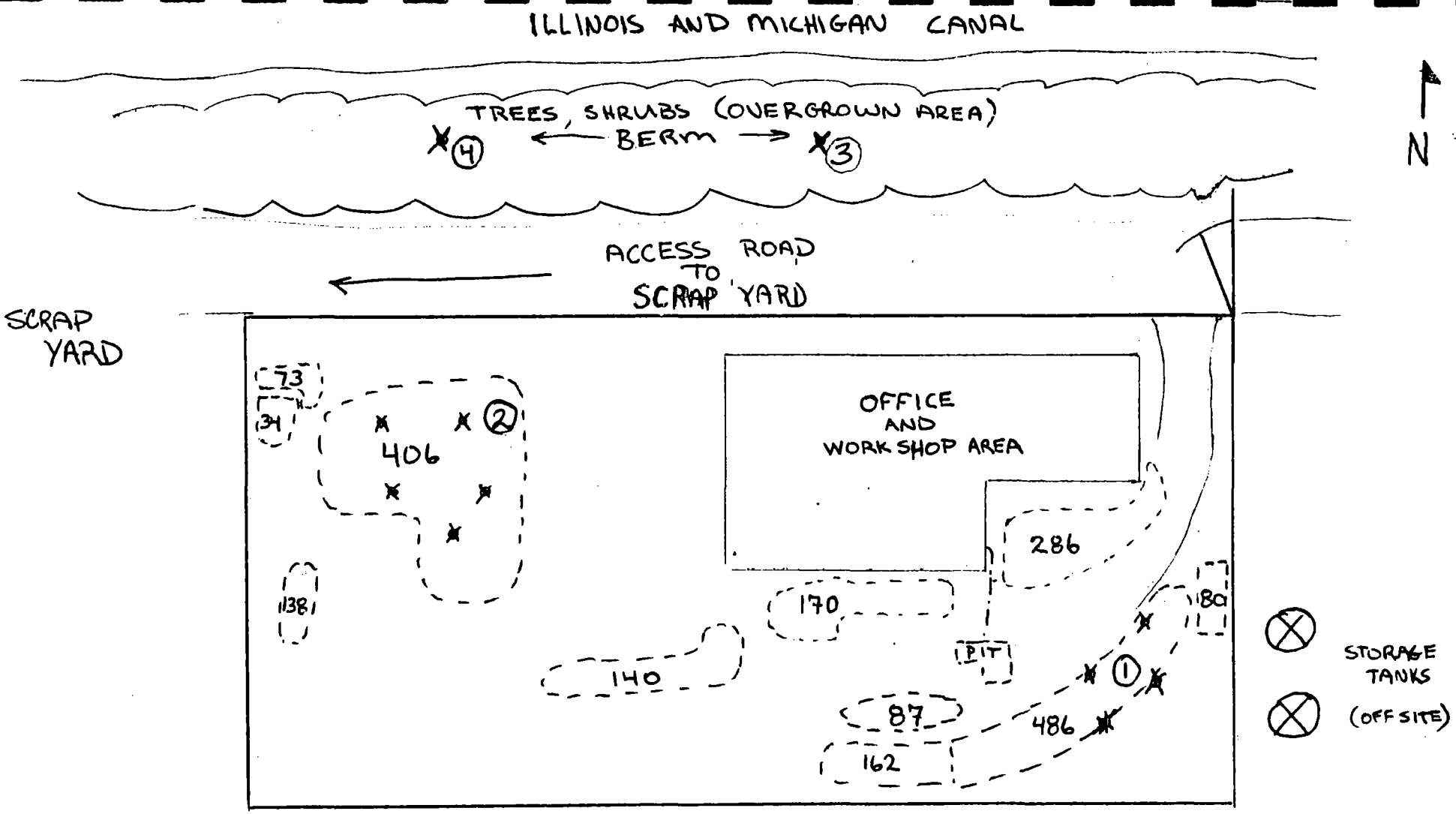
	High	Moderate	Low
Fire and Explosion Hazard			
Flammable Materials			✓
Explosives			✓
Incompatable Chemicals			✓
Direct Contact with Acutely Toxic Chemicals			
Site Security			✓
Leaking Drums or Tanks			✓
Open Lagoons or pits			✓
Materials on Surface			✓
Proximity of Population			✓
Evidence of Casual Site Use			✓
Contaminated Water Supply			
Supply 10 Day Scarcity			
Alternate Water Available			✓
Potential Contamination			✓
Is the site abandoned or active?			✓

Comments

Site previously used for drum recycling. Drums have been removed and site is currently used as a warehouse/workshop for highway sign construction. It does not appear to be a candidate for immediate action of any type.

3

Cardinal®



X Sample locations, 5-1-85

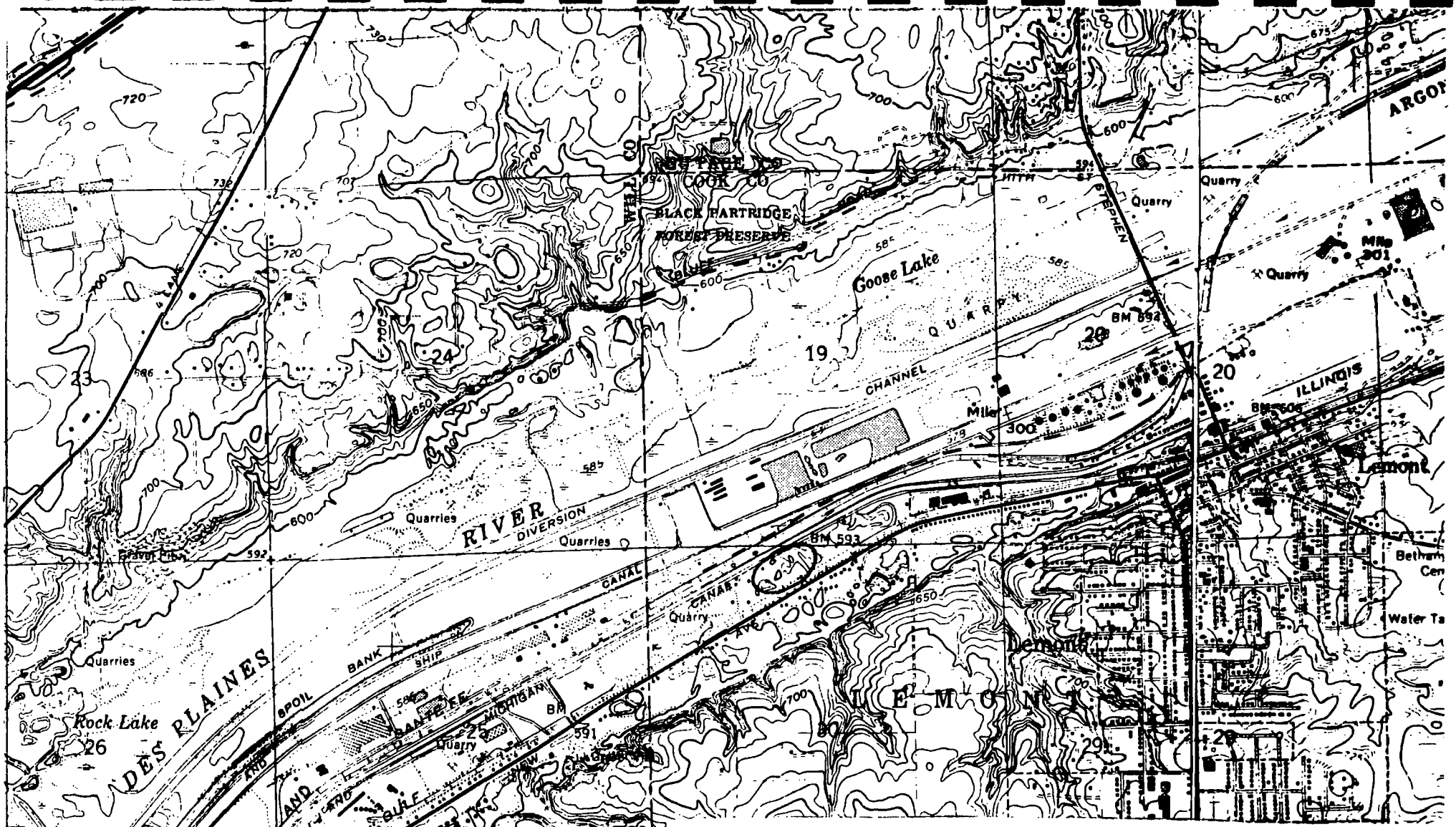
(25) Previous drum storage area, Approximate number of drums in 1980.

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

SCALE: NONE	APPROVED BY:	DRAWN BY CURNOCK
DATE: 10-18-85		REVISED —

J.J. Schultz Container, Lemont, IL

DRAWING NUMBER 1



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

SCALE: 1:24000	APPROVED BY:	DRAWN BY USGS
DATE: 1973, 1973		REVISED —

J. J Schultz Container, Lemont, IL

ROMEOVILLE 7.5' QUAD, IL
SAG BRIDGE 7.5' QUAD, IL

DRAWING NUMBER 2

SAMPLE DESCRIPTION

SITE NAME/TDD# J J Schultz Container 05-8410-01

CASE NUMBER 4274

SAMPLE #/STATION LOCATION 2, Composite, 5 locations, NW central portion - in area where 406 drums stored previous

SAMPLING DATE 5-1-85 SAMPLING TIME 10:23 AM

ORGANIC TRAFFIC NUMBER ED 076

INORGANIC TRAFFIC NUMBER MED 047

5-041155-58

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8oz	organics		
8oz	metals		
120ml	VOA		
120ml	VOA		

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: black soil, gravel

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS NONE

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# JJ Schultz Container 05-8410-01

CASE NUMBER 4274

SAMPLE #/STATION LOCATION 7, composite, 4 locations, 0-4", SE corner of property, approx area of 486 drums previous

SAMPLING DATE 5-1-85 SAMPLING TIME 10:10 AM

ORGANIC TRAFFIC NUMBER ED 075

INORGANIC TRAFFIC NUMBER MED 046

5-041151-54

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8oz	organics		
8oz	metals		
120ml	VOA		
120ml	VOA		

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: black soil

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS NONE

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# J J Schultz Container 05-8410-01

CASE NUMBER 4274

SAMPLE #/STATION LOCATION 3, composite, 5 locations, drum areas, berm of rusted 55 gallon drums + 5 gallon pails (OFF SITE)

SAMPLING DATE 5-1-85 SAMPLING TIME 10:45 AM

ORGANIC TRAFFIC NUMBER ED 077

INORGANIC TRAFFIC NUMBER MED 048

BOTTLE	ANALYSIS	TAG NUMBERS (5-041159-62)	LOT NUMBER
8oz	organics		
8oz	metals		
120ml	VOA		
120ml	VOA		

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: multi colored soil sample taken off main property near berm north of main building

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS NONE

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# J J Schultz Container 05-8410-01

CASE NUMBER 4274

SAMPLE #/STATION LOCATION 4, composite, NW of site, berm where rusted drums, cans etc. piled.

SAMPLING DATE 5-1-85 SAMPLING TIME 11:00 Am

ORGANIC TRAFFIC NUMBER ED 078

INORGANIC TRAFFIC NUMBER MED 049

5-041163-66

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8oz	organics		
8oz	metals		
120ml	VOA		
120ml	VOA		

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: solidified resins from drums, cans in area.

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS NONE

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# J J Schultz Container 05-8410-01

CASE NUMBER 4274

SAMPLE #/STATION LOCATION 5, Background, off entrance to 21 W. complex, South side of RR tracks off of New Street.

SAMPLING DATE 5-1-85 SAMPLING TIME ~11:30 Am

ORGANIC TRAFFIC NUMBER ED 079

INORGANIC TRAFFIC NUMBER MED 050

5-041167-70

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8oz	organics		
8oz	metals		
120ml	VOA		
120ml	VOA		

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: soil, offsite, near New Street.

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS NONE

pH

CONDUCTIVITY

TEMPERATURE

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

Date Received for Review: 9/24/85 Date Review Completed: 9/25/85

To: Dave Cunnock / CO2ZR

From: Arlene Pratl

Subject: J.J. Schultz Containers R05-8410-01 (Ill)

Sample Description: Case # 4274 5 low soil organics

Project Data Status: still awaiting metals

FIT Data Review Findings:

See attached CRL review.

ABN data is unacceptable
VOA data has estimated values

Additional Comments:

Book No. 4
Page No. 218

35X:3M

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

RECEIVED SEP 24 1985

DATE: 9/13/85

SUBJECT: Review of Region V CLP Data
Received for Review on 7-1-85

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

TO: Data User: FIT

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

SITE NAME: J. J. Schultz Containers SMO Case No. 4274

EPA Data Set No. SF 2308 No. of Samples: 5 D.U./Activity Numbers 19051 C48500

CRL No. 85FC06S54 to 85FC06S58

SMO Traffic No. ED075 to ED079

CLP Laboratory: Encotech Hrs. Required for Review: 3

Following are our findings.

1. Surrogates, matrix spikes and pesticide QC were acceptable.
2. VOA analysis times were ~~to~~ exceeded by 3 days and ABN extraction times were exceeded by 2 days, therefore, all VOA and ABN data are flagged as estimated.
3. All SPCC and CCC criteria were met for VOA's and ABN's.
4. The ABN method blank contained gross contamination of several unknown compounds. These unknowns were also in the samples and were used to determine whether the samples were medium level. This problem renders all AEN data unusable. Re-extraction and reanalysis are ~~recommended~~ recommended.
5. Pesticide data is acceptable

Patrick J. Cipulla
8-27-85

(X) Data are acceptable for use. Pest./PCB's
(X) Data are acceptable for use with qualifications noted above. VOA's
( ) Data are preliminary - pending verification by Contractor Laboratory.
(X) Data are unacceptable. ABN's

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

EPA FORM 1320-6 (REV 3-76)

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

RECEIVED SEP 24 1985

DATA TRACKING - FORM I

Data Set No. SF 2308 ERRIS No. _____

Case No. 4274 Site Name: J.J. Schultz Containers

of Laboratory: Encotech Data User: FIT

of Samples: 5 Date Samples Received: 7-1-85

Have chain-of-custody records been received? YES ✓ NO ___

Have Traffic reports been received? YES ✓ NO ___

If no, are Traffic report numbers written on the chain-of-custody record? YES ___ NO ___

If no, which Traffic report numbers are missing?

_____ _____ _____

_____ _____ _____

_____ _____ _____

_____ _____ _____

_____ _____ _____

Are basic data forms in? YES ✓ NO ___

Number of samples claimed: 5 Number of samples received: 5

Checked by: Sylvia Duffin Date: 7-1-85

Reteived by Contract Project Management Section: T. Thomas Date: 7/1/85

Review Started: 8-21-85 Reviewer Signature: Patrick J. Chuillo

Total time spent on review: 3 Hrs Date review completed: 8-27-85

Copied (xeroxed) by: _____ Date: _____

Mailed to Data User by: _____ Date: _____

TO DATA USERS:

Please fill in the blanks and return this form to:

Charles Elly, DPO, Region V, 5SCRL

Data received by: Eugene Grace Date: 9/20/85

Q.A. review received by: Eugene Grace Date: 9/20/85

Received by CRL - CPM Section for file by: _____

Date: _____

ENVIRONMENTAL
CONTROL
TECHNOLOGY
CORPORATION

3985 RESEARCH PARK DRIVE
ANN ARBOR, MICHIGAN 48104
313/761-1389

RECEIVED SEP 2 4 1985

SF 2308

June 28, 1985

JUL 1 1985

Sample Management Office
P.O. Box 818
300 North Lee
Suite 200
Alexandria, VA 22313

RE: Case 4274

Enclosed please find a copy of the sample data summary package and deliverables package for Case 4274. Copies of the deliverables package are also being sent to Region V and EMSL - Las Vegas.

Very truly yours,

ENVIRONMENTAL CONTROL TECHNOLOGY CORPORATION

Dale Scherger

Dale A. Scherger
Vice President

DAS/crn

75100

Enclosure

cc: Region V
EMSL - Las Vegas

ENVIRONMENTAL
CONTROL
TECHNOLOGY
CORPORATION

RECEIVED SEP 24 1985

Section I
Narrative
Case 4274

Case 4274 was received on May 02, 1985 for organics analyses under contract 68-01-6764. This case consisted of 5 soil samples. A matrix spike and duplicate were run with this case bringing the total number of samples to seven. A method blank was also run with all analysis.

The volatiles analyses were run using low level protocol. These analyses showed that several samples contained toluene and one sample, ED077, also contained trichloroethene. All surrogate recoveries were within QC limits. Matrix spike and duplicate results were good with only one value out of window. The method blank contained background levels of acetone and methylene chloride.

The BNA analyses were performed using medium level protocol due to the high level of hydrocarbon materials in the sample. Initial extraction showed that the samples could not be concentrated to proper volumes and FID screening showed high levels. The BNA results showed no priority pollutants above contract detection limits. However, pyrene and fluoranthene were identified as present in sample ED076. All surrogate recoveries were within window. Matrix spike and spike duplicate all gave very good results. The method blank contained background method artifact materials from the extraction.

The pesticides were run using low level protocol. However, several samples required varying dilution factors in order to properly analyze the samples. Pesticide/PCB analysis showed the presence of DDT in samples ED076 and ED079. PCB-aroclor 1254 was found in ED077 and DDE was detected in ED078 and ED079. All results were confiemed by second column confirmation. There was a QC problem with recovery of DBC. Recoveries were highly variable ranging from 0 to 326%. High recoveries were due to an interfering peak in sample ED076 and the matrix spikes (ED076-MS, ED076MSD). Low recoveries may be due to the alumina column clean-up step, although heavy chlorinated DDT and PCB were recovered as shown in the samples. The matrix spike results were fair for most materials. However, DDT recoveries were variable because the DDT in the sample (60 ug/kg) was four times higher than the spike level. Dieldrin could not be separated from a large peak eluting prior to and over the dieldrin retention time. The method blank contained no pesticide or PCB materials.

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CORPORATION

RECEIVED SEP 2 4 1985

One special note for the pesticide results should be mentioned. We have implemented a Nelson computer system to help produce more clearly reportable data. This system, however, labells the time on the chromatogram and tables based on the time the data was stored not when the run was performed. Therefore, we have needed to write the actual analyses time on the sheets. These times are from a Spectra Physics system still connected in parallel to the GC. The old system lists the actual time of sample injection. Therefore, these times have been transcribed on forms and tables in order to maintain consistency within the case.

RECEIVED SEP 24 1985

Case: 4274

Contractor: ENCOTEC

TENTATIVELY IDENTIFIED COMPOUNDS MATCH ASSESSMENT

NOTE: Reviewer should note directly on Organic Analysis Data Sheet (OADS) those matches that in his opinion (based on contract criteria) are unreasonable.

CRITERIA

(1) Relative intensities of major ions (>10%) reference spectrum should be present in the sample spectrum.

(2) Relative intensities of major ions in sample spectrum should agree to within ± 20% of reference spectrum intensities.

(3) Molecular ions present in reference spectrum should be present in sample spectrum.

(4) Ions present in sample spectrum, but not in reference spectrum should be reviewed for possible background contamination or presence of coeluting interferences.

(5) Ions present in reference spectrum, but not in the sample spectrum should be reviewed for possible subtraction from the sample spectrum because of background contamination or coeluting interferences.

(6) If, in the reviewer's opinion, no valid identification can be made the compound should be labelled as "unknown" and the initials and date of the reviewer placed on the OADS.

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

RECEIVED SEP 2 4 1985

Sample Number
ED075
85FC06S54

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENCOTEC
Case No: 4274
Lab Sample ID No: ED075V
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-6764
Data Release Authorized By: Michael J Jaeger
Date Sample Received: 5/2/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 5/15/85
Date Analyzed: 5/15/85
Conc/Dil Factor: 1 pH
Percent Moisture: ~~79.0~~ ds 21
Percent Moisture (Decanted):

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride AJ 4/10/85	~~5u~~ 52ØB
67-64-1	Acetone AJ 4/10/85	~~10u~~ 22B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

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

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 actions. (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 indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but

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.

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Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
ED075

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/14/85

Date Analyzed: MJ 6/10/85 ~~5/24/85~~ 5/23/85

Conc/Dil Factor: 2000

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20,000u
108-95-2	Phenol	20,000u
62-53-3	Aniline	20,000u
111-44-4	bis(-2-Chloroethyl)Ether	20,000u
95-57-8	2-Chlorophenol	20,000u
541-73-1	1, 3-Dichlorobenzene	20,000u
106-46-7	1, 4-Dichlorobenzene	20,000u
100-51-6	Benzyl Alcohol	20,000u
95-50-1	1, 2-Dichlorobenzene	20,000u
95-48-7	2-Methylphenol	20,000u
39638-32-9	bis(2-chloroisopropyl)Ether	20,000u
106-44-5	4-Methylphenol	20,000u
621-64-7	N-Nitroso-Di-n-Propylamine	20,000u
67-72-1	Hexachloroethane	20,000u
98-95-3	Nitrobenzene	20,000u
78-59-1	Isophorone	20,000u
88-75-5	2-Nitrophenol	20,000u
105-67-9	2, 4-Dimethylphenol	20,000u
65-85-0	Benzoic Acid	100,000u
111-91-1	bis(-2-Chloroethoxy)Methane	20,000u
120-83-2	2, 4-Dichlorophenol	20,000u
120-82-1	1, 2, 4-Trichlorobenzene	20,000u
91-20-3	Naphthalene	20,000u
106-47-8	4-Chloroaniline	20,000u
87-68-3	Hexachlorobutadiene	20,000u
59-50-7	4-Chloro-3-Methylphenol	20,000u
91-57-6	2-Methylnaphthalene	20,000u
77-47-4	Hexachlorocyclopentadiene	20,000u
88-06-2	2, 4, 6-Trichlorophenol	20,000u
95-95-4	2, 4, 5-Trichlorophenol	100,000u
91-58-7	2-Chloronaphthalene	20,000u
88-74-4	2-Nitroaniline	100,000u
131-11-3	Dimethyl Phthalate	20,000u
208-96-8	Acenaphthylene	20,000u
99-09-2	3-Nitroaniline	100,000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20,000u
51-28-5	2, 4-Dinitrophenol	100,000u
100-02-7	4-Nitrophenol	100,000u
132-64-9	Dibenzofuran	20,000u
121-14-2	2, 4-Dinitrotoluene	20,000u
606-20-2	2, 6-Dinitrotoluene	20,000u
84-66-2	Diethylphthalate	20,000u
7005-72-3	4-Chlorophenyl-phenylether	20,000u
86-73-7	Fluorene	20,000u
100-01-6	4-Nitroaniline	100,000u
534-52-1	4, 6-Dinitro-2-Methylphenol	100,000u
86-30-6	N-Nitrosodiphenylamine (1)	20,000u
101-55-3	4-Bromophenyl-phenylether	20,000u
118-74-1	Hexachlorobenzene	20,000u
87-86-5	Pentachlorophenol	100,000u
85-01-8	Phenanthrene	20,000u
120-12-7	Anthracene	20,000u
84-74-2	Di-n-Butylphthalate	20,000u
206-44-0	Fluoranthene	20,000u
92-87-5	Benzidine	160,000u
129-00-0	Pyrene	20,000u
85-68-7	Butylbenzylphthalate	20,000u
91-94-1	3, 3'-Dichlorobenzidine	40,000u
56-55-3	Benzo(a)Anthracene	20,000u
117-81-7	bis(2-Ethylhexyl)Phthalate	20,000u
218-01-9	Chrysene	20,000u
117-84-0	Di-n-Octyl Phthalate	20,000u
205-99-2	Benzo(b)Fluoranthene	20,000u
207-08-9	Benzo(k)Fluoranthene	20,000u
50-32-8	Benzo(a)Pyrene	20,000u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20,000u
53-70-3	Dibenz(a, h)Anthracene	20,000u
191-24-2	Benzo(g, h, i)Perylene	20,000u

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

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Sample Number
ED075

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/6/85

Date Analyzed: 6/4-5/85

Conc/Dil Factor: 1:40

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	6.0u
319-85-7	Beta-BHC	20u
319-86-8	Delta-BHC	7.0u
58-89-9	Gamma-BHC (Lindane)	7.0u
76-44-8	Heptachlor	8.0u
309-00-2	Aldrin	5.0u
1024-57-3	Heptachlor Epoxide	9.0u
959-98-8	Endosulfan I	8.0u
60-57-1	Dieldrin	9.0u
72-55-9	4, 4'-DDE	8.0u
72-20-8	Endrin	9.0u
33213-65-9	Endosulfan II	6.0u
72-54-8	4, 4'-DDD	8.0u
7421-93-4	Endrin Aldehyde	10u
1031-07-8	Endosulfan Sulfate	50u
50-29-3	4, 4'-DDT	20u
72-43-5	Methoxychlor	40u
53494-70-5	Endrin Ketone	90u
57-74-9	Chlordane	50u
8001-35-2	Toxaphene	200u
12674-11-2	Aroclor-1016	20u
11104-28-2	Aroclor-1221	600u
11141-16-5	Aroclor-1232	300u
53469-21-9	Aroclor-1242	200u
12672-29-6	Aroclor-1248	100u
11097-69-1	Aroclor-1254	60u
11096-82-5	Aroclor-1260	40u

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 30.0 V_t 400,000 V_i 1.5

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

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Sample Number
ED075

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)
1. NA	NO VOAs FOUND	VOA	NA	NA
2. NA	NO BNAs FOUND	BNA	NA	NA
3.				
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Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

REC... 1985

Sample Number
ED076

85FC06555

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENCOTEC
Case No: 4274
Lab Sample ID No: ED076V
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-6764
Data Release Authorized By: Michael J Jaeger
Date Sample Received: 5/2/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 5/15/85
Date Analyzed: 5/15/85
Conc/Dil Factor: 1 pH
Percent Moisture: ~~83.2~~ 16.8
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride MJ 6/10/85	~~5u~~ 300B
67-64-1	Acetone MJ 6/10/85	~~10u~~ 10B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene MJ 6/10/85	~~5u~~ 5
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

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 actions. (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 indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but

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.

Environmental Protection Agency, CLP Sample Management Office,
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED076

Organics Analysis Data Sheet
(Page 2)

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Semivolatile Compounds

Concentration: Low (Medium) (Circle One)

Date Extracted/Prepared: 5/14/85

Date Analyzed: MJ 6/10/85 ~~5/24/85~~ 5/23/85

Conc/(Dil) Factor: 2000

CAS Number		ug/l or (ug/Kg) (Circle One)
62-75-9	N-Nitrosodimethylamine	20,000u
108-95-2	Phenol	20,000u
62-53-3	Aniline	20,000u
111-44-4	bis(-2-Chloroethyl)Ether	20,000u
95-57-8	2-Chlorophenol	20,000u
541-73-1	1, 3-Dichlorobenzene	20,000u
106-46-7	1, 4-Dichlorobenzene	20,000u
100-51-6	Benzyl Alcohol	20,000u
95-50-1	1, 2-Dichlorobenzene	20,000u
95-48-7	2-Methylphenol	20,000u
39638-32-9	bis(2-chloroisopropyl)Ether	20,000u
106-44-5	4-Methylphenol	20,000u
621-64-7	N-Nitroso-Di-n-Propylamine	20,000u
67-72-1	Hexachloroethane	20,000u
98-95-3	Nitrobenzene	20,000u
78-59-1	Isophorone	20,000u
88-75-5	2-Nitrophenol	20,000u
105-67-9	2, 4-Dimethylphenol	20,000u
65-85-0	Benzoic Acid	100,000u
111-91-1	bis(-2-Chloroethoxy)Methane	20,000u
120-83-2	2, 4-Dichlorophenol	20,000u
120-82-1	1, 2, 4-Trichlorobenzene	20,000u
91-20-3	Naphthalene	20,000u
106-47-8	4-Chloroaniline	20,000u
87-68-3	Hexachlorobutadiene	20,000u
59-50-7	4-Chloro-3-Methylphenol	20,000u
91-57-6	2-Methylnaphthalene	20,000u
77-47-4	Hexachlorocyclopentadiene	20,000u
88-06-2	2, 4, 6-Trichlorophenol	20,000u
95-95-4	2, 4, 5-Trichlorophenol	100,000u
91-58-7	2-Chloronaphthalene	20,000u
88-74-4	2-Nitroaniline	100,000u
131-11-3	Dimethyl Phthalate	20,000u
208-96-8	Acenaphthylene	20,000u
99-09-2	3-Nitroaniline	100,000u

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	20,000u
51-28-5	2, 4-Dinitrophenol	100,000u
100-02-7	4-Nitrophenol	100,000u
132-64-9	Dibenzofuran	20,000u
121-14-2	2, 4-Dinitrotoluene	20,000u
606-20-2	2, 6-Dinitrotoluene	20,000u
84-66-2	Diethylphthalate	20,000u
7005-72-3	4-Chlorophenyl-phenylether	20,000u
86-73-7	Fluorene	20,000u
100-01-6	4-Nitroaniline	100,000u
534-52-1	4, 6-Dinitro-2-Methylphenol	100,000u
86-30-6	N-Nitrosodiphenylamine (1)	20,000u
101-55-3	4-Bromophenyl-phenylether	20,000u
118-74-1	Hexachlorobenzene	20,000u
87-86-5	Pentachlorophenol	100,000u
85-01-8	Phenanthrene	20,000u
120-12-7	Anthracene	20,000u
84-74-2	Di-n-Butylphthalate MJ 6/10/85	~~20,000u~~ 4000
206-44-0	Fluoranthene MJ 6/10/85	~~20,000u~~ 4000
92-87-5	Benzidine	160,000u
129-00-0	Pyrene MJ 6/10/85	~~20,000u~~ 4000
85-68-7	Butylbenzylphthalate	20,000u
91-94-1	3, 3'-Dichlorobenzidine	40,000u
56-55-3	Benzo(a)Anthracene	20,000u
117-81-7	bis(2-Ethylhexyl)Phthalate	20,000u
218-01-9	Chrysene	20,000u
117-84-0	Di-n-Octyl Phthalate	20,000u
205-99-2	Benzo(b)Fluoranthene	20,000u
207-08-9	Benzo(k)Fluoranthene	20,000u
50-32-8	Benzo(a)Pyrene	20,000u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20,000u
53-70-3	Dibenz(a, h)Anthracene	20,000u
191-24-2	Benzo(g, h, i)Perylene	20,000u

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
E0076

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/6/85

Date Analyzed: 6/4-5/85

Conc/Dil Factor: 1:20

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	3.0u
319-85-7	Beta-BHC	8.0u
319-86-8	Delta-BHC	3.0u
58-89-9	Gamma-BHC (Lindane)	3.0u
76-44-8	Heptachlor	4.0u
309-00-2	Aldrin	2.0u
1024-57-3	Heptachlor Epoxide	4.0u
959-98-8	Endosulfan I	4.0u
60-57-1	Dieldrin	4.0u
72-55-9	4, 4'-DDE	4.0u
72-20-8	Endrin	4.0u
33213-65-9	Endosulfan II	9.0u
72-54-8	4, 4'-DDD	4.0u
7421-93-4	Endrin Aldehyde	6.0u
1031-07-8	Endosulfan Sulfate	30u
50-29-3	4, 4'-DDT	60 ~~0~~ 22
72-43-5	Methoxychlor	20u
53494-70-5	Endrin Ketone	4.0u
57-74-9	Chlordane	30u
8001-35-2	Toxaphene	80u
12674-11-2	Aroclor-1016	100u
11104-28-2	Aroclor-1221	300u
11141-16-5	Aroclor-1232	200u
53469-21-9	Aroclor-1242	80u
12672-29-6	Aroclor-1248	60u
11097-69-1	Aroclor-1254	80u
11096-82-5	Aroclor-1260	40u

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 30.2 V_t 200,000 V_i 1.5

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
ED076

Organics Analysis Data Sheet
(Page 4)

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Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	NO VOAs FOUND	VOA	NA	NA
2. NA	NO BNAs FOUND	BNA	NA	NA
3.				
4.				
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Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED077
85FC06556

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Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENCOTEC
Case No: 4274
Lab Sample ID No: ED077V
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-6764
Data Release Authorized By: Michael J Jaeger
Date Sample Received: 5/2/85

Volatile Compounds

Concentration: Low ~~Medium~~ (Circle One) MJ 6/10/85
Date Extracted/Prepared: 5/15/85
Date Analyzed: 5/15/85
Conc/Dil Factor: 1 pH
Percent Moisture: ~~85.10~~ 14.9
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride MJ 6/10/85	5u 350B
67-64-1	Acetone MJ 6/10/85	10u 15B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene MJ 6/10/85	5u 9
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene MJ 6/10/85	5u 46
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

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 actions. (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 indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but

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.

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Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED077

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/14/85

Date Analyzed: 5/23/85

Conc/Dil Factor: 2000

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20,000u
108-95-2	Phenol	20,000u
62-53-3	Aniline	20,000u
111-44-4	bis(-2-Chloroethyl)Ether	20,000u
95-57-8	2-Chlorophenol	20,000u
541-73-1	1, 3-Dichlorobenzene	20,000u
106-46-7	1, 4-Dichlorobenzene	20,000u
100-51-6	Benzyl Alcohol	20,000u
95-50-1	1, 2-Dichlorobenzene	20,000u
95-48-7	2-Methylphenol	20,000u
39638-32-9	bis(2-chloroisopropyl)Ether	20,000u
106-44-5	4-Methylphenol	20,000u
621-64-7	N-Nitroso-Di-n-Propylamine	20,000u
67-72-1	Hexachloroethane	20,000u
98-95-3	Nitrobenzene	20,000u
78-59-1	Isophorone	20,000u
88-75-5	2-Nitrophenol	20,000u
105-67-9	2, 4-Dimethylphenol	20,000u
65-85-0	Benzoic Acid	100,000u
111-91-1	bis(-2-Chloroethoxy)Methane	20,000u
120-83-2	2, 4-Dichlorophenol	20,000u
120-82-1	1, 2, 4-Trichlorobenzene	20,000u
91-20-3	Naphthalene	20,000u
106-47-8	4-Chloroaniline	20,000u
87-68-3	Hexachlorobutadiene	20,000u
59-50-7	4-Chloro-3-Methylphenol	20,000u
91-57-6	2-Methylnaphthalene	20,000u
77-47-4	Hexachlorocyclopentadiene	20,000u
88-06-2	2, 4, 6-Trichlorophenol	20,000u
95-95-4	2, 4, 5-Trichlorophenol	100,000u
91-58-7	2-Chloronaphthalene	20,000u
88-74-4	2-Nitroaniline	100,000u
131-11-3	Dimethyl Phthalate	20,000u
208-96-8	Acenaphthylene	20,000u
99-09-2	3-Nitroaniline	100,000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20,000u
51-28-5	2, 4-Dinitrophenol	100,000u
100-02-7	4-Nitrophenol	100,000u
132-64-9	Dibenzofuran	20,000u
121-14-2	2, 4-Dinitrotoluene	20,000u
606-20-2	2, 6-Dinitrotoluene	20,000u
84-66-2	Diethylphthalate	20,000u
7005-72-3	4-Chlorophenyl-phenylether	20,000u
86-73-7	Fluorene	20,000u
100-01-6	4-Nitroaniline	100,000u
534-52-1	4, 6-Dinitro-2-Methylphenol	100,000u
86-30-6	N-Nitrosodiphenylamine (1)	20,000u
101-55-3	4-Bromophenyl-phenylether	20,000u
118-74-1	Hexachlorobenzene	20,000u
87-86-5	Pentachlorophenol	100,000u
85-01-8	Phenanthrene	20,000u
120-12-7	Anthracene	20,000u
84-74-2	Di-n-Butylphthalate MJ 6/10/85	~~20,000u~~ 4000 J
206-44-0	Fluoranthene	20,000u
92-87-5	Benzidine	160,000u
129-00-0	Pyrene	20,000u
85-68-7	Butylbenzylphthalate	20,000u
91-94-1	3, 3'-Dichlorobenzidine	40,000u
56-55-3	Benzo(a)Anthracene	20,000u
117-81-7	bis(2-Ethylhexyl)Phthalate	~~20,000u~~ 20,000
218-01-9	Chrysene	20,000u
117-84-0	Di-n-Octyl Phthalate	20,000u
205-99-2	Benzo(b)Fluoranthene	20,000u
207-08-9	Benzo(k)Fluoranthene	20,000u
50-32-8	Benzo(a)Pyrene	20,000u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20,000u
53-70-3	Dibenz(a, h)Anthracene	20,000u
191-24-2	Benzo(g, h, i)Perylene	20,000u

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

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Sample Number
ED077

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 5/6/85

Date Analyzed: 6/4-5/85

Conc/Dil Factor: 1:1000

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	100u
319-85-7	Beta-BHC	300u
319-86-8	Delta-BHC	100u
58-89-9	Gamma-BHC (Lindane)	100u
76-44-8	Heptachlor	200u
309-00-2	Aldrin	70u
1024-57-3	Heptachlor Epoxide	200u
959-98-8	Endosulfan I	200u
60-57-1	Dieldrin	200u
72-55-9	4, 4'-DDE	200u
72-20-8	Endrin	200u
33213-65-9	Endosulfan II	100u
72-54-8	4, 4'-DDD	200u
7421-93-4	Endrin Aldehyde	200u
1031-07-8	Endosulfan Sulfate	1000u
50-29-3	4, 4'-DDT	400u
72-43-5	Methoxychlor	800u
53494-70-5	Endrin Ketone	200u
57-74-9	Chlordane	1000u
8001-35-2	Toxaphene	4000u
12674-11-2	Aroclor-1016	5000u
11104-28-2	Aroclor-1221	8000u
11141-16-5	Aroclor-1232	8000u
53469-21-9	Aroclor-1242	4000u
12672-29-6	Aroclor-1248	3000u
11097-69-1	Aroclor-1254	~~5000u~~ 68000
11096-82-5	Aroclor-1260	1000u

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 29.9 V_t 10,000,000 V_i 1.5

Environmental Protection Agency. CLP Sample Management Office.
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Sample Number
ED 077

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)
1. NA	unknown hydrocarbon	VOA	448	7 J
2. NA	NO BNAs FOUND	BNA	NA	NA
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Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED078

85FC06557

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENCOTEC
Case No: 4274
Lab Sample ID No: ED078V
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-6764
Date Release Authorized By: Michael J. Jaeger
Date Sample Received: 5/2/85

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Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 5/15/85
Date Analyzed: 5/15/85
Conc/Dil Factor: 1 pH
Percent Moisture: ~~83.2~~ 16.8
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride MJ 6/10/85	~~5u~~ 620B
67-64-1	Acetone MJ 6/10/85	~~10u~~ 110B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone MJ 6/10/85	~~10u~~ 29
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene MJ 6/10/85	~~5u~~ 26
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

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 actions. (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 indicates the presence

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

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED078

Organics Analysis Data Sheet
(Page 2)

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Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/14/85

Date Analyzed: 5/23/85

Conc/Dil Factor: 20000

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20,000u
108-95-2	Phenol	~~20,000u~~ 9800
62-53-3	Aniline	20,000u
111-44-4	bis(-2-Chloroethyl)Ether	20,000u
95-57-8	2-Chlorophenol	20,000u
541-73-1	1, 3-Dichlorobenzene	20,000u
106-46-7	1, 4-Dichlorobenzene	20,000u
100-51-6	Benzyl Alcohol	~~20,000u~~ 9000
95-50-1	1, 2-Dichlorobenzene	20,000u
95-48-7	2-Methylphenol	20,000u
39638-32-9	bis(2-chloroisopropyl)Ether	20,000u
106-44-5	4-Methylphenol	20,000u
621-64-7	N-Nitroso-Di-n-Propylamine	20,000u
67-72-1	Hexachloroethane	20,000u
98-95-3	Nitrobenzene	20,000u
78-59-1	Isophorone	20,000u
88-75-5	2-Nitrophenol	20,000u
105-67-9	2, 4-Dimethylphenol	20,000u
65-85-0	Benzoic Acid	100,000u
111-91-1	bis(-2-Chloroethoxy)Methane	20,000u
120-83-2	2, 4-Dichlorophenol	20,000u
120-82-1	1, 2, 4-Trichlorobenzene	20,000u
91-20-3	Naphthalene	20,000u
106-47-8	4-Chloroaniline	20,000u
87-68-3	Hexachlorobutadiene	20,000u
59-50-7	4-Chloro-3-Methylphenol	20,000u
91-57-6	2-Methylnaphthalene	20,000u
77-47-4	Hexachlorocyclopentadiene	20,000u
88-06-2	2, 4, 6-Trichlorophenol	20,000u
95-95-4	2, 4, 5-Trichlorophenol	100,000u
91-58-7	2-Chloronaphthalene	20,000u
88-74-4	2-Nitroaniline	100,000u
131-11-3	Dimethyl Phthalate	20,000u
208-96-8	Acenaphthylene	20,000u
99-09-2	3-Nitroaniline	100,000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20,000u
51-28-5	2, 4-Dinitrophenol	100,000u
100-02-7	4-Nitrophenol	100,000u
132-64-9	Dibenzofuran	20,000u
121-14-2	2, 4-Dinitrotoluene	20,000u
606-20-2	2, 6-Dinitrotoluene	20,000u
84-66-2	Diethylphthalate	20,000u
7005-72-3	4-Chlorophenyl-phenylether	20,000u
86-73-7	Fluorene	20,000u
100-01-6	4-Nitroaniline	100,000u
534-52-1	4, 6-Dinitro-2-Methylphenol	100,000u
86-30-6	N-Nitrosodiphenylamine (1)	20,000u
101-55-3	4-Bromophenyl-phenylether	20,000u
118-74-1	Hexachlorobenzene	20,000u
87-86-5	Pentachlorophenol	100,000u
85-01-8	Phenanthrene	20,000u
120-12-7	Anthracene	20,000u
84-74-2	Di-n-Butylphthalate	20,000u
206-44-0	Fluoranthene	20,000u
92-87-5	Benzidine	160,000u
129-00-0	Pyrene	20,000u
85-68-7	Butylbenzylphthalate	20,000u
91-94-1	3, 3'-Dichlorobenzidine	40,000u
56-55-3	Benzo(a)Anthracene	20,000u
117-81-7	bis(2-Ethylhexyl)Phthalate	20,000u
218-01-9	Chrysene	20,000u
117-84-0	Di-n-Octyl Phthalate	20,000u
205-99-2	Benzo(b)Fluoranthene	20,000u
207-08-9	Benzo(k)Fluoranthene	20,000u
50-32-8	Benzo(a)Pyrene	20,000u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20,000u
53-70-3	Dibenz(a, h)Anthracene	20,000u
191-24-2	Benzo(g, h, i)Perylene	20,000u

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED078

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/6/85

Date Analyzed: 6/4-5/85

Conc/Dil Factor: 1:2

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	2.0u
319-85-7	Beta-BHC	2.0u
319-86-8	Delta-BHC	2.0u
58-89-9	Gamma-BHC (Lindane)	2.0u
76-44-8	Heptachlor	2.0u
309-00-2	Aldrin	2.0u
1024-57-3	Heptachlor Epoxide	2.0u
959-98-8	Endosulfan I	2.0u
60-57-1	Dieldrin	4.0u
72-55-9	4, 4'-DDE	~~6.2~~ 2.5 DD
72-20-8	Endrin	4.0u
33213-65-9	Endosulfan II	4.0u
72-54-8	4, 4'-DDD	4.0u
7421-93-4	Endrin Aldehyde	4.0u
1031-07-8	Endosulfan Sulfate	4.0u
50-29-3	4, 4'-DDT 4.0u → ~~77.0~~ 33 DD	
72-43-5	Methoxychlor	20u
53494-70-5	Endrin Ketone	4.0u
57-74-9	Chlordane	20u
8001-35-2	Toxaphene	40u
12674-11-2	Aroclor-1016	20u
11104-28-2	Aroclor-1221	30u
11141-16-5	Aroclor-1232	20u
53469-21-9	Aroclor-1242	20u
12672-29-6	Aroclor-1248	20u
11097-69-1	Aroclor-1254	40u
11096-82-5	Aroclor-1260	40u

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 30.0 V_t 20,000 V_i 1.5

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED078

Organics Analysis Data Sheet
(Page 4)

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Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	NO VOAs FOUND	VOA	NA	NA
2. NA	UNKNOWN	BNA	918	16000
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Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED079

85F-C06 558

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Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENCOTEC
Case No: 4274
Lab Sample ID No: ED079V
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-6764
Data Release Authorized By: Michael J Jaeger
Date Sample Received: 5/2/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 5/15/85
Date Analyzed: 5/15/85
Conc/Dil Factor: 1 pH
Percent Moisture: ~~80.2~~ 19.8
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride MJ 6/10/85	~~5u~~ 55B
67-64-1	Acetone MJ 6/10/85	~~10u~~ 10B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene MJ 6/10/85	~~5u~~ 5
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

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 actions. (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 indicates the presence of a compound that meets the identification criteria but

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.

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Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED079

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/14/85

Date Analyzed: 5/23/85

Conc/Dil Factor: 20000

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20,000u
108-95-2	Phenol	20,000u
62-53-3	Aniline	20,000u
111-44-4	bis(-2-Chloroethyl)Ether	20,000u
95-57-8	2-Chlorophenol	20,000u
541-73-1	1, 3-Dichlorobenzene	20,000u
106-46-7	1, 4-Dichlorobenzene	20,000u
100-51-6	Benzyl Alcohol	20,000u
95-50-1	1, 2-Dichlorobenzene	20,000u
95-48-7	2-Methylphenol	20,000u
39638-32-9	bis(2-chloroisopropyl)Ether	20,000u
106-44-5	4-Methylphenol	20,000u
621-64-7	N-Nitroso-Di-n-Propylamine	20,000u
67-72-1	Hexachloroethane	20,000u
98-95-3	Nitrobenzene	20,000u
78-59-1	Isophorone	20,000u
88-75-5	2-Nitrophenol	20,000u
105-67-9	2, 4-Dimethylphenol	20,000u
65-85-0	Benzoic Acid	100,000u
111-91-1	bis(-2-Chloroethoxy)Methane	20,000u
120-83-2	2, 4-Dichlorophenol	20,000u
120-82-1	1, 2, 4-Trichlorobenzene	20,000u
91-20-3	Naphthalene	20,000u
106-47-8	4-Chloroaniline	20,000u
87-68-3	Hexachlorobutadiene	20,000u
59-50-7	4-Chloro-3-Methylphenol	20,000u
91-57-6	2-Methylnaphthalene	20,000u
77-47-4	Hexachlorocyclopentadiene	20,000u
88-06-2	2, 4, 6-Trichlorophenol	20,000u
95-95-4	2, 4, 5-Trichlorophenol	100,000u
91-58-7	2-Chloronaphthalene	20,000u
88-74-4	2-Nitroaniline	100,000u
131-11-3	Dimethyl Phthalate	20,000u
208-96-8	Acenaphthylene	20,000u
99-09-2	3-Nitroaniline	100,000u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20,000u
51-28-5	2, 4-Dinitrophenol	100,000u
100-02-7	4-Nitrophenol	100,000u
132-64-9	Dibenzofuran	20,000u
121-14-2	2, 4-Dinitrotoluene	20,000u
606-20-2	2, 6-Dinitrotoluene	20,000u
84-66-2	Diethylphthalate	20,000u
7005-72-3	4-Chlorophenyl-phenylether	20,000u
86-73-7	Fluorene	20,000u
100-01-6	4-Nitroaniline	100,000u
534-52-1	4, 6-Dinitro-2-Methylphenol	100,000u
86-30-6	N-Nitrosodiphenylamine (1)	20,000u
101-55-3	4-Bromophenyl-phenylether	20,000u
118-74-1	Hexachlorobenzene	20,000u
87-86-5	Pentachlorophenol	100,000u
85-01-8	Phenanthrene	20,000u
120-12-7	Anthracene	20,000u
84-74-2	Di-n-Butylphthalate	~~20,000u~~ 2000 J
206-44-0	Fluoranthene	20,000u
92-87-5	Benzidine	160,000u
129-00-0	Pyrene	20,000u
85-68-7	Butylbenzylphthalate	20,000u
91-94-1	3, 3'-Dichlorobenzidine	40,000u
56-55-3	Benzo(a)Anthracene	20,000u
117-81-7	bis(2-Ethylhexyl)Phthalate	20,000u
218-01-9	Chrysene	20,000u
117-84-0	Di-n-Octyl Phthalate	20,000u
205-99-2	Benzo(b)Fluoranthene	20,000u
207-08-9	Benzo(k)Fluoranthene	20,000u
50-32-8	Benzo(a)Pyrene	20,000u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20,000u
53-70-3	Dibenz(a, h)Anthracene	20,000u
191-24-2	Benzo(g, h, i)Perylene	20,000u

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED079

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 5/6/85

Date Analyzed: 6/4-5/85

Conc/Dil Factor: 1:4

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	2.0u
319-85-7	Beta-BHC	2.0u
319-86-8	Delta-BHC	2.0u
58-89-9	Gamma-BHC (Lindane)	2.0u
76-44-8	Heptachlor	2.0u
309-00-2	Aldrin	2.0u
1024-57-3	Heptachlor Epoxide	2.0u
959-98-8	Endosulfan I	2.0u
60-57-1	Dieldrin	4.0u
72-55-9	4,4'-DDE	17.4
72-20-8	Endrin	4.0u
33213-65-9	Endosulfan II	4.0u
72-54-8	4,4'-DDD	4.0u
7421-93-4	Endrin Aldehyde	4.0u
1031-07-8	Endosulfan Sulfate	5.0u
50-29-3	4,4'-DDT	21.2
72-43-5	Methoxychlor	20u
53494-70-5	Endrin Ketone	4.0u
57-74-9	Chlordane	20u
8001-35-2	Toxaphene	40u
12674-11-2	Aroclor-1016	20u
11104-28-2	Aroclor-1221	60u
11141-16-5	Aroclor-1232	30u
53469-21-9	Aroclor-1242	20u
12672-29-6	Aroclor-1248	20u
11097-69-1	Aroclor-1254	40u
11096-82-5	Aroclor-1260	40u

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 30.0 V_t 40,000 V_i 1.5

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

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Sample Number
ED079

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)
1. NA	NO VOAs FOUND	VOA	NA	NA
2. NA	NO BNAS FOUND	BNA	NA	NA
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

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

Date Received for Review: 10/8/85 Date Review Completed: 10/10/85

To: Dave Cunnock (CO22A)

From: Arlene Pratl

Subject: L. L. Schutz Container RDS-8410-01 (ALL)

Sample Description: Case # 4274 low soil metals

Project Data Status: complete

FIT Data Review Findings:

See attached CRL review.

Additional Comments:

Book No. 4
Page No. 218

35X:3M

recycled paper

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

Resubmitted

DATA TRACKING - FORM I

CRL Data Set No. SF 2308 ERRIS No. _____

SMO Case No. 4274 Site Name: J.J. Safety Containers

Name of Laboratory: RMAL Data User: Sit

No. of Samples: 5 Date Samples Received: 6/6/85

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

5. Are basic data forms in? YES ✓ NO ___
6. Number of samples claimed: 5 Number of samples received: 5
7. Checked by: Nidia Feliciano Date: 10/4/85
8. Received by Contract Project Management Section: _____ Date: _____
9. Review Started: _____ Reviewer Signature: _____
10. Total time spent on review: _____ Date review completed: _____
11. Copied (xeroxed) by: _____ Date: _____
12. Mailed to Data User by: Nidia Feliciano Date: 10/4/85

TO DATA USERS:

Please fill in the blanks and return this form to: RECEIVED OCT 8 1985

Charles Elly, DPO, Region V, SSCRL

13. Data received by: Arlene Grace Date: 10/10/85
14. Q.A. review received by: Arlene Grace Date: 10/10/85
15. Received by CRL - CPM Section for file by: _____

Date: _____

Transmitted 6/12/85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6.7.85

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

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory Jay Thorpe

TO: Data User: Fit

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

SITE NAME: J.J. Schutz Containers SMO Case No. 4274

EPA Data Set No. SE 3308 No. of Samples: 5 D.U./Activity Numbers 1905 / C48500

CRL No. 85FC06554 - 85FC06558

SMO Traffic No. MED046 - MED050

CLP Laboratory: RMAL Hrs. Required for Review: 1 hr.

Following are our findings.

This review covers 5 low concentration soil samples.
The spike recoveries were biased low for the following elements:
Sb (61%), Pb (38%) and Se (52%).
The spike recovery was biased high for Mn (178%).

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Jon F. Fiala 6/7/85

( ) 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

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

Date 6/4/85

3F7308

COVER PAGE
INORGANIC ANALYSIS DATA PACKAGE

Lab Name ROCKY MOUNTAIN ANALYTICAL
SOW No. 784

Case No. 4274
QC Report No. 5839

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MED046			
MED047			
MED048			
MED049			
MED050			
[MED999]			

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JUN 06 1985
U.S. EPA CENTRAL REGIONAL LAB.
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

Comments: 5 LOW SOILS TASK 1&2 ONLY
SERIAL DILUTION OF SAMPLE MED050
IDENTIFIED AS [MED999]

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

Footnotes:

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

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

DATA TRACKING - FORM I

CRL Data Set No. SF 2308 ERRIS No. _____

SMO Case No. 4274 Site Name: J.J. Schultz Continuous

Name of Laboratory: Encotech Data User: Sit

No. of Samples: 5 Date Samples Received: 6/6/85

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

5. Are basic data forms in? YES ✓ NO ___
6. Number of samples claimed: 5 Number of samples received: 5
7. Checked by: Nidia Feliciano Date: 6/6/85
8. Received by Contract Project Management Section: JR Date: 6.6.85
9. Review Started: 6/7/85 Reviewer Signature: [illegible]
10. Total time spent on review: 1 hr. Date review completed: 1 hr.
11. Copied (xeroxed) by: _____ Date: _____
12. Mailed to Data User by: _____ Date: _____

TO DATA USERS:

Please fill in the blanks and return this form to:

RECEIVED OCT 8 1985

Charles Elly, DPO, Region V, SSCRL

13. Data received by: Arlene Grace Date: 10/10/85
14. Q.A. review received by: Arlene Grace Date: 10/10/85
15. Received by CRL - CPM Section for file by: _____

Date: _____

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

85FC06554

EPA Sample No.
MED046

Date ~~4/26/85~~ 6/4/85

INORGANIC ANALYSIS DATA SHEET

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

CASE NO. 4274
QC REPORT NO. 5839

Elements Identified and Measured

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

mg/kg dry weight

1.	ALUMINUM	3590	P *	13.	MAGNESIUM	57700	P
2.	ANTIMONY	29U	P R	14.	MANGANESE	451	P R
3.	ARSENIC	[6.2]	F	15.	MERCURY	84	CV
4.	BARIUM	306	P	16.	NICKEL	29	P
5.	BERYLLIUM	[0.57]	P	17.	POTASSIUM	[990]	P
6.	CADMIUM	3.6	P	18.	SELENIUM	3.2 w	F
7.	CALCIUM	108000	P	19.	SILVER	2.5U	P
8.	CHROMIUM	217	P	20.	SODIUM	[1040]	P
9.	COBALT	[11]	P	21.	THALLIUM	2.5U	F
10.	COPPER	62	P	22.	TIN	881	P R
11.	IRON	25500	P	23.	VANDIUM	[17]	P
12.	LEAD	824	P R	24.	ZINC	416	P

Cyanide NR

Percent Solids (%) 79

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:

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Lab Manager JM

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

85FC06555
EPA Sample No.
MED047

Date 6/4/85

INORGANIC ANALYSIS DATA SHEET

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

CASE NO. 4274
QC REPORT NO. 5839

Elements Identified and Measured

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

mg/kg dry weight

1.	ALUMINUM	6190	P *	13.	MAGNESIUM	39500	P
2.	ANTIMONY	27U	P R	14.	MANGANESE	469	P R
3.	ARSENIC	8.2	F	15.	MERCURY	1.0	CV
4.	BARIUM	[83]	P	16.	NICKEL	26	P
5.	BERYLLIUM	[0.72]	P	17.	POTASSIUM	[1450]	P
6.	CADMIUM	2.9U	P	18.	SELENIUM	2.9W	F
7.	CALCIUM	93500	P	19.	SILVER	2.4U	P
8.	CHROMIUM	79	P	20.	SODIUM	[1290]	P
9.	COBALT	121	P	21.	THALLIUM	2.4U	F
10.	COPPER	313	P	22.	TIN	21U	P R
11.	IRON	19900	P	23.	VANDIUM	[22]	P
12.	LEAD	140	P R	24.	ZINC	210	P

Cyanide NR
Percent Solids (%) 85

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:

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Lab Manager JN

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

85FC06556
EPA Sample No.
MED048

Date 6/4/85

INORGANIC ANALYSIS DATA SHEET

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

CASE NO. 4274
QC REPORT NO. 5839

Elements Identified and Measured

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

mg/kg dry weight

1.	ALUMINUM	27900	P *	13.	MAGNESIUM	59500	P
2.	ANTIMONY	28U	P R	14.	MANGANESE	434	P R
3.	ARSENIC	35	F	15.	MERCURY	0.24	CV
4.	BARIUM	245	P	16.	NICKEL	47	P
5.	BERYLLIUM	[0.42]	P	17.	POTASSIUM	[885]	P
6.	CADMIUM	9.9	P	18.	SELENIUM	BDL 12U	F
7.	CALCIUM	115000	P	19.	SILVER	8.8	P
8.	CHROMIUM	116	P	20.	SODIUM	[734]	P
9.	COBALT	[6.5]	P	21.	THALLIUM	2.4U	F
10.	COPPER	66000	P	22.	TIN	295	P R
11.	IRON	25500	P	23.	VANDIUM	[14]	P
12.	LEAD	7880	P R	24.	ZINC	4920	P

Cyanide NR Percent Solids (%) 82

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:

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Lab Manager Jm

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

85FC06557
EPA Sample No.
MED049

Date 6/4/85

INORGANIC ANALYSIS DATA SHEET

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

CASE NO. 4274
QC REPORT NO. 5839

Elements Identified and Measured

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

mg/kg dry weight

1.	ALUMINUM	10900	P *	13.	MAGNESIUM	18000	P
2.	ANTIMONY	28U	P R	14.	MANGANESE	635	P R
3.	ARSENIC	17	F	15.	MERCURY	0.06U	CV
4.	BARIUM	357	P	16.	NICKEL	133	P
5.	BERYLLIUM	[0.86]	P	17.	POTASSIUM	[1910]	P
6.	CADMIUM	3U	P	18.	SELENIUM	3.0W	F
7.	CALCIUM	32100	P	19.	SILVER	2.4U	P
8.	CHROMIUM	199	P	20.	SODIUM	[576]	P
9.	COBALT	[14]	P	21.	THALLIUM	2.4U	F
10.	COPPER	814	P	22.	TIN	22U	P R
11.	IRON	30100	P	23.	VANDIUM	[25]	P
12.	LEAD	1760	P R	24.	ZINC	783	P

Cyanide NR
Percent Solids (%) 83

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

Comments:

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Lab Manager JM

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

85FC06558
EPA Sample No.
MED050

Date 6/4/85

INORGANIC ANALYSIS DATA SHEET

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

CASE NO. 4274
QC REPORT NO. 5839

Elements Identified and Measured

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

mg/kg dry weight

1.	ALUMINUM	6820	P *	13.	MAGNESIUM	26100	P
2.	ANTIMONY	27U	P R	14.	MANGANESE	835	P R
3.	ARSENIC	18	F	15.	MERCURY	0.06U	CV
4.	BARIUM	[75]	P	16.	NICKEL	26	P
5.	BERYLLIUM	[0.85]	P	17.	POTASSIUM	[1670]	P
6.	CADMIUM	3U	P	18.	SELENIUM	3.0w	F
7.	CALCIUM	48000	P	19.	SILVER	2.4U	P
8.	CHROMIUM	19	P	20.	SODIUM	[1150]	P
9.	COBALT	[12]	P	21.	THALLIUM	2.4U	F
10.	COPPER	58	P	22.	TIN	21U	P R
11.	IRON	20700	P	23.	VANDIUM	[22]	P
12.	LEAD	106	P R	24.	ZINC	130	P

Cyanide NR Percent Solids (%) 84

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:

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Lab Manager JM

DATA REVIEW SHEET

LAB: RMAL LAB QC # 5839

SITE: J.J. Schultz Contracting CONC: L 5 M — H — MATRIX: W — S 5 EPA SAMPLE FOR SPIKE MED046 FOR DUP MED046

DATE: 6/7/85 REVIEWED BY Jon F. Bb

Metals:	CALIBRATION INITIAL	CALIBRATION CONT	CALIBRATION CONT	CALIBRATION CONT	BLANKS CONT.	BLANKS PREP. 1	BLANKS PREP. 2	ICP INTERFERENCE INIT	ICP INTERFERENCE FINAL	SPIKE 1	SPIKE 2	DUPLICATE 1 (RPD)	DUPLICATE 2	LCS SOLID	LCS LIQ		
1. Aluminum												27%					
2. Antimony										61%							
3. Arsenic																	
4. Barium																	
5. Beryllium																	
6. Cadmium																	
7. Calcium																	
8. Chromium																	
9. Cobalt																	
10. Copper																	
11. Iron																	
12. Lead										38%							
13. Magnesium																	
14. Manganese										178%							
15. Mercury																	
16. Nickel																	
17. Potassium																	
18. Selenium										52%							
19. Silver																	
20. Sodium																	
21. Thallium																	
22. Vanadium																	
23. Zinc																	
24. Cyanide																	
Other:																	

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Case: 4274 SF2308

Contractor: RMAL

DATA PACKAGE COMPLETENESS AUDIT

I. Cover Page

✓ The cover page must include general comments, Statement of Work Number, QC Report #, EPA cross reference numbers, footnotes used in the data package, and the statement on ICP corrections.

II. Inorganic Data Report Sheet - Form I

A completed Form I must be submitted for every sample in that case.

✓ Proper matrix and concentration level indicated.

✓ % solids reported for solid samples.

✓ Analytical method code for each parameter. "P" for ICP/flame AA or "F" for furnace.

✓ Any dilutions affecting the IDL explained in the comment section.

✓ For positive values less than the contract required detection limit, the value is put in brackets. [ ].

✓ For not detected, the detection limit is reported, followed by a "U".

✓ Lab manager's signature.

III. QA/QC Data

The following forms must be submitted. A check for completeness and and compliance follows in this audit.

✓ Initial and Continuing Calibration Verification - Form II.

✓ Blank data - Form III

✓ ICP Interference Check Sample - Form IV

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✓ Spike Sample Recovery - Form V

✓ Duplicate Data - Form VI

✓ Instrument Detection Limit and Laboratory Control Sample - Form VII.

Standard Addition Results - Form VIII

IV. Raw Data

A legible photocopy of raw data consisting of the sequential measurement readout record, such as an instrument tape or printout, clearly labeled with sufficient information to identify both the sample identity and the final result must be submitted for each of the following.

✓ calibration standards, with prep date.

✓ calibration and preparation blanks

✓ initial and continuing calibration

___ interference check samples, initial and continuing.

✓ duplicates

✓ spikes - indicating standard solutions used, final spike concentrations and volumes involved.

✓ samples - including all weights, dilutions and volumes used to obtain the reported value.

✓ instrument adjustments or corrections, if any.

✓ raw furnace data for:

- initial single spike data
- single spike % recovery, if used
- full method of standard addition, if performed.
- method of standard addition correlation coefficient, slope and intercept of linear fit.

V. Sample Traffic Report

✓ Copy of SMO Sample Traffic Report with lab receipt information and original contractor signature.

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Form III

Q.C. Report No. 5839

BLANKS

LAB NAME ROCKY MOUNTAIN ANALYTICAL CASE NO. 4274

DATE 6/4/85 UNITS ug/L

Matrix SOIL

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. ALUMINUM	23U	23U				23U	
2. ANTIMONY	46U	46U				46U	
3. ARSENIC	4w	4w	4w			4w	
4. BARIUM	12U	12U				12U	
5. BERYLLIUM	0.5U	0.5U				0.5U	
6. CADMIUM	5U	5U				5U	
7. CALCIUM	290U	290U				290U	
8. CHROMIUM	4U	4U				4U	
9. COBALT	7U	7U				7U	
10. COPPER	4U	[24]				4U	
11. IRON	11U	11U				[50]	
12. LEAD	RM 23w	RM 23w				RM 23w	
13. MAGNESIUM	330U	330U				330U	
14. MANGANESE	3U	3U				[3.5]	
15. MERCURY	0.1w	0.1w				0.1w	
16. NICKEL	5U	5U				5U	
17. POTASSIUM	470U	470U				470U	
18. SELENIUM	2w	2w	2w			2w	
19. SILVER	[4.4]	4U				4U	
20. SODIUM	880U	880U				880U	
21. THALLIUM	4w	4w	4w			4w	
22. TIN	36U	36U				36U	
23. VANDIUM	4U	4U				4U	
24. ZINC	2U	2U				[3.3]	
Other:							
Cyanide							

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Form V

Q.C. Report No. 5839

SPIKE SAMPLE RECOVERY

LAB NAME ROCKY MOUNTAIN ANALYTICAL

DATE 6/4/85

CASE NO. 4274
EPA Sample No. MED046
Lab Sample ID No. -
Units mg/kg

MATRIX SOIL

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R	
Metals:						
1. ALUMINUM	75-125	2760	2840	NR		
2. ANTIMONY	75-125	152	23U	250	61	R
3. ARSENIC	75-125	24	[4.9]	20	96	
4. BARIUM	75-125	1180	242	1000	94	
5. BERYLLIUM	75-125	27	[0.45]	25	106	
6. CADMIUM	75-125	29	2.8	25	105	
7. CALCIUM	75-125	79600	85100	NR		
8. CHROMIUM	75-125	289	172	100	117	
9. COBALT	75-125	254	[8.6]	250	98	
10. COPPER	75-125	168	49	125	95	
11. IRON	75-125	19600	20100	NR		
12. LEAD	75-125	746	651	250	38	R
13. MAGNESIUM	75-125	42700	45600	NR		
14. MANGANESE	75-125	802	356	250	178	R
15. MERCURY	75-125	129	66	~~2.5~~ 68.2	92	
16. NICKEL	75-125	259	23	250	94	
17. POTASSIUM	75-125	[695]	[782]	NR		
18. SELENIUM	75-125	2.6	2.5w	5	52	R
19. SILVER	75-125	25	2U	25	100	
20. SODIUM	75-125	[490]	[822]	NR		
21. THALLIUM	75-125	22	2U	25	88	
22. TIN	75-125	694	696	250	-0.8	R
23. VANDIUM	75-125	262	[13]	250	100	
24. ZINC	75-125	531	329	250	81	
Other:						
Cyanide	75-125					

[1] %R = [(SSR - SR)/SA] x 100

"R"- out of control

Comments:

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Form VI

Q.C. Report No. 5839

DUPLICATES

LAB NAME ROCKY MOUNTAIN ANALYTICAL

DATE 6/4/85

CASE NO. 4274
EPA Sample No. MED046
Lab Sample ID No. -
Units mg/kg

Matrix SOIL

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]
Metals:				-
1. ALUMINUM		2840	3740	27 *
2. ANTIMONY		23U	23U	NC
3. ARSENIC		[4.9]	6	NC
4. BARIUM		242	250	3.3
5. BERYLLIUM		[0.45]	[0.66]	NC
6. CADMIUM		2.8	2.5U	NC
7. CALCIUM		85100	77100	9.9
8. CHROMIUM		172	145	17
9. COBALT		[8.6]	[11]	NC
10. COPPER		49	52	5.9
11. IRON		20100	18700	7.2
12. LEAD		651	599	8.3
13. MAGNESIUM		45600	41300	9.9
14. MANGANESE		356	340	4.6
15. MERCURY		66	65	1.5
16. NICKEL		23	21	9.1
17. POTASSIUM		[782]	[997]	NC
18. SELENIUM		2.5w	2.5w	NC
19. SILVER		2U	2U	NC
20. SODIUM		[822]	[1210]	NC
21. THALLIUM		2U	2U	NC
22. TIN		696	715	2.7
23. VANDIUM		[13]	[17]	NC
24. ZINC		329	315	4.3
Other:				
Cyanide				

* Out of Control

[1] To be added at a later date.

[2] RPD = [|S-D|/((S+D)/2)] x 100

NC - Non calculable RPD due to value(s) less than CRDL

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Form VII

Q.C. Report No. 5839
INSTRUMENT DETECTION LIMITS AND
LABORATORY CONTROL SAMPLE

LAB NAME ROCKY MOUNTAIN ANALYTICAL
DATE 6/4/85

CASE NO 4274
UNITS ug/L

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l ICP/AA	Furnace	Lab Control Sample True	Found	%R
Metals:						
1. ALUMINUM	200	23		500	440	88
2. ANTIMONY	60	46		500	514	103
3. ARSENIC	10		4	~~42~~ 43	42	98
4. BARIUM	200	12		500	487	97
5. BERYLLIUM	5	0.5		100	101	101
6. CADMIUM	5	5		100	98	98
7. CALCIUM	5000	290		100000	109000	109
8. CHROMIUM	10	4		100	100	100
9. COBALT	50	7		100	94	94
10. COPPER	25	4		100	109	109
11. IRON	100	11		500	490	98
12. LEAD	5	23	2	500	452	90
13. MAGNESIUM	5000	330		100000	102000	102
14. MANGANESE	15	3		100	95	95
15. MERCURY	0.2		.10CV	1.00	0.98	98
16. NICKEL	40	5		100	104	104
17. POTASSIUM	5000	470		100000	99800	100
18. SELENIUM	5		2	~~42~~ 58	56	97
19. SILVER	10	4		100	91	91
20. SODIUM	5000	880		100000	99400	99
21. THALLIUM	10		4	~~42~~ 43	42	98
22. TIN	40	36		500	491	98
23. VANDIUM	50	4		100	99	99
24. ZINC	20	2		100	95	95
Other:						
Cyanide	10		10MS			

CV - Cold Vapor
MS - Manual Spectrophotometer

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