EPA Region 5 Records Ctr.
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INSPECTION REPORT
FOR
MONON CORPORATION
MONON/IN

IND005176326

R05-8607-04

SEPTEMBER 12, 1986

ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

M E M O R A N D U M

DATE: September 12, 1986

TO: File

FROM: Larry Lumeh

SUBJECT: Indiana/R05-8607-04/IN0550
Monon/Monon Corporation
IND005176326

Monon Corporation is a semi-trailer manufacturer that operates three sites in Monon. Plants No. 1 and 2 are in the southeast of town. All frabrication, painting, welding and the main office are at site No. 1 located at 117 South Walnut Street. Plant No. 2 is basically a holding/storage area located south of Plant No. 1 (see Figure 1). Plant No. 3 is located in the northwest part of Monon on State Route 16. This inspection and TDD pertains to Plant No. 3 which is used for preparing and installation of wood flooring and body for the trailers and tractor cleaning and repair (Figure 1).

This site was originally owned by [redacted] non-respon until Evans Product Company bought it in 1973. Evans Product Company became Evans Transportation Company which is a subsidiary of Monon Corporation. This site is used for truck body building and farm equipment (tractor) repair. Lumber for the truck body is prepared by coating with glue which contains chlorinated solvent. Waste glues, wood cutting and general refuse are discarded in bins which one pick up by Sergel disposal company and landfilled with general domestic refuse from Monon. The tractor repair shed maintains a 25 gallon container of solvent for cleaning tractor engine parts. Safety kleen changes the contents of this drum every 60 days, replacing the solvents with new supply and taking the used solvent to be recycled. A painting facility on the east of the offices used to be the painting site of

rebuilt trailers. Toluene was used to clean paint lines and hoses. The waste paint and solvent were collected every 90 days (averaging 500 gallons per quarter) by Frank Transportation Company and hauled to American Chemical Company for recycling. The paint shed (Figure 2) is no longer in use since the painting process was moved to Plant No. 1 on Walnut Street.

This facility is considered a generator only, so no RCRA permit exists for their operations. During the inspection, it was found that the facility depends on 2 wells on site for all their water supply (Figure 2); these wells hadn't been sampled for many months, even though there is evidence of Monon well field contamination about two mile away. The Indiana Department of Environmental Management (IDEM) and Region V EPA Technical Assistance Team (TAT) were notified of the wells, and was agreed they will arrange to sample the wells.

Soil samples collected on this facility proved to be relatively clean. Sample No. S-1, collected near the former paint shed, showed the presence of chromium (9.7 ppm) and lead (5.1 ppm). Sample S-2, collected near the tractor repair/cleaning shop contained lead (5.8 ppm) and chromium (3.5 ppm). Both samples were relatively clean of organic contaminants except for toluene which was found at levels of 0.002 ppm and 0.017 ppm in samples one and two respectively. Some unknown organics were found, more so in sample two than in one (see section five).

The site is well secured due to it remoteness from the population, and a link-chain fence completely surrounding the site. Fifty employees currently use water from private wells maintained on-site. A huge pile of saw-dust and several piles of lumber pose some fire hazard. This site was assessed as a potential source of TCE and PCE contamination of the Monon well field about 2 miles to the east southeast.

EPA

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

I. IDENTIFICATION
01 STATE: IND
02 SITE NUMBER: 005176326

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): Monon Corporation

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: State Route 16 West

03 CITY: MONON

04 STATE: IN | 05 ZIP CODE: 47959 | 06 COUNTY: WHITE | 07 COUNTY CODE: 181 | 08 CONG DIST: 5

09 COORDINATES: LATITUDE 40° 51' 50.0" | LONGITUDE 086° 57' 50.0"

10 TYPE OF OWNERSHIP (Check one): ■ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 05 / 29 / 86 (MONTH DAY YEAR)

02 SITE STATUS: ■ ACTIVE ☐ INACTIVE

03 YEARS OF OPERATION: 1976 / Present (BEGINNING YEAR / ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply): ☐ A. EPA ■ B. EPA CONTRACTOR Ecology & Envir., Inc. (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ___ (Name of firm) ☐ E. STATE ☐ F. STATE CONTRACTOR ___ (Name of firm) ☐ G. OTHER ___ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Larry Lumeh	Hydrogeologist	E & E	(312) 663-9415

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO
Ken Krueger	Envir. Scientist	E & E	(312) 663-9415
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Krieg Yong.	Plant Supervisor	Monon Corp. 117 N. Walnut St. Monon, IN 47959	(219) 253-6621
Larry Beauchamp	Forman, Tractor Repair Section	[redacted]	( ) "
Tom Kesler	Forman Truck Building Section	"	( ) "
Melinda Haag (Facility Attorney)	Attorney	INDPLS, IN.	(317) 927-0740
Bob Allen	Superintendent	117 N. Walnut St. Monon, IN 47959	(219) 253-6621
			( )

Non=Responsive

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	11.00 AM	Sunny, Mild 75°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Don Josif	Region 5, E.P.A., Chicago	(312) 886-0393

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Larry Lumeh		E & E	(312) 663-9415	09 / 12 / 86 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IND	005176326

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 must estimate)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS ~ 10

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	500	Gallons	Safety Kleen fills their need and picks up used solvent. The Quantity is a quaterly estimate.
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
Sol	Toluene, Perchloroethene, Trichloroethene		No Storage. Safety Kleen fills requirement and hauls used solvent away.	Unknown	Unknown

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)

Larry Beauchamp
Bob Allen
Kreig Young.

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: IND | 02 SITE NUMBER: 005176326

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ■ OBSERVED (DATE: Nov. 1985) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 1600 — 04 NARRATIVE DESCRIPTION
Municipal Wells about 2 miles South west of site are contaminated by T.C.E and PCE.

01 ■ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE:) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION
Effluent from city sewer systems eventually gets to lake Shafer which is a Major recreation attration in the area.

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: — 04 NARRATIVE DESCRIPTION
N/A

01 ■ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE:) — ■ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: Unknown Acres — 04 NARRATIVE DESCRIPTION
Some earth moving appears to have been done, especially around the old paint shed.

01 ■ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE:) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 1600 — 04 NARRATIVE DESCRIPTION
Municipal Wells about 2 miles from site are contaminated. This site could be a contributor to that pollution.

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

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

EPA

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

I. IDENTIFICATION
01 STATE: IND
02 SITE NUMBER: 005176326

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names(s) of species)
N/A

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

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

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
N/A

01 ■ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Facility on City Sewer System. Any spills or used water may be discharge to Sewer

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

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
The Company Maintains two Wells on Site which their workers use. These wells have not been Monitored for over 4 Years. This could be hazardous to workers

III. TOTAL POPULATION POTENTIALLY AFFECTED: 1600

IV. COMMENTS
Monon Township totally dependent on 2 wells for potable water supplies. These wells have been Contaminated by TCE and PCE.

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

SEPA

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

I. IDENTIFICATION
01 STATE: IND | 02 SITE NUMBER: 005176326

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				They are not
☐ C. AIR				Considered as
☐ D. RCRA				generators, So they
☐ E. RCRA INTERIM STATUS	None			don't require any
☐ F. SPCC PLAN				permits.
☐ 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	500 gal/qtr	gall/qtr.
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

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

05 OTHER
- ■ A. BUILDINGS ON SITE

06 AREA OF SITE: 7.0 (Acres)

07 COMMENTS

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.

The solvent needs of company is filled by Safety Kleen who bring in about 500 gallons/qtr and takes away the used solvents which are kept in drums.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ■ NO

02 COMMENTS Site is fenced in with a gate. However, there is no guard after work hours.

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

Larry Beauchamp
Bob Allen
Tom Kesler

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION
01 STATE: IND | 02 SITE NUMBER: 005776226

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check all applicable)

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

02 STATUS

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

03 DISTANCE TO SITE
A. 2.0 (mi)
B. 0.0 (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 1600

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.0 (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
30 (ft)	S.S.E.	25 (ft)	200,000 (gpd)	■ YES ☐ NO

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

10 RECHARGE AREA
☐ YES
☐ NO
COMMENTS Could be a recharge area by infiltration

11 DISCHARGE AREA
☐ YES
■ NO
COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Big Manoa Creek	☐	3.0 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 180	B. 750	C. 1600
NO. OF PERSONS	NO. OF PERSONS	NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION 0.10 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 197

04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.10 (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)

Two homes are with 1000 feet of site. These are rural farming family homes averaging about 4 persons per house.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IND	005176326

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

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

02 PERMEABILITY OF BEDROCK (Check one)

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

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
60 (ft)	Unknown (ft)	Unknown

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
2.5 (in)	2.0 (in)	0.05 %	S.S.E	0.05 %

09 FLOOD POTENTIAL

SITE IS IN Unknown YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A >3.0 (mi)

OTHER: B N/A (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

7.5 (mi)

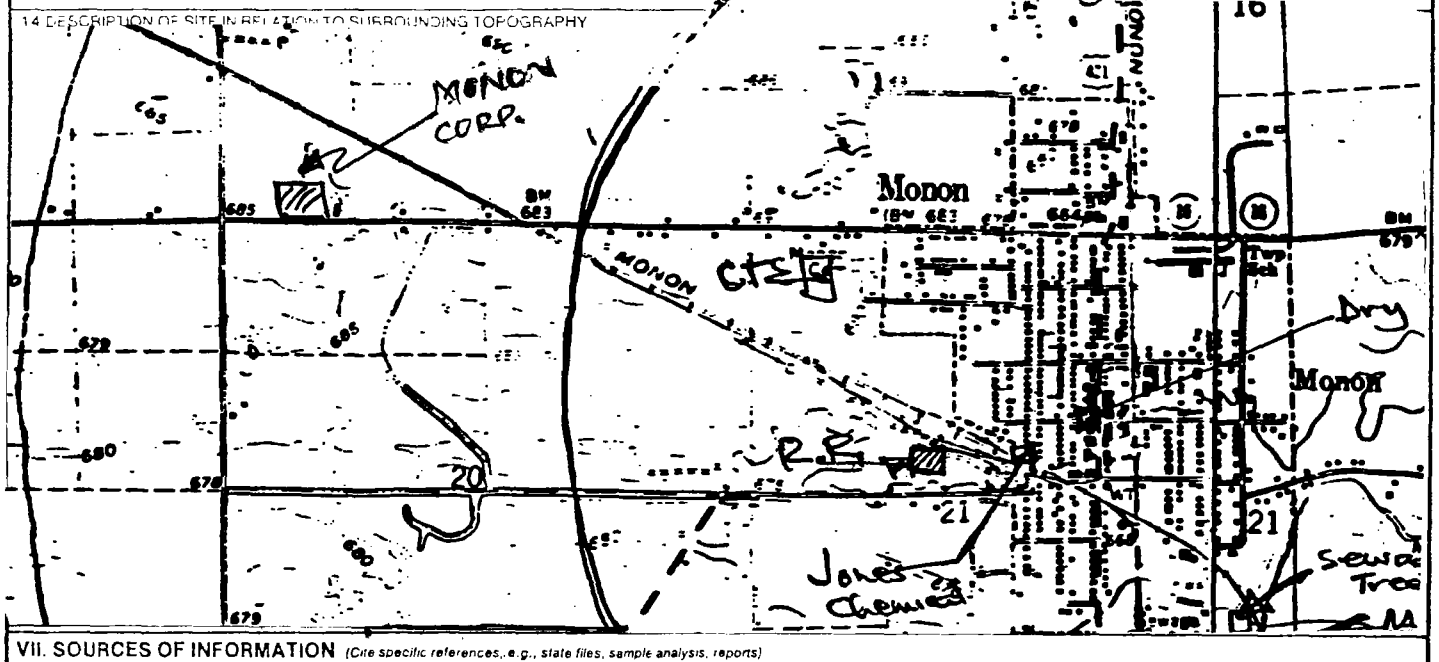
ENDANGERED SPECIES: Indiana Bat

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. 2.0 (mi)	B. 0.5 (mi)	C. — (mi)	D. 0.10 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



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

E x E files

Climatic Atlas of U.S.

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IND	005176326

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	2	organic to Hazelton	July
VEGETATION		Metals to RMAL	
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNU	All entry equipment readings were either below or at background levels.
Rad Mini	
Draeger pump.	

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL

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

03 MAPS ■ YES ☐ NO

04 LOCATION OF MAPS E & E files

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None

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

E & E files

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IND	005176326

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
Evans Transp. Co.		117 N. Walnut St		Manon	IN	47959

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
Evans Transp. Co		2250 Gulf Road		Rolling Meadows	IL	60008

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
Evans Product Co.		2250 Gulf Rd.	non-respon	Rolling Meadows	IL	non-respon 60008
non-re[redacted]		[redacted]				

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
None						

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

Krieg Young
Bob Allen

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION
01 STATE: IND | 02 SITE NUMBER: 005176326

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME: Manon Corporation	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 117 N. Walnut St.	04 SIC CODE:
05 CITY: Manon	06 STATE: IN
07 ZIP CODE: 47959	
08 YEARS OF OPERATION: 1976-Present	09 NAME OF OWNER: Same

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME: Evans Trans. Co.	11 D+B NUMBER:
12 STREET ADDRESS (P.O. Box, RFD #, etc.): 2250 Golf Road	13 SIC CODE:
14 CITY: Rolling Meadows	15 STATE: IL
16 ZIP CODE: 60008	

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

01 NAME: Evans Product Co.	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 2250 Golf Rd.	04 SIC CODE:
05 CITY: Rolling Meadows	06 STATE: IL
07 ZIP CODE: 60008	
08 YEARS OF OPERATION: 1973-1976	09 NAME OF OWNER DURING THIS PERIOD: Same

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME: Same.	11 D+B NUMBER:
12 STREET ADDRESS (P.O. Box, RFD #, etc.):	13 SIC CODE:
14 CITY:	15 STATE:
16 ZIP CODE:	

01 NAME: [redacted] Non-Responsive	02 D+B NUMBER:
[redacted] ADDRESS (P.O. Box, RFD #, etc.): Unknown	04 SIC CODE:
05 CITY:	06 STATE:
07 ZIP CODE:	
08 YEARS OF OPERATION: ? - 1973	[redacted] Keith Jackson

[redacted]	[redacted]
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)

Krieg Young
Melinda Haag.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IND	005176826

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
Monon Corporation	

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

05 CITY	06 STATE	07 ZIP CODE
Monon	IN	47959

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
None			

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

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

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

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

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

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Safety Klean			

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)

Krieg Young
Bob Allen
Tom Kesler

EPA

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

I. IDENTIFICATION
01 STATE: IND 02 SITE NUMBER: 005126326

II PAST RESPONSE ACTIVITIES *(Continued)*

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

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

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

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

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

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

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

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

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

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

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

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

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

Krieg Young.
Bob Allen
Tom Kesler

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IND	005176326

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION ☐ YES ■ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION

N/A.

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

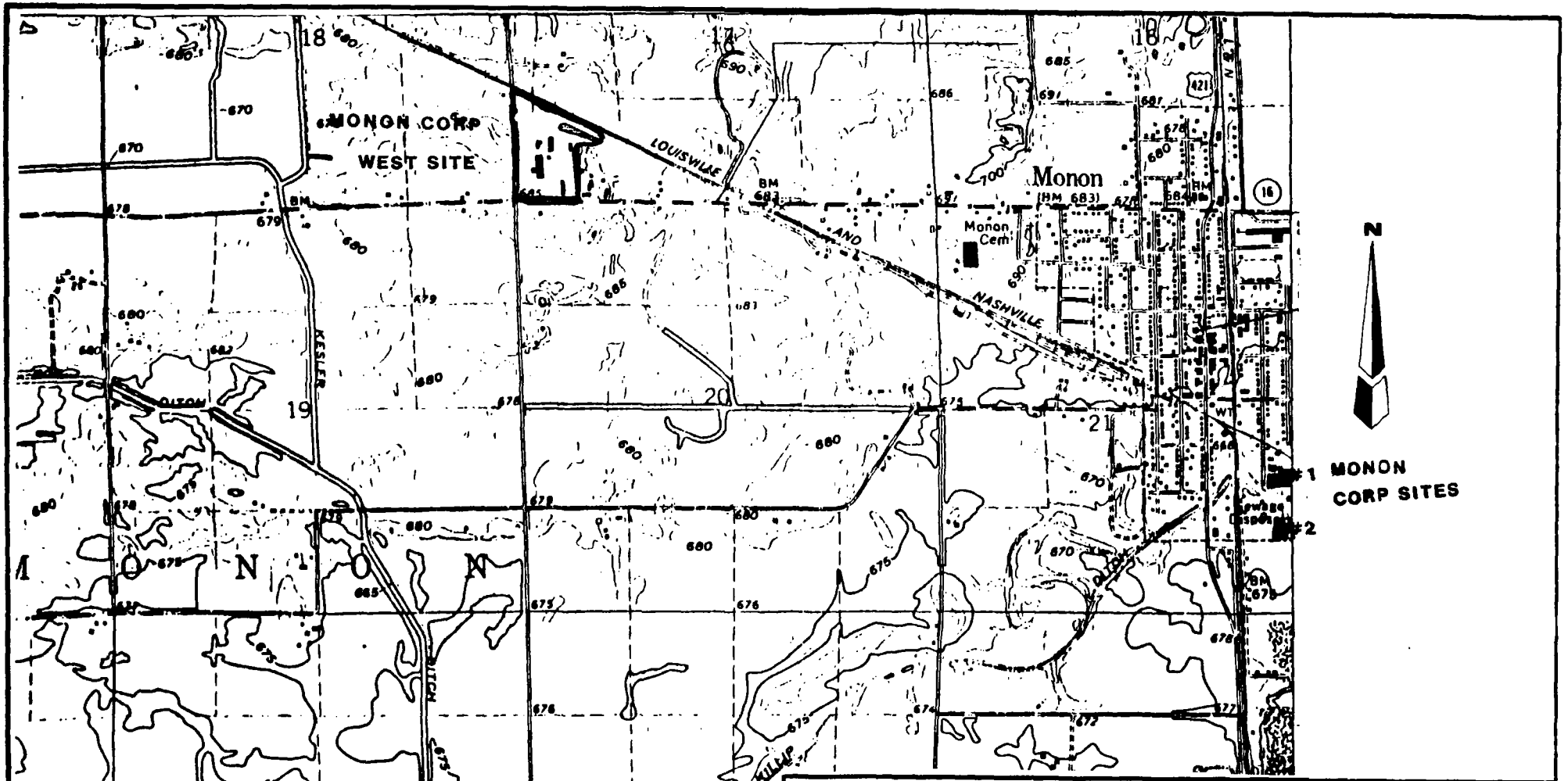
Krieg Young.
Melinda Haag.

EPA FORM 2070-13 (7-81)

Immediate Removal Action Check Sheet

	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			
Exceeds 10 Day Snarl			✓
Gross Taste or Odors			✓
Alternate Water Available		✓	
Potential Contamination			✓
Is the site abandoned or active? active			

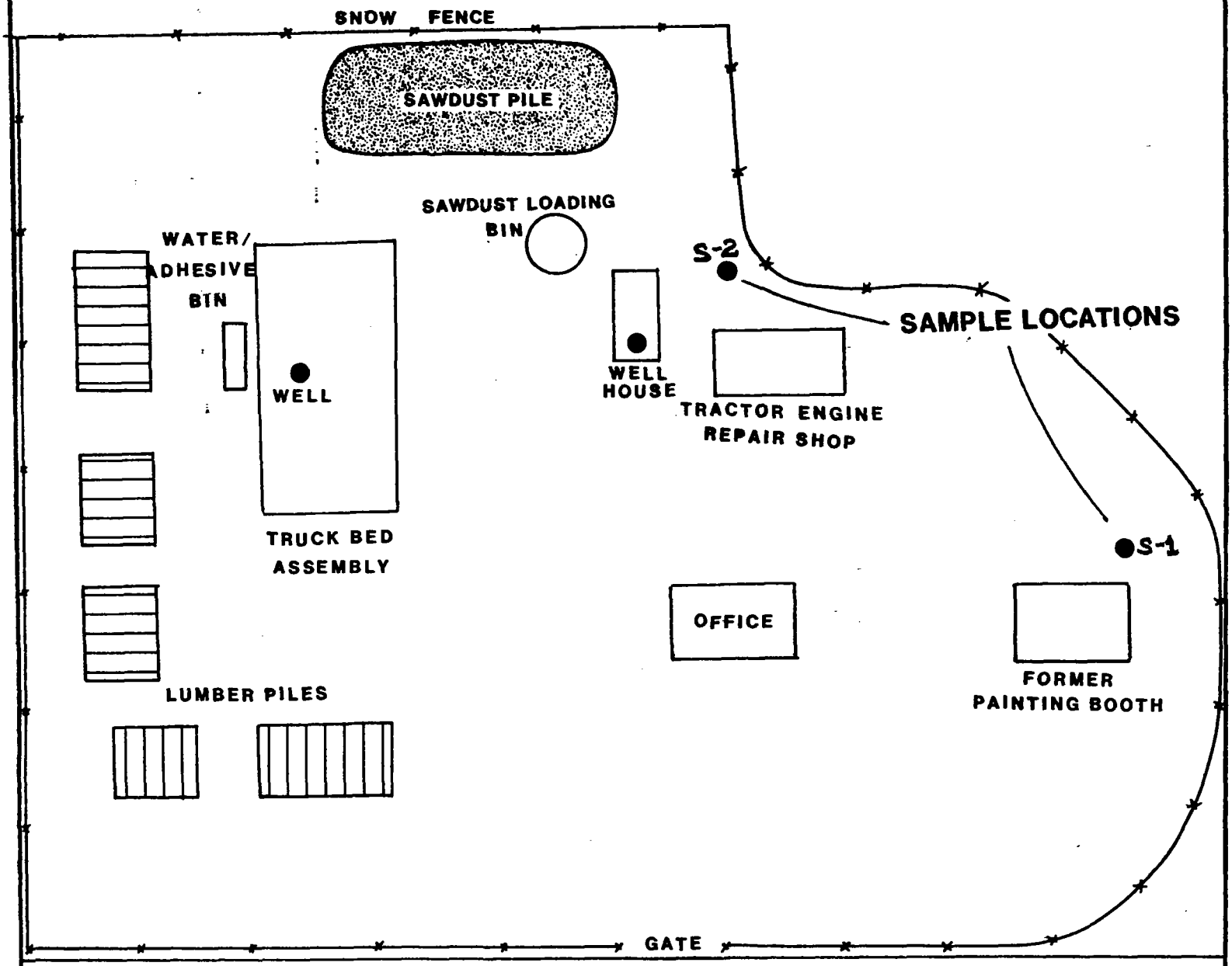
Comments: The site is relatively well secured and remote from the population. From soil analysis data, it should be safe. However, the wells on site are to be sampled and monitored on regular basis.



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

TITLE **MONON CORPORATION SITES**	FIGURE # FIGURE-1—
SITE MONON CORP WEST SITE	SCALE 1:24000
CITY MONON STATE INDIANA	TOD # R05-8605-09
SOURCE USGS	DATE 9/5/86
	REVISED



N

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

SCALE: NTS	R05-8605-09	DRAWN BY GFH
DATE: 7/2/86		REVISED

MONON CORPERATION SITE

DRAWING NUMBER
FIGURE-2-

INTRODUCTION TO DATA TABLES

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

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

II) DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A) ORGANICS

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

B) METALS

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

COMPOUND	ITC MEE 678	ITC MEE 677									
	OTC EH 663	OTC EH 664									
	SAMPLE S1 N.E. of Paint Shed (ppm)	SAMPLE S2 ENGINE Shop (ppm)									
chloromethane											
bromomethane											
vinyl chloride											
chloroethane											
methylene chloride	0.010B	0.008B									
acetone	0.026B	0.025B									
carbon disulfide											
1,1-dichloroethene											
1,1-dichloroethane											
trans-1,2,-dichloroethene											
chloroform		0.006									
1,2-dichloroethane											
2-butanone											
1,1,1-trichloroethane											
carbon tetrachloride											
vinyl acetate											
bromodichloromethane											
1,1,2,2-tetrachloroethane											
1,2-dichloropropane											
trans-1,3-dichloropropene											
trichloroethene											
dibromochloromethane											
1,1,2-trichloroethane											
benzene											
cis-1,3-dichloropropene											
2-chloroethylvinylether											
bromoform											
2-hexanone											
4-methyl-2-pentanone											
tetrachloroethene											
toluene	0.002J	0.017									
chlorobenzene											
ethylbenzene											
styrene											
total xylenes											
N-nitrosodimethylamine											
phenol											
aniline											
bis(2-chloroethyl)ether											
2-chlorophenol											
1,3-dichlorobenzene											
1,4-dichlorobenzene											
benzyl alcohol											
1,2-dichlorobenzene											
2-methylphenol											
bis(2-chloroisopropyl)ether											
4-methylphenol											
N-nitroso-di-n-propylamine											
hexachloroethane											
nitrobenzene											
isophrone											
2-nitrophenol											
2,4-dimethylphenol											
benzoic acid											
bis(2-chloroethoxy)methane											
2,4-dichlorophenol											
1,2,4-trichlorobenzene											
napthalene											
4-chloroaniline											
hexachlorobutadiene											
4-chloro-3-methylphenol											
2-methylnapthalene											
hexachlorocyclopentadiene											
2,4,6-trichlorophenol											
2,4,5-trichlorophenol											
2-chloronaphthalene											
2-nitroaniline											
dimethyl phthalate											
acenapthylene											
3-nitroaniline											
acenaphthene											
2,4-dinitrophenol											
4-nitrophenol											
dibenzofuran											
2,4-dinitrotoluene											
2,6-dinitrotoluene											
diethylphthalate											
4-chlorophenyl-phenylether											
flourene											
4-nitroaniline											
4,6-dinitro-2-methylphenol											
N-nitrosodiphenylamine											
4-bromophenyl-phenylether											
hexachlorobenzene											

STATE INDIANA SITE MONON CORPORATION TDD 1205-8607-04 PAGE 1 OF 2, SET # ____

	ITC	MEE 678	MEE 679
	DTC	EH 663	EH 664
	SAMPLE	S1 NE of Paint shed (ppm)	S2 ENGINE SHOP ppm.
COMPOUND			
pentachlorophenol			
phenanthrene			
anthracene			
di-n-butylphthalate		1.80B	2.90B
fluoranthene			
benzidine			
pyrene			
butylbenzylphthalate			
3,3'-dichlorobenzidine			
benzo(a)anthracene			
bis(2-ethylhexyl)phthlate			
chrysene			
di-n-octyl phthlate			
benzo(b&k)fluoranthene			
benzo(a)pyrene			
indeno(1,2,3-cd)pyrene			
dibenzo(a,h)anthracene			
benzo(g,h,i)perylene			
alpha-BHC			
beta-BHC			
delta-BHC			
gamma-BHC(lindane)			
heptachlor			
aldrin			
heptachlor epoxide			
endosulfan I			
dieldrin			
4,4'-DDE			
endrin			
endosulfan II			
4,4'-DDD			
endrin aldehyde			
endosulfan sulfate			
4,4'-DDT			
methoxychlor			
endrin ketone			
chlorodane			
toxaphene			
Aroclor-1016			
Aroclor-1221			
Aroclor-1232			
Aroclor-1242			
Aroclor-1248			
Aroclor-1254			
Aroclor-1260			
ELEMENT			
aluminum			
antimony		14.0U	15U
arsenic		5.5U	5.8U
barium			
beryllium		0.55U	0.58U
cadmium		2.78U	2.9U
calcium			
chromium		9.7	[3.5]
cobalt		3.8U	4.1U
copper		[4.0]	[7.0]
iron			
lead		5.1	5.8
magnesium			
manganese		56	36
mercury		0.1U	0.9U
nickel		[3.3]	[4.5]
potassium			
selenium		2.7U	2.9U
silver		[1.9]	1.7U
sodium			
thallium		5.5U	5.8U
tin		[13]	[17]
vanadium		[4.4]	[9]
zinc		26	21
cyanide CHECK IF ANALYZED (✓)		0.55U	0.58U
TENTATIVELY IDENTIFIED ORGANICS			
Pentane		0.012B	
4-Methyloctane		0.47B	0.48B
3- " "		0.64B	0.64B
Unknown		0.23	0.26
Unknown		0.37	0.38
Unknown		0.41	0.20
Unknown		0.54	0.68

STATE INDIANA SITE MONON CORPORATION TDD ROS-8607-04 PAGE 2 OF 2, SET # ____

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International Specialists in the Environment

Date Received for Review: 8/7/86 Date Review Completed: 8/15/86

TO: Larry Lumeh

FROM: Renee Hix Mays

SUBJECT: Monon Corp., IN
RS-8602-01

Sample Description: Case # 6005 Two Low soil organics

Project Data Status: complete for all data

FIT Data Review Findings:
See Tom Clynes review.

Additional Comments:

Book No. 5
Page No. 142

recycled paper

RECEIVED AUG 0 7 1986

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 8/5/86

SUBJECT: Review of Region V CLP Data
Received for Review on _____30 JUNE 86_____

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

TO; Data User:_____FIT_____

_____

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

SITE NAME____MENEN CORPINE CLEANING_____SMO Case No. _6005_____
NO. OF D.U./ACTIVITY
EPA DATA SET NO__SF_3265___SAMPLES__2____NUMBERS__Y905/C48500___

CRL No:__86FL06S89 - 86FL06S90 _____

SMO
Traffic No.___EH 643 AND EH 664_____
Hrs. Required
CLP Laboratory:___HAZELTON_____ for Review:___4_____

Following are our findings.

A TIMES TUNING ACCEPTABLE.

B SURROGATES ACCEPTABLE.

C MS/MSD ACCEPTABLE, PENTACHLOROPHENOL HAD PROBLEMS.

D LAB BLANKS VOA ACCEPTABLE.
SV DI-N-BUTYL PHTHALATE WAS FOUND AT 5X CRDL.
THIS IS A LAB ARTIFACT ATTRIBUTED TO THE FILTER MATERIAL.

Reviewed 25 July 86

E TUNING ACCEPTABLE.

( ) Data are acceptable for use.
(x) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by contractor lab.
( ) Data are unacceptable.

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

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SITE NAME____MENEN CORPINE CLEANING_____SMD Case No. _6005_____

F CALIBRATION **INITIAL**

VOA	RF-AVE	BROMOMETHANE	< 0.30
		2-BUTANONE	< 0.30
	%RSD	3 > 30%	
SV	ACCEPTABLE		

CONTINUOUS

VOA	RF	BROMOMETHANE	< 0.30
		2-BUTANONE	"
	%D	1 > 25%	
SV	RF	ACCEPTABLE	
	%D	12 > 25%	

NO SPCC OR CCC INVOLVED. NO HRS SV HITS IN THIS CASE.

RECEIVED AUG 0 7 1986

<<<< USER'S INFORMATION >>>>

SITE NAME____MENEN CORPINE CLEANING_____SMO Case No. _6005_____

DATE: 23 JULY 86 **REVIEWER:** TOM CLYNE
ECOLOGY& ENVIRONMENT

			HRS HITS	µG/L
EH663	TIMES	ACCEPTABLE		
	HSL VOA	TOLUENE		2.J
	SV	DI-N-BUTYL PHTHALATE, ARTIFACT.		1800.B
	PEST	NONE		
	TIC VOA	PENTANE, FOUND IN LAB BLANK		
	SV	3- AND 4-METHYL OCTANE, FOUND IN LAB BLANK.		
EH664	TIMES	ACCEPTABLE		
	HSL VOA	CHLOROFORM	*	6.
		TOLUENE	*	15.
	SV	DI-N-BUTYL PHTHALATE, ARTIFACT.		2900.B
	PEST	NONE		
	TIC VOA	2- AND 3-METHYL HEXANE		
	SV	3- AND 4-METHYL OCTANE, FOUND IN LAB BLANK. PLUS 9 OTHER COMPOUNDS.		

SUMMARY

EH664 HAS TWO COMPOUNDS WHICH CAN BE USED FOR HRS PURPOSES. THEY ARE VERY COMMON IN THE LABORATORY AND COULD BE REALLY LAB ARTIFACTS. CHECK SITE HISTORY.

IT SHOULD BE NOTED THAT THE LAB DID FIND β-BHC IN BOTH SAMPLES ON THE QUANT COLUMN, BUT COULD NOT CONFIRM THIS ON THE CONFIRMATION COLUMN. CHECK SITE HISTORY.

RECHECK OADS FORMS FOR ERRORS.

TOM

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HAZLETON LABORATORIES AMERICA, INC.

3301 KINSMAN BLVD • P.O. BOX 7545 • MADISON, WI 53707 • (608) 241-4471 • TLX 703956 HAZRAL MDS UD

5F3265

RECEIVED

JUL 1 0 1986

U.S. EPA CENTRAL NUMBER
535 S. CLARK STREET
CHICAGO, ILLINOIS 60605

June 27, 1986

Sample Management Office
Viar and Company
300 North Lee Street
Alexandria VA 22314

Enclosed is the data package for Case No. 6005. These samples were received on May 30, 1986 from U. S. EPA Region V. All samples were analyzed and reported according to the protocols provided under our Contract No 68-01-6961.

Please note the following summary comments relating to the contractual quality control in this case:

- o <u>GC-MS Tuning.</u> All tuning requirements for both BFB and DFTPP for samples analyzed in this case were within contract criteria.

- o <u>Instrumental Calibrations.</u> All instrumental calibrations for all fractions analyzed were within contract criteria for both initial and continuing calibrations.

  Please note that on the Pesticide Evaluation Standards Summary (Form VIII), DBC is not added to our individual Mix B, toxaphene, or PCB 1260 standards when co-elution problems interfere with either a target compound or a major identifying peak on the column used. We also use an extra standard we call "column check" which contains only DDT and endrin and is used exclusively for the ongoing calculation of breakdown.

- o <u>Surrogate Recoveries.</u> All calculated surrogate recoveries for the volatile, semivolatile and pesticide fractions were found to be within contract criteria.

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- Method Blanks. All method blanks analyzed in the volatile and pesticide fractions were found to be within contract criteria. In the semi-volatile fraction the method blank was found to have di-N-butylphthalate above the 5 times the CRDL for common phthalate esters (2100 ug/kg). We have now found what we believe to be the source of the contamination, which is the filter paper used to filter the soil extracts. Re-extraction/reanalysis of the soils was not performed due to the late discovery of the source of the contamination. Dennis Weslowski of Region V was notified of this problem on June 27, 1986 by a phone conversation.

If you have any questions regarding this case or need any further clarifications, please feel free to call.

Sincerely,

David C. Hills

David C. Hills
Manager, Environmental Analysis

DCH/mw

cc: USEPA Region V
USEPA EMSL-LV
Central File

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. 6005 Contract Laboratory HAZLETON LABORATORIES Contract No. 68-01-6961

Low ✓ Medium _____

	VOLATILE			SEMI-VOLATILE								PESTICIDE
SMO TRAFFIC NO.	TOLUENE-D8 (81-117)	BFB (74-121)	1,2 DICHLORO-ETHANE-D4 (70-121)	NITRO-BENZENE-D5 (23-120)	2-FLUORO-BIPHENYL (30-115)	TERPHENYL-D14 (18-137)			PHENOL-D5 (24-113)	2-FLUORO-PHENOL (25-121)	2,4,6 TRIBROMO-PHENOL (19-122)	** DIBUTYL-CHLORENDATE (20-150)
EH663	102	103	96	62	63	67			51	62	33	72
EH664	102	99	96	49	76	65			63	54	56	65
EH664MS	103	94	93	58	91	73			52	63	68	92
EH664MSD	110	94	105	56	78	58			60	53	60	83
MB-131302	93	105	113	NR	NR	NR			NR	NR	NR	NR
MB-131307	104	103	100	NR	NR	NR			NR	NR	NR	NR
MB-127540	NR	NR	NR	74	72	78			61	62	30	NR
MB-1PEST	NR	NR	NR	NR	NR	NR			NR	NR	NR	52

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: 0 out of 18 ; outside of QC limits

Semi-Volatiles: 0 out of 30 ; outside of QC limits

Pesticides: 0 out of 5 ; outside of QC limits

7/85

Comments: _____

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FORM II

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. 6005 **Contractor** HAZLETON LABORATORIES **Contract No.** 68-01-6961

Low Level X **Medium Level** _____

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/Kg)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS* RPD	QC LIMITS* RECOVERY
VOA SMO SAMPLE NO. EH664	1,1-Dicholorethene	58	0	49	84	48	83	1	22	59-172
	Trichloroethene			56	97	56	97	0	24	62-137
	Chlorobenzene			59	102	60	103	1	21	60-133
	Toluene		17	69	90	74	98	8	21	59-139
	Benzene		0	53	91	55	95	4	21	66-142
B/N SMO SAMPLE NO. EH664	1,2,4-Trichlorobenzene	1930	0	780	40	810	42	4	23	38-107
	Acenaphthene			1060	55	1030	53	3	19	31-137
	2,4 Dinitrotoluene			1180	61	1030	53	14	47	28-89
	Pyrene			1270	66	1070	55	17	36	35-142
	N-Nitrosodi-n-Propylamine			900	47	810	42	11	38	41-126
	1,4-Dichlorobenzene			760	39	790	41	4	27	28-104
ACID SMO SAMPLE NO. EH664	Pentachlorophenol	3860		150	4*	0	0*	200*	47	17-109
	Phenol			2740	71	2500	65	9	35	26-90
	2-Chlorophenol			2040	53	2010	52	1	50	25-102
	4-Chloro-3-Methylphenol			2380	62	2430	63	2	33	26-103
	4-Nitrophenol			3340	87	2960	77	12	50	11-114
PEST SMO SAMPLE NO. EH664	Lindane	30	0	21.7	73	20.7	70	5	50	46-127
	Heptachlor			20.8	70	20.2	68	3	31	35-130
	Aldrin			13.6	46	12.4	42	9	43	34-132
	Dieldrin	74		39.6	54	35.6	48	11	38	31-134
	Endrin			58.0	78	52.2	71	11	45	42-139
	4,4'-DDT			55.8	75	46.4	63	18	50	23-134

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs 0 out of 5 ; outside QC limits
B/N 0 out of 6 ; outside QC limits
ACID 1 out of 5 ; outside QC limits
PEST 0 out of 6 ; outside QC limits

RECOVERY: VOAs 0 out of 10 ; outside QC limits
B/N 0 out of 12 ; outside QC limits
ACID 2 out of 10 ; outside QC limits
PEST 0 out of 12 ; outside QC limits

Comments: _____

RECEIVED AUG 07 1986

METHOD BLANK SUMMARY

Case No. 6005 Region V Contractor HAZLETON LABORATORIES Contract No. 68-01-6961

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
MB-1 31302	6-5-86	VOA	Soil	L	HP5993	75-09-2	Methylene Chloride	9	µg/kg	5
						67-64-1	Acetone	18		10
						109660	Pentane	6		–
MB-1 31307	6-5-86	VOA	Soil	L	HP5993	75-09-2	Methylene chloride	4	µg/kg	5
						67-64-1	Acetone	8		10
						109660	Pentane	8		–
MB-1 27540	6-6-86	BNA	Soil	L	HP5985	84-66-2	Diethylphthalate	28	µg/kg	330
						84-74-2	Di-N-butyl phthalate	2100		330
						2216-34-4	4-methyloctane	710		–
						2216-33-3	3-methyloctane	160		–
						–	Unknown	340		–
						–	Unknown	390		–
						–	Unknown	640		–
MB-1 PEST	6-20-86	PEST	Soil	L	278211	–	No pesticides found	–	–	–

Comments:

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RECEIVED AUG 0 7 1986

86FL06589

Sample Number
EH663

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: HAZLETON LABORATORIES

Case No: 6005

Lab Sample ID No: 60505991

QC Report No:

Sample Matrix: soil

Contract No: 68-01-6961

Data Release Authorized By: David C. [illegible]

Date Sample Received: 5-30-86

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 6-5-86 1 FRN 31303

Date Analyzed: 6-5-86 1706

Conc/Dil Factor: 1 pH 6.2

Percent Moisture: (Not Decanted) 8.4

C.F. = 1.09

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	11U
74-83-9	Bromomethane	11U
75-01-4	Vinyl Chloride	11U
75-00-3	Chloroethane	11U
75-09-2	Methylene Chloride	108 —
67-64-1	Acetone	268 —
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	11U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	11U
75-27-4	Bromodichloromethane	5U

CAS Number		ug/l or ug/Kg (Circle One)
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	11U
75-25-2	Bromoform	5U
108-10-1	4-Methyl-2-Pentanone	11U
591-78-6	2-Hexanone	11U
127-18-4	Tetrachloroethene	5U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
108-88-3	Toluene	2J
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 action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

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

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

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

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

RECEIVED AUG 0 7 1986

Laboratory Name HAZLETON LABORATORIES

Case No 6005

Sample Number
EH663

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared 6-4-86

Date Analyzed 6-6-86

Conc/Dil Factor 1 FRN 27541

Percent Moisture (Decanted) -8.4% 1529

C.F. 1.09

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
108-95-2	Phenol	360U
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1 3-Dichlorobenzene	
106-46-7	1. 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1. 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2. 4-Dimethylphenol	↓
65-85-0	Benzoic Acid	1800U
111-91-1	bis(-2-Chloroethoxy)Methane	360U
120-83-2	2. 4-Dichlorophenol	
120-82-1	1. 2. 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2. 4. 6-Trichlorophenol	↓
95-95-4	2. 4. 5-Trichlorophenol	1800U
91-58-7	2-Chloronaphthalene	360U
88-74-4	2-Nitroaniline	1800U
131-11-3	Dimethyl Phthalate	360U
208-96-8	Acenaphthylene	360U
99-09-2	3-Nitroaniline	1800U

CAS Number		ug/l or (ug/Kg) (Circle One)
83-32-9	Acenaphthene	360U
51-28-5	2. 4-Dinitrophenol	1800U
100-02-7	4-Nitrophenol	1800U
132-64-9	Dibenzofuran	360U
121-14-2	2. 4-Dinitrotoluene	
606-20-2	2. 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	↓
100-01-6	4-Nitroaniline	1800U
534-52-1	4. 6-Dinitro-2-Methylphenol	1800U
86-30-6	N-Nitrosodiphenylamine (1)	360U
101-55-3	4-Bromophenyl-phenylether	360U
118-74-1	Hexachlorobenzene	360U
87-86-5	Pentachlorophenol	1800U
85-01-8	Phenanthrene	360U
120-12-7	Anthracene	360U
84-74-2	Di-n-Butylphthalate	1800B ← lab artifact TC
206-44-0	Fluoranthene	360U
129-00-0	Pyrene	360U
85-68-7	Butylbenzylphthalate	360U
91-94-1	3 3'-Dichlorobenzidine	720U
56-55-3	Benzo(a)Anthracene	360U
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1. 2. 3-cd)Pyrene	
53-70-3	Dibenz(a. h)Anthracene	
191-24-2	Benzo(g. h. i)Perylene	↓

(1)-Cannot be separated from diphenylamine

RECEIVED AUG 0 7 1986

Laboratory Name HAZLETON LABORATORIES

Case No 6005

Sample Number
EH 663

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 6/4/86

Date Analyzed: 6/20/86

Conc/Dil Factor: 1.0

Percent Moisture (decanted) 8.4

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)	
319-84-6	Alpha-BHC	8.7	U
319-85-7	Beta-BHC	8.7	U
319-86-8	Delta-BHC	8.7	U
58-89-9	Gamma-BHC (Lindane)	8.7	U
76-44-8	Heptachlor	8.7	U
309-00-2	Aldrin	8.7	U
1024-57-3	Heptachlor Epoxide	8.7	U
959-98-8	Endosulfan I	8.7	U
60-57-1	Dieldrin	17	U
72-55-9	4 4'-DDE	17	U
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4, 4'-DDD	17	U
1031-07-8	Endosulfan Sulfate	17	U
50-29-3	4 4'-DDT	17	U
72-43-5	Methoxychlor	87	U
53494-70-5	Endrin Ketone	17	U
57-74-9	Chlordane	87	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	87	U
11104-28-2	Aroclor-1221	87	U
11141-16-5	Aroclor-1232	87	U
53469-21-9	Aroclor-1242	87	U
12672-29-6	Aroclor-1248	87	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	170	U

proud in packed column at 8.7

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 27.5 g dry V_t 20,000 ul V_i 4.0 ul

RECEIVED AUG 07 1986

Laboratory Name: HAZLETON LABORATORIES

Case No: 6005

Sample Number
EH663

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. 109660	Pentane	VOA	201	12 B
2. 2216344	4-methyloctane	BNA	283	470 B
3. 2216333	3-methyloctane		299	640 B
4. –	Unknown		415	230
5. –	Unknown		501	370
6. –	Unknown		553	410
7. –	Unknown		2482	540
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Note: Found in lab blank

RECEIVED AUG 07 1986
86FL06907

Sample Number
EH664

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: HAZLETON LABORATORIES
Case No: 6005
Lab Sample ID No: 60505992
QC Report No:
Sample Matrix: soil
Contract No: 68-01-6961
Data Release Authorized By: Daniel C. Shiff
Date Sample Received: 5-30-86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 6-5-86 FRW 31304
Date Analyzed: 6-5-86 1746
Conc/Dil Factor: 1 pH 4.1
Percent Moisture: (Not Decanted) 13.5 C.F. = 1.16

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	12U
74-83-9	Bromomethane	12U
75-01-4	Vinyl Chloride	12U
75-00-3	Chloroethane	12U
75-09-2	Methylene Chloride	8 B
67-64-1	Acetone	25 B
75-15-0	Carbon Disulfide	6U
75-35-4	1, 1-Dichloroethene	6U
75-34-3	1, 1-Dichloroethane	6U
156-60-5	Trans-1, 2-Dichloroethene	6U
67-66-3	Chloroform	6
107-06-2	1, 2-Dichloroethane	6U
78-93-3	2-Butanone	12U
71-55-6	1, 1, 1-Trichloroethane	6U
56-23-5	Carbon Tetrachloride	6U
108-05-4	Vinyl Acetate	12U
75-27-4	Bromodichloromethane	6U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	6U
10061-02-6	Trans-1, 3-Dichloropropene	6U
79-01-6	Trichloroethene	6U
124-48-1	Dibromochloromethane	6U
79-00-5	1, 1, 2-Trichloroethane	6U
71-43-2	Benzene	6U
10061-01-5	cis-1, 3-Dichloropropene	6U
110-75-8	2-Chloroethylvinylether	12U
75-25-2	Bromoform	6U
108-10-1	4-Methyl-2-Pentanone	12U
591-78-6	2-Hexanone	12U
127-18-4	Tetrachloroethene	6U
79-34-5	1, 1, 2, 2-Tetrachloroethane	6U
108-88-3	Toluene	17
108-90-7	Chlorobenzene	6U
100-41-4	Ethylbenzene	6U
100-42-5	Styrene	6U
	Total Xylenes	6U

HSK

HSK

Data Reporting Qualifiers

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

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

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

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

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

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

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

RECEIVED AUG 0 7 1986

Laboratory Name HAZLETON LABORATORIES

Case No: 6005

Sample Number
EH664

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared 6-4-86

Date Analyzed 6-6-86

Conc/Dil Factor: 1 FRN 27542

Percent Moisture (Decanted) - 13.5% 1614
C.F. 1.16

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	380U
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	1900U
111-91-1	bis(-2-Chloroethoxy)Methane	380U
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	1900U
91-58-7	2-Chloronaphthalene	380U
88-74-4	2-Nitroaniline	1900U
131-11-3	Dimethyl Phthalate	380U
208-96-8	Acenaphthylene	380U
99-09-2	3-Nitroaniline	1900U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	380U
51-28-5	2, 4-Dinitrophenol	1900U
100-02-7	4-Nitrophenol	1900U
132-64-9	Dibenzofuran	380U
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	1900U
534-52-1	4, 6-Dinitro-2-Methylphenol	1900U
86-30-6	N-Nitrosodiphenylamine (1)	380U
101-55-3	4-Bromophenyl-phenylether	380U
118-74-1	Hexachlorobenzene	380U
87-86-5	Pentachlorophenol	1900U
85-01-8	Phenanthrene	380U
120-12-7	Anthracene	380U
84-74-2	Di-n-Butylphthalate	290JB
206-44-0	Fluoranthene	380U
129-00-0	Pyrene	380U
85-68-7	Butylbenzylphthalate	380U
91-94-1	3, 3'-Dichlorobenzidine	760U
56-55-3	Benzo(a)Anthracene	380U
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Lab artifact TL

RECEIVED AUG 0 7 1986

Laboratory Name HAZLETON LABORATORIES

Case No 6005

Sample Number
EH 664

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared: 6/4/86

Date Analyzed 6/21/86

Conc/Dil Factor: 1.0

Percent Moisture (decanted) 13.5

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	9.3	U
319-85-7	Beta-BHC	9.3	U
319-86-8	Delta-BHC	9.3	U
58-89-9	Gamma-BHC (Lindane)	9.3	U
76-44-8	Heptachlor	9.3	U
309-00-2	Aldrin	9.3	U
1024-57-3	Heptachlor Epoxide	9.3	U
959-98-8	Endosulfan I	9.3	U
60-57-1	Dieldrin	19	U
72-55-9	4 4'-DDE	19	U
72-20-8	Endrin	19	U
33213-65-9	Endosulfan II	19	U
72-54-8	4, 4'-DDD	19	U
1031-07-8	Endosulfan Sulfate	19	U
50-29-3	4 4'-DDT	19	U
72-43-5	Methoxychlor	93	U
53494-70-5	Endrin Ketone	19	U
57-74-9	Chlordane	93	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	93	U
11104-28-2	Aroclor-1221	93	U
11141-16-5	Aroclor-1232	93	U
53469-21-9	Aroclor-1242	93	U
12672-29-6	Aroclor-1248	93	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s ——— or W_s 26.0 g dry V_t 20,000 µl V_i 4.0 µl

RECEIVED AUG 07 1986

Laboratory Name: HAZLETON LABORATORIES

Case No: 6005

Sample Number: EH664

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.	591764	2-methyl hexane	VOA	354	8
2.	589344	3-methyl hexane	↓	346	12
3.	2216344	4-methyl octane	BNA	282	480B
4.	2216333	3-methyloctane		298	640B
5.	—	Unknown		502	260
6.	—	Unknown		552	380
7.	2396749	2H-Pyran-2,3-diol, tetrahydro-, diacetate, cis-		615	420
8.	—	Unknown		1760	200
9.	17851535	butyl-2-methylpropyl phthalate		2481	1200
10.	—	Unknown		2842	240
11.	—	Unknown		2924	680
12.	7616220	2H-1-Benzopyran-6-ol, 3,4-dihydro-2,7,8-trimethyl-2-(4,8,12-trimethyltridecyl)-		3089	380
13.	—	Unknown	↓	3261	590
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ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

Date Received for Review: 7/7/86 Date Review Completed: 7/7/86

TO: Larry Lumeh

FROM: Renee Hix Mays

SUBJECT: Monon Corp., IN
RS-8602-01

Sample Description: Case # 6005 Low soil inorganics.

Project Data Status: Still awaiting low soil organic results

FIT Data Review Findings:

Se, Fe, Pb & Mn values are estimated

Bracketed data shows result value greater than or equal to the instrument detection limit but below the contract required detection limit.

Additional Comments:

Data is acceptable with qualifications noted above.

Book No. 5
Page No. 142

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 7-3-86

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SUBJECT: Review of Region V CLP Data
Received for Review on 6/25/86

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory Gary Thelcker

TO: Data User: Fit

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

SITE NAME: Moron Corp SMO Case No. 6005

EPA Data Set No. SF3265 No. of Samples: 2 D.U./Activity Numbers Y905 / C48500

CRL No. 86FL06589 - 86FL06590

SMO Traffic No. MEE678 - MEE679

CLP Laboratory: RMAL Hrs. Required for Review: 1/2

Following are our findings.

This review covers analysis of two low level soils for metals and CN^-. Spike recovery is below CLP for Se (72%) and analysis performed by MSA. Duplication shows RPD above CLP for Fe (26), Pb (74), and Mn (24). These involved elements are flagged as estimated for exceeding CLP limits.

7-2-86 DM

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

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

EPA FORM 1320-4 (REV 3-76)

QC EXCEPTION SUMMARY REPORT

CASE # 6005
DATA SET # SF 3265
LAB Q.C.# 56023
DATE: 7-2-86

SITE Monson Corp.
LAB RMAL
REVIEWED BY Dorothy M. May

MATRIX: soil
CONC. : low

WATER SAMPLE SPK. MEF 678
WATER SAMPLE DUP. MEF 678
SOIL SAMPLE SPK.
SOIL SAMPLE DUP.

	OVERALL CASE QC									MATRIX SPECIFIC QC						SAMPLE SPECIFIC QC		FIELD QC			REGIONAL QC			OTHER/ COMMENTS
	Holding Time	Cal Blanks	Init. Calver	Contin. Calver	Prep. Blk AQ	Prep Blk SOL	ICS %R	LCS % AQ	LCS % SOL	Sol Dup RPD	Sol Spk. %R	AQ Dup RPD	AQ Spk. %R	Ser Dilu AQ	Ser Dilu SOL	GFAA Dup	GFAA Spike	Blank	Dup RPD	Spike %R	Blind Blank	Blind Spike %R	Split Sample RPD	
Aluminum																								
Antimony																								
Arsenic																								
Barium																								
Beryllium																								
Cadmium																								
Calcium																								
Chromium																								
Cobalt																								
Copper																								
Iron										26														
Lead										74														
Magnesium																								
Manganese										24														
Mercury																								
Nickel																								
Potassium																								
Selenium											72%													
Silver																								
Sodium																								
Thallium																								
Tin																								
Vanadium																								
Zinc																								
Cyanide																								

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DRAFT

REGION III
DATA USABILITY SUMMARY
(To be completed by the data reviewer)

Case No.: 6005 Laboratory: RMAL No. Samples: 2

Data Usability Decision Tally

Fraction	No. R	Basis*	No. J	Basis*	No. O	Comments
VOA						
BNA						
Pest/PCB						
RAS Dioxin						
Metals						Fe, Pb, Mn - G Se - F
CN-						

* Record basis for rejection or qualification using the following codes for data quality criteria:

VOA and BNA	Pest/PCB	RAS Dioxin	Metals/CN-
A: Holding time	A: Holding time	A: Holding time	A: Cover page
B: Tuning	B1: Field blank	B1: Field blank	B: Data sheets
C1: Field blank	B2: Laboratory blank	B2: Laboratory blank	C1: Initial calibration
C2: Laboratory blank	C: DDT retention time	C: Initial calibration	C2: Continuing calibration
D: Initial calibration	D: Retention time window	D: Continuing calibration	D1: Field blank
E: Continuing calibration	E: Analyt. seq. criteria	E: Performance check	D2: Labortory blank
F: Surrogate recovery	F: Degradation	F: Resolution	E: ICS
G: MS/MSD	G: DDC reten. time check	G: Response	F: Matrix spike
H: Completeness	H: Resolution check	H: Retention times	G: Duplicate
I: Other (specify)	I: Initial calibration	I: Surrogate recovery	H1: IDL
	J: Continuing calibration	J: Duplicate	H2: LCS
	K: Completeness	K: Detection limit	I: MSA
	L: Other (specify)	L: Extra clean-up	J: Holding time
		M: Partial scan confirm.	K: Raw data
		N: GC/MS tune	L: Traffic report
		O: Completeness	M: Serial dilution
		P: Other (specify)	N: Other (specify)

Time Accounting Information:

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

5F3265

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00001

Date 6-24-86

COVER PAGE
INORGANIC ANALYSIS DATA PACKAGE

Lab Name ROCKY MOUNTAIN ANALYTICAL
SOW No. 784

Case No. 6005
QC Report No. 56023

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MEE678D			
MEE678**			
MEE678S			
MEE679			
[MEE999]			

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JUN 25 1986
U.S. EPA, CENTRAL REGIONAL LAB.
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

Comments: 2 LOW SOILS FOR TASKS 1 2 + CN-
THE 10X SERIAL DILUTION FOR SAMPLE MEE679 IS IDENTIFIED AS [MEE999]

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

Footnotes:

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

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Form I

86FL06589

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

EPA Sample No.
MEE678

Date 6-24-86

INORGANIC ANALYSIS DATA SHEET

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

CASE NO. 6005
QC REPORT NO. 56023

Elements Identified and Measured

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

mg/kg dry weight

1.	ALUMINUM	1700	P	13.	MAGNESIUM	[204]	P
2.	ANTIMONY	14U	P	14.	MANGANESE	56	P X J
3.	ARSENIC	5.5U	F	15.	MERCURY	0.1U	CV
4.	BARIUM	[20]	P	16.	NICKEL	[3.3]	P
5.	BERYLLIUM	0.55U	P	17.	POTASSIUM	[330]	P
6.	CADMIUM	2.7U	P	18.	SELENIUM	2.7U	F R UJ
7.	CALCIUM	[661]	P	19.	SILVER	[1.9]	P
8.	CHROMIUM	9.7	P	20.	SODIUM	[2460]	P
9.	COBALT	3.8U	P	21.	THALLIUM	5.5U	F
10.	COPPER	[4]	P	22.	TIN	[13]	P
11.	IRON	2430	P X J	23.	VANADIUM	[4.4]	P
12.	LEAD	5.1	F X J	24.	ZINC	26	P

Cyanide 0.55U AS Percent Solids (%) 91

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

Comments:

Lab Manager [illegible]

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00003

Form I

86FL06590

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

EPA Sample No.
MEE679

Date 6-24-86

INORGANIC ANALYSIS DATA SHEET

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

CASE NO. 6005
QC REPORT NO. 56023

Elements Identified and Measured

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

mg/kg dry weight

1.	ALUMINUM	4730	P	13.	MAGNESIUM	[216]	P
2.	ANTIMONY	15U	P	14.	MANGANESE	36	P X J
3.	ARSENIC	5.8U	F	15.	MERCURY	0.1U	CV
4.	BARIUM	[28]	P	16.	NICKEL	[4.5]	P
5.	BERYLLIUM	0.58U	P	17.	POTASSIUM	315U	P
6.	CADMIUM	2.9U	P	18.	SELENIUM	2.9U	F R UJ
7.	CALCIUM	[437]	P	19.	SILVER	1.7U	P
8.	CHROMIUM	[3.5]	P	20.	SODIUM	380U	P
9.	COBALT	4.1U	P	21.	THALLIUM	5.8U	F
10.	COPPER	[7]	P	22.	TIN	[17]	P
11.	IRON	4530	P X J	23.	VANADIUM	[9]	P
12.	LEAD	5.8	F X J	24.	ZINC	21	P

Cyanide 0.58U AS Percent Solids (%) 86

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

Comments:

Lab Manager JML

Form III

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Q.C. Report No. 56023

00006

BLANKS

LAB NAME ROCKY MOUNTAIN ANALYTICAL

CASE NO. 6005

DATE 6-24-86

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	19U	19U				19U		
2. ANTIMONY	26U	26U				26U		
3. ARSENIC	10u	10u	10u			10u		F
4. BARIUM	11U	11U				11U		
5. BERYLLIUM	1U	1U				1U		
6. CADMIUM	5U	5U				5U		
7. CALCIUM	352U	352U				352U		
8. CHROMIUM	5U	5U				5U		
9. COBALT	7U	7U				7U		
10. COPPER	3U	3U				3U		
11. IRON	16U	16U				16U		
12. LEAD	5u	5u	5u			5u		F
13. MAGNESIUM	295U	295U				295U		
14. MANGANESE	4U	4U				4U		
15. MERCURY	0.2u	0.2u				0.2u		
16. NICKEL	6U	6U				6U		
17. POTASSIUM	542U	542U				542U		
18. SELENIUM	5u	5u	5u	5u		5u		
19. SILVER	3U	3U				3U		
20. SODIUM	653U	653U				653U		
21. THALLIUM	10u	10u	10u			10u		
22. TIN	16U	16U				16U		
23. VANADIUM	5U	5U				5U		
24. ZINC	2U	2U				[2.2]		
Other:								
Cyanide	10u	10u				10u		

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00008

Form V

Q.C. Report No. 56023

SPIKE SAMPLE RECOVERY

LAB NAME ROCKY MOUNTAIN ANALYTICAL

DATE 6-24-86

CASE NO. 6005
EPA Sample No. MEE678
Lab Sample ID No. -
Units mg/kg

MATRIX SOIL

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R[1]	
Metals:						
1. ALUMINUM	75-125	1680	1540	NR		
2. ANTIMONY	75-125	247	13U	250	99	
3. ARSENIC	75-125	20	5U	20	100	
4. BARIUM	75-125	884	[19]	1000	86	
5. BERYLLIUM	75-125	27	0.5U	25	108	
6. CADMIUM	75-125	25	2.5U	25	100	
7. CALCIUM	75-125	[612]	[601]	NR		
8. CHROMIUM	75-125	109	8.8	100	100	
9. COBALT	75-125	259	3.5U	250	104	
10. COPPER	75-125	135	[3.6]	125	105	
11. IRON	75-125	2560	2210	NR		
12. LEAD	75-125	16	4.6	10	114	
13. MAGNESIUM	75-125	[186]	[186]	NR		
14. MANGANESE	75-125	332	51	250	112	
15. MERCURY	75-125	0.6	0.1U	0.5	120	
16. NICKEL	75-125	258	[3]	250	102	
17. POTASSIUM	75-125	271U	[300]	NR		
18. SELENIUM	75-125	3.6 S	2.5U	5	72	R
19. SILVER	75-125	21	[1.7]	25	77	
20. SODIUM	75-125	327U	[2240]	NR		
21. THALLIUM	75-125	24	5U	25	96	
22. TIN	75-125	246	[12]	250	94	
23. VANADIUM	75-125	274	[4]	250	108	
24. ZINC	75-125	296	24	250	109	
Other:						
Cyanide	75-125	4.7	0.5U	5	94	

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

"R"- out of control

Comments: Spiked Sample Result for Selenium determined by Method of Standard Addition

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Form VI

00009

Q.C. Report No. 56023

DUPLICATES

LAB NAME ROCKY MOUNTAIN ANALYTICAL

DATE 6-24-86

CASE NO. 6005
EPA Sample No. MEE678D
Lab Sample ID No. -
Units mg/kg

Matrix SOIL

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]	
Metals:					
1. ALUMINUM		1540	1860	19	
2. ANTIMONY		13U	13U	NC	
3. ARSENIC		5U	5U	NC	
4. BARIUM		[19]	[18]	NC	
5. BERYLLIUM		0.5U	0.5U	NC	
6. CADMIUM		2.5U	2.5U	NC	
7. CALCIUM		[601]	[529]	NC	
8. CHROMIUM		8.8	12	31	
9. COBALT		3.5U	3.5U	NC	
10. COPPER		[3.6]	[4.5]	NC	
11. IRON		2210	2870	26	X
12. LEAD		4.6	10	74	X
13. MAGNESIUM		[186]	[186]	NC	
14. MANGANESE		51	65	24	X
15. MERCURY		0.1U	0.1U	NC	
16. NICKEL		[3]	3U	NC	
17. POTASSIUM		[300]	271U	NC	
18. SELENIUM		2.5U	2.5U	NC	
19. SILVER		[1.7]	[1.9]	NC	
20. SODIUM		[2240]	327U	NC	
21. THALLIUM		5U	5U	NC	
22. TIN		[12]	[18]	NC	
23. VANADIUM		[4]	[5.1]	NC	
24. ZINC		24	30	22	
Other:					
% Solids		91	92	1.1	
Cyanide		0.5U	0.5U	NC	

X 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

The following elements reported unflagged due to sample and/or duplicate concentration less than 5 times the CRDL and +/- CRDL:
CHROMIUM, ZINC