L0310000000 - Cook Co.
PARKVIEW MOBILE HOME PARK
ILD070246137

CERCLA
Screening Site Inspection Report

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

EPA Region 5 Records Ctr.
361936

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1. INTRODUCTION

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

The site was initially discovered by the Illinois Environmental Protection Agency (IEPA). The site was evaluated in the form of a Preliminary Assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Kenneth W. Corkill of the IEPA and is dated August 1, 1986. The SSI of the Parkview M.H.P. site was conducted on May 27, 1987, with a follow-up site inspection conducted on September 1, 1987. The IEPA SSI included a reconnaissance inspection of the site and the collection of seven soil samples.

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

> All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designed as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.
>
> The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI (U.S. EPA 1988).

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

2. SITE HISTORY

The Parkview Mobile Home Court, located at 6400 Cardinal Drive, Hodgkins, Illinois, was established in 1965 and is still operating as such at the present time.

The site occupies approximately 8-10 acres in each, the NE 1/4 and SE 1/4 of the NW 1/4 of Section 22, Township 38 North, Range 12 East in Cook County. (Figure 1 and Figure 2)

Initial complaints in early 1984 were in regard to a "white powder" which would periodically fall in the area of concern. The airborne substance would come to rest on all available surfaces including clothes hung out to dry and vegetables. Analysis of this substance identified it as "Perlite", a dry, white, odorless, non-flammable and non-toxic material made from volcanic rock. Perlite is used to aerate soil and as an insulation material. The manufacturing firm of Silbrico Corporation, 6300 River Road in Hodgkins, was identified as the source of the perlite leak. A malfunctioning baghouse collector was sited as the cause of the leak which allowed the perlite to escape. Identified leaks were as follows: June 5, 1984; October 10, 1984; July 19, 1985; September 13, 1985. The problem was said to have started in February of 1984 as noted by a resident of the mobile home park.

An investigation by members of the Cook County Department of Environmental Control was conducted on November 12, 1985 to look into the aforementioned problem, plus numerous odor and health complaints over the years from residents of the mobile home park. Complaints had increased from 1985 to 1987. Various health problems reported have been associated with sneezing, watery eyes, blisters on eyelids, swollen eyes, and shortness of breath. Previous investigations found persistent sulfurous aromas coming from near the mobile home park or the park itself.

Review of aerial photographs dated 1938, 1961 and 1981 indicated that the mobile home park was built on top of an old dump site owned by the same individual (Mr. Sam Eiserman) who owns the mobile home park. Based on available information, which is sketchy at best, the previous use of this site was for disposal of junk automobiles, lead batteries, 55-gallon drums, various appliances, etc. Upon discovering that Mr. Eiserman was the owner of the dump, he refused to discuss the matter with any environmental officials and would not allow monitoring equipment in the trailer park. Since the Agency's contact with Mr. Eiserman on March 18, 1987, access to the property was granted, allowing the site investigation to be completed.

KC:tk:4/31/24-2(8/8/88)

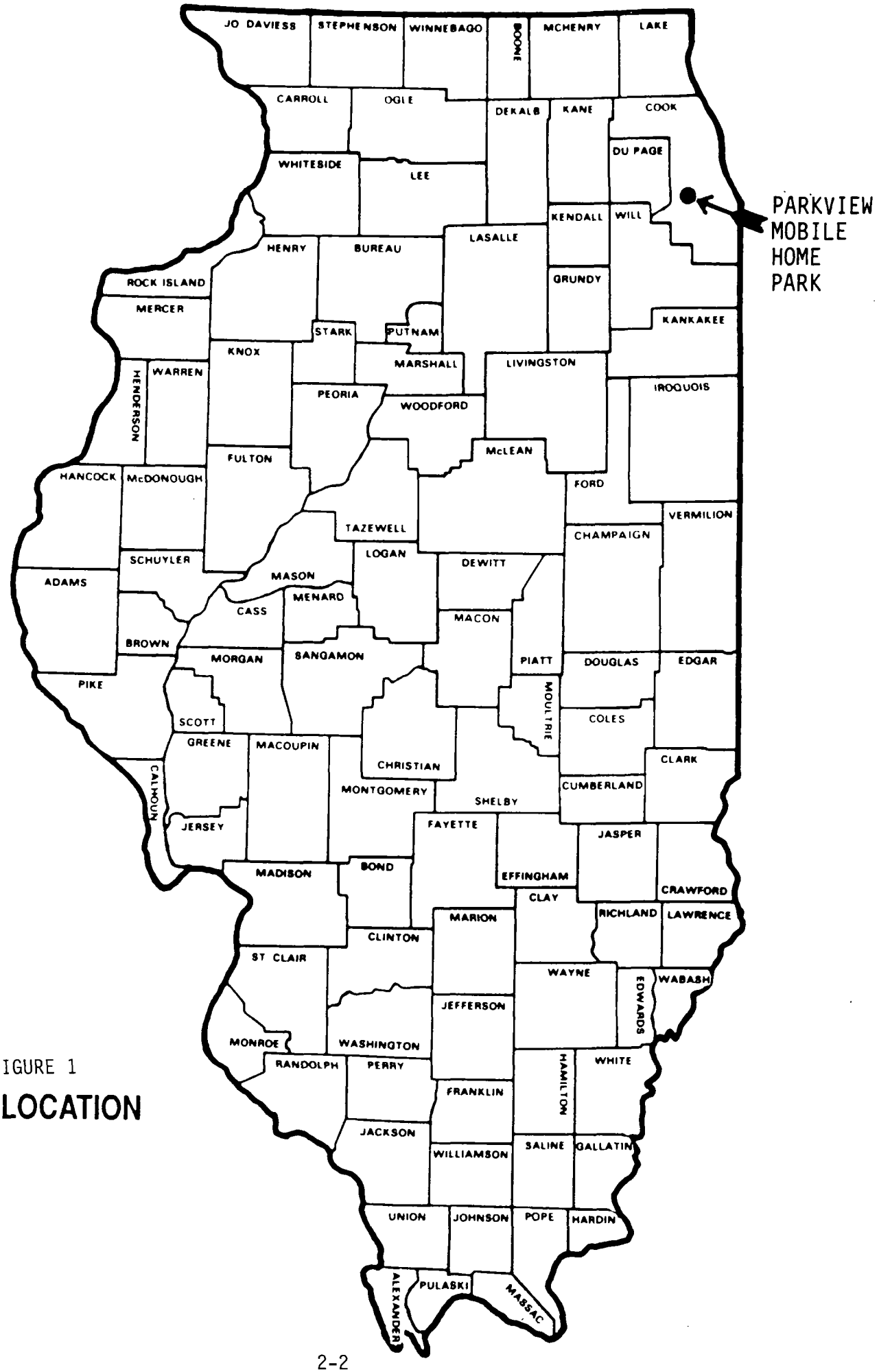
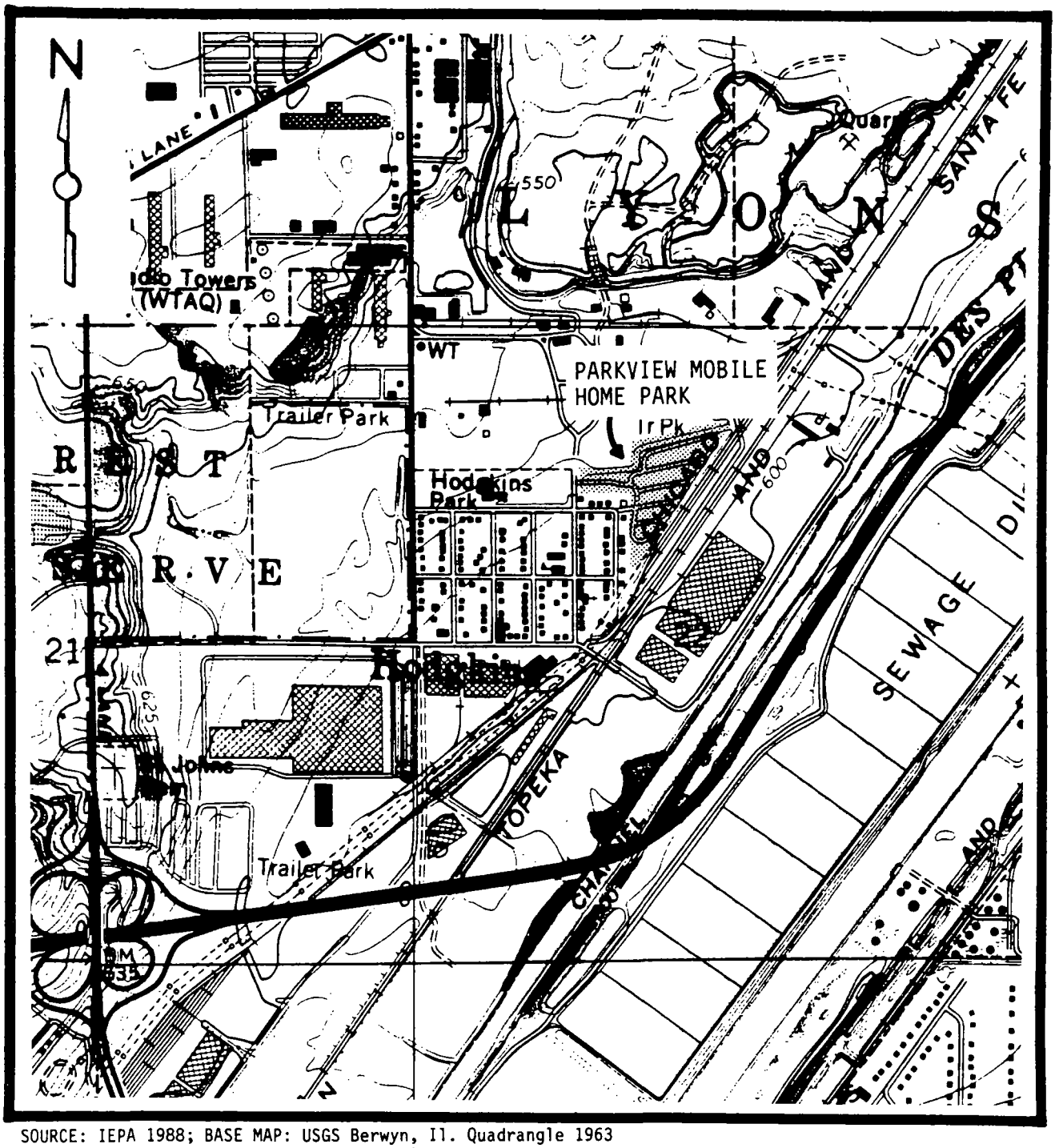


FIGURE 1

SITE LOCATION



SOURCE: IEPA 1988; BASE MAP: USGS Berwyn, Il. Quadrangle 1963
Photo Revised 1972 & 1980, 7.5 Minute Series

FIGURE 2

SITE MAP

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

Site Inspection of May 27, 1987

A site inspection was conducted at the above referenced site on May 27, 1987. Initial site entry was made at 11:08 a.m. at the main entrance to the mobile home park. At this point, the IEPA/SI sampling team, consisting of Ken Corkill and Greg Dunn, both of the RPMS Section, met with Mr. Michael Eiserman, attorney for Parkview, to explain and discuss the current situation, purpose of sampling and plan of action.

The first of three samples (taken by Ken Corkill) was taken at 12:00 p.m. adjacent to the visitor's parking area near the front entrance of the mobile home park. An Oakfield soil probe was used to take the samples. The probe was pushed into the soil to a depth of 2 1/2 - 3 feet where solid dolomite was encountered. The soil probe was shifted about 4 feet away from the initial hole in an effort to side-step the rock. This maneuver did not succeed in three such attempts. Sampling was done at the 2 1/2 - 3 foot depth where a number of samples were collected and composited once enough soil was gathered to fill the sample containers plus split the samples with Mr. Eiserman.

The second sample (taken by Ken Corkill) was taken at 12:30 p.m. from a vacant trailer lot near the north-northwest part of the trailer court. As with sample one, dolomite was encountered at 2 1/2 - 3 feet. Sampling followed the same format as with sample one.

The third sample (taken by Ken Corkill) was taken at 1:00 p.m. in Hodgkins Park, which is located west of the trailer park. This sample was taken approximately 20 feet inside the park's east boundary in the northeast quarter of the park. Dolomite was again encountered at 2 1/2 - 3 feet. Sampling followed the same format as samples one and two. (Figure 4 - Sample Locations)

During the soil sampling, Greg Dunn, using an HNu meter, checked the area for any organic gases which might have been emanating from the trailer park. Particular attention was given to the air space beneath various, randomly chosen trailers. No indication of organic vapors was detected other than background readings. An odor was noticed both inside and outside of the trailer park. With the wind being from the south-southeast, it would pick up odors from the Greater Chicago Metropolitan Sanitary District's sludge drying basins. It is my opinion that this odor is the odor which many residents have complained about in the past. The odor was not unique to the trailer park.

IL 532-0570
EPA-90 (Rev. 6/75-20M)

Sampling ended at 1:20 p.m. At 1:30 p.m., after demobilization and thanking Mr. Eiserman for being there and assuring him that the Agency would send him a copy of the SI package including the sample analysis, the site was vacated.

Follow-Up Site Inspection of September 1, 1987

On September 1, 1987, a follow-up site inspection was conducted based on information supplied by the Hodgkins building inspector. Information regarding a depression in the south portion of the old dump was of particular interest. (Figure 3)

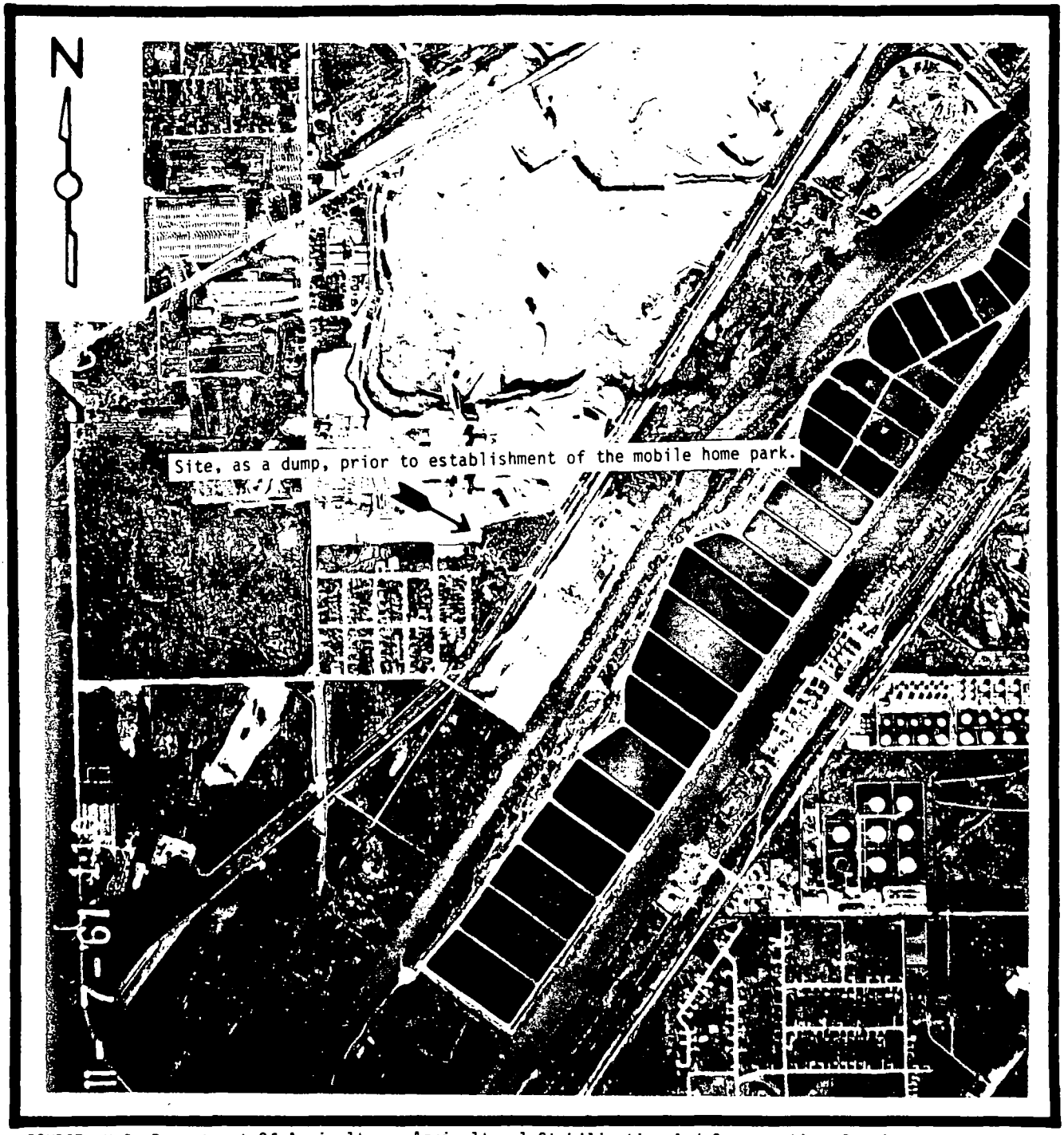
On the date stated above at 10:30 a.m., Tom Crause and Ken Corkill arrived at the Village Hall to meet the building inspector. However, at 10:55 a.m., he called and said his car had broken down in Lyons and would be there as soon as possible. He never made the meeting, even though we were in Hodgkins until 6:00 p.m. During the time spent in the Village Hall, it was learned that there actually was a low spot in the old dump which was used to dispose of various items (no particular items could be remembered). Also brought to our attention was a drainage ditch on the north edge of the property which ran parallel to the quarry - mobile home park boundary. Both of these features were pointed out to us by the Mayor and Village Clerk.

At 1:30 p.m., we met with Mr. Michael Eiserman, Mr. Sam Eiserman, and Mr. Sidney Eiserman (Sam's brother). Accompanying the sampling team (Crause and Corkill) was Officer Azzelera of the Hodgkins Police Department because of previous threats to our well being conveyed during various earlier conversations about the follow-up inspection.

Four additional samples were taken on this date. Two in the indicated low area and two along the far north property boundary (one at the west corner and one about five lots west of the northeast corner). Please see the xeroxed air photo of the park noting additional sample points X104 through X107. (Figure 4)

These samples were taken using the same methods as for samples X101 through X103. Sample X104 was taken at 2:25 p.m. at a depth of 5 1/2 feet. Sample X105 was taken at 3:00 p.m. at a depth of 6 feet. Sample X106 was taken at 3:50 p.m. at a depth of 4 1/2 feet, and sample X107 was taken at 4:55 p.m. at a depth of 4 1/2 feet. At 6:00 p.m., I sealed the cooler, demobilized, thanked the Eisermans for being so cooperative and we vacated the property.

Although during this sampling event the soil probe was able to penetrate deeper than before, no indication of any problems resulted.



SOURCE: U.S. Department Of Agriculture- Agricultural Stabilization And Conservation Service. Aerial Photography. Salt Lake City, Utah. 1988

FIGURE 3

SITE MAP

1961 Aerial Photograph

SOURCE: U.S. Department Of Agriculture- Agricultural Stabilization And Conservation Service. Aerial Photography. Salt Lake City, Utah. 1988

FIGURE 4

SITE MAP
&
SAMPLE LOCATIONS

1981 Aerial Photograph

At all sample locations, soil was composited using an Oakfield soil probe, placing the soil in stainless steel pans and thoroughly mixing it prior to placing samples in appropriate jars. The samples were placed in sample jars using stainless steel spoons, after which the jars had evidence tape placed around the lids and were packaged in coolers in accordance with USEPA required procedures. The samples were analyzed for Target Compound List (TCL) compounds by Envirodyne Laboratory of St. Louis, Missouri.

As can be seen in the analysis summary, there were a number of hits in the base/neutral category. There does not seem to be any obvious reason for this, other than the fact that the mobile home park has its streets paved with asphalt.

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

4. ANALYTICAL RESULTS

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

Chemical analysis of soil samples collected by IEPA personnel revealed the following substances from the TCL: base/neutrals, pesticides, heavy metals, common laboratory artifacts and common soil constituents (see Table 4-1 for the summary of soil sample chemical analysis results). Complete laboratory analytical data of soil sample analysis are provided in Appendix F.

TABLE 4-1

SAMPLE SUMMARY FORM

SAMPLE #	X101	X102	X103	X104	X105	X106	X107		
VOLATILES									
chloromethane									
bromomethane									
vinyl chloride									
chloroethane									
methylene chloride			61 B	48 B	40 B	43 B	56 B		
acetone				26 B	21 B	46 B	82 B		
carbon disulfide									
1,1-dichloroethene									
1,1-dichloroethane									
1,2-dichloroethene (total)									
1,2-dichloropropane									
chloroform									
1,2-dichloroethane									
2-butanone									
1,1,1-trichloroethane									
carbon tetrachloride									
vinyl acetate									
dichlorobromomethane									
c-1,3-dichloropropene									
trichloroethene									
benzene									
chlorodibromomethane									
1,1,2-trichloroethane									
t-1,3-dichloropropene									
bromoform									
2-hexanone									
4-methyl-2-pentanone									
1,1,2,2-tetrachloroethane									
tetrachloroethene									
toluene			1 J						
chlorobenzene									
ethylbenzene									
styrene									
total xylenes									
PESTICIDES									
alpha-BHC									
beta-BHC									
delta-BHC									
Lindane (gamma-BHC)									
Heptachlor									
Aldrin									
Heptachlor epoxide									
Endosulfan I									
4,4'-DDE	411	149 J							
Dieldrin									
Endrin									
4,4'-DDD	49			95 J	69 J				
Endosulfan II									
4,4'-DDT	1020	160 J					62 J		
Endrin ketone									
Endosulfan sulfate									
Methoxychlor									
alpha-Chlordane									
gamma-Chlordane									
Toxaphene									
Arochlor-1016									
Arochlor-1221									
Arochlor-1232									
Arochlor-1242									
Arochlor-1248									
Arochlor-1254									
Arochlor-1260					777 J				

ALL RESULTS PPB UNLESS OTHERWISE NOTED

B - IN BLANK AS WELL AS SAMPLE

J - COMPOUND MEETS IDENTIFICATION CRITERIA BUT RESULTS ARE < THE SPECIFIED DETECTION LIMIT BUT > ZERO

SAMPLE SUMMARY FORM
(CONT)

ACIDS / SAMPLE #	X101	X102	X103	X104	X105	X106	X107		
Benzoic Acid									
Phenol				29 J	31 BJ		55 BJ		
2-chlorophenol									
2-nitrophenol									
2-methylphenol									
2,4-dimethylphenol									
4-methylphenol									
2,4-dichlorophenol									
2,4,6-trichlorophenol									
2,4,5-trichlorophenol									
4-chloro-3-methylphenol									
2,4-dinitrophenol									
2-methyl-4,6-dinitrophenol									
Pentachlorophenol									
4-nitrophenol									
BASE/NEUTRALS									
Hexachloroethane									
Bis (2-chloroethyl) ether									
Benzyl Alcohol									
Bis (2-chloroisopropyl) ether									
N-nitrosodi-n-propylamine									
Nitrobenzene									
Hexachlorobutadiene									
2-Methylnaphthalene					27 J		118 J		
1,2,4-trichlorobenzene					12 J				
Isophorone									
Naphthalene					19 J		135 J		
4-Chloroanilline							94 J		
Bis (2-chloroethoxy) methane									
Hexachlorocyclopentadiene									
2-chloronaphthalene									
2-Nitroanilline									
Acenaphthylene		50 J			11 J	842 J	295 J		
3-Nitroanilline									
Acenaphthene					26 J	1309 J	117 J		
Dibenzofuran					28 J	1541 J	209 J		
Dimethylphthalate				4 J	8 BJ				
2,6-Dinitrotoluene									
Fluorene		75 J			49 BJ		393 J		
4-Nitroanilline									
4-Chlorophenyl-phenyl ether									
2,4-Dinitrotoluene									
Diethylphthalate					53 BJ				
N-Nitrosodiphenylamine									
Hexachlorobenzene									
Phenanthrene	120 J	660	52 J		692 J	10,842 J	2659		
4-Bromophenyl-phenyl ether									
Anthracene		140 J			42 J	3464 J	479 J		
Dibutylphthalate									
Fluoranthene	240 J	1200	100 J		1053	6569 J	3827		
Pyrene	230 J	950	100 J		653 J	51,266	3091		
Butyl benzyl phthalate									
Bis (2-ethylhexyl) phthalate	320 BJ	790 B	260 BJ	878J	95 J		231 BJ		
Chrysene	190 J	590	95 J		432 J		1692		
Benzo (a) anthracene	150 J	570	77 J		290 J		1546		
3,3'-Dichlorobenzidene									
Di-n-octyl phthalate	60 J	52 J	41 J	421	300 J		529 J		
Benzo (b) fluoranthene	230 J	620	110 J	2055	989 J		3682		
Benzo (k) fluoranthene	120 J	440	100 J						
Benzo (a) pyrene	180 J	520	100 J	1160	250 J		1161		
Indeno (1,2,3-cd) pyrene	170 J	370 J	82 J	559	300 J		903		
Dibenzo (a,h) anthracene		96 J		200 J	83 J		341 J		
Benzo (g,h,i) perylene	180 J	360 J	82 J	543	346 J		882		
1,2-Dichlorobenzene									
1,3-Dichlorobenzene									
1,4-Dichlorobenzene									

SAMPLE SUMMARY FORM
(CONT)

* METALS / SAMPLE #	X101	X102	X103	X104	X105	X106	X107		
Aluminum	10,200	11,400	14,500	6,400	23,400		11,700		
Antimony									
Arsenic									
Barium						273			
Beryllium									
Cadmium									
Calcium									
Chromium					33.6				
Cobalt									
Copper	57.2		31		37		55.4		
Iron	26,300	22,100	24,500	16,400	36,200	23,400	29,400		
Lead	195						78		
Magnesium									
Manganese		659							
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium				444					
Thallium									
Vanadium									
Zinc	518	98	83.4			768	447		
OTHERS									
Cyanide						3.67			
Sulfide				39					
Phenols									
Nitrogen-Ammonia									
Nitrogen, Total Kjeldahl									
Nitrogen-Nitrate									
Boron									
pH									
Sulfate									
Chloride									

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

* METALS ARE IN PPM

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

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

5. BIBLIOGRAPHY

Cook County Department of Environmental Control, 1987, discussion concerning history of and complaints regarding the site.

Eiserman, Micheal, 1987, Attorney and Councellor at Law, representing Mr. Sam Eiserman, regarding the site and site access.

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Hodgkins, Village of, 1987, Mayor of Hodgkins discussed the history of the site.

Hodgkins, Village of 1987, Village Clerk, discussed the history of the site.

Illinois Environmental Protection Agency, 1986, Potential Hazardous Waste Site Preliminary Assessment, for Parkview Mobile Home Park, U.S. EPA ID: 072246137, prepared by Kenneth W. Corkill, Springfield, Illinois.

U.S. Geological Survey, 1963 photo revised 1972 & 1980, Berwyn, Illinois Quadrangle, 7.5 Minute Series.

U.S. Geological Survey, 1963 photo revised 1972 & 1980, Hinsdale, Illinois Quadrangle, 7.5 Minute Series.

U.S. Geological Survey, 1963 photo revised 1973 & 1980, Palos Park, Illinois Quadrangle, 7.5 Minute Series.

U.S. Geological Survey, 1963 photo revised 1973 photo inspected 1978, Sag Bridge, Illinois Quadrangle, 7.5 Minute Series.

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APPENDIX A

Site 4-Mile Radius Map

SDMS US EPA Region V

Imagery Insert Form

Some images in this document may be illegible or unavailable in SDMS.
Please see reason(s) indicated below:

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Oversized maps

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APPENDIX B

U.S. EPA Form 2070-13

Site Inspection Report

PARKVIEW MOBILE HOME PARK
HODGKINS, IL.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	070246137

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
PARKVIEW MOBILE HOME PARK	6400 CARDINAL DRIVE

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
HODGKINS	IL	60525	COOK	031	05

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
41 46 21.0	087 51 03.0	☒ 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
05 27 87 (MONTH DAY YEAR)	☒ ACTIVE ☐ INACTIVE	1965 (BEGINNING YEAR) / IN OPERATION (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☒ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☒ G. OTHER ATTORNEY FOR PARKVIEW M.H.P. (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
KEN CORKILL	EPS II	IEPA/RPMS	(217) 782-6761
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
GREG DUNN	LSCT	IEPA/RPMS	(217) 782-6761
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
MICHEAL EISERMAN	ATTORNEY	803 WEST HILLGROVE AVE. LAGRANGE, ILL. 60525	(312) 354-9300
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	11:15 AM	SUNNY - HOT - 90° - 95° WIND - 5-8 MPH FROM THE SSE

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
MR ROBERT ROACHE	COOK COUNTY DEPT. OF ENVIRON. CONTROL	(312) 865-6165

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
KENNETH W. CORKILL	IEPA	RPMS	(217) 782-6761	07 15 87 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	070246137

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES *(Check all that apply)*

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER NONE SEEN AT (Specify) SITE
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS

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

TONS NONE
CUBIC YARDS SEEN AT
NO. OF DRUMS SITE

03 WASTE CHARACTERISTICS *(Check all that apply)*

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

III. WASTE TYPE NONE SEEN UPON INSPECTION: ALLEGED ARE INDICATED BELOW

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	UNKNOWN	—	ALLEGED BURIED DRUMS
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC ~~CHEMICALS~~ MATERIAL	UNKNOWN	—	"PERLITE" (MADE FROM VOLCANIC ROCK)
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	UNKNOWN	—	ALLEGED BURIED AUTOMOTIVE PRODUCTS & LEAD BATTERIES

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
	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)*

- IEPA — LAND FILES
- IEPA — AIR FILES
- IEPA — RPMS SITE INSPECTION
- COOK COUNTY DEPT. OF ENVIRON. CONTROL

EPA

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

I. IDENTIFICATION
01 STATE: ILD
02 SITE NUMBER: 070246137

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0-46,087
04 NARRATIVE DESCRIPTION
"PERLITE" HAS BEEN FOUND TO BE NON-TOXIC. SUBSTANCES ALLEGED TO BE IN THE ALLEGED DUMP HAVE THE POTENTIAL OF GAINING ENTRY INTO THE GROUND WATER IN THIS AREA. THE AREA POTENTIALLY AFFECTED WOULD BE ON THE WEST SIDE OF THE DES PLAINES RIVER. NO PROBLEMS WERE IMMEDIATELY NOTICED DURING THE SITE INSPECTION ON 5-27-87.

01 ☒ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION
THERE IS NO SURFACE WATER CONTAMINATION AS A RESULT OF THE RELEASE OF "PERLITE". AS ABOVE, THERE COULD BE SUBSTANCES SEEPING DOWN THROUGH THE LIMESTONE & UP TO THE ~~GROUND~~ SURFACE & INTO SURFACE WATERS, HOWEVER, NONE WAS DETECTED UPON INSPECTION. NO SURFACE WATER INTAKES ARE KNOWN TO EXIST WITHIN 2 MILES DOWNSTREAM OF THE SITE

01 ☒ C. CONTAMINATION OF AIR — 02 ☒ OBSERVED (DATE: SEE "F") — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 40,000
04 NARRATIVE DESCRIPTION
- RELEASE OF "PERLITE" FROM THE MANUFACTURERS BAG-HOUSE COLLECTOR.
- 11-12-85 NOTICABLE ODORS ONLY DETECTED WITHIN THE TRAILER PARK - DESCRIBED AS ROTTEN EGGS. (UPON INSPECTION - ODOR WOULD SEEM LIKELY TO BE FROM MSD SLUDGE DRYING BEDS.)

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
NONE OBSERVED OR ~~DOCUMENTED~~ DOCUMENTED

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
NONE DOCUMENTED OR OBSERVED

01 ☒ F. CONTAMINATION OF SOIL — 02 ☒ OBSERVED (DATE: 6-5-84, 10-10-84, 7-19-85, 9-13-85) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 10-15 (Acres)
04 NARRATIVE DESCRIPTION
- CONTAMINATION OBSERVED ON ABOVE MENTIONED DATES REGARDING THE "PERLITE".
- POTENTIAL IS PRESENT IF SITE WAS FORMERLY A DUMP, AS ALLEGED. ALLEGED 55 GAL. DRUMS, LEAD BATTERIES, CARS & VARIOUS UNKNOWNS. (UPON INVESTIGATION NONE OF THE ABOVE WAS FOUND)

01 ☒ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0-48,203
04 NARRATIVE DESCRIPTION
DRINKING WATER MAY BE AFFECTED IF THE COMMUNITIES WITHIN THE THREE MILE RADIUS OF THE SITE ARE ON GROUNDWATER WELLS & NOT ON CHICAGO WATER FROM LAKE MICHIGAN.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
NONE DOCUMENTED OR OBSERVED

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
NONE DOCUMENTED OR OBSERVED

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	070246137

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

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

NONE DOCUMENTED OR OBSERVED

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

NONE DOCUMENTED OR OBSERVED

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

NONE DOCUMENTED OR OBSERVED

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES *(Spills/Runoff/Standing liquids, Leaking drums)* — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 46,087 — 04 NARRATIVE DESCRIPTION

IF THERE ARE DRUMS + CONTAINERS BURIED HERE, THERE IS A POTENTIAL FOR LEAKAGE. (UPON INSPECTION NONE WERE DETECTED)

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

NONE DOCUMENTED OR OBSERVED

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

N/A

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

N/A

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

N/A

III. TOTAL POPULATION POTENTIALLY AFFECTED: 48,203

IV. COMMENTS

- AT THE THREE AREAS WITHIN THE TRAILER PARK WHERE SAMPLES WERE TAKEN, THE LIMESTONE BED ROCK WAS ENCOUNTERED AT 2-3 FEET.
- THE ODOR COMPLAINTS ARE SUSPECTED TO STEM FROM EAST, SOUTH EAST + SOUTH WINDS BLOWING ACROSS THE GREATER CHICAGO METRO. SAN. DIST. SLUDGE BEDS. WHILE INSPECTING THE SITE ODORS OF THIS NATURE WERE DETECTED ON THE SSE BREEZES.

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

- IEPA - LAND FILES
- IEPA - AIR FILES
- IEPA - RPMS SITE INSPECTION
- COOK COUNTY DEPT. OF ENVIRON. CONTROL.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	070246137

II. PERMIT INFORMATION

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

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☒ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☒ H. OPEN DUMP		
☒ I. OTHER NONE FOUND DURING INSP. (Specify)		

ALLEGED

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 N/A (Specify)

05 OTHER

☒ A. BUILDINGS ON SITE
TRAILER HOMES

06 AREA OF SITE

15-20 (Acres)

07 COMMENTS

SITE CONTAINES ABOUT 140 MOBILE HOMES ON CONCRETE PADS.

IV. CONTAINMENT NO WASTES FOUND

01 CONTAINMENT OF WASTES (Check one)

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

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

N/A

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☐ NO

02 COMMENTS

N/A

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

IEPA - LAND FILES
IEPA - AIR FILES
IEPA - RPMS SITE INSPECTION
COOK COUNTY DEPT. OF ENVIRON. CONTROL

EPA

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

I. IDENTIFICATION
01 STATE: ILD
02 SITE NUMBER: 0702461137

II. DRINKING WATER SUPPLY PROBABLY NOT AFFECTED BECAUSE DEPTH OF WELL IS FAR DEEPER THAN 150'

01 TYPE OF DRINKING SUPPLY (Check as applicable) — LAKE MICHIGAN

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

02 STATUS — N/A FOR LAKE MICH.

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

03 DISTANCE TO SITE
A. 2.0 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)
☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE
COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)

VARIOUS COMMUNITIES NEAR THE SITE ARE ON GROUND WATER WELLS & OTHERS ARE SERVED BY CHICAGO - LAKE MICHIGAN WATER

02 POPULATION SERVED BY GROUND WATER 48,203
03 DISTANCE TO NEAREST DRINKING WATER WELL 2.0 (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
15-20 (ft)	UNKNOWN	352 (ft)	1.9 MIL. (gpd)	☐ YES ☒ NO

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

GROUND WATER IS OBTAINED FROM A NUMBER OF AQUIFERS. WELLS VARY IN DEPTH FROM 350 FT — 1980 FT.

10 RECHARGE AREA
☐ YES ☐ NO
COMMENTS: UNKNOWN

11 DISCHARGE AREA
☐ YES ☐ NO
COMMENTS: UNKNOWN

IV. SURFACE WATER SURFACE WATER IS USED WITHIN VICINITY OF SITE HOWEVER WATER WHICH IS OBTAINED & USED IS DRAWN FROM ABOUT 2½-3 MILES UPSTREAM OF SITE.

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
DES PLAINES RIVER	☐	.25 (mi)
ILLINOIS & MICHIGAN CANAL	☐	.75 (mi)
SALT CREEK	☐	2.80 (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. 2143 NO. OF PERSONS	B. 12,707 NO. OF PERSONS	C. 88,968 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: 0 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: ≈ 3900

04 DISTANCE TO NEAREST OFF-SITE BUILDING: .056 (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)

DENSELY POPULATED URBAN AREA WITH NUMEROUS INDUSTRIAL & COMMERCIAL ENTERPRISES WITHIN THE THREE MILE RADIUS OF THE SITE.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
LD	070246137

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
3 (ft)	ONLY 3 FOOT SAMPLE ZONE OBTAINABLE DUE TO BEDROCK @ 3' (ft)	UNKNOWN

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
3 (in)	2.4 (in)	0 %	FLAT - IMPERCEPTABLE	1-2% %

09 FLOOD POTENTIAL

SITE IS IN N/A YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE N/A OTHER

A. _____ (mi) B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

N/A _____ (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. .25 (mi)	B. 0 (mi) RES. AREA	C. 5-10 (mi)	D. 5-10 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

THIS SITE IS SITUATED ON A FLAT AREA UNDER WHICH LIES DOLOMITE BEDROCK. THE SURROUNDING AREA IS GENERALLY OF THE SAME TOPOGRAPHY WITH A SLIGHT RISE OR FALL IN THE LANDSCAPE. DOLOMITE QUARRIES EXIST IN A NUMBER OF AREAS NEAR THE SITE.

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

IEPA - LAND FILES
IEPA - AIR FILES
IEPA - RPMS SITE INSPECTION
COOK COUNTY DEPT. OF ENVIRON. CONTROL
ISGS - BULLETIN #95

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	070246137

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	3	ENVIRODYNE LABS. ST. LOUIS, MO.	7-15-87
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS ON-SITE CHECK
HNu	VING FOR ORGANIC VAPORS - SITE WAS ALLEGEDLY A
	DUMPING AREA FOR OLD CARS + PARTS ETC. INC. OLD BATTERIES.

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☒ AERIAL

02 IN CUSTODY OF IEPA - RPMS (Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS IEPA - RPMS

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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

IEPA - LAND FILES
IEPA - AIR FILES
IEPA - SITE INSPECTION (RPMS)
COOK COUNTY DEPT. OF ENVIRON. CONTROL

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	070246137

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
MR. SAM EISERMAN		8783 CANARY LANE		HODGKINS	IL	60525

PARENT COMPANY (If applicable)

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

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

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

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

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

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

IEPA - LAND FILES
COOK CO. DEPT. OF ENVIRON. CONTROL

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	070246137

II. CURRENT OPERATOR *(Provide if different from owner)*

01 NAME: SAME AS OWNER	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

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
03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES *(If applicable)*

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

01 NAME	02 D+B NUMBER
03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

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

01 NAME	02 D+B NUMBER
03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

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

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

IEPA - LAND FILES

COOK CO. DEPT. OF ENVIRON. CONTROL

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ID	070246137

II. ON-SITE GENERATOR

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

III. OFF-SITE GENERATOR(S)

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

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
LD	070246137

II. PAST RESPONSE ACTIVITIES

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

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
LD	070246137

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)*

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
LD	070246137

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

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

N/A

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

APPENDIX C

U.S. EPA Immediate Removal Action Checksheet

IMMEDIATE REMOVAL ACTION CHECK SHEET

Site Name: PARKVIEW MOBILE HOME PARK ILD 070246137
LPC 0310000000

	High	Moderate	Low
Fire and Explosion Hazard:			
Flammable Materials:			✓
Explosives:			✓
Incompatible Chemicals:			✓
Direct Contact with Acutely Toxic Chemicals:			
Site Security: N/A			
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:	WATER FROM LAKE		MICHIGAN
Potential Contamination:			NO
Is the site abandoned or active? ***			

Comments: * TRAILER PARK BUILT ON TOP OF OLD DUMP.

** NOTICABLE ODORS WERE EMINATING FROM MSD SLUDGE BEDS SOUTH-SOUTHEAST OF THE SITE.

*** OLD DUMP WAS FILLED + GRADED BY 1965 AT WHICH TIME THE TRAILER PARK WAS DEVELOPED

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

APPENDIX D

Target Compound List

TARGET COMPOUND LIST

Volatile Target Compounds

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

CRDL - Contract Required Detection Limit

Base/Neutral Target Compounds

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

Acid Target Compounds

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

Pesticide Target Compounds

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

Inorganic Target Compounds

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

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

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

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

For lead:

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

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

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

QUALIFIER	DEFINITION
J	Indicates an estimated value. This flag is used when estimating the concentration of tentatively identified compounds.
U	Indicates compound or element was analyzed for, but not detected. Report with the detection limit value (i.e. 10U).
B	This flag is used when the analyte being reported was also found in the blank.
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 additions is less than 0.995.

ENVIRODYNE

QUALIFIER	DEFINITION
J	Indicates an estimated value. This flag is used when estimating the concentration of tentatively identified compounds.
U	Indicates compound or element was analyzed for, but not detected. Report with the detection limit value (i.e. 10U).
B	This flag is used when the analyte being reported was also found in the blank.
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 additions is less than 0.995.

APPENDIX E

Chemical Analysis Data of IEPA Collected Samples

Page 1 of 1

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY 031000000 Cook
DIVISION OF LAND POLLUTION CONTROL
CHAIN OF CUSTODY Park View Mobile Home Park

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

Site Inventory No. 031000000 County COOK

Federal I.D. No. _____ PARKVIEW MOBILE HOME PARK (Facility Name)

SAMPLING TEAM

Sample No.	Initials	Consisting of the Indicated No. of Bottles	Date Collected	Time Sealed
X101	KWC	3	5-27-87	1:15 AM/PM
X102	KWC	3	5-27-87	1:15 AM/PM
X103	KWC	3	5-27-87	1:15 AM/PM
BACKGROUND				AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM

Sealer's Signature Ken Corkill Date 5-27-87 Time 1:15 AM/PM

Sampler(s) K Corkill Gregory M Dunn

CARRIERS

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

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
	000001	AM/PM			AM/PM
		AM/PM			AM/PM

RECEIVED JUL 17 1987 IEPA/DLPC

LAB CUSTODIAN

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

Signature Gus Young Date 5-29-87 Time 1400 A.M. P.M.

Lab Location St. Louis (City)

IL 532-1147
LPC 141 9/83

120-011

TERAL CLP Seal #: 2-77-1

CHAIN OF CUSTODY

Date Sealed: 5/26/87 By: [illegible]

Facility Name: PARKVIEW MOBILE H.P. Site Inventory #: 0310000000

Region: NORTHERN Site Billing Code: SA-06

County: COOK Project Manager: KEN CORKILL

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
87002702	X101	5-27-87	12:00

Sample Appearance:

Collector Comments:

Sampler Signature: Ken Corkill Division/Company: LPC / IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		ORGANICS			
1	5	32oz		INORGANICS			
1	12	2oz		VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. Corkill Signature: Ken Corkill

Date: 5-27-87 Time: 11:30 AM Seal #: 0002717 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. Corkill Signature: Ken Corkill

Date: 5-27 Time: 1:15 Seal #: 0002718

Courier — sample pickup:

000002

Courier — sample delivery: UPS

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

Opened by (print): GREG YOUNG Signature: Gregory K. Young

Date: 5-29-87 Time: 1400 Seal #: 2718 Intact?: (Y) / N

Lab Name: EET Comments:

EPA - LLP Seal #: 2717

CHAIN OF CUSTODY

Date Sealed: 5/26/87 By: AWW

Facility Name: PARKVIEW MOBILE H.P. Site Inventory #: 0310000000

Region: NORTHERN Site Billing Code: SA-06

County: COOK Project Manager: KEN CORKILL

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
87002703	X102	5-27-87	12:45 pm

Sample Appearance:

Collector Comments:

Sampler Signature: Ken Corkill Division/Company: LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz		ORGANICS			
1	5	32oz		INORGANICS			
1	2	2oz		VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. Corkill Signature: Ken Corkill

Date: 5-27-87 Time: 11:30 Seal #: 0002717 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. Corkill Signature: Ken Corkill

Date: 5-27 Time: 1:15 Seal #: 0002718

Courier - sample pickup:

000003

Courier - sample delivery: UPS

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

Opened by (print): GREG YOUNG Signature: Gregory K. Young

Date: 5-29-87 Time: 1400 Seal #: 2718 Intact?: (Y) / N

Lab Name: EEI Comments:

IERA - SCLP — Seal #: 2717

CHAIN OF CUSTODY

Date Sealed: 5/26/87 By: AWG

Facility Name: PARKVIEW MOBILE H.P. — Site Inventory #: 0310000000

Region: NORTHERN — Site Billing Code: SA-06

County: COOK — Project Manager: KEN CORKILL

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
87002704	X103 BACKGROUND	5-27	1:00 PM

Sample Appearance:

Collector Comments:

Sampler Signature: Ken Corkill — Division/Company: LPC/IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz		ORGANICS			
1	5	32oz		INORGANICS			
2	2	2oz		VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL — Signature: Ken Corkill

Date: 5-27-87 — Time: 1130 — Seal #: 0002717 — Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. CORKILL — Signature: Ken Corkill

Date: 5-27-87 — Time: 1:15 — Seal #: 0002718

Courier - sample pickup:

000001

Courier - sample delivery: UPS

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

Received by (print): GREG YOUNG — Signature: Gregory K. Young

Date: 5-29-87 — Time: 1400 — Seal #: 2718 — Intact?: (Y) / N

Lab Name: IEPA — Comments:

Organics Analysis Data Sheet
(Page 1)

Sample Number: MB#1

Laboratory Name: ENVIRODYNE
Lab Sample ID No: FRNB6079
Sample Matrix: SOIL
Data Release Authorized By: 9/C

Case No: 00015
QC Report No: —
Contract No: —
Date Sample Received: —

Volatile Compounds

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 6-4-87
Conc/Dil Factor: 1
Percent Moisture (not decanted): 0

CAS No:		ug/kg
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	12 B
67-64-1	Acetone	10 U
75-15-0	Carbon Disulfide	5 U
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	5 U
156-60-5	trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	10 U
71-55-6	1,1,1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	5 U

CAS No:		ug/kg
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
108-10-1	4-Methyl-2-pentanone	10 U
591-78-6	2-Hexanone	10 B
127-18-4	Tetrachloroethene	5 U
79-34-5	1,1,2,2-Tetrachloroethane	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

000008

Data Reporting Qualifiers

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 (eg,10U) based on necessary concent./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 (eg, 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J

C:
This flag applies to pesticide parameters where the identification was 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 analyte is found in blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHER:
Other 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.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00015

SAMPLE NUMBER
MB#1

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		No peaks for L.S.	VOA		
2					
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					

Laboratory Name: ENVIRODYNE
Case No: 00015

Sample Number: MB#1

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 6-1-87
Date Analyzed: 6-7-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 0

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ugkg	CAS No:		ugkg
108-95-2	Phenol	330 U	83-32-9	Acenaphthene	330 U
111-44-4	bis-(2-Chloroethyl)ether	330 U	51-28-5	2,4-Dinitrophenol	1600 U
95-57-8	2-Chlorophenol	330 U	100-02-7	4-Nitrophenol	1600 U
541-73-1	1,3-Dichlorobenzene	330 U	132-64-9	Dibenzofuran	330 U
106-46-7	1,4-Dichlorobenzene	330 U	121-14-2	2,4-Dinitrotoluene	330 U
100-51-6	Benzyl Alcohol	330 U	606-20-2	2,6-Dinitrotoluene	330 U
95-50-1	1,2-Dichlorobenzene	330 U	84-66-2	Diethyl phthalate	330 U
95-48-7	2-Methylphenol	330 U	7005-72-3	4-Chlorophenyl-phenyl ether	330 U
39638-32-9	bis-(2-Chloroisopropyl)ether	330 U	86-73-7	Fluorene	330 U
106-44-5	4-Methylphenol	330 U	100-01-6	4-Nitroaniline	1600 U
621-64-7	N-nitroso-Di-n-propylamine	330 U	534-52-1	4,6-Dinitro-2-Methylphenol	1600 U
67-72-1	Hexachloroethane	330 U	86-30-6	N-nitrosodiphenylamine (1)	330 U
98-95-3	Nitrobenzene	330 U	101-55-3	4-Bromophenyl-phenyl ether	330 U
78-59-1	Isophorone	330 U	118-74-1	Hexachlorobenzene	330 U
88-75-5	2-Nitrophenol	330 U	87-86-5	Pentachlorophenol	1600 U
105-67-9	2,4-Dimethylphenol	330 U	85-01-8	Phenanthrene	330 U
65-85-0	Benzoic Acid	1600 U	120-12-7	Anthracene	330 U
111-91-1	bis-(Chloroethoxy)Methane	330 U	84-74-2	Di-n-butyl phthalate	2300 B
120-83-2	2,4-Dichlorophenol	330 U	206-44-0	Fluoranthene	330 U
120-82-1	1,2,4-Trichlorobenzene	330 U	129-00-0	Pyrene	330 U
91-20-3	Naphthalene	330 U	85-68-7	Butyl-benzyl-phthalate	330 U
106-47-8	4-Chloroaniline	330 U	91-94-1	3,3'-Dichlorobenzidine	660 U
87-68-3	Hexachlorobutadiene	330 U	56-55-3	Benzo(a)anthracene	330 U
59-50-7	4-Chloro-3-methylphenol	330 U	117-81-7	bis-(2-Ethylhexyl)phthalate	130 BJ
91-57-6	2-Methylnaphthalene	330 U	218-01-9	Chrysene	330 U
77-47-4	Hexachlorocyclopentadiene	330 U	117-84-0	Di-n-octyl phthalate	330 U
88-06-2	2,4,6-Trichlorophenol	330 U	205-99-2	Benzo(b)fluoranthene	330 U
95-95-4	2,4,5-Trichlorophenol	1600 U	207-08-9	Benzo(k)fluoranthene	330 U
91-58-7	2-Chloronaphthalene	330 U	50-32-8	Benzo(a)pyrene	330 U
88-74-4	2-Nitroaniline	1600 U	193-39-5	Indeno(1,2,3-cd)pyrene	330 U
131-11-3	Dimethyl phthalate	330 U	53-70-3	Dibenzo(a,h)anthracene	330 U
208-96-8	Acenapthylene	330 U	191-24-2	Benzo(ghi)perylene	330 U
99-09-2	3-Nitroaniline	1600 U			

(1)-Cannot be separated from diphenylamine

000010

FORM 1

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00015

SAMPLE NUMBER: MB#1

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		Unknown	BNA	5.53	553
2		Unknown	BNA	5.66	785
3		Unknown	BNA	12.53	337
4		A Phthalate	BNA	21.7	1104
5		A Phthalate	BNA	28.94	1006
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					

Laboratory Name: ENVIRODYNE
Case No: 00015

Sample Number: MB#1

Organics Analysis Data Sheet
(Page 3)

Pesticides & PCB's

Concentration: LOW
Date Extracted/Prepared: 6-1-87
Date Analyzed: 6-16-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 0

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ugkg
319-84-6	Alpha-BHC	8.0 U
319-85-7	Beta-BHC	8.0 U
319-86-8	Delta-BHC	8.0 U
58-89-9	Gamma-BHC (Lindane)	8.0 U
76-44-8	Heptachlor	8.0 U
309-00-2	Aldrin	8.0 U
1024-57-3	Heptachlor Epoxide	8.0 U
959-98-8	Endosulfan I	8.0 U
60-57-1	Dieldrin	16 U
72-55-9	4,4'-DDE	16 U
72-20-8	Endrin	16 U
33213-65-9	Endosulfan-II	16 U
72-54-8	4,4'-DDD	16 U
1031-07-8	Endosulfan Sulfate	16 U
50-29-3	4,4'-DDT	16 U
72-43-5	Methoxychlor	80 U
53494-70-5	Endrin Ketone	16 U
57-74-9	Chlordane	80 U
8001-35-2	Toxaphene	160 U
12674-11-2	Aroclor-1016	80 U
11104-28-2	Aroclor-1221	80 U
53469-21-9	Aroclor-1232	80 U
53469-21-9	Aroclor-1242	80 U
12672-29-6	Aroclor-1248	80 U
11097-69-1	Aroclor-1254	160 U
11096-82-5	Aroclor-1260	160 U

000012

Vi = Volume of extract injected (ul)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Ws = 30 g Vt = 20,000 ul Vi = 2.0 ul

FORM 1

Organics Analysis Data Sheet
(Page 1)

Sample Number: X101

Laboratory Name: ENVIRODYNE
Lab Sample ID No: 87002702
Sample Matrix: SOIL
Data Release Authorized By: JJC

Case No: 00015
QC Report No: —
Contract No: —
Date Sample Received: 5-29-87

Volatile Compounds

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 6-4-87
Conc/Dil Factor: 1
Percent Moisture (not decanted): 20.05

CAS No:		ugkg	CAS No:		ugkg
74-87-3	Chloromethane	13 U	78-87-5	1,2-Dichloropropane	6 U
74-83-9	Bromomethane	13 U	10061-02-6	trans-1,3-Dichloropropene	6 U
75-01-4	Vinyl Chloride	13 U	79-01-6	Trichloroethene	6 U
75-00-3	Chloroethane	13 U	124-48-1	Dibromochloromethane	6 U
75-09-2	Methylene Chloride	82 B	79-00-5	1,1,2-Trichloroethane	6 U
67-64-1	Acetone	13 U	71-43-2	Benzene	6 U
75-15-0	Carbon Disulfide	6 U	10061-01-5	cis-1,3-Dichloropropene	6 U
75-35-4	1,1-Dichloroethene	6 U	110-75-8	2-Chloroethylvinylether	13 U
75-34-3	1,1-Dichloroethane	6 U	75-25-2	Bromoform	6 U
156-60-5	trans-1,2-Dichloroethene	6 U	108-10-1	4-Methyl-2-pentanone	13 U
67-66-3	Chloroform	6 U	591-78-6	2-Hexanone	13 U
107-06-2	1,2-Dichloroethane	6 U	127-18-4	Tetrachloroethene	6 U
78-93-3	2-Butanone	13 U	79-34-5	1,1,2,2-Tetrachloroethane	6 U
71-55-6	1,1,1-Trichloroethane	6 U	108-88-3	Toluene	6 U
56-23-5	Carbon Tetrachloride	6 U	108-90-7	Chlorobenzene	6 U
108-05-4	Vinyl Acetate	13 U	100-41-4	Ethylbenzene	6 U
75-27-4	Bromodichloromethane	6 U	100-42-5	Styrene	6 U
				Total Xylenes	6 U

Data Reporting Qualifiers

000013

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 (eg,10U) based on necessary concent./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 mum 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 (eg, 10J). If limit of detection is 10 ugl and a concentration of 3 ugl is calculated, report as 3J

C:
This flag applies to pesticide parameters where the identification was 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 analyte is found in blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
OTHER:
Other 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.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00015

SAMPLE NUMBER
X101

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		No peaks for L.S.	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
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Laboratory Name: ENVIRODYNE
Case No: 00015

Sample Number: X101

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 6-1-87
Date Analyzed: 6-7-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 20.5

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ugkg	CAS No:		ugkg
108-95-2	Phenol	420 U	83-32-9	Acenaphthene	420 U
111-44-4	bis-(2-Chloroethyl)ether	420 U	51-28-5	2,4-Dinitrophenol	2000 U
95-57-8	2-Chlorophenol	420 U	100-02-7	4-Nitrophenol	2000 U
541-73-1	1,3-Dichlorobenzene	420 U	132-64-9	Dibenzofuran	420 U
106-46-7	1,4-Dichlorobenzene	420 U	121-14-2	2,4-Dinitrotoluene	420 U
100-51-6	Benzyl Alcohol	420 U	606-20-2	2,6-Dinitrotoluene	420 U
95-50-1	1,2-Dichlorobenzene	420 U	84-66-2	Diethyl phthalate	420 U
95-48-7	2-Methylphenol	420 U	7005-72-3	4-Chlorophenyl-phenyl ether	420 U
39638-32-9	bis-(2-Chloroisopropyl)ether	420 U	86-73-7	Fluorene	420 U
106-44-5	4-Methylphenol	420 U	100-01-6	4-Nitroaniline	2000 U
621-64-7	N-nitroso-Di-n-propylamine	420 U	534-52-1	4,6-Dinitro-2-Methylphenol	2000 U
67-72-1	Hexachloroethane	420 U	86-30-6	N-nitrosodiphenylamine (1)	420 U
98-95-3	Nitrobenzene	420 U	101-55-3	4-Bromophenyl-phenyl ether	420 U
78-59-1	Isophorone	420 U	118-74-1	Hexachlorobenzene	420 U
88-75-5	2-Nitrophenol	420 U	87-86-5	Pentachlorophenol	2000 U
105-67-9	2,4-Dimethylphenol	420 U	85-01-8	Phenanthrene	120 J
65-85-0	Benzoic Acid	2000 U	120-12-7	Anthracene	420 U
111-91-1	bis-(Chloroethoxy)Methane	420 U	84-74-2	Di-n-butyl phthalate	2400 B
120-83-2	2,4-Dichlorophenol	420 U	206-44-0	Fluoranthene	240 J
120-82-1	1,2,4-Trichlorobenzene	420 U	129-00-0	Pyrene	230 J
91-20-3	Naphthalene	420 U	85-68-7	Butyl-benzyl-phthalate	420 U
106-47-8	4-Chloroaniline	420 U	91-94-1	3,3'-Dichlorobenzidine	830 U
87-68-3	Hexachlorobutadiene	420 U	56-55-3	Benzo(a)anthracene	150 J
59-50-7	4-Chloro-3-methylphenol	420 U	117-81-7	bis-(2-Ethylhexyl)phthalate	320 BJ
91-57-6	2-Methylnaphthalene	420 U	218-01-9	Chrysene	190 J
77-47-4	Hexachlorocyclopentadiene	420 U	117-84-0	Di-n-octyl phthalate	60 J
88-06-2	2,4,6-Trichlorophenol	420 U	205-99-2	Benzo(b)fluoranthene	230 J
95-95-4	2,4,5-Trichlorophenol	2000 U	207-08-9	Benzo(k)fluoranthene	120 J
91-58-7	2-Chloronaphthalene	420 U	50-32-8	Benzo(a)pyrene	180 J
88-74-4	2-Nitroaniline	2000 U	193-39-5	Indeno(1,2,3-cd)pyrene	170 J
131-11-3	Dimethyl phthalate	420 U	53-70-3	Dibenzo(a,h)anthracene	420 U
208-96-8	Acenapthylene	420 U	191-24-2	Benzo(ghi)perylene	180 J
99-09-2	3-Nitroaniline	2000 U			

(1)-Cannot be separated from diphenylamine

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00015

SAMPLE NUMBER
X101

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1	96480	2(3H)-Furanone, dihydro-	BNA	5.4	1006
2		Unknown	BNA	5.51	1031
3		Unknown	BNA	6.27	912
4		Unknown	BNA	7.32	1782
5		Unknown	BNA	8.48	1999
6		A Phthalate	BNA	21.71	1367
7					
8					
9					
10					
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Laboratory Name: ENVIRODYNE
Case No: 00015

Sample Number: X101

Organics Analysis Data Sheet
(Page 3)

Pesticides & PCB's

Concentration: LOW
Date Extracted/Prepared: 6-1-87
Date Analyzed: 6-16-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 20.5

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ugkg
319-84-6	Alpha-BHC	10 U
319-85-7	Beta-BHC	10 U
319-86-8	Delta-BHC	10 U
58-89-9	Gamma-BHC (Lindane)	10 U
76-44-8	Heptachlor	10 U
309-00-2	Aldrin	10 U
1024-57-3	Heptachlor Epoxide	10 U
959-98-8	Endosulfan I	10 U
60-57-1	Dieldrin	20 U
72-55-9	4,4'-DDE	411
72-20-8	Endrin	20 U
33213-65-9	Endosulfan-II	20 U
72-54-8	4,4'-DDD	49
1031-07-8	Endosulfan Sulfate	20 U
50-29-3	4,4'-DDT	1020
72-43-5	Methoxychlor	100 U
53494-70-5	Endrin Ketone	20 U
57-74-9	Chlordane	100 U
8001-35-2	Toxaphene	200 U
12674-11-2	Aroclor-1016	100 U
11104-28-2	Aroclor-1221	100 U
53469-21-9	Aroclor-1232	100 U
53469-21-9	Aroclor-1242	100 U
12672-29-6	Aroclor-1248	100 U
11097-69-1	Aroclor-1254	200 U
11096-82-5	Aroclor-1260	200 U

000017

Vi = Volume of extract injected (ul)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Ws = 30 g Vt = 20,000 ul Vi = 2.0 ul

FORM 1

Date: JULY 16, 1987

IEPA ANALYSIS PROGRAM
Report of INORGANIC Results
Soil Samples

Site ID: X101
Sample #: 87002702

PARAMETER	VALUE (ug/kg)	DILUTION FACTOR
Aluminum	10200000	1
Antimony	4000 U	1
Arsenic	17120	10
Barium	120000	1
Beryllium	1000 U	1
Cadmium	1600	1
Calcium	22900000	10
Chromium	18200	1
Cobalt	11600	1
Copper	57200	1
Iron	26300000	1
Lead	195000	1
Magnesium	13700000	10
Manganese	593000	1
Mercury	100 U	1
Nickel	30600	1
Potassium	1600000	1
Selenium	2000 UER	5
Silver	400 U	1
Sodium	246000	1
Thallium	1080	2
Tin	20000 U	1
Vanadium	27200	1
Zinc	518000	1
Cyanide	250 U	1
Sulfide	---	---
Sulfate	25000 U	1

Organics Analysis Data Sheet
(Page 1)

Sample Number: X102

Laboratory Name: ENVIRODYNE
Lab Sample ID No: 87002703
Sample Matrix: SOIL
Data Release Authorized By: 99C

Case No: 00015
QC Report No: —
Contract No: —
Date Sample Received: 5-29-87

Volatile Compounds

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 6-4-87
Conc/Dil Factor: 1
Percent Moisture (not decanted): 19.76

CAS No:		ugkg	CAS No:		ugkg
74-87-3	Chloromethane	12 U	78-87-5	1,2-Dichloropropane	6 U
74-83-9	Bromomethane	12 U	10061-02-6	trans-1,3-Dichloropropene	6 U
75-01-4	Vinyl Chloride	12 U	79-01-6	Trichloroethene	6 U
75-00-3	Chloroethane	12 U	124-48-1	Dibromochloromethane	6 U
75-09-2	Methylene Chloride	61 B	79-00-5	1,1,2-Trichloroethane	6 U
67-64-1	Acetone	12 U	71-43-2	Benzene	6 U
75-15-0	Carbon Disulfide	6 U	10061-01-5	cis-1,3-Dichloropropene	6 U
75-35-4	1,1-Dichloroethene	6 U	110-75-8	2-Chloroethylvinylether	12 U
75-34-3	1,1-Dichloroethane	6 U	75-25-2	Bromoform	6 U
156-60-5	trans-1,2-Dichloroethene	6 U	108-10-1	4-Methyl-2-pentanone	12 U
67-66-3	Chloroform	6 U	591-78-6	2-Hexanone	12 U
107-06-2	1,2-Dichloroethane	6 U	127-18-4	Tetrachloroethene	6 U
78-93-3	2-Butanone	12 U	79-34-5	1,1,2,2-Tetrachloroethane	6 U
71-55-6	1,1,1-Trichloroethane	6 U	108-88-3	Toluene	6 U
56-23-5	Carbon Tetrachloride	6 U	108-90-7	Chlorobenzene	6 U
108-05-4	Vinyl Acetate	12 U	100-41-4	Ethylbenzene	6 U
75-27-4	Bromodichloromethane	6 U	100-42-5	Styrene	6 U
				Total Xylenes	6 U

- -

Data Reporting Qualifiers

000019

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 (eg,10U) based on necessary concent./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 ·inum attainable detection limit for the sample.

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 (eg, 10J). If limit of detection is 10 ugl and a concentration of 3 ugl is calculated report as 3J

C:
This flag applies to pesticide parameters where the identification was 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 analyte is found in blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHER:
Other 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.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00015

SAMPLE NUMBER
X102

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		No peaks for L.S.	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
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30					

Laboratory Name: ENVIRODYNE
Case No: 00015

Sample Number: X102

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 6-1-87
Date Analyzed: 6-7-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 19.76

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ugkg	CAS No:		ugkg
108-95-2	Phenol	410 U	83-32-9	Acenaphthene	410 U
111-44-4	bis-(2-Chloroethyl)ether	410 U	51-28-5	2,4-Dinitrophenol	2000 U
95-57-8	2-Chlorophenol	410 U	100-02-7	4-Nitrophenol	2000 U
541-73-1	1,3-Dichlorobenzene	410 U	132-64-9	Dibenzofuran	410 U
106-46-7	1,4-Dichlorobenzene	410 U	121-14-2	2,4-Dinitrotoluene	410 U
100-51-6	Benzyl Alcohol	410 U	606-20-2	2,6-Dinitrotoluene	410 U
95-50-1	1,2-Dichlorobenzene	410 U	84-66-2	Diethyl phthalate	410 U
95-48-7	2-Methylphenol	410 U	7005-72-3	4-Chlorophenyl-phenyl ether	410 U
39638-32-9	bis-(2-Chloroisopropyl)ether	410 U	86-73-7	Fluorene	75 J
106-44-5	4-Methylphenol	410 U	100-01-6	4-Nitroaniline	2000 U
621-64-7	N-nitroso-Di-n-propylamine	410 U	534-52-1	4,6-Dinitro-2-Methylphenol	2000 U
67-72-1	Hexachloroethane	410 U	86-30-6	N-nitrosodiphenylamine (1)	410 U
98-95-3	Nitrobenzene	410 U	101-55-3	4-Bromophenyl-phenyl ether	410 U
78-59-1	Isophorone	410 U	118-74-1	Hexachlorobenzene	410 U
88-75-5	2-Nitrophenol	410 U	87-86-5	Pentachlorophenol	2000 U
105-67-9	2,4-Dimethylphenol	410 U	85-01-8	Phenanthrene	660
65-85-0	Benzoic Acid	2000 U	120-12-7	Anthracene	140 J
111-91-1	bis-(Chloroethoxy)Methane	410 U	84-74-2	Di-n-butyl phthalate	1900 B
120-83-2	2,4-Dichlorophenol	410 U	206-44-0	Fluoranthene	1200
120-82-1	1,2,4-Trichlorobenzene	410 U	129-00-0	Pyrene	950
91-20-3	Naphthalene	410 U	85-68-7	Butyl-benzyl-phthalate	410 U
106-47-8	4-Chloroaniline	410 U	91-94-1	3,3'-Dichlorobenzidine	820 U
87-68-3	Hexachlorobutadiene	410 U	56-55-3	Benzo(a)anthracene	570
59-50-7	4-Chloro-3-methylphenol	410 U	117-81-7	bis-(2-Ethylhexyl)phthalate	790 B
91-57-6	2-Methylnaphthalene	410 U	218-01-9	Chrysene	590
77-47-4	Hexachlorocyclopentadiene	410 U	117-84-0	Di-n-octyl phthalate	52 J
88-06-2	2,4,6-Trichlorophenol	410 U	205-99-2	Benzo(b)fluoranthene	620
95-95-4	2,4,5-Trichlorophenol	2000 U	207-08-9	Benzo(k)fluoranthene	440
91-58-7	2-Chloronaphthalene	410 U	50-32-8	Benzo(a)pyrene	520
88-74-4	2-Nitroaniline	2000 U	193-39-5	Indeno(1,2,3-cd)pyrene	370 J
131-11-3	Dimethyl phthalate	410 U	53-70-3	Dibenzo(a,h)anthracene	96 J
208-96-8	Acenapthylene	50 J	191-24-2	Benzo(ghi)perylene	360 J
99-09-2	3-Nitroaniline	2000 U			

(1)-Cannot be separated from diphenylamine

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00015

SAMPLE NUMBER
X102

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		Unknown	BNA	5.45	1049
2		Unknown	BNA	5.55	1101
3		Unknown	BNA	6.29	965
4		Unknown	BNA	7.32	1261
5		Unknown	BNA	8.49	2382
6		A C15H24 compound	BNA	15.08	857
7	74381401	Propanoic acid, 2-methyl-,1-(1,1 dimethylethyl)-2-methyl-1,3-propanediyl ester	BNA	18.04	441
8		Unknown	BNA	19.38	408
9		A Phthalate	BNA	21.71	2268
10		A C20H12 Hydrocarbon	BNA	32.04	688
11		A C20H12 Hydrocarbon	BNA	32.15	551
12		Unknown	BNA	33.12	584
13		A saturated Hydrocarbon	BNA	34.06	628
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					

Laboratory Name: ENVIRODYNE
Case No: 00015

Sample Number: X102

Organics Analysis Data Sheet
(Page 3)

Pesticides & PCB's

Concentration: LOW
Date Extracted/Prepared: 6-1-87
Date Analyzed: 6-16-87
Conc/Dil Factor: 10
Percent Moisture (decanted): 19.8

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ugkg	
319-84-6	Alpha-BHC	100	U
319-85-7	Beta-BHC	100	U
319-86-8	Delta-BHC	100	U
58-89-9	Gamma-BHC (Lindane)	100	U
76-44-8	Heptachlor	100	U
309-00-2	Aldrin	100	U
1024-57-3	Heptachlor Epoxide	100	U
959-98-8	Endosulfan I	100	U
60-57-1	Dieldrin	200	U
72-55-9	4,4'-DDE	149	J
72-20-8	Endrin	200	U
33213-65-9	Endosulfan-II	200	U
72-54-8	4,4'-DDD	200	U
1031-07-8	Endosulfan Sulfate	200	U
50-29-3	4,4'-DDT	160	J
72-43-5	Methoxychlor	1000	U
53494-70-5	Endrin Ketone	200	U
57-74-9	Chlordane	1000	U
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	1000	U
11104-28-2	Aroclor-1221	1000	U
53469-21-9	Aroclor-1232	1000	U
53469-21-9	Aroclor-1242	1000	U
12672-29-6	Aroclor-1248	1000	U
11097-69-1	Aroclor-1254	2000	U
11096-82-5	Aroclor-1260	2000	U

000025

Vi = Volume of extract injected (ul)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Ws = 30 g Vt = 20,000 ul Vi = 2.0 ul

FORM 1

Date: JULY 16.1987

IEPA ANALYSIS PROGRAM
Report of INORGANIC Results
Soil Samples

Site ID: X102
Sample #: 87002703

PARAMETER	VALUE (ug/kg)	DILUTION FACTOR
Aluminum	11400000	1
Antimony	4000 U	1
Arsenic	11440	10
Barium	95800	1
Beryllium	1000 U	1
Cadmium	1000 U	1
Calcium	35600000	10
Chromium	20000	1
Cobalt	9200	1
Copper	26000	1
Iron	22100000	1
Lead	50800	1
Magnesium	21600000	10
Manganese	659000	1
Mercury	100 U	1
Nickel	18400	1
Potassium	1360000	1
Selenium	2000 UER	5
Silver	400 U	1
Sodium	230000	1
Thallium	460	1
Tin	32200	1
Vanadium	31200	1
Zinc	96800	1
Cyanide	250 U	1
Sulfide	---	---
Sulfate	25000 U	1

Organics Analysis Data Sheet
(Page 1)

Sample Number: X103

Laboratory Name: ENVIRODYNE
Lab Sample ID No: 87002704
Sample Matrix: SOIL
Data Release Authorized By: RC

Case No: 00015
QC Report No: -
Contract No: -
Date Sample Received: 5-29-87

Volatile Compounds

Concentration: LOW
Date Extracted/Prepared:
Date Analyzed: 6-4-87
Conc/Dil Factor: 1
Percent Moisture (not decanted): 17.24

CAS No:		ugkg
74-87-3	Chloromethane	12 U
74-83-9	Bromomethane	12 U
75-01-4	Vinyl Chloride	12 U
75-00-3	Chloroethane	12 U
75-09-2	Methylene Chloride	41 B
67-64-1	Acetone	12 U
75-15-0	Carbon Disulfide	6 U
75-35-4	1,1-Dichloroethene	6 U
75-34-3	1,1-Dichloroethane	6 U
156-60-5	trans-1,2-Dichloroethene	6 U
67-66-3	Chloroform	6 U
107-06-2	1,2-Dichloroethane	6 U
78-93-3	2-Butanone	12 U
71-55-6	1,1,1-Trichloroethane	6 U
56-23-5	Carbon Tetrachloride	6 U
108-05-4	Vinyl Acetate	12 U
75-27-4	Bromodichloromethane	6 U

CAS No:		ugkg
78-87-5	1,2-Dichloropropane	6 U
10061-02-6	trans-1,3-Dichloropropene	6 U
79-01-6	Trichloroethene	6 U
124-48-1	Dibromochloromethane	6 U
79-00-5	1,1,2-Trichloroethane	6 U
71-43-2	Benzene	6 U
10061-01-5	cis-1,3-Dichloropropene	6 U
110-75-8	2-Chloroethylvinylether	12 U
75-25-2	Bromoform	6 U
108-10-1	4-Methyl-2-pentanone	12 U
591-78-6	2-Hexanone	12 U
127-18-4	Tetrachloroethene	6 U
79-34-5	1,1,2,2-Tetrachloroethane	6 U
108-88-3	Toluene	1 J
108-90-7	Chlorobenzene	6 U
100-41-4	Ethylbenzene	6 U
100-42-5	Styrene	6 U
	Total Xylenes	6 U

- -

Data Reporting Qualifiers

000025

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 (eg,10U) based on necessary concent./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 imum attainable detection limit for the sample.

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 (eg, 10J). If limit of detection is 10 ugl and a concentration of 3 ugl is calculated report as 3J

C:
This flag applies to pesticide parameters where the identification was 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 analyte is found in blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
OTHER:
Other 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.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00015

SAMPLE NUMBER
X103

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		No peaks for L.S.	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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16					
17					
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23					
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25					
26					
27					
28					
29					
30					

Laboratory Name: ENVIRODYNE
Case No: 00015

Sample Number: X103

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 6-1-87
Date Analyzed: 6-7-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 17.24

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ugkg	CAS No:		ugkg
108-95-2	Phenol	400 U	83-32-9	Acenaphthene	400 U
111-44-4	bis-(2-Chloroethyl)ether	400 U	51-28-5	2,4-Dinitrophenol	1900 U
95-57-8	2-Chlorophenol	400 U	100-02-7	4-Nitrophenol	1900 U
541-73-1	1,3-Dichlorobenzene	400 U	132-64-9	Dibenzofuran	400 U
106-46-7	1,4-Dichlorobenzene	400 U	121-14-2	2,4-Dinitrotoluene	400 U
100-51-6	Benzyl Alcohol	400 U	606-20-2	2,6-Dinitrotoluene	400 U
95-50-1	1,2-Dichlorobenzene	400 U	84-66-2	Diethyl phthalate	400 U
95-48-7	2-Methylphenol	400 U	7005-72-3	4-Chlorophenyl-phenyl ether	400 U
39638-32-9	bis-(2-Chloroisopropyl)ether	400 U	86-73-7	Fluorene	400 U
106-44-5	4-Methylphenol	400 U	100-01-6	4-Nitroaniline	1900 U
621-64-7	N-nitroso-Di-n-propylamine	400 U	534-52-1	4,6-Dinitro-2-Methylphenol	1900 U
67-72-1	Hexachloroethane	400 U	86-30-6	N-nitrosodiphenylamine (1)	400 U
98-95-3	Nitrobenzene	400 U	101-55-3	4-Bromophenyl-phenyl ether	400 U
78-59-1	Isophorone	400 U	118-74-1	Hexachlorobenzene	400 U
88-75-5	2-Nitrophenol	400 U	87-86-5	Pentachlorophenol	1900 U
105-67-9	2,4-Dimethylphenol	400 U	85-01-8	Phenanthrene	52 J
65-85-0	Benzoic Acid	1900 U	120-12-7	Anthracene	400 U
111-91-1	bis-(Chloroethoxy)Methane	400 U	84-74-2	Di-n-butyl phthalate	2000 B
120-83-2	2,4-Dichlorophenol	400 U	206-44-0	Fluoranthene	100 J
120-82-1	1,2,4-Trichlorobenzene	400 U	129-00-0	Pyrene	100 J
91-20-3	Naphthalene	400 U	85-68-7	Butyl-benzyl-phthalate	400 U
106-47-8	4-Chloroaniline	400 U	91-94-1	3,3'-Dichlorobenzidine	800 U
87-68-3	Hexachlorobutadiene	400 U	56-55-3	Benzo(a)anthracene	77 J
59-50-7	4-Chloro-3-methylphenol	400 U	117-81-7	bis-(2-Ethylhexyl)phthalate	260 BJ
91-57-6	2-Methylnaphthalene	400 U	218-01-9	Chrysene	95 J
77-47-4	Hexachlorocyclopentadiene	400 U	117-84-0	Di-n-octyl phthalate	41 J
88-06-2	2,4,6-Trichlorophenol	400 U	205-99-2	Benzo(b)fluoranthene	110 J
95-95-4	2,4,5-Trichlorophenol	1900 U	207-08-9	Benzo(k)fluoranthene	100 J
91-58-7	2-Chloronaphthalene	400 U	50-32-8	Benzo(a)pyrene	100 J
88-74-4	2-Nitroaniline	1900 U	193-39-5	Indeno(1,2,3-cd)pyrene	81 J
131-11-3	Dimethyl phthalate	400 U	53-70-3	Dibenzo(a,h)anthracene	400 U
208-96-8	Acenapthylene	400 U	191-24-2	Benzo(ghi)perylene	82 J
99-09-2	3-Nitroaniline	1900 U			

(1)-Cannot be separated from diphenylamine

000027

FORM 1

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00015

SAMPLE NUMBER
X103

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1	96480	2(3H)-Furanone, dihydro-	BNA	5.39	770
2		Unknown	BNA	5.5	869
3		Unknown	BNA	6.27	861
4		Unknown	BNA	7.3	1304
5		Unknown	BNA	21.71	1145
6		A saturated Hydrocarbon	BNA	34.06	912
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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22					
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27					
28					
29					
30					

aboratory Name: ENVIRODYNE
Case No: 00015

Sample Number: X103

Organics Analysis Data Sheet
(Page 3)

Pesticides & PCB's

Concentration: LOW
Date Extracted/Prepared: 6-1-87
Date Analyzed: 6-16-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 17.2

GPC Cleanup : NO
Sep. Funnel Extraction : YES NO (circle one)
Contin. Liq.-Liq. Ext. : YES NO (circle one)

CAS No:		ugkg
319-84-6	Alpha-BHC	10 U
319-85-7	Beta-BHC	10 U
319-86-8	Delta-BHC	10 U
58-89-9	Gamma-BHC (Lindane)	10 U
76-44-8	Heptachlor	10 U
309-00-2	Aldrin	10 U
1024-57-3	Heptachlor Epoxide	10 U
959-98-8	Endosulfan I	10 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	97 U
53494-70-5	Endrin Ketone	19 U
57-74-9	Chlordane	97 U
8001-35-2	Toxaphene	190 U
12674-11-2	Aroclor-1016	97 U
11104-28-2	Aroclor-1221	97 U
53469-21-9	Aroclor-1232	97 U
53469-21-9	Aroclor-1242	97 U
12672-29-6	Aroclor-1248	97 U
11097-69-1	Aroclor-1254	190 U
11096-82-5	Aroclor-1260	190 U

000029

Vi = Volume of extract injected (ul)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Ws = 30 g Vt = 20,000 ul Vi = 2.0 ul

FORM 1

Date: JULY 16, 1987

IEPA ANALYSIS PROGRAM
Report of INORGANIC Results
Soil Samples

Site ID: X103
Sample #: 87002704

PARAMETER	VALUE (ug/kg)	DILUTION FACTOR
Aluminum	14500000	1
Antimony	4000 U	1
Arsenic	15140	10
Barium	124000	1
Beryllium	1000 U	1
Cadmium	1000 U	1
Calcium	27900000	10
Chromium	22200	1
Cobalt	12000	1
Copper	31000	1
Iron	24500000	1
Lead	48200	1
Magnesium	17200000	10
Manganese	582000	1
Mercury	100 U	1
Nickel	28800	1
Potassium	2070000	1
Selenium	2000 UER	5
Silver	400 U	1
Sodium	242000	1
Thallium	620	1
Tin	20000 U	1
Vanadium	33200	1
Zinc	83400	1
Cyanide	250 U	1
Sulfide	---	---
Sulfate	25000 U	1

Page 1 of 1

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

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

Site Inventory No. 0310000000 County Cook

Federal I.D. No. 0702416137 PARKVIEW MOBILE HOME PARK (Facility Name)

Sample No.	Initials	Consisting of the Indicated No. of Bottles	Date Collected	Time Sealed
X104	KWC	3	9-1-87	6:00 AM/PM
X105	KWC	3	9-1-87	6:00 AM/PM
X106	KWC	3	9-1-87	6:00 AM/PM
X107	KWC	3	9-1-87	6:00 AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM

Sealer's Signature Kenneth W. Corkill Date 9-1-87 Time 6:05 AM/PM

Sampler(s) KEN CORKILL TOM CRAUSE

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

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time
Kenneth W. Corkill	9-2-87	11:00 AM/PM	[illegible]	[illegible]	[illegible] AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM

RECEIVED
NOV - 6 1987
IEPA/DLPC

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

Signature [illegible] Date [illegible] Time [illegible] A.M. P.M.

Lab Location [illegible] (City)

IL 532-1147
LPC 141 9/83

120-011

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2599

Date Sealed: 8/31/87 By: AWW

Facility
Name : PARKVIEW MOBILE HOME PARK
Region: NORTHERN
County: COOK

Site Inventory # : 0310000000
Site Billing Code: SA 06
Project Manager : KEN CORKILL

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
87-4568	X104	9-1-87	2:25

Sample Appearance : GENERALLY DRY W/ SOME MOIST CLAY — WET SOIL @ 5½'

Collector Comments: SAMPLE DEPTH 5-5½ FEET

Sampler Signature : Ken Corkill Division/Company LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32 OZ	----	ORGANICS			
1	5	32 OZ	----	INORGANICS			
1	12	2 OZ	----	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 9-1-87 Time: 2:25 Seal #: 0002599 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K CORKILL Signature: Ken Corkill

Date: 9-1-87 Time: 6:00 P Seal #: 0002600

Courier - sample pickup: AIRBORNE

Courier - sample delivery: AIR EX

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

Opened by (print): J. SHETLEY Signature: J. Shetley

Date: 9/3/87 Time: 900 AM Seal #: 2600 Intact?: (Y) / N

Lab Name: E.E.I. Comments: good

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2599

Date Sealed: 8/31/87 By: AWW

Facility
Name : PARKVIEW MOBILE HOME PARK
Region: NORTHERN
County: COOK

Site Inventory # : 0310000000
Site Billing Code: SA 06
Project Manager : KEN CORKILL

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
87-4569	X105	9-1-87	3:00p

Sample Appearance : GENERALLY DRY W/SOME MOIST CLAY

Collection Comments: SAMPLE DEPTH 6 FEET

Sampler Signature : Ken Corkill Division/Company LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32 OZ	----	ORGANICS			
1	5	32 OZ	----	INORGANICS			
1	12	2 OZ	----	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 9-1-87 Time: 3:00 Seal #: 0002599 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. CORKILL Signature: Ken Corkill

Date: 9-1-87 Time: 6:00 Seal #: 0002600

Courier - sample pickup: AIRBORNE

Courier - sample delivery: AIR EXP

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

Opened by (print): J. SHETLEY Signature: J. Shetley

Date: 9/3/87 Time: 900 AM Seal #: 2600 Intact?: (Y) N

Lab Name: EEI Comments: good

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2599

Date Sealed: 8/31/87 By: AWW

Facility
Name : PARKVIEW MOBILE HOME PARK
Region: NORTHERN
County: COOK

Site Inventory # : 0310000000
Site Billing Code: SA 06
Project Manager : KEN CORKILL

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
87-4570	X106	9-1-87	3:50

Sample Appearance : DRY W/SOME DAMP/MOIST DARK CLAY

Collector Comments: SAMPLE DEPTH 4-4½ FEET

Sampler Signature : Ken Corkill Division/Company LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32 OZ	----	ORGANICS			
1	5	32 OZ	----	INORGANICS			
1	12	2 OZ	----	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 9-1-87 Time: 3:25 Seal #: 2599 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. CORKILL Signature: Ken Corkill

Date: 9-1-87 Time: 6:00p Seal #: 2600

Courier - sample pickup: AIRBORNE

Courier - sample delivery: AIR EXP

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

Opened by (print): J. STERGEY Signature: J. Stergey

Date: 9/3/87 Time: 900 AM Seal #: 2600 Intact?: (Y) / N

Lab Name: E.T.I. Comments: good

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2599

Date Sealed: 8/31/87 By: AWW

Facility
Name : PARKVIEW MOBILE HOME PARK
Region: NORTHERN
County: COOK

Site Inventory # : 0310000000
Site Billing Code: SA 06
Project Manager : KEN CORKILL

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
87-4571	X107	9-1-87	4:55

Sample Appearance : GENERALLY DRY W/SOME MOIST DARK CLAY

Collector Comments: SAMPLE DEPTH 4 FEET

Sampler Signature : Ken Corkill Division/Company LPC/IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32 OZ	----	ORGANICS			
1	5	32 OZ	----	INORGANICS			
1	12	2 OZ	----	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): K. CORKILL Signature: Ken Corkill

Date: 9-1-87 Time: 2:25 Seal #: 0002599 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): K. CORKILL Signature: Ken Corkill

Date: 9-1-87 Time: 6:00 P Seal #: 0002600

Courier - sample pickup: AIRBORNE

Courier - sample delivery: AIR EXP

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

Opened by (print): J. SHETLEY Signature: J. Shetley

Date: 9/3/87 Time: 900 AM Seal #: 0600 Intact?: (Y) N

Lab Name: IEPA Comments: 900d

FORM 1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X104

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 5 GM
LEVEL: L
% MOIST (not dec): 13.9
COLUMN: Packed

LAB SAMPLE ID: 87004568
LAB FILE ID: 24405
DATE RECEIVED: 09-03-87
DATE ANALYSED: 09-08-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	48	B
67-64-1	Acetone	26	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	17	U

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00021

SAMPLE NUMBER
X104

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		NO L.S. PEAKS	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
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28					
29					
30					

FORM 1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X104

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 30.01 GM
LEVEL: L
% MOIST (not dec): 13.9
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: N pH: 6.5

LAB SAMPLE ID: 87004568
LAB FILE ID: A8530
DATE RECEIVED: 9-3-87
DATE EXTR'D: 9-21-87
DATE ANALYSED: 10-22-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
108-95-2	Phenol	29	J
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl Alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	bis(2-Chloroisopropyl)ether	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	1860	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic Acid	1860	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dinitrophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	1860	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1860	U
131-11-3	Dimethylphthalate	4	J
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U

FORM 1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X104

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 30.01 GM
LEVEL: L
% MOIST (not dec): 13.9
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: N pH: 6.5

LAB SAMPLE ID: 87004568
LAB FILE ID: A8530
DATE RECEIVED: 9-3-87
DATE EXTR'D: 9-21-87
DATE ANALYSED: 10-22-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
99-09-2	3-Nitroaniline	1860	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	1860	U
100-02-7	4-Nitrophenol	1860	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	1860	U
534-52-1	4,6-Dinitro-2-methylphenol	1860	U
86-30-6	N-Nitrosodiphenylamine(1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1860	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
84-74-2	Di-n-butylphthalate	125	BJ
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	87	BJ
117-84-0	Di-n-octylphthalate	421	
205-99-2	Benzo(b)fluoranthene	2055	
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	1160	
193-39-5	Indeno(1,2,3-cd)pyrene	559	
53-70-3	Dibenzo(a,h)anthracene	200	J
191-24-2	Benzo(g,h,i)perylene	543	

(1) - Cannot be separated from Diphenylamine

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00021

SAMPLE NUMBER
X104

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
2216333	Octane, 3-methyl-	BNA	5.73	630
96480	2(3H)-Furanone, dihydro-	BNA	6.68	1300
	Unknown	BNA	6.76	1400
	Unknown	BNA	9.31	400
	Unknown	BNA	18.75	430
123795	Hexanedioic Acid, dioctyl ester	BNA	25.82	5107
198550	Perylene	BNA	29.87	860
	Unknown	BNA	33.07	420
	Unknown	BNA	7.36	246

J

FORM 1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X104

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 30 GM
LEVEL: L
% MOIST (not dec): 13.9
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: Y pH: 6.5

LAB SAMPLE ID: 87004568
DATE RECEIVED: 09-03-87
DATE EXTR'D: 09-09-87
DATE ANALYSED: 09-30-87
DIL. FACTOR: 20

CAS No.	COMPOUND	CONC. (ug/kg)	Q
319-84-6	alpha-BHC	186	U
319-85-7	beta-BHC	186	U
319-86-8	delta-BHC	186	U
58-89-9	gamma-BHC (Lindane)	186	U
76-44-8	Heptachlor	186	U
309-00-2	Aldrin	186	U
1024-57-3	Heptachlor epoxide	186	U
959-98-8	Endosulfan I	186	U
60-57-1	Dieldrin	372	U
72-55-9	4,4'-DDE	372	U
72-20-8	Endrin	372	U
33213-65-9	Endosulfan II	372	U
72-54-8	4,4'-DDD	95	J
1031-07-8	Endosulfan sulfate	372	U
50-29-3	4,4'-DDT	372	U
72-43-5	Methoxychlor	1858	U
53494-70-5	Endrin Ketone	372	U
5103-71-9	alpha-Chlordane	1858	U
5103-74-2	gamma-Chlordane	1858	U
8001-35-2	Toxaphene	3717	U
12674-11-2	Aroclor-1016	1858	U
11104-28-2	Aroclor-1221	1858	U
11141-16-5	Aroclor-1232	1858	U
53469-21-9	Aroclor-1242	1858	U
12672-29-6	Aroclor-1248	1858	U
11097-69-1	Aroclor-1254	3717	U
11096-82-5	Aroclor-1260	3717	U

IEPA ANALYSIS PROGRAM
Report of INORGANIC Results
Soil Samples

Site ID: X104
Sample #: 87004568

	PARAMETER	VALUE (ug/kg)	DILUTION FACTOR
1	Aluminum	6400000	1
2	Antimony	6500 UR	1
3	Arsenic	11370 R*	5
4	Barium	39600	1
5	Beryllium	950 U	1
6	Cadmium	950 U	1
7	Calcium	83200000*	100
8	Chromium	9500	1
9	Cobalt	6100	1
10	Copper	20100	1
11	Iron	16400000	1
12	Lead	32000	1
13	Magnesium	50600000*	100
14	Manganese	358000	1
15	Mercury	100 U	1
16	Nickel	32600	1
17	Potassium	1360000	1
18	Selenium	2300 UR	5
19	Silver	460 U	1
20	Sodium	444000	1
21	Thallium	510 U	1
22	Tin	21500 U	1
23	Vanadium	18200	1
24	Zinc	63600	1
25	Cyanide	250 U	1
26	Sulfide	33000	1
27	Sulfate	88000 R	1
28			---

FORM 1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X105

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 5 GM
LEVEL: L
% MOIST (not dec): 14.2
COLUMN: Packed

LAB SAMPLE ID: 87004569
LAB FILE ID: 24406
DATE RECEIVED: 09-03-87
DATE ANALYSED: 09-08-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	40	B
67-64-1	Acetone	21	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	17	U

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00021

SAMPLE NUMBER
X105

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		NO L.S. PEAKS	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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30					

FORM 1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X105

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 29.97 GM
LEVEL: L
% MOIST (not dec): 14.2
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: Y pH: 6.5

LAB SAMPLE ID: 87004569
LAB FILE ID: A8532
DATE RECEIVED: 9-3-87
DATE EXTR'D: 9-9-87
DATE ANALYSED: 10-23-87
DIL. FACTOR: 2

CAS No.	COMPOUND	CONC. (ug/kg)	Q
108-95-2	Phenol	31	BJ
111-44-4	bis(2-Chloroethyl)ether	770	U
95-57-8	2-Chlorophenol	770	U
541-73-1	1,3-Dichlorobenzene	770	U
106-46-7	1,4-Dichlorobenzene	770	U
100-51-6	Benzyl Alcohol	770	U
95-50-1	1,2-Dichlorobenzene	770	U
95-48-7	2-Methylphenol	770	U
108-60-1	bis(2-Chloroisopropyl)ether	770	U
106-44-5	4-Methylphenol	770	U
621-64-7	N-Nitroso-di-n-propylamine	770	U
67-72-1	Hexachloroethane	770	U
98-95-3	Nitrobenzene	770	U
78-59-1	Isophorone	770	U
88-75-5	2-Nitrophenol	3730	U
105-67-9	2,4-Dimethylphenol	770	U
65-85-0	Benzoic Acid	3730	U
111-91-1	bis(2-Chloroethoxy)methane	770	U
120-83-2	2,4-Dinitrophenol	770	U
120-82-1	1,2,4-Trichlorobenzene	12	J
91-20-3	Naphthalene	19	J
106-47-8	4-Chloroaniline	770	U
87-68-3	Hexachlorobutadiene	770	U
59-50-7	4-Chloro-3-methylphenol	770	U
91-57-6	2-Methylnaphthalene	27	J
77-47-4	Hexachlorocyclopentadiene	770	U
88-06-2	2,4,6-Trichlorophenol	770	U
95-95-4	2,4,5-Trichlorophenol	3730	U
91-58-7	2-Chloronaphthalene	770	U
88-74-4	2-Nitroaniline	3730	U
131-11-3	Dimethylphthalate	8	BJ
208-96-8	Acenaphthylene	11	J
606-20-2	2,6-Dinitrotoluene	770	U

FORM 1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X105

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 29.97 GM
LEVEL: L
% MOIST (not dec): 14.2
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: Y pH: 6.5

LAB SAMPLE ID: 87004569
LAB FILE ID: A8532
DATE RECEIVED: 9-3-87
DATE EXTR'D: 9-9-87
DATE ANALYSED: 10-23-87
DIL. FACTOR: 2

CAS No.	COMPOUND	CONC. (ug/kg)	Q
99-09-2	3-Nitroaniline	3730	U
83-32-9	Acenaphthene	26	J
51-28-5	2,4-Dinitrophenol	3730	U
100-02-7	4-Nitrophenol	3730	U
132-64-9	Dibenzofuran	28	J
121-14-2	2,4-Dinitrotoluene	770	U
84-66-2	Diethylphthalate	53	BJ
7005-72-3	4-Chlorophenyl-phenylether	770	U
86-73-7	Fluorene	49	J
100-01-6	4-Nitroaniline	3730	U
534-52-1	4,6-Dinitro-2-methylphenol	3730	U
86-30-6	N-Nitrosodiphenylamine(1)	770	U
101-55-3	4-Bromophenyl-phenylether	770	U
118-74-1	Hexachlorobenzene	770	U
87-86-5	Pentachlorophenol	3730	U
85-01-8	Phenanthrene	692	J
120-12-7	Anthracene	42	J
84-74-2	Di-n-butylphthalate	384	BJ
206-44-0	Fluoranthene	1053	
129-00-0	Pyrene	653	J
85-68-7	Butylbenzylphthalate	770	U
91-94-1	3,3'-Dichlorobenzidine	1540	U
56-55-3	Benzo(a)anthracene	290	J
218-01-9	Chrysene	432	J
117-81-7	bis(2-Ethylhexyl)phthalate	95	J
117-84-0	Di-n-octylphthalate	300	J
205-99-2	Benzo(b)fluoranthene	989	J
207-08-9	Benzo(k)fluoranthene	770	U
50-32-8	Benzo(a)pyrene	250	J
193-39-5	Indeno(1,2,3-cd)pyrene	300	J
53-70-3	Dibenzo(a,h)anthracene	83	J
191-24-2	Benzo(g,h,i)perylene	346	J

(1) - Cannot be separated from Diphenylamine

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00021

SAMPLE NUMBER
X105

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1	2216333	Octane, 3-methyl	BNA	5.77	537
2	96480	2(3H)-Furanone, dihydro-	BNA	6.65	2207
3		Unknown	BNA	6.72	1229
4	100798	1,3-Dioxolane-4-methanol 2,2-dimethyl	BNA	7.19	1100
5		Unknown	BNA	9.32	960
6		Unknown	BNA	11.48	306
7		Unknown	BNA	12.98	398
8		Unknown	BNA	20.78	1574
8		Unknown	BNA	23.87	500
10		Unknown	BNA	25.66	457
11	123795	Hexanedioic Acid, dioctyl ester	BNA	25.78	949
12	198550	Perylene	BNA	29.85	476
13		Unknown	BNA	31.47	279
14		Unknown	BNA	34.23	951
15		Unknown	BNA	34.8	593
16		Unknown	BNA	8.25	375
17		Unknown	BNA	8.54	839
18		Unknown	BNA	16.62	345
19	10544500	Sulfur,mol.	BNA	22.91	420
20		Unknown	BNA	33.87	2540
21					
22					
23					
24					
25					
26					
27					
28					
29					

FORM 1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X105

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 30 GM
LEVEL: L
% MOIST (not dec): 14.2
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: Y pH: 6.5

LAB SAMPLE ID: 87004569
DATE RECEIVED: 09-03-87
DATE EXTR'D: 09-09-87
DATE ANALYSED: 09-30-87
DIL. FACTOR: 20

CAS No.	COMPOUND	CONC. (ug/kg)	Q
319-84-6	alpha-BHC	186	U
319-85-7	beta-BHC	186	U
319-86-8	delta-BHC	186	U
58-89-9	gamma-BHC (Lindane)	186	U
76-44-8	Heptachlor	186	U
309-00-2	Aldrin	186	U
1024-57-3	Heptachlor epoxide	186	U
959-98-8	Endosulfan I	186	U
60-57-1	Dieldrin	373	U
72-55-9	4,4'-DDE	373	U
72-20-8	Endrin	373	U
33213-65-9	Endosulfan II	373	U
72-54-8	4,4'-DDD	69	J
1031-07-8	Endosulfan sulfate	373	U
50-29-3	4,4'-DDT	373	U
72-43-5	Methoxychlor	1865	U
53494-70-5	Endrin Ketone	373	U
5103-71-9	alpha-Chlordane	1865	U
5103-74-2	gamma-Chlordane	1865	U
8001-35-2	Toxaphene	3730	U
12674-11-2	Aroclor-1016	1865	U
11104-28-2	Aroclor-1221	1865	U
11141-16-5	Aroclor-1232	1865	U
53469-21-9	Aroclor-1242	1865	U
12672-29-6	Aroclor-1248	1865	U
11097-69-1	Aroclor-1254	3730	U
11096-82-5	Aroclor-1260	777	J

IEPA ANALYSIS PROGRAM
Report of INORGANIC Results
Soil Samples

Site ID: X105
Sample #: 87004569

	PARAMETER	VALUE (ug/kg)	DILUTION FACTOR
1	Aluminum	23400000	1
2	Antimony	7000 UR	1
3	Arsenic	18690 R*	5
4	Barium	82800	1
5	Beryllium	950	1
6	Cadmium	950 U	1
7	Calcium	22400000*	10
8	Chromium	33600	1
9	Cobalt	16900	1
10	Copper	37000	1
11	Iron	36200000	1
12	Lead	32300	1
13	Magnesium	12200000*	10
14	Manganese	388000	1
15	Mercury	100 U	1
16	Nickel	56200	1
17	Potassium	1940000	1
18	Selenium	2500 UER	5
19	Silver	500 U	1
20	Sodium	187000	1
21	Thallium	550 U	1
22	Tin	21700 U	1
23	Vanadium	35900	1
24	Zinc	92700	1
25	Cyanide	250 U	1
26	Sulfide	10000 U	1
27	Sulfate	36000 R	1
28			---

FORM 1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X106

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 5 GM
LEVEL: L
% MOIST (not dec): 16.3
COLUMN: Packed

LAB SAMPLE ID: 87004570
LAB FILE ID: 24410
DATE RECEIVED: 09-03-87
DATE ANALYSED: 09-09-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	43	B
67-64-1	Acetone	46	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	18	U

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00021

SAMPLE NUMBER
X106

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		NO L.S. PEAKS	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
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26					
27					
28					
29					
30					

FORM 1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X106

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 1 GM
LEVEL: M
% MOIST (not dec): 16.3
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: N pH: 6.5

LAB SAMPLE ID: 87004570
LAB FILE ID: A8526
DATE RECEIVED: 9-3-87
DATE EXTR'D: 9-10-87
DATE ANALYSED: 10-22-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
108-95-2	Phenol	39430	U
111-44-4	bis(2-Chloroethyl)ether	39430	U
95-57-8	2-Chlorophenol	39430	U
541-73-1	1,3-Dichlorobenzene	39430	U
106-46-7	1,4-Dichlorobenzene	39430	U
100-51-6	Benzyl Alcohol	39430	U
95-50-1	1,2-Dichlorobenzene	39430	U
95-48-7	2-Methylphenol	39430	U
108-60-1	bis(2-Chloroisopropyl)ether	39430	U
106-44-5	4-Methylphenol	39430	U
621-64-7	N-Nitroso-di-n-propylamine	39430	U
67-72-1	Hexachloroethane	39430	U
98-95-3	Nitrobenzene	39430	U
78-59-1	Isophorone	39430	U
88-75-5	2-Nitrophenol	191160	U
105-67-9	2,4-Dimethylphenol	39430	U
65-85-0	Benzoic Acid	191160	U
111-91-1	bis(2-Chloroethoxy)methane	39430	U
120-83-2	2,4-Dinitrophenol	39430	U
120-82-1	1,2,4-Trichlorobenzene	39430	U
91-20-3	Naphthalene	39430	U
106-47-8	4-Chloroaniline	39430	U
87-68-3	Hexachlorobutadiene	39430	U
59-50-7	4-Chloro-3-methylphenol	39430	U
91-57-6	2-Methylnaphthalene	39430	U
77-47-4	Hexachlorocyclopentadiene	39430	U
88-06-2	2,4,6-Trichlorophenol	39430	U
95-95-4	2,4,5-Trichlorophenol	191160	U
91-58-7	2-Chloronaphthalene	39430	U
88-74-4	2-Nitroaniline	191160	U
131-11-3	Dimethylphthalate	39430	U
208-96-8	Acenaphthylene	842	J
606-20-2	2,6-Dinitrotoluene	39430	U

FORM 1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X106

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 1 GM
LEVEL: M
% MOIST (not dec): 16.3
COLUMN: Packed
EXTRACTION: ~~SEP.F~~ Sonc.
GPC CLEANUP: N pH: 6.5

LAB SAMPLE ID: 87004570
LAB FILE ID: A8526
DATE RECEIVED: 09-03-87
DATE EXTR'D: 09-10-87
DATE ANALYSED: 10-22-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
99-09-2	3-Nitroaniline	191160	U
83-32-9	Acenaphthene	1309	J
51-28-5	2,4-Dinitrophenol	191160	U
100-02-7	4-Nitrophenol	191160	U
132-64-9	Dibenzofuran	1541	J
121-14-2	2,4-Dinitrotoluene	39430	U
84-66-2	Diethylphthalate	39430	U
7005-72-3	4-Chlorophenyl-phenylether	39430	U
86-73-7	Fluorene	39430	U
100-01-6	4-Nitroaniline	191160	U
534-52-1	4,6-Dinitro-2-methylphenol	191160	U
86-30-6	N-Nitrosodiphenylamine(1)	39430	U
101-55-3	4-Bromophenyl-phenylether	39430	U
118-74-1	Hexachlorobenzene	39430	U
87-86-5	Pentachlorophenol	191160	U
85-01-8	Phenanthrene	10842	J
120-12-7	Anthracene	3464	J
84-74-2	Di-n-butylphthalate	1992	BJ
206-44-0	Fluoranthene	6569	J
129-00-0	Pyrene	51266	
85-68-7	Butylbenzylphthalate	39430	U
91-94-1	3,3'-Dichlorobenzidine	78850	U
56-55-3	Benzo(a)anthracene	39430	U
218-01-9	Chrysene	39430	U
117-81-7	bis(2-Ethylhexyl)phthalate	39430	U
117-84-0	Di-n-octylphthalate	39430	U
205-99-2	Benzo(b)fluoranthene	39430	U
207-08-9	Benzo(k)fluoranthene	39430	U
50-32-8	Benzo(a)pyrene	39430	U
193-39-5	Indeno(1,2,3-cd)pyrene	39430	U
53-70-3	Dibenzo(a,h)anthracene	39430	U
191-24-2	Benzo(g,h,i)perylene	39430	U

(1) - Cannot be separated from Diphenylamine

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00021.

SAMPLE NUMBER
X106

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1	96480	2(3H)-Furanone, dihydro-	BNA	6.58	94827
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
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17					
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FORM 1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X106

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 1 GM
LEVEL: M
% MOIST (not dec): 16.3
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: N pH: 6.5

LAB SAMPLE ID: 87004570
DATE RECEIVED: 09-03-87
DATE EXTR'D: 09-10-87
DATE ANALYSED: 09-18-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
1-319-84-6	alpha-BHC	143	U
1-319-85-7	beta-BHC	143	U
1-319-86-8	delta-BHC	143	U
1-58-89-9	gamma-BHC (Lindane)	143	U
1-76-44-8	Heptachlor	143	U
1-309-00-2	Aldrin	143	U
1-1024-57-3	Heptachlor epoxide	143	U
1-959-98-8	Endosulfan I	143	U
1-60-57-1	Dieldrin	287	U
1-72-55-9	4,4'-DDE	287	U
1-72-20-8	Endrin	287	U
1-33213-65-9	Endosulfan II	287	U
1-72-54-8	4,4'-DDD	287	U
1-1031-07-8	Endosulfan sulfate	287	U
1-50-29-3	4,4'-DDT	287	U
1-72-43-5	Methoxychlor	1434	U
1-53494-70-5	Endrin Ketone	287	U
1-5103-71-9	alpha-Chlordane	1434	U
1-5103-74-2	gamma-Chlordane	1434	U
1-8001-35-2	Toxaphene	2867	U
1-12674-11-2	Arochlor-1016	1434	U
1-11104-28-2	Arochlor-1221	1434	U
1-11141-16-5	Arochlor-1232	1434	U
1-53469-21-9	Arochlor-1242	1434	U
1-12672-29-6	Arochlor-1248	1434	U
1-11097-69-1	Arochlor-1254	2867	U
1-11096-82-5	Arochlor-1260	2867	U

IEPA ANALYSIS PROGRAM
Report of INORGANIC Results
Soil Samples

Site ID: X106
Sample #: 87004570

	PARAMETER	VALUE (ug/kg)	DILUTION FACTOR
1	Aluminum	7570000	1
2	Antimony	6700 UR	1
3	Arsenic	14390 R*	5
4	Barium	273000	1
5	Beryllium	1000 U	1
6	Cadmium	3800	1
7	Calcium	37400000*	10
8	Chromium	19800	1
9	Cobalt	7700	1
10	Copper	294000	10
11	Iron	23400000	1
12	Lead	576000	1
13	Magnesium	21000000*	10
14	Manganese	350000	1
15	Mercury	210	1
16	Nickel	48800	1
17	Potassium	1530000	1
18	Selenium	2400 UER	5
19	Silver	520	1
20	Sodium	333000	1
21	Thallium	530 U	1
22	Tin	23100 U	1
23	Vanadium	21500	1
24	Zinc	768000	1
25	Cyanide	3670	1
26	Sulfide	10000 U	1
27	Sulfate	79000 R	1
28			---

FORM 1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X107

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 5 GM
LEVEL: L
% MOIST (not dec): 15.7
COLUMN: Packed

LAB SAMPLE ID: 87004571
LAB FILE ID: 24411
DATE RECEIVED: 09-03-87
DATE ANALYSED: 09-09-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	56	B
67-64-1	Acetone	82	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	18	U

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00021

SAMPLE NUMBER
X107

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		NO L.S. PEAKS	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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29					
30					

FORM 1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X107

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 30.04 GM
LEVEL: L
% MOIST (not dec): 15.7
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: Y pH: 6.5

LAB SAMPLE ID: 87004571
LAB FILE ID: A8533
DATE RECEIVED: 9-3-87
DATE EXTR'D: 9-9-87
DATE ANALYSED: 10-23-87
DIL. FACTOR: 2

CAS No.	COMPOUND	CONC. (ug/kg)	Q
108-95-2	Phenol	55	BJ
111-44-4	bis(2-Chloroethyl)ether	780	U
95-57-8	2-Chlorophenol	780	U
541-73-1	1,3-Dichlorobenzene	780	U
106-46-7	1,4-Dichlorobenzene	780	U
100-51-6	Benzyl Alcohol	780	U
95-50-1	1,2-Dichlorobenzene	780	U
95-48-7	2-Methylphenol	780	U
108-60-1	bis(2-Chloroisopropyl)ether	780	U
106-44-5	4-Methylphenol	780	U
621-64-7	N-Nitroso-di-n-propylamine	780	U
67-72-1	Hexachloroethane	780	U
98-95-3	Nitrobenzene	780	U
78-59-1	Isophorone	780	U
88-75-5	2-Nitrophenol	3800	U
105-67-9	2,4-Dimethylphenol	780	U
65-85-0	Benzoic Acid	3800	U
111-91-1	bis(2-Chloroethoxy)methane	780	U
120-83-2	2,4-Dinitrophenol	780	U
120-82-1	1,2,4-Trichlorobenzene	780	U
91-20-3	Naphthalene	135	J
106-47-8	4-Chloroaniline	94	J
87-68-3	Hexachlorobutadiene	780	U
59-50-7	4-Chloro-3-methylphenol	780	U
91-57-6	2-Methylnaphthalene	118	J
77-47-4	Hexachlorocyclopentadiene	780	U
88-06-2	2,4,6-Trichlorophenol	780	U
95-95-4	2,4,5-Trichlorophenol	3800	U
91-58-7	2-Chloronaphthalene	780	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethylphthalate	780	U
208-96-8	Acenaphthylene	295	J
606-20-2	2,6-Dinitrotoluene	780	U

FORM 1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X107

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 30.04 GM
LEVEL: L
% MOIST (not dec): 15.7
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: Y pH: 6.5

LAB SAMPLE ID: 87004571
LAB FILE ID: A8533
DATE RECEIVED: 9-3-87
DATE EXTR'D: 9-9-87
DATE ANALYSED: 10-23-87
DIL. FACTOR: 2

CAS No.	COMPOUND	CONC. (ug/kg)	Q
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene	117	J
51-28-5	2,4-Dinitrophenol	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	209	J
121-14-2	2,4-Dinitrotoluene	780	U
84-66-2	Diethylphthalate	780	U
7005-72-3	4-Chlorophenyl-phenylether	780	U
86-73-7	Fluorene	393	J
100-01-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine(1)	780	U
101-55-3	4-Bromophenyl-phenylether	780	U
118-74-1	Hexachlorobenzene	780	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	2659	
120-12-7	Anthracene	479	J
84-74-2	Di-n-butylphthalate	493	BJ
206-44-0	Fluoranthene	3827	
129-00-0	Pyrene	2091	
85-68-7	Butylbenzylphthalate	780	U
91-94-1	3,3'-Dichlorobenzidine	1570	U
56-55-3	Benzo(a)anthracene	1546	
218-01-9	Chrysene	1692	
117-81-7	bis(2-Ethylhexyl)phthalate	231	BJ
117-84-0	Di-n-octylphthalate	529	J
205-99-2	Benzo(b)fluoranthene	3582	
207-08-9	Benzo(k)fluoranthene	780	U
50-32-8	Benzo(a)pyrene	1161	
193-39-5	Indeno(1,2,3-cd)pyrene	903	
53-70-3	Dibenzo(a,h)anthracene	341	J
191-24-2	Benzo(g,h,i)perylene	882	

(1) - Cannot be separated from Diphenylamine

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00021

SAMPLE NUMBER
X107

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1	2216333	Octane, 3-methyl	BNA	5.78	512
2	96480	2(3H)-Furanone, dihydro-	BNA	6.67	2790
3		Unknown	BNA	6.73	1318
4	100798	1,3-Dioxolane-4-methanol, 2,2-dimethyl	BNA	7.19	788
5		Unknown	BNA	9.31	580
6		Unknown Hydrocarbon	BNA	18.93	615
7		Unknown Phthalate	BNA	20.79	1544
8		Unknown Alkene	BNA	20.99	1394
9		Unknown	BNA	21.56	634
10	57103	Hexanedioic Acid	BNA	21.65	561
11	84651	9,10-Anthracenedione	BNA	22.07	661
12	243174	11 H-Benzo(b)fluorene	BNA	24.49	279
13		Unknown	BNA	25.52	464
14		Unknown	BNA	25.79	629
15	1740138	1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a,-octahbeta. ,10a. alpha.)]	BNA	26.39	451
16		Unknown	BNA	29.72	1076
17	198550	Perylene	BNA	29.87	1663
18		Unknown	BNA	8.25	397
19		Unknown	BNA	8.54	445
20		Unknown	BNA	12.99	284
21		Hydrocarbon	BNA	15.02	404
22		Unknown	BNA	28.21	211
23		Hydrocarbon	BNA	31.47	583
24		Unknown	BNA	33.87	560
25					
26					
27					

FORM 1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X107

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 30 GM
LEVEL: L
% MOIST (not dec): 15.7
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: Y pH: 6.5

LAB SAMPLE ID: 87004571
DATE RECEIVED: 09-03-87
DATE EXTR'D: 09-09-87
DATE ANALYSED: 10-01-87
DIL. FACTOR: 20

CAS No.	COMPOUND	CONC. (ug/kg)	Q
319-84-6	alpha-BHC	190	U
319-85-7	beta-BHC	190	U
319-86-8	delta-BHC	190	U
58-89-9	gamma-BHC (Lindane)	190	U
76-44-8	Heptachlor	190	U
309-00-2	Aldrin	190	U
1024-57-3	Heptachlor epoxide	190	U
959-98-8	Endosulfan I	190	U
60-57-1	Dieldrin	380	U
72-55-9	4,4'-DDE	380	U
72-20-8	Endrin	380	U
33213-65-9	Endosulfan II	380	U
72-54-8	4,4'-DDD	380	U
1031-07-8	Endosulfan sulfate	380	U
50-29-3	4,4'-DDT	62	J
72-43-5	Methoxychlor	1898	U
53494-70-5	Endrin Ketone	380	U
5103-71-9	alpha-Chlordane	1898	U
5103-74-2	gamma-Chlordane	1898	U
8001-35-2	Toxaphene	3796	U
12674-11-2	Aroclor-1016	1898	U
11104-28-2	Aroclor-1221	1898	U
11141-16-5	Aroclor-1232	1898	U
53469-21-9	Aroclor-1242	1898	U
12672-29-6	Aroclor-1248	1898	U
11097-69-1	Aroclor-1254	3796	U
11096-82-5	Aroclor-1260	3796	U

Date: November 3 , 1987 Page: 1

IEPA ANALYSIS PROGRAM
Report of INORGANIC Results
Soil Samples

Site ID: X107
Sample #: 87004571

	PARAMETER	VALUE (ug/kg)	DILUTION FACTOR
1	Aluminum	11700000	1
2	Antimony	6610 UR	1
3	Arsenic	19470 R*	5
4	Barium	74200	1
5	Beryllium	980 U	1
6	Cadmium	1200	1
7	Calcium	46100000*	10
8	Chromium	17200	1
9	Cobalt	11500	1
10	Copper	55400	1
11	Iron	29400000	1
12	Lead	78600	1
13	Magnesium	23400000*	10
14	Manganese	372000	1
15	Mercury	100 U	1
16	Nickel	43700	1
17	Potassium	1770000	1
18	Selenium	2300 UER	5
19	Silver	470 U	1
20	Sodium	162000	1
21	Thallium	650	1
22	Tin	22300 U	1
23	Vanadium	26500	1
24	Zinc	447000	1
25	Cyanide	250 U	1
26	Sulfide	10000 U	1
27	Sulfate	30000 R	1
28			---

FORM 1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

MB#1

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Water
SAMPLE WT/VOL: 5 mL
LEVEL: L
% MOIST (not dec): NA
COLUMN: Packed

LAB SAMPLE ID:
LAB FILE ID: 24397
DATE RECEIVED:
DATE ANALYSED: 09-08-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
1-74-87-3	Chloromethane	10	U
1-74-83-9	Bromomethane	10	U
1-75-01-4	Vinyl Chloride	10	U
1-75-00-3	Chloroethane	10	U
1-75-09-2	Methylene Chloride	18	B
1-67-64-1	Acetone	11	B
1-75-15-0	Carbon Disulfide	5	U
1-75-35-4	1,1-Dichloroethene	5	U
1-75-34-3	1,1-Dichloroethane	5	U
1-540-59-0	1,2-Dichloroethene (total)	5	U
1-67-66-3	Chloroform	5	U
1-107-06-2	1,2-Dichloroethane	5	U
1-78-93-3	2-Butanone	10	U
1-71-55-6	1,1,1-Trichloroethane	5	U
1-56-23-5	Carbon Tetrachloride	5	U
1-108-05-4	Vinyl Acetate	10	U
1-75-27-4	Bromodichloromethane	5	U
1-78-87-5	1,2-Dichloropropane	5	U
1-10061-01-5	cis-1,3-Dichloropropene	5	U
1-79-01-6	Trichloroethene	5	U
1-124-48-1	Dibromochloromethane	5	U
1-79-00-5	1,1,2-Trichloroethane	5	U
1-71-43-2	Benzene	5	U
1-10061-02-6	trans-1,3-dichloropropene	5	U
1-75-25-2	Bromoform	5	U
1-108-10-1	4-Methyl-2-Pentanone	10	U
1-591-78-6	2-Hexanone	10	U
1-127-18-4	Tetrachloroethene	5	U
1-79-34-5	1,1,2,2-Tetrachloroethane	5	U
1-108-88-3	Toluene	5	U
1-108-90-7	Chlorobenzene	5	U
1-100-41-4	Ethylbenzene	5	U
1-100-42-5	Styrene	5	U
1-1330-20-7	Xylene (total)	15	U

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00021

SAMPLE NUMBER

MB#1

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		NO L.S. PEAKS	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
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FORM 1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

MB#1

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 29.98 GM
LEVEL: L
% MOIST (not dec): NA
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: Y pH: 7

LAB SAMPLE ID:
LAB FILE ID: A8531
DATE RECEIVED:
DATE EXTR'D: 9-9-87
DATE ANALYSED: 10-22-87
DIL. FACTOR: 2

CAS No.	COMPOUND	CONC. (ug/kg)	Q
108-95-2	Phenol	14	BJ
111-44-4	bis(2-Chloroethyl)ether	660	U
95-57-8	2-Chlorophenol	660	U
541-73-1	1,3-Dichlorobenzene	660	U
106-46-7	1,4-Dichlorobenzene	660	U
100-51-6	Benzyl Alcohol	660	U
95-50-1	1,2-Dichlorobenzene	660	U
95-48-7	2-Methylphenol	660	U
108-60-1	bis(2-Chloroisopropyl)ether	660	U
106-44-5	4-Methylphenol	660	U
621-64-7	N-Nitroso-di-n-propylamine	660	U
67-72-1	Hexachloroethane	660	U
98-95-3	Nitrobenzene	660	U
78-59-1	Isophorone	660	U
88-75-5	2-Nitrophenol	3200	U
105-67-9	2,4-Dimethylphenol	660	U
65-85-0	Benzoic Acid	3200	U
111-91-1	bis(2-Chloroethoxy)methane	660	U
120-83-2	2,4-Dinitrophenol	660	U
120-82-1	1,2,4-Trichlorobenzene	660	U
91-20-3	Naphthalene	660	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	660	U
59-50-7	4-Chloro-3-methylphenol	660	U
91-57-6	2-Methylnaphthalene	660	U
77-47-4	Hexachlorocyclopentadiene	660	U
88-06-2	2,4,6-Trichlorophenol	660	U
95-95-4	2,4,5-Trichlorophenol	3200	U
91-58-7	2-Chloronaphthalene	660	U
88-74-4	2-Nitroaniline	3200	U
131-11-3	Dimethylphthalate	6	BJ
208-96-8	Acenaphthylene	660	U
606-20-2	2,6-Dinitrotoluene	660	U

FORM 1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

MB#1

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 29.98 GM
LEVEL: L
% MOIST (not dec): NA
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: Y pH: 7

LAB SAMPLE ID:
LAB FILE ID: A8531
DATE RECEIVED:
DATE EXTR'D: 9-9-87
DATE ANALYSED: 10-22-87
DIL. FACTOR: 2

CAS No.	COMPOUND	CONC. (ug/kg)	Q
99-09-2	3-Nitroaniline	3200	U
83-32-9	Acenaphthene	660	U
51-28-5	2,4-Dinitrophenol	3200	U
100-02-7	4-Nitrophenol	3200	U
132-64-9	Dibenzofuran	660	U
121-14-2	2,4-Dinitrotoluene	660	U
84-66-2	Diethylphthalate	53	BJ
7005-72-3	4-Chlorophenyl-phenylether	660	U
86-73-7	Fluorene	660	U
100-01-6	4-Nitroaniline	3200	U
534-52-1	4,6-Dinitro-2-methylphenol	3200	U
86-30-6	N-Nitrosodiphenylamine(1)	660	U
101-55-3	4-Bromophenyl-phenylether	660	U
118-74-1	Hexachlorobenzene	660	U
87-86-5	Pentachlorophenol	32	BJ
85-01-8	Phenanthrene	660	U
120-12-7	Anthracene	660	U
84-74-2	Di-n-butylphthalate	63	BJ
206-44-0	Fluoranthene	660	U
129-00-0	Pyrene	660	U
85-68-7	Butylbenzylphthalate	660	U
91-94-1	3,3'-Dichlorobenzidine	1320	U
56-55-3	Benzo(a)anthracene	660	U
218-01-9	Chrysene	660	U
117-81-7	bis(2-Ethylhexyl)phthalate	43	BJ
117-84-0	Di-n-octylphthalate	660	U
205-99-2	Benzo(b)fluoranthene	660	U
207-08-9	Benzo(k)fluoranthene	660	U
50-32-8	Benzo(a)pyrene	660	U
193-39-5	Indeno(1,2,3-cd)pyrene	660	U
53-70-3	Dibenzo(a,h)anthracene	660	U
191-24-2	Benzo(g,h,i)perylene	660	U

(1) - Cannot be separated from Diphenylamine

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00021

SAMPLE NUMBER
MB#1 LOW

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1	2216333	Octane, 3-methyl	BNA	5.78	521
2	96480	2(3H)-Furanone, dihydro-	BNA	6.63	1432
3		Unknown	BNA	6.72	1091
4		Unknown	BNA	6.87	1742
5		Unknown	BNA	11.48	325
6		Unknown	BNA	12.1	640
7		Unknown	BNA	12.46	86
8		Unknown	BNA	12.97	334
9		Unknown	BNA	7.6	258
10		looks like Hexadecanoic acid, butyl ester	BNA	23.89	252
11	64502	dibenzo(a,k) pyrene	BNA	24.85	188
12					
13					
14					
15					
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25					
26					
27					
28					
29					

FORM 1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

MB#1

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 30 GM
LEVEL: L
% MOIST (not dec): NA
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: Y pH: 7

LAB SAMPLE ID:
DATE RECEIVED:
DATE EXTR'D: 09-09-87
DATE ANALYSED: 09-30-87
DIL. FACTOR: 20

CAS No.	COMPOUND	CONC. (ug/kg)	Q
319-84-6	alpha-BHC	160	U
319-85-7	beta-BHC	160	U
319-86-8	delta-BHC	160	U
58-89-9	gamma-BHC (Lindane)	160	U
76-44-8	Heptachlor	160	U
309-00-2	Aldrin	160	U
1024-57-3	Heptachlor epoxide	160	U
959-98-8	Endosulfan I	160	U
60-57-1	Dieldrin	320	U
72-55-9	4,4'-DDE	320	U
72-20-8	Endrin	320	U
33213-65-9	Endosulfan II	320	U
72-54-8	4,4'-DDD	320	U
1031-07-8	Endosulfan sulfate	320	U
50-29-3	4,4'-DDT	320	U
72-43-5	Methoxychlor	1600	U
53494-70-5	Endrin Ketone	320	U
5103-71-9	alpha-Chlordane	1600	U
5103-74-2	gamma-Chlordane	1600	U
8001-35-2	Toxaphene	3200	U
12674-11-2	Aroclor-1016	1600	U
11104-28-2	Aroclor-1221	1600	U
11141-16-5	Aroclor-1232	1600	U
53469-21-9	Aroclor-1242	1600	U
12672-29-6	Aroclor-1248	1600	U
11097-69-1	Aroclor-1254	3200	U
11096-82-5	Aroclor-1260	3200	U

FORM 1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

MB#2

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Water
SAMPLE WT/VOL: 5 mL
LEVEL: L
% MOIST (not dec): NA
COLUMN: Packed

LAB SAMPLE ID:
LAB FILE ID: 24409
DATE RECEIVED:
DATE ANALYSED: 09-09-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	15	B
67-64-1	Acetone	14	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	15	U

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00021

SAMPLE NUMBER
MB#2

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1		NO L.S. PEAKS	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
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FORM 1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

MB#2

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 1 GM
LEVEL: M
% MOIST (not dec): NA
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: N pH: 7

LAB SAMPLE ID:
LAB FILE ID: A8534
DATE RECEIVED:
DATE EXTR'D: 9-10-87
DATE ANALYSED: 10-23-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
108-95-2	Phenol	33000	U
111-44-4	bis(2-Chloroethyl)ether	33000	U
95-57-8	2-Chlorophenol	33000	U
541-73-1	1,3-Dichlorobenzene	33000	U
106-46-7	1,4-Dichlorobenzene	33000	U
100-51-6	Benzyl Alcohol	33000	U
95-50-1	1,2-Dichlorobenzene	33000	U
95-48-7	2-Methylphenol	33000	U
108-60-1	bis(2-Chloroisopropyl)ether	33000	U
106-44-5	4-Methylphenol	33000	U
621-64-7	N-Nitroso-di-n-propylamine	33000	U
67-72-1	Hexachloroethane	33000	U
98-95-3	Nitrobenzene	33000	U
78-59-1	Isophorone	33000	U
88-75-5	2-Nitrophenol	160000	U
105-67-9	2,4-Dimethylphenol	33000	U
65-85-0	Benzoic Acid	160000	U
111-91-1	bis(2-Chloroethoxy)methane	33000	U
120-83-2	2,4-Dinitrophenol	33000	U
120-82-1	1,2,4-Trichlorobenzene	33000	U
91-20-3	Naphthalene	33000	U
106-47-8	4-Chloroaniline	33000	U
87-68-3	Hexachlorobutadiene	33000	U
59-50-7	4-Chloro-3-methylphenol	33000	U
91-57-6	2-Methylnaphthalene	33000	U
77-47-4	Hexachlorocyclopentadiene	33000	U
88-06-2	2,4,6-Trichlorophenol	33000	U
95-95-4	2,4,5-Trichlorophenol	160000	U
91-58-7	2-Chloronaphthalene	33000	U
88-74-4	2-Nitroaniline	160000	U
131-11-3	Dimethylphthalate	33000	U
208-96-8	Acenaphthylene	33000	U
606-20-2	2,6-Dinitrotoluene	33000	U

FORM 1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

MB#2

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 1 GM
LEVEL: M
% MOIST (not dec): NA
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: N pH: 7

LAB SAMPLE ID:
LAB FILE ID: A8534
DATE RECEIVED:
DATE EXTR'D: 9-10-87
DATE ANALYSED: 10-23-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
99-09-2	3-Nitroaniline	160000	U
83-32-9	Acenaphthene	33000	U
51-28-5	2,4-Dinitrophenol	160000	U
100-02-7	4-Nitrophenol	160000	U
132-64-9	Dibenzofuran	33000	U
121-14-2	2,4-Dinitrotoluene	33000	U
84-66-2	Diethylphthalate	33000	U
7005-72-3	4-Chlorophenyl-phenylether	33000	U
86-73-7	Fluorene	33000	U
100-01-6	4-Nitroaniline	160000	U
534-52-1	4,6-Dinitro-2-methylphenol	160000	U
86-30-6	N-Nitrosodiphenylamine(1)	33000	U
101-55-3	4-Bromophenyl-phenylether	33000	U
118-74-1	Hexachlorobenzene	33000	U
87-86-5	Pentachlorophenol	160000	U
85-01-8	Phenanthrene	33000	U
120-12-7	Anthracene	33000	U
84-74-2	Di-n-butylphthalate	249	BJ
206-44-0	Fluoranthene	33000	U
129-00-0	Pyrene	81	BJ
85-68-7	Butylbenzylphthalate	33000	U
91-94-1	3,3'-Dichlorobenzidine	66000	U
56-55-3	Benzo(a)anthracene	33000	U
218-01-9	Chrysene	33000	U
117-81-7	bis(2-Ethylhexyl)phthalate	548	BJ
117-84-0	Di-n-octylphthalate	33000	U
205-99-2	Benzo(b)fluoranthene	33000	U
207-08-9	Benzo(k)fluoranthene	33000	U
50-32-8	Benzo(a)pyrene	33000	U
193-39-5	Indeno(1,2,3-cd)pyrene	33000	U
53-70-3	Dibenzo(a,h)anthracene	33000	U
191-24-2	Benzo(g,h,i)perylene	33000	U

(1) - Cannot be separated from Diphenylamine

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00021

SAMPLE NUMBER
MB#1 MED

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1	79345	Ethane, 1,1,2,2-tetrachloro	BNA	6.62	31971
2		Unknown	BNA	6.96	131889
3		Unknown	BNA	25.66	6634
4		Unknown	BNA	23.88	5960
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FORM 1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

MB#2

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 1 GM
LEVEL: M
% MOIST (not dec): NA
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: N pH: 6.5

LAB SAMPLE ID:
DATE RECEIVED:
DATE EXTR'D: 09-10-87
DATE ANALYSED: 09-18-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
319-84-6	alpha-BHC	120	U
319-85-7	beta-BHC	120	U
319-86-8	delta-BHC	120	U
58-89-9	gamma-BHC (Lindane)	120	U
76-44-8	Heptachlor	120	U
309-00-2	Aldrin	120	U
1024-57-3	Heptachlor epoxide	120	U
959-98-8	Endosulfan I	120	U
60-57-1	Dieldrin	240	U
72-55-9	4,4'-DDE	240	U
72-20-8	Endrin	240	U
33213-65-9	Endosulfan II	240	U
72-54-8	4,4'-DDD	240	U
1031-07-8	Endosulfan sulfate	240	U
50-29-3	4,4'-DDT	240	U
72-43-5	Methoxychlor	1200	U
53494-70-5	Endrin Ketone	240	U
5103-71-9	alpha-Chlordane	1200	U
5103-74-2	gamma-Chlordane	1200	U
8001-35-2	Toxaphene	2400	U
12674-11-2	Aroclor-1016	1200	U
11104-28-2	Aroclor-1221	1200	U
11141-16-5	Aroclor-1232	1200	U
53469-21-9	Aroclor-1242	1200	U
12672-29-6	Aroclor-1248	1200	U
11097-69-1	Aroclor-1254	2400	U
11096-82-5	Aroclor-1260	2400	U

FORM 1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

MB#3

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 1 GM
LEVEL: L
% MOIST (not dec): 13.9
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: N pH: 6.5

LAB SAMPLE ID:
LAB FILE ID: A8562
DATE RECEIVED:
DATE EXTR'D: 9-21-87
DATE ANALYSED: 11-1-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl Alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	bis(2-Chloroisopropyl)ether	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	1860	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic Acid	1860	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dinitrophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	1860	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1860	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U

FORM 1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

MB#3

LAB NAME: Envirodyne Engineers, Inc.

CASE No: 3132-00021
SDG No.: X104

MATRIX: Soil
SAMPLE WT/VOL: 1 GM
LEVEL: L
% MOIST (not dec): 13.9
COLUMN: Packed
EXTRACTION: Sonc.
GPC CLEANUP: N pH: 6.5

LAB SAMPLE ID:
LAB FILE ID: A8562
DATE RECEIVED:
DATE EXTR'D: 9-21-87
DATE ANALYSED: 11-1-87
DIL. FACTOR: 1

CAS No.	COMPOUND	CONC. (ug/kg)	Q
99-09-2	3-Nitroaniline	1860	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	1860	U
100-02-7	4-Nitrophenol	1860	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	25	BJ
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	1860	U
534-52-1	4,6-Dinitro-2-methylphenol	1860	U
86-30-6	N-Nitrosodiphenylamine(1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1860	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
84-74-2	Di-n-butylphthalate	31	BJ
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	28	BJ
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Contract Laboratory Services

LAB NAME : Envirodyne Engineers, Inc.

CASE # : 3132-00021

SAMPLE NUMBER
MB#3

ORGANICS ANALYSIS DATA SHEET
SOIL SAMPLES
Tentatively Identified Compounds

	CAS NUMBER	COMPOUND NAME	FRACTION	RT (min.)	ESTIMATED CONC. (ug/kg)
1	96480	2(3H)-Furanone, dihydro-	BNA	6.21	808
2		Unknown	BNA	6.32	553
3		Unknown	BNA	6.43	466
4		Unknown	BNA	6.8	117
5		Unknown	BNA	7.16	135
6		Unknown	BNA	8.42	113
7		Unknown	BNA	11.06	217
8		Unknown	BNA	11.69	255
9		Unknown	BNA	12.55	221
10		Unknown	BNA	23.4	286
11		Unknown	BNA	25.19	224
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Illinois Environmental Protection Agency
Contract Laboratory Services
Organic Analysis Data Package

Date: November 5, 1987

COVER PAGE

Lab Name: Envirodyne Engineers, Inc.
Site Inventory Number : 0310000000
Region : Northern

Q.C. Report No. : 3132-00021
Facility Name : Parkveiw Mobile Home Park
County: Cook

DATA REPORTING QUALIFIERS FOR ORGANICS ANALYSIS

For reporting results, the following results qualifiers are used: (Additional flags or footnotes are encouraged. However, the definition of such flags must be explicite.)

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 with the detection limit value (i.e. 10U).

J - Indicates estimated value. This flag is used when estimating the concentration of tentatively identified compounds.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte being reported was also found in the blank.

CONTENTS SUMMARY (use additional page if necessary)

IEPA I.D. No.	Lab I.D. No.	Analysis Type	Analysis Date
MBH1	24397	VOA	9-8-87
X104	24405	VOA	9-8-87
X105	24406	VOA	9-8-87

Narrative summary of any QC, sample, or analytical problems encountered with the samples being reported. Attach additional sheets if necessary.

Illinois Environmental Protection Agency
Contract Laboratory Services
Organic Analysis Data Package

Date: November 5, 1987

COVER PAGE

Lab Name: Envirodyne Engineers, Inc.
Site Inventory Number : 0310000000
Region : Northern

Q.C. Report No. : 3132-00021
Facility Name : Parkview Mobile Home Park
County: Cook

DATA REPORTING QUALIFIERS FOR ORGANICS ANALYSIS

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CONTENTS SUMMARY (use additional page if necessary)

IEPA I.D. No.	Lab I.D. No.	Analysis Type	Analysis Date
MB#2	24409	VOA	9-9-87
X106	24410	VOA	9-9-87
X107	24411	VOA	9-9-87
X105 MS	24412	VOA	9-9-87
X105 MSD	24413	VOA	9-9-87

Narrative summary of any QC, sample, or analytical problems encountered with the samples being reported. Attach additional sheets if necessary.

Illinois Environmental Protection Agency
Contract Laboratory Services
Organic Analysis Data Package

Date: November 5, 1987

COVER PAGE

Lab Name: Envirodyne Engineers, Inc.
Site Inventory Number : 0310000000
Region : Northern

Q.C. Report No. : 3132-00021
Facility Name : Parkveiw Mobile Home Park
County: Cook

DATA REPORTING QUALIFIERS FOR ORGANICS ANALYSIS

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B - This flag is used when the analyte being reported was also found in the blank.

CONTENTS SUMMARY (use additional page if necessary)

IEPA I.D. No.	Lab I.D. No.	Analysis Type	Analysis Date
X106	A8526	BNA	10-22-87
X106 MS	A8527	BNA	10-22-87
X106 MSD	A8528	BNA	10-22-87
X104	A8530	BNA	10-22-87
MB#1	A8531	BNA	10-22-87
X105	A8532	BNA	10-22-87
X107	A8533	BNA	10-22-87
MB#2	A8534	BNA	10-22-87

Narrative summary of any QC, sample, or analytical problems encountered with the samples being reported. Attach additional sheets if necessary.

Illinois Environmental Protection Agency
Contract Laboratory Services
Organic Analysis Data Package

Date: November 5, 1987

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Lab Name: Envirodyne Engineers, Inc.
Site Inventory Number : 0310000000
Region : Northern

Q.C. Report No. : 3132-00021
Facility Name : Parkveiw Mobile Home Park
County: Cook

DATA REPORTING QUALIFIERS FOR ORGANICS ANALYSIS

For reporting results, the following results qualifiers are used: (Additional flags or footnotes are encouraged. However, the definition of such flags must be explicite.)

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J - Indicates estimated value. This flag is used when estimating the concentration of tentatively identified compounds.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte being reported was also found in the blank.

CONTENTS SUMMARY (use additional page if necessary)

IEPA I.D. No.	Lab I.D. No.	Analysis Type	Analysis Date
X107 MS	A8542	BNA	10-24-87
X107 MSD	A8543	BNA	10-24-87

Narrative summary of any QC, sample, or analytical problems encountered with the samples being reported. Attach additional sheets if necessary.

Illinois Environmental Protection Agency
Contract Laboratory Services
Organic Analysis Data Package

Date: November 5, 1987

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Lab Name: Envirodyne Engineers, Inc.
Site Inventory Number : 0310000000
Region : Northern

Q.C. Report No. : 3132-00021
Facility Name : Parkveiw Mobile Home Park
County: Cook

DATA REPORTING QUALIFIERS FOR ORGANICS ANALYSIS

For reporting results, the following results qualifiers are used:
(Additional flags or footnotes are encouraged. However, the definition of such flags must be explicite.)

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 with the detection limit value (i.e. 10U).

J - Indicates estimated value. This flag is used when estimating the concentration of tentatively identified compounds.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte being reported was also found in the blank.

CONTENTS SUMMARY (use additional page if necessary)

IEPA I.D. No.	Lab I.D. No.	Analysis Type	Analysis Date
MB#3	A8562	BNA	11-1-87

Narrative summary of any QC, sample, or analytical problems encountered with the samples being reported. Attach additional sheets if necessary.

Illinois Environmental Protection Agency
Contract Laboratory Services
Organic Analysis Data Package

Date: November 5, 1987

COVER PAGE

Lab Name: Envirodyne Engineers, Inc.
Site Inventory Number : 0310000000
Region : Northern

Q.C. Report No. : 3132-00021
Facility Name : Parkview Mobile Home Park
County: Cook

DATA REPORTING QUALIFIERS FOR ORGANICS ANALYSIS

For reporting results, the following results qualifiers are used: (Additional flags or footnotes are encouraged. However, the definition of such flags must be explicite.)

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 with the detection limit value (i.e. 10U).

J - Indicates estimated value. This flag is used when estimating the concentration of tentatively identified compounds.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte being reported was also found in the blank.

CONTENTS SUMMARY (use additional page if necessary)

IEPA I.D. No.	Lab I.D. No.	Analysis Type	Analysis Date
MB#2		Pest/PCB	9-18-87
X106	87004568	Pest/PCB	9-18-87
X106 MS	87004568	Pest/PCB	9-18-87
X106 MSD	87004568	Pest/PCB	9-18-87

X104

Narrative summary of any QC, sample, or analytical problems encountered with the samples being reported. Attach additional sheets if necessary.

Illinois Environmental Protection Agency
Contract Laboratory Services
Organic Analysis Data Package

Date: November 5, 1987

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Lab Name: Envirodyne Engineers, Inc.
Site Inventory Number : 0310000000
Region : Northern

Q.C. Report No. : 3132-00021
Facility Name : Parkveiw Mobile Home Park
County: Cook

DATA REPORTING QUALIFIERS FOR ORGANICS ANALYSIS

For reporting results, the following results qualifiers are used:
(Additional flags or footnotes are encouraged. However, the definition of such flags must be explicite.)

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 with the detection limit value (i.e. 10U).

J - Indicates estimated value. This flag is used when estimating the concentration of tentatively identified compounds.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte being reported was also found in the blank.

CONTENTS SUMMARY (use additional page if necessary)

IEPA I.D. No.	Lab I.D. No.	Analysis Type	Analysis Date
MR#1		Pest/PCB	9-30-87
X105	87004563	Pest/PCB	9-30-87

X104

Narrative summary of any QC, sample, or analytical problems encountered with the samples being reported. Attach additional sheets if necessary.

Illinois Environmental Protection Agency
Contract Laboratory Services
Organic Analysis Data Package

Date: November 5, 1987

COVER PAGE

Lab Name: Envirodyne Engineers, Inc.
Site Inventory Number : 0310000000
Region : Northern

Q.C. Report No. : 3132-00021
Facility Name : Parkview Mobile Home Park
County: Cook

DATA REPORTING QUALIFIERS FOR ORGANICS ANALYSIS

For reporting results, the following results qualifiers are used: (Additional flags or footnotes are encouraged. However, the definition of such flags must be explicite.)

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 with the detection limit value (i.e. 10U).

J - Indicates estimated value. This flag is used when estimating the concentration of tentatively identified compounds.

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte being reported was also found in the blank.

CONTENTS SUMMARY (use additional page if necessary)

IEPA I.D. No.	Lab I.D. No.	Analysis Type	Analysis Date
X107	87004571	Pest/PCB	10-1-87
X107 MS	87004571	Pest/PCB	10-1-87
X107 MSD	87004571	Pest/PCB	10-1-87
X104	87004568	Pest/PCB	10-1-87

X104

Narrative summary of any QC, sample, or analytical problems encountered with the samples being reported. Attach additional sheets if necessary.

FORM 2B
SOIL VOLATILE SURROGATE RECOVERY

LAB NAME: Envirodyne Engineers, Inc. CASE No.: 3132-00021

	EPA SAMPLE No.	S1 (TOL)	#	S2 (BFB)	#	S3 (DCE)	#	OTHER	TOT OUT
1	MB#1	93		92		93			0
2	X104	100		90		97			0
3	X105	100		83		97			0
4	MB#2	90		91		91			0
5	X106	111		92		94			0
6	X107	104		76		112			0
7	X105 MS	100		76		87			0
8	X105 MSD	102		83		91			0
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	QC LIMITS
S1 (TOL) = Toluene-d8	(81-117)
S2 (BFB) = Bromofluorobenzene	(74-121)
S3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

* Values outside of contract required QC limits

D Surrogate diluted out

FORM 2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

LAB NAME: Envirodyne Engineers, Inc. CASE No.: 3132-00021

	EPA SAMPLE No.	S1 (NBZ)	S2 (FBP)	S3 (TPH)	S4 (PHL)	S5 (2FP)	S6 (TBP)	OTHER	TOT OUT
1	MB#1	65	66	73	71	61	55		0
2	X104	0	0	0	0	0	0		0
3	MB#3	60	57	54	57	58	62		0
4	X105	72	73	64	72	55	42		0
5	X107	67	72	58	66	44	30		0
6	X107 MS	75	79	61	61	54	51		0
7	X107 MSD	65	70	60	56	50	50		0
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		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl-d14	(18-137)
S3 (PHL)	= Phenol-d6	(24-113)
S4 (2FP)	= 2-Fluorophenol	(25-121)
S5 (TBP)	= 2,4,6-Tribromophenol	(19-122)

* Values outside of contract required QC limits

D Surrogate diluted out

FORM 2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

LAB NAME: Envirodyne Engineers, Inc. CASE No.: 3132-00021

	EPA SAMPLE No.	S1 (NBZ)	S2 (FBP)	S3 (TPH)	S4 (PHL)	S5 (2FP)	S6 (TBP)	OTHER	TOT OUT
1	MS#2	87	80	83	96	88	111		0
2	X106	74	115	357 *	68	49	13 *		2
3	X106 MS	79	75	83	81	82	83		0
4	X106 MSD	82	82	92	88	81	86		0
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	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(23-120)
S2 (FBP) = 2-Fluorobiphenyl	(30-115)
S3 (TPH) = Terphenyl-d14	(18-137)
S3 (PHL) = Phenol-d6	(24-113)
S4 (2FP) = 2-Fluorophenol	(25-121)
S5 (TBP) = 2,4,6-Tribromophenol	(19-122)

* Values outside of contract required QC limits

D Surrogate diluted out

FORM 2F
SOIL PESTICIDE SURROGATE RECOVERY

LAB NAME: Envirodyne Engineers, Inc. CASE No.:3132-00021

	EPA SAMPLE No.	S1 (DBC)	#	OTHER
1	MB#1	105		
2	X104	117		
3	X105	128		
4	X107	140		
5	X107 MS	251	*	
6	X107 MSD	140		
7	MB#2	88		
8	X106	119		
9	X106 MS	85		
10	X106 MSD	52		
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ADVISORY QC LIMITS

S1 (DBC) = Dibutylchloendate (20-150)

* Values outside of contract required QC limits

D Surrogate diluted out

FORM 3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: Envirodyne Engineers, Inc.

CASE No.:3132-00021
SDG No.: X104

MATRIX SPIKE - EPA SAMPLE No.: X105

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	58	ND	58	100	159-172
Trichloroethene	58	ND	48	83	162-137
Benzene	58	ND	53	91	166-142
Toluene	58	ND	51	88	159-139
Chlorobenzene	58	ND	48	83	160-133

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC #	RPD #	QC LIMITS RPD	REC
1,1-Dichloroethene	58	65	112	11	22	159-172
Trichloroethene	58	51	88	4	24	162-137
Benzene	58	57	98	5	21	166-142
Toluene	58	58	100	9	21	159-139
Chlorobenzene	58	53	91	3	21	160-133

* Values outside of QC limits

RPD: 0 out of 5 outside of limits
Spike Recovery: 0 out of 10 outside of limits

COMMENTS:

FORM 3D

SOIL SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: Envirodyne Engineers, Inc. CASE No.:3132-00021

SDG No.: X104

MATRIX SPIKE - EPA SAMPLE No.: X106

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS % REC #	QC LIMITS REC
Phenol	239000	ND	183023	77	126-90
2-Chlorophenol	239000		180965	76	125-102
1,4-Dichlorobenzene	119000		82873	70	128-104
N-Nitroso-di-n-prop. (1)	119000		95471	80	141-126
1,2,4-Trichlorobenzene	119000		39430	33*	138-107
4-Chloro-3-methylphenol	239000		176157	74	126-103
Acenaphthene	119000	1309	82362	68	131-137
4-Nitrophenol	239000	ND	200790	84	111-114
2,4-Dinitrotoluene	119000		91657	77	128-.89
Pentachlorophenol	239000		176213	74	117-109
Pyrene	119000	51266	99902	41	135-142

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC #	RPD #	QC LIMITS RPD	REC
Phenol	239000	196522	82	6	35	126-90
2-Chlorophenol	239000	193134	81	6	50	125-102
1,4-Dichlorobenzene	119000	87405	73	4	27	128-104
N-Nitroso-di-n-prop. (1)	119000	106419	89	11	38	141-126
1,2,4-Trichlorobenzene	119000	87238	73	75*	23	138-107
4-Chloro-3-methylphenol	239000	204779	86	15	33	126-103
Acenaphthene	119000	88123	31	74*	19	131-137
4-Nitrophenol	239000	199353	83	1	50	111-114
2,4-Dinitrotoluene	119000	97715	82	3	47	128- 89
Pentachlorophenol	239000	183916	77	17	47	117-109
Pyrene	119000	109570	49		36	135-142

(1) N-Nitroso-di-n-propylamine

* Values outside of QC limits

RPD: 2 out of 11 outside of limits

Spike Recovery: 1 out of 22 outside of limits

COMMENTS:

FORM 3D

SOIL SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: Envirodyne Engineers, Inc.

CASE No.:3132-00021
SDG No.: X104

MATRIX SPIKE - EPA SAMPLE No.: X106

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS % REC	#	QC LIMITS REC
Phenol	239000	ND	183023	77		126-90
2-Chlorophenol	239000		180965	76		125-102
1,4-Dichlorobenzene	119000		82873	70		128-104
N-Nitroso-di-n-prop.(1)	119000		95471	80		141-126
1,2,4-Trichlorobenzene	119000		39430	33	*	138-107
4-Chloro-3-methylphenol	239000		176157	74		126-103
Acenaphthene	119000	1309	82362	68		131-137
4-Nitrophenol	239000	ND	200790	84		111-114
2,4-Dinitrotoluene	119000		91657	77		128-89
Pentachlorophenol	239000		176213	74		117-109
Pyrene	119000	51266	99902	41		135-142

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC	#	RPD	#	QC LIMITS RPD	REC
Phenol	239000	196522	82		6		35	126-90
2-Chlorophenol	239000	193134	81		6		50	125-102
1,4-Dichlorobenzene	119000	87405	73		4		27	128-104
N-Nitroso-di-n-prop.(1)	119000	106419	89		11		38	141-126
1,2,4-Trichlorobenzene	119000	87238	73		75	*	23	138-107
4-Chloro-3-methylphenol	239000	204779	86		15		33	126-103
Acenaphthene	119000	88123	21		74	*	19	131-137
4-Nitrophenol	239000	199353	83		1		50	111-114
2,4-Dinitrotoluene	119000	97715	82		3		47	128-89
Pentachlorophenol	239000	183916	77		17		47	117-109
Pyrene	119000	109570	49				36	135-142

(1) N-Nitroso-di-n-propylamine

* Values outside of QC limits

RPD: 2 out of 11 outside of limits

Spike Recovery: 1 out of 22 outside of limits

COMMENTS:

FORM 3F

SOIL PESTICIDES MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: Envirodyne Engineers, Inc.

CASE No.:3132-00021
SDG No.: X104

MATRIX SPIKE - EPA SAMPLE No.: X106

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS % REC	#	QC LIMITS REC
Lindane	2390	ND	208	9	*	146-127
Heptachlor	2390		208	9	*	135-130
Aldrin	2390		231	10	*	134-132
Dieldrin	5970		541	9	*	131-134
Endrin	5970		655	9	*	142-139
4,4'-DDT	5970		1190	11	*	123-134

COMPOUND	SPIKE ADDED (ug/kg)		MSD CONCENTRATION (ug/kg)	MSD % REC	#	RPD	#	QC LIMITS RPD	QC LIMITS REC
Lindane	2390		1430	63		75	*	50	146-127
Heptachlor	2390	*	*	*		*		31	135-130
Aldrin	2390		786	33		110	*	43	134-132
Dieldrin	5970		580	10		6		38	131-134
Endrin	5970		699	12		9		45	142-139
4,4'-DDT	5970		1350	23		73	*	50	123-134

* Values outside of QC limits

RPD: 0 out of 6 outside of limits

Spike Recovery: 5 out of 12 outside of limits

COMMENTS:

FORM 3D

SOIL SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: Envirodyne Engineers, Inc.

CASE No.:3132-00021
SDG No.: X104

MATRIX SPIKE - EPA SAMPLE No.: X107

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS % REC	#	QC LIMITS REC
Phenol	15800	55	9132	57		126-90
2-Chlorophenol	15800		8316	53		125-102
1,4-Dichlorobenzene	7900		4380	55		128-104
N-Nitroso-di-n-prop. (1)	7900		5338	68		141-126
1,2,4-Trichlorobenzene	7900		4978	63		138-107
4-Chloro-3-methylphenol	15800		8401	53		126-103
Acenaphthene	7900	117	5361	66		131-137
4-Nitrophenol	15800	--	23910	151	*	111-114
2,4-Dinitrotoluene	7900		6557	83		128- 89
Pentachlorophenol	15800		10237	65		117-109
Pyrene	7900	2091	12372	130		135-142

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC	#	RPD	#	QC LIMITS RPD	REC
Phenol	15800	8391	53		7		35	126-90
2-Chlorophenol	15800	7700	49		8		50	125-102
1,4-Dichlorobenzene	7900	4005	51		7		27	128-104
N-Nitroso-di-n-prop. (1)	7900	4842	61		11		38	141-126
1,2,4-Trichlorobenzene	7900	4516	57		10		23	138-107
4-Chloro-3-methylphenol	15800	8344	53		0		33	126-103
Acenaphthene	7900	4899	60		6		19	131-137
4-Nitrophenol	15800	22730	144	*	5		50	111-114
2,4-Dinitrotoluene	7900	6697	85		2		47	128- 89
Pentachlorophenol	15800	10111	64		1		47	117-109
Pyrene	7900	7531	69		61	*	36	135-142

(1) N-Nitroso-di-n-proplamine

* Values outside of QC limits

RPD: 1 out of 11 outside of limits

Spike Recovery: 2 out of 22 outside of limits

COMMENTS:

FORM 3F

SOIL PESTICIDES MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: Envirodyne Engineers, Inc.

CASE No.:3132-00021
SDG No.: X104

MATRIX SPIKE - EPA SAMPLE No.: X107

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS % REC	QC LIMITS REC
Lindane	63	ND	43	68	146-127
Heptachlor	63		*		135-130
Aldrin	63		*		134-132
Dieldrin	158		188	119	131-134
Endrin	158		134	85	142-139
4,4'-DDT	158	62	203	89	123-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC	RPD	QC LIMITS RPD	QC LIMITS REC
Lindane	63	22	35	63*	50	146-127
Heptachlor	63	15	24	*	31	135-130
Aldrin	63	39	62	*	43	134-132
Dieldrin	158	93	59	67*	38	131-134
Endrin	158	77	49	54*	45	142-139
4,4'-DDT	158	119	36	87*	50	123-134

* Values outside of QC limits

RPD: 0 out of 6 outside of limits

Spike Recovery: 5 out of 12 outside of limits

COMMENTS:

FORM 4A
VOLATILE METHOD BLANK SUMMARY

LAB NAME: Envirodyne Engineers, Inc.. CASE No.:3132-00021

LAB FILE ID: 24397 METH. BLK ID#: 1
DATE ANALYZED: 09-08-87 TIME ANALYZED: 1220
MATRIX: Soil LEVEL : L
INSTRUMENT ID: 5985

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD.

	EPA SAMPLE NO.	LAB SAMPLE NO.	LAB FILE ID	TIME ANALYZED
1	X104	87004568	24405	2105
2	X105	87004569	24406	2205
3				
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COMMENTS:

FORM 4B
SEMIVOLATILE METHOD BLANK SUMMARY

LAB NAME: Envirodyne Engineers, Inc.. CASE No.:3132-00021

LAB FILE ID: A8531 METH. BLK ID#: 1
DATE EXTRACTED: 9-9-87 EXTRACTION: Sonc.
DATE ANALYZED: 10-22-87 TIME ANALYZED:
MATRIX: Soil LEVEL : L
INSTRUMENT ID: 5996

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD.

	EPA SAMPLE NO.	LAB SAMPLE NO.	LAB FILE ID	DATE ANALYZED
1	X105	87004569	A8532	10-23-87
2	X107	87004571	A8533	10-23-87
3	X107 MS	87004571	A8542	10-24-87
4	X107 MSD	87004571	A8543	10-24-87
5				
6				
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COMMENTS:

FORM 4B

SEMIVOLATILE METHOD BLANK SUMMARY

LAB NAME: Envirodyne Engineers, Inc.. CASE No.:3132-00021

LAB FILE ID: A8534 METH. BLK ID#: 2
DATE EXTRACTED: 9-10-87 EXTRACTION: Sonc.
DATE ANALYZED: 10-23-87 TIME ANALYZED:
MATRIX: Soil LEVEL : M
INSTRUMENT ID: 5396

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD.

	EPA SAMPLE NO.	LAB SAMPLE NO.	LAB FILE ID	DATE ANALYZED
1	X106	87004570	A8526	10-22-87
2	X106 MS	87004570	A8527	10-22-87
3	X106 MSD	87004570	A8528	10-22-87
4				
5				
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COMMENTS:

FORM 4C
PESTICIDE METHOD BLANK SUMMARY

LAB NAME: Envirodyne Engineers, Inc.. CASE No.: 3131-00021

METH. BLK ID#: 1 LEVEL : L
MATRIX: Soil EXTRACTION: Sonc.
DATE EXTRACTED: 9-9-87 DATE ANAL'D(2):
DATE ANALYZED (1): 9-30-87 TIME ANAL'D(2):
TIME ANALYZED (1): INSTR. ID (2):
INSTRUMENT ID (1): GC COL.ID (2):
GC COLUMN ID (1):

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD.

	EPA SAMPLE NO.	LAB SAMPLE NO.	DATE ANALYZED 1	DATE ANALYZED 2
1	X104	87004568	9-30-87	
2	X105	87004569	9-30-87	
3	X107	87004571	9-30-87	
4	X107 MS	87004571	9-30-87	
5	X107 MSD	87004571	9-30-87	
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COMMENTS:

FORM 4A
VOLATILE METHOD BLANK SUMMARY

LAB NAME: Envirodyne Engineers, Inc.. CASE No.:3132-00021

LAB FILE ID: 24409 METH. BLK ID#: 2
DATE ANALYZED: 09-09-87 TIME ANALYZED: 0710
MATRIX: Soil LEVEL : L
INSTRUMENT ID: 5985

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD.

	EPA SAMPLE NO.	LAB SAMPLE NO.	LAB FILE ID	TIME ANALYZED
1	X106	87004570	24410	0830
2	X107	87004571	24411	0945
3	X105 MS	87004569	24412	1100
4	X105 MSD	87004569	24413	1200
5				
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COMMENTS:

FORM 4C

PESTICIDE METHOD BLANK SUMMARY

LAB NAME: Envirodyne Engineers, Inc.. CASE No.: 3132-00021

METH. BLK ID#: 2 LEVEL : M

MATRIX: Soil EXTRACTION: Sonc.

DATE EXTRACTED: 9-10-87 DATE ANAL'D(2):

DATE ANALYZED (1): 9-18-87 TIME ANAL'D(2):

TIME ANALYZED (1): INSTR. ID (2):

INSTRUMENT ID (1): GC COL.ID (2):

GC COLUMN ID (1):

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD.

	EPA SAMPLE NO.	LAB SAMPLE NO.	DATE ANALYZED 1	DATE ANALYZED 2
1	X106	87004570	9-18-87	
2	X106 MS	87004570	9-18-87	
3	X106 MSD	87004570	9-18-87	
4				
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COMMENTS:

FORM 4B
SEMIVOLATILE METHOD BLANK SUMMARY

LAB NAME: Envirodyne Engineers, Inc.. CASE No.:3132-00021

LAB FILE ID: A8562 METH. BLK ID#: 3
DATE EXTRACTED: 9-21-87 EXTRACTION: Sonc.
DATE ANALYZED: 11-1-87 TIME ANALYZED:
MATRIX: Soil LEVEL : L
INSTRUMENT ID: 5996

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD.

	EPA SAMPLE NO.	LAB SAMPLE NO.	LAB FILE ID	DATE ANALYZED
1	X104	87004568	A8530	10-22-87
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COMMENTS:

INORGANIC

DATA REVIEW SUMMARY/CORRECTIVE ACTION REPORT

Section 1. To be completed by Analyst

Test Name: FAA-K
Parameter: K
Matrix: SP1
Sample(s) Affected: 87-4568 → 4571
Project(s): 3132-00021

Description of Out-of-Control Situation:

1) Matrix Spike ___ <75% Rec ✓ <125% Rec
2) Duplicate RPD >20% ✓
3) LCS % Recovery ___ <80% ___ >120%
4) Blank ≥ CRDL ___
5) Other (Describe): ___

Analyst Name: [signature] Date: 10-22-87

Section 2. To be completed by Laboratory Supervisor

A) Has problem occurred before: Yes ✓ No ___

B) Probable source of problem is:
___ Instrumentation
___ Contamination
___ Sample nonhomogenity
___ Matrix Effect
✓ Other

C) What has been/is being done to assure that the problem will not recur? (Explain in detail)

Re-digest & reanalyze.

Supervisor Name: Amy [signature] Date: 10-26-87

Section 3. To be completed by Project Manager

A) Problem is being handled to my satisfaction. Yes X No ___
B) I will accept the above data. Yes ___ No X
C) What are the stipulations, if any, on reanalysis of samples?

D) This situation needs to be reported to the QA Manager. Yes ___ No X

Project Manager Name: [signature] Date: 11-2-87

QA Manager Name: ___ Date: ___

ENVIRODYNE ENGINEERS
ST. LOUIS, MO

CLP ICP/Flame AA Metals Sample Analysis Record

PAGE 1 OF 1

ELEMENT Ba

1st RUN / RE-RUN

PROJECT NO. 3132-00021 CLIENT IEPA-PSI

PREP
DATE 10/19/87
ANALYST D. Geimeroth
DIGESTION SPI

MATRIX
X SOIL __ WATER

UNITS
__ µg/L X mg/kg

Relinquished By	Date	Time	Received By

ANALYSIS
DATE
ANALYST

NOTEBOOK 87-44 Page(s) 100

CASE NO.	LAB NO.	SITE NO.	DATE SMPL'D	SAMPLE WT/VOL	MATRIX SPIKE LEVEL	FINAL VOL.	BENCH SPIKE LEVEL	DILN	MSA	RESP.	CONC.	% SOLIDS	CORRD CONC.	% REC	CRITERIA	IN CONTROL YES	IN CONTROL NO
	ICVS	1510								14.36					90-110		
	CAL BLK									-0.01					IDL		
	CRDLSTD																
	ICS A																
	ICS AB														80-120		
	PREP BLANK		10/19/87							-0.01							
	LCS II	10 mg/L	↓							9.55					80-120		
	87-4568	X104	9/1/87	1.48						10.51		86.6					
	4568	Spike		1.43	325 ug/L					8.91		86.6					
	4569	X105		1.30						11.47		79.8					
	4569	DUP		1.27						7.52		79.8					
	4570	X106		1.36						8.71		83.0					
	4571	X107	↓	1.45						8.84		84.7					
	ICS A																
	ICS B																
	CRDL Std																
	CCVS	1510 ppm								14.52							
	CAL BLK									0.00							

INORGANIC
DATA REVIEW SUMMARY/CORRECTIVE ACTION REPORT

Section 1. To be completed by Analyst

Test Name: METALS
Parameter: SB
Matrix: SOIL
Sample(s) Affected: 87-4268, 4269, 4270, 4271
Project(s): 3132

Description of Out-of-Control Situation:

1) Matrix Spike X <75% Rec ___ <125% Rec
2) Duplicate RPD >20% ___
3) LCS % Recovery ___ <80% ___ >120%
4) Blank ≥ CRDL ___
5) Other (Describe): ___

Analyst Name: M. Schenborn Date: 10-8-87

Section 2. To be completed by Laboratory Supervisor

A) Has problem occurred before: Yes ✓ No ___

B) Probable source of problem is:
___ Instrumentation
___ Contamination
___ Sample nonhomogenity
✓ Matrix Effect
___ Other

C) What has been/is being done to assure that the problem will not recur? (Explain in detail) Redigest & Rerun

Supervisor Name: R. L. Phillips Date: 10-9-87

Section 3. To be completed by Project Manager

A) Problem is being handled to my satisfaction. Yes ___ No ___
B) I will accept the above data. Yes ___ No ___
C) What are the stipulations, if any, on reanalysis of samples?

D) This situation needs to be reported to the QA Manager. Yes ___ No ___

Project Manager Name: ___ Date: ___

QA Manager Name: ___ Date: ___

CLP ICP/FLAME AA METALS

SAMPLE ANALYSIS RECORD

SHEET 1 of 1
SET NO. _____
ELEMENT Sb
1st Run / Rerun

PROJECT NO. 3132-00021 CLIENT: IEPA-PSI

PREP
Date: 9/29/87
Analyst: Carol Kemerowitz
Digestion: SP1

MATRIX
✓ SOIL ___ WATER
UNITS
___ ug/L ✓ mg/kg

CUSTODY RECORD

Relinquished By	Date	Time	Received By
L.A. Leahy	10/8	7:40	[illegible]

ANALYSIS
Date 10-8-87
Analyst MRG
Notebook: 87-41 Page(s): 28

CASE NO.	LAB NO.	SITE NO.	DATE SMPL'D	SMPL. WT*/VOL.	MATRIX SPIKE LEVEL	FINAL VOL.	BENCH SPIKE LEVEL	DILN.	MSA	RESP.	CONC.	% SOLIDS	CORR'D CONC.	% REC.	Criteria	In Control Yes	No
	ICVS							—		122.4	122.4 mg/L		122.4 mg/L	102	90-110	X	
	CAL BLK							—		0.6	<28 mg/L			—			
	CRDL std							—		—	—			—			
	ICS							—		—	—			—			
	Prep BLK	method	9/29/87			200		—		1.1	<28 mg/L			—			
	LCS II	80 ~~PPM~~ PPB	↓			200		—		75.1	75.1		<5.28	94	80-120	X	
	4568	X104	9/01/87	1.22	20 mg/g	200	+120	—		5.4/1108	<~~23~~ 5.6	87	~~<6.44~~	92			
	4568	Spike	↓	~~1.22~~ 1.49	~~80 SPB~~	↓		—		28.2	5.64		~~6.48~~ 4.34	28			
	4569	X105		1.32													
	4569	DUP		1.07													
	4570	X106		1.19													
	4571	X107		1.21													

Mike Schoenborn

*Wet weight

DATA REVIEW SUMMARY/CORRECTIVE ACTION REPORT

Section 1. To be completed by Analyst

Section: GC ____ Test Name: Metals

GC/MS ____ Parameter: Na, Mg, Ca, ~~Zn~~, K

Inorganic ✓ Matrix: ____

Sample(s) Affected: 87004568 - 4571

Project(s): 3132-21

Description of Out-of-Control Situation: Mg, Ca, ~~Zn~~ : RSD > 20%
Mg, Ca, Na : no spike added (but Mg, Ca > 4X anyway)
K : never digested

Probable Causative Agents:

Analyst Name: Julie M. Veddy Date: 10-16-87

Section 2. To be completed by Laboratory Supervisor

A) Has problem occurred before? Yes ✓ No ____

B) Probable source of problem is:
1. Instrumentation ____
2. Contamination ____
3. Sample inhomogenity ✓
4. Other ____

C) What has been/is being done to assure that the problem will not recur? (Explain in detail.) Redigest & Rerun

Supervisor Name: L. D. Phillips Date: 10-16-87

Section 3. To be completed by Project Manager

A) Problem is being handled to my satisfaction. Yes ✓ No ____

B) I will accept the above data. Yes ____ No ✓

C) What are the stipulations, if any, on re-analysis of samples?

D) This situation needs to be reported to the QA Manager. Yes ____ No ____

Project Manager Name: John J. Cunningham Date: 10-19-87

QA Manager Name: ____ Date: ____

ENVIRODYNE ENGINEERS
ST. LOUIS, MO

CLP ICP/Flame AA Metals Sample Analysis Record

ELEMENT Na

PROJECT NO. 3132-00021 CLIENT IEPA-PSI

(1st RUN) / RE-RUN

PREP
DATE 9.29.87
ANALYST D. Germeroth
DIGESTION SP1

MATRIX
✓ SOIL ___ WATER

UNITS
___ µg/L ✓ mg/kg

Relinquished By	Date	Time	Received By

ANALYSIS
DATE 10.14.87
ANALYST Wm. Vedder

NOTEBOOK 87-41 Page(s) 22

CASE NO.	LAB NO.	SITE NO.	DATE SMPL'D	SAMPLE (WT) VOL	MATRIX SPIKE LEVEL	FINAL VOL.	BENCH SPIKE LEVEL	DILN	MSA	RESP.	CONC. mg/l	% SOLIDS	CORRD CONC. mg/kg	% REC	CRITERIA	IN CONTROL YES	IN CONTROL NO
	ICVS	8.0 mg/l								8.04	8.04			101	90-110	✓	
	CAL BLK	0 mg/l								-0.01	<0.25				<IDL	✓	
	CRDL STD	mg/l															
	ICS A	mg/l								0.58	0.58						
	ICS AB	mg/l								0.52	0.52				80-120		
	PREP BLANK		9.29.87			200				0.06	<0.25				<IDL	✓	
	LCS II	10.0 mg/l	↓			↓				9.68	9.68			96.8	80-120	✓	
	87-4563	X104	9.1.87	1.22g						3.36		86.6	636				
	87-4563	Spike	↓	1.49	none	↓				3.73		86.6	586		75-125		✓
	87-4564	X105		1.32						1.83		79.8	347				
	87-4569	Dup		1.07						1.50		79.8	351				
	87-4570	X106		1.19						2.76		83.0	554				
	87-4571	X107	↓	1.21		↓				2.32		84.7	453				
	ICS A	mg/l								0.58	0.58						
	ICS AB	mg/l								0.54	0.54				80-120		
	CRDL STD	mg/l															
	CCV's	8.0 mg/l								8.26	8.26				90-110		
	Cal blank									0.06	<0.25				<IDL		

ENVIRODYNE ENGINEERS
ST. LOUIS, MO

CLP ICP/Flame AA Metals Sample Analysis Record

PAGE 1 OF 1

ELEMENT Mg

PROJECT NO. 3132-00021 CLIENT IEPA - PST

1st RUN / RE-RUN

PREP

DATE 4 29 87

ANALYST D. Germeroth

DIGESTION SP1

MATRIX

✓ SOIL ___ WATER

UNITS

___ µg/L ✓ mg/kg

Relinquished By	Date	Time	Received By

ANALYSIS

DATE

ANALYST J.M. Vedder

NOTEBOOK 37-41 Page(s) 20

CASE NO.	LAB NO.	SITE NO.	DATE SMPL'D	SAMPLE WT/VOL	MATRIX SPIKE LEVEL	FINAL VOL.	BENCH SPIKE LEVEL	DILN	MSA	RESP.	CONC. mg/l	% SOLIDS	CORRD CONC. mg/kg	% REC	CRITERIA	IN CONTROL YES	NO
	ICVS	8.0 mg/l								7.87	7.87			98.4	90-110	✓	
	CAL BLK	0 mg/l								-0.03	<0.25				<IDL	✓	
	CRDLSTD	mg/l															
	ICS A	498 mg/l						1:10		48.54	485						
	ICS AB	509 mg/l						1:10		45.91	459			88.4	80-120	✓	
	PREP BLANK		9 29 87			200				0.00	<0.25				<IDL	✓	
	LCS II	10.0 mg/l	↓			↓				9.37	9.37			93.7	80-120		
	87-4563	X104	9.1.87	1.22g				1:10		28.93		86.6	54800				
	87-4563	Spike	↓	1.49	none	↓		1:10		30.30		86.6	47000		>4X 75-125		
	87-4564	X105	↓	1.32		↓				51.64		79.8	9800				
	87-4569	Dup	↓	1.07		↓				32.52		79.8	7620	25.0 RSD	<20 RSD		✓
	87-4570	X106	↓	1.19		↓		1:10		11.83		83.0	24000				
	87-4571	X107	↓	1.21		↓		1:10		13.07		84.7	25500				
	ICS A	498 mg/l						1:10		48.06	481						
	ICS AB	509 mg/l						1:10		47.23	472			92.7	80 120	✓	
	CRDL STD	mg/l															
	CCV's	8.0 mg/l								8.08	8.08			101	90-110	✓	
	Cal blank									0.00	<0.25				<IDL	✓	

ENVIRODYNE ENGINEERS
ST. LOUIS, MO

CLP ICP/Flame AA Metals Sample Analysis Record

PAGE 1 OF 1

ELEMENT Ca

PROJECT NO. 3132-00021 CLIENT IEPA - PSI

(1st RUN) / RE-RUN

PREP
DATE 9 29 87
ANALYST D. Germeroth
DIGESTION SP1

MATRIX
✓ SOIL ___ WATER

UNITS
___ µg/L ✓ mg/kg

Relinquished By	Date	Time	Received By

ANALYSIS
DATE
ANALYST V.M. Vedder
NOTEBOOK 87-41 Page(s) 14

CASE NO.	LAB NO.	SITE NO.	DATE SMPL'D	SAMPLE (WT) VOL	MATRIX SPIKE LEVEL	FINAL VOL.	BENCH SPIKE LEVEL	DILN	MSA	RESP.	CONC. mg/l	% SOLIDS	CORRD CONC. mg/kg	% REC	CRITERIA	IN CONTROL YES	IN CONTROL NO
	ICVS	8.0 mg/l								7.67	7.67			95.9	90-110	✓	
	CAL BLK	0 mg/l								-0.01	<0.25				<IDL	✓	
	CRDLSTD	mg/l															
	ICS A	506 mg/l						1:10		48.75	488						
	ICS AB	516 mg/l						1:10		47.43	474			91.9	80-120	✓	
	PREP BLANK		9 29 87			200				0.05	<0.25				<IDL	✓	
	LCS II	10.0 mg/l	↓			↓				9.81	9.81			98.1	80-120	✓	
	87-4563	X104	9.1.87	1.22g				1:10		51.61		86.6	47700				
	87-4563	Spike	↓	1.49	none	↓		1:10		54.27		86.6	84100		>4X 75-125		
	87-4564	X105		1.32						49.06		79.8	9310				
	87-4569	Dup		1.07						21.43		79.8	5020	59.9 RPD	<20 RPD		✓
	87-4570	X106		1.19				1:10		24.54		83.0	49700				
	87-4571	X107	↓	1.21		↓		1:10		24.09		84.7	47000				
	ICS A	506 mg/l						1:10		49.99	500						
	ICS AB	516 mg/l						1:10		49.41	494			95.7	80-120	✓	
	CRDL STD	mg/l															
	CCVS	8.0 mg/l								7.81	7.81			97.6	90-110	✓	
	Cal blank									0.05	<0.25				<IDL	✓	

INORGANIC

DATA REVIEW SUMMARY/CORRECTIVE ACTION REPORT

Section 1. To be completed by Analyst

Test Name: Metals
Parameter: Sb
Matrix: Soil
Sample(s) Affected: 4568 → 71
Project(s): 3132

Description of Out-of-Control Situation:

1) Matrix Spike ___ <75% Rec ___ <125% Rec
2) Duplicate RPD >20% ___
3) LCS % Recovery O <80% ___ >120%
4) Blank > CRDL ___
5) Other (Describe): ___

Analyst Name: M. Schoenborn Date: 10-16-87

Section 2. To be completed by Laboratory Supervisor

A) Has problem occurred before: Yes ✓ No ___

B) Probable source of problem is:
___ Instrumentation
___ Contamination
___ Sample nonhomogenity
___ Matrix Effect
✓ Other

C) What has been/is being done to assure that the problem will not recur? (Explain in detail) Redigest & rerun

Supervisor Name: L. D. Phillips Date: 10-17-87

Section 3. To be completed by Project Manager

A) Problem is being handled to my satisfaction. Yes ✓ No ___
B) I will accept the above data. Yes ___ No ✓
C) What are the stipulations, if any, on reanalysis of samples?

D) This situation needs to be reported to the QA Manager. Yes ___ No ___

Project Manager Name: [signature] Date: 10-19-87

QA Manager Name: ___ Date: ___

ENVIRODYNE ENGINEERS
ST. LOUIS, MO

CLP ICP/FLAME AA METALS Sample Analysis Record

PROJECT NO. 3132-00021 CLIENT LEPA-PSI

PAGE 1 OF 1
ELEMENT [illegible]
1st RUN / RE-RUN

PREP
DATE 10/14/87
ANALYST [illegible]
DIGESTION SPI

MATRIX
X SOIL ___ WATER
UNITS
___ µg/L X mg/kg

Relinquished By	Date	Time	Received By
LA Seeley	10-15	AM	MRS

ANALYSIS
DATE 10-16-87
ANALYST MRS
NOTEBOOK 8743 Page(s) 95

CASE NO.	LAB NO.	SITE NO.	DATE SMPL'D	SAMPLE WT/VOL*	MATRIX SPIKE LEVEL	FINAL VOL.	BENCH SPIKE LEVEL	DILN	MSA	RESP.	CONC.	% SOLIDS	CORRD CONC.	% REC	CRITERIA	IN CONTROL YES	IN CONTROL NO
	ICVS									130.8	130.8	—	130.8	109	90-110		
	CalBlk									-1.4	<28	—	<28	—			
	CalStd									—	—	—	—	—			
	ICS									—	—	—	—	—			
	CalBlank	Method Blank	10/14/87			200				-4.2	<28	—	<28	—	80-120		
	LCS III	80 PPB	↓							-6.3	<28	—	<28	0			
	4568	X104	9/1/87	1.32											80-120		
	4568	SPIKE		1.24	20 µg/g												
	4569	X105		1.21													
	4569	DUP		1.21													
	4570	X106		1.47													
	4571	X107		1.40													

Out

Mike Schwartz

Wet Weight

INORGANIC

DATA REVIEW SUMMARY/CORRECTIVE ACTION REPORT

Section 1. To be completed by Analyst

Test Name: Metal

Parameter: As

Matrix: Soil

Sample(s) Affected: 4868, 69, 70, 71

Project(s): 3132 -00021

Description of Out-of-Control Situation:

1) Matrix Spike ___ <75% Rec ✓ <125% Rec
2) Duplicate RPD >20% ___
3) LCS % Recovery ___ <80% ___ >120%
4) Blank ≥ CRDL ___
5) Other (Describe): ___

Analyst Name: Mike Schoenborn Date: 5 Oct 87

Section 2. To be completed by Laboratory Supervisor

A) Has problem occurred before: Yes ✓ No ___

B) Probable source of problem is:
___ Instrumentation
___ Contamination
___ Sample nonhomogenity
✓ Matrix Effect
___ Other

C) What has been/is being done to assure that the problem will not recur? (Explain in detail) Redigest & Reanalyze

Supervisor Name: L D Phillips Date: 10-7-87

Section 3. To be completed by Project Manager

A) Problem is being handled to my satisfaction. Yes ___ No ___

B) I will accept the above data. Yes ___ No ___

C) What are the stipulations, if any, on reanalysis of samples?

D) This situation needs to be reported to the QA Manager. Yes ___ No ___

Project Manager Name: _____ Date: _____

QA Manager Name: _____ Date: _____

CLP FLAMELESS METALS
SAMPLE ANALYSIS RECORD

SHEET 1
SET NO.
ELEMENT Pb
1st Run/Rerun

PROJECT NO. 3132-000 CLIENT: IEPA-PSF

PREP
Date: 9-28-87
Analyst: M&M Weisinger
Digestion: SFLAI

MATRIX
X SOIL __ WATER
UNITS
__ ug/L __ mg/kg

CUSTODY RECORD

Relinquished By	Date	Time	Received By
[illegible]	10-1		MBS

ANALYSIS
Date 10-5-87
Analyst MB
Notebook: 87-4 / Page(s): 6

ASE NO.	LAB NO.	SITE NO.	DATE SMPL'D	SMPL. WT/VOL.	MATRIX SPIKE LEVEL	FINAL VOL.	BENCH SPIKE LEVEL	DILN.	MSA	RESP.	CONC.	% SOLIDS	CORR'D CONC.	% REC.	Criteria	In Control? Yes	No
	ICVS	35 mg/L						—		34.95	34.95		34.95 mg/L	100	90-110	X	
	CAL BLK							—		0.82	<3.1		<3.1 mg/L	—			
	CCVS							—		—	—	—	—	—	90-110	X	
	PREP BLK	method blank	9-28-87			200		—		-1.29	<3.1		<3.1 mg/L	—			
	LCS	40 µg/L	↓			↓		—		38.79	38.79		38.79 mg/L	97	80-120	X	
132	87-4568	X104	9-01-87	1.00 g		200	+20	5X		6.04 / 25.67	30.3	87	6.94	98			
	87-4568	dup	9-01-87	1.00 g				5X		3.74	18.75		4.73	88			
	-4569	X105	9-01-87	1.00 g				5X		9.60 / 37.35	49	90	12.25	88			
	4569	spike	9-01-87	1.00 g	8.0 µg/g			5X		24.80	124		31.00	187			
	4570	X106	9-01-87	1.00 g				5X		7.63 / 27.40	38.15	83	9.19				
	4571	X107	9-01-87	1.00 g				5X		7.04 / 25.74	35.2	85	8.28				
	CCVS	35 mg/L						—		35.65	35.65		35.65	102			
	BKcal							—		-1.23	<3.1		<3.1	—			
								—									
	CCVS	35 mg/L						—		37.77	37.77		37.77	108			
	BKcal							—		-1.33	<3.1		<3.1	~~43~~			

Mike Schroeder

INORGANIC
DATA REVIEW SUMMARY/CORRECTIVE ACTION REPORT

Section 1. To be completed by Analyst

Test Name: Metals
Parameter: Se
Matrix: Soil
Sample(s) Affected: 87-4569, 69, 70, 71
Project(s): 3122-00001

Description of Out-of-Control Situation:

1) Matrix Spike X <75% Rec ___ <125% Rec
2) Duplicate RPD >20% ___
3) LCS % Recovery ___ <80% ___ >120%
4) Blank ≥ CRDL ___
5) Other (Describe): ___

Analyst Name: Mike Schoenborn Date: 4 OCT 87

Section 2. To be completed by Laboratory Supervisor

A) Has problem occurred before: Yes ✓ No ___

B) Probable source of problem is:
- ___ Instrumentation
- ___ Contamination
- ___ Sample nonhomogenity
- ✓ Matrix Effect
- ___ Other

C) What has been/is being done to assure that the problem will not recur? (Explain in detail) Redigest & Reanalyze

Supervisor Name: R. D. Phillips Date: 10-7-87

Section 3. To be completed by Project Manager

A) Problem is being handled to my satisfaction. Yes ___ No ___
B) I will accept the above data. Yes ___ No ___
C) What are the stipulations, if any, on reanalysis of samples?

D) This situation needs to be reported to the QA Manager. Yes ___ No ___

Project Manager Name: ___ Date: ___

QA Manager Name: ___ Date: ___

CLP FLAMELESS METALS
SAMPLE ANALYSIS RECORD

SHEET ___ of ___
SET NO. ___
ELEMENT Se
1st Run/Rerun

PROJECT NO. 3132-000 CLIENT: IEPA-PSF

PREP
Date: 9-28-87
Analyst: M/S Weisinger
Digestion: SFLAL

MATRIX
X SOIL ___ WATER

UNITS
___ ug/L X mg/kg

CUSTODY RECORD

Relinquished By	Date	Time	Received By
[illegible]	10-1		[illegible]

ANALYSIS
Date 10-1-87
Analyst MRS
Notebook: 87-4 Page(s): 8

CASE NO.	LAB NO.	SITE NO.	DATE SMPL'D	SMPL. WT/VOL.	MATRIX SPIKE LEVEL	FINAL VOL.	BENCH SPIKE LEVEL	DILN.	MSA	RESP.	CONC.	% SOLIDS	CORR'D CONC.	% REC.	Criteria	In Control? Yes	No
	ICVS	35 ug/l								36.76	36.76	—	36.76	105	90-110	Y	
	CAL BLK									0.44	<2.0	—	<2.0	—			
	CCVS									—	—	—	—	—	90-110	Y	
	PREP BLK	method blank	9-28-87			200				1.55	<2.0	—	<2.0	—			
	LCS	40 ug/l	↓			↓				46.47	46.47	—	46.47	116	80-120	Y	
3132	87-4568	X104	9-01-87	1.00 g		200	+20			-5.99 5.32	<0.4	87	<0.46	27			
	87-4568	dup	9-01-87	1.00 g			+20			-3.98	<0.4		<0.46	—			
	-4569	X105	9-01-87	1.00 g			+20			-10.60 1.14	<0.4	80	<0.50	10			
	4569	spike	9-01-87	1.00 g	2.0 ug/g					-3.46	<0.4		<0.50				
	4570	X106	9-01-87	1.00 g								83					
	4571	X107	9-01-87	1.00 g		↓						85		47			
	4568	X104	9-01-87	1.00 g			+20	5X		9.19				4647			
	4569	X105	9-01-87	1.00 g			+20	5X		9.44				46			

Mike Schenkum

INORGANIC
DATA REVIEW SUMMARY/CORRECTIVE ACTION REPORT

Section 1. To be completed by Analyst

Test Name: Metals
Parameter: Pb
Matrix: Soil
Sample(s) Affected: 87-4568 - 4571
Project(s): 3132 - 21

Description of Out-of-Control Situation:

1) Matrix Spike X <75% Rec ___ <125% Rec
2) Duplicate RPD >20% ___
3) LCS % Recovery ___ <80% ___ >120%
4) Blank ≥ CRDL ___
5) Other (Describe): ___

Analyst Name: M. Schoenborn Date: 7 OCT 87

Section 2. To be completed by Laboratory Supervisor

A) Has problem occurred before: Yes ✓ No ___

B) Probable source of problem is:
___ Instrumentation
___ Contamination
___ Sample nonhomogenity
✓ Matrix Effect
___ Other

C) What has been/is being done to assure that the problem will not recur? (Explain in detail) Redigest & Reanalyze

Supervisor Name: L. D. Phillips Date: 10-9-87

Section 3. To be completed by Project Manager

A) Problem is being handled to my satisfaction. Yes ___ No ___
B) I will accept the above data. Yes ___ No ___
C) What are the stipulations, if any, on reanalysis of samples?

D) This situation needs to be reported to the QA Manager. Yes ___ No ___

Project Manager Name: ___ Date: ___

QA Manager Name: ___ Date: ___

CLP FLAMELESS METALS
SAMPLE ANALYSIS RECORD

SHEET 1 of 1
SET NO. ____
ELEMENT Pb
1st Run/Rerun

PROJECT NO. 3132-000 CLIENT: IEPA-PSF

PREP
Date: 9-28-87
Analyst: M.G. Weisinger
Digestion: SFLAI

MATRIX
X SOIL __ WATER

UNITS
__ ug/L __ mg/kg

CUSTODY RECORD

Relinquished By	Date	Time	Received By
[illegible]	10-1		MRS

ANALYSIS
Date 7 OCT 87
Analyst MRS
Notebook: 87-41 Page(s): 7

CASE NO.	LAB NO.	SITE NO.	DATE SMPL'D	SMPL. WT/VOL.	MATRIX SPIKE LEVEL	FINAL VOL.	BENCH SPIKE LEVEL	DILN.	MSA	RESP.	CONC.	% SOLIDS	CORR'D CONC.	% REC.	Criteria	In Control? Yes	No
	ICVS							—			38.13	—	38.13 µg/L	109	90-110	✓	
	CAL BLK							—			0.48	—	<2.1 µg/L	—			
	CCVS							—			—	—	—	—	90-110	✓	
	PREP BLK	method blank	9-28-87			200		—			1.16	—	<2.1 µg/L	—			
	LCS	40 µg/L	↓			↓		—			36.13	—	36.13	90	80-120	✓	
3132	87-4568	X104	9-01-87	1.00 g		200		5X			34.31 44.67	87	39.44	104			
	87-4568	dup	9-01-87	1.00 g				5X			34.36		39.44	—			
	-4569	X105	9-01-87	1.00 g				5X			31.48 40.35	80	39.35	89			
	4569	spike	9-01-87	1.00 g	10.0 µg/g			5X			31.82		39.79	0			
	4570	X106	9-01-87	1.00 g													
	4571	X107	9-01-87	1.00 g													

Mike Weisinger