SDMS US EPA REGION V -1

SOME IMAGES WITHIN THIS DOCUMENT MAY BE ILLEGIBLE DUE TO BAD SOURCE DOCUMENTS.

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1. INTRODUCTION

On January 24, 1991, the Illinois Environmental Protection Agency's (IEPA) Pre-Remedial Unit was tasked by the United States Environmental Protection Agency (USEPA) to conduct a Screening Site Inspection (SSI) of Sauget Sites Area #2.

Environmental and human health concerns arise from many problem sites and potential areas of contamination in Sauget and northern Cahokia. Over time, USEPA has added these sites to the Comprehensive Environmental Response Compensation and Liability Act's Information System (CERCLIS), in response to requests for discovery by IEPA and other agencies. The sites have been evaluated in the past by Preliminary Assessments (PA's) conducted by IEPA and USEPA contractors. IEPA's Pre-Remedial Unit prepared a SSI work plan for Sauget Sites Area #2 that was submitted to USEPA Region V in June, 1991. The sampling portion of the SSI was conducted in June, 1991 when personnel from the Agency Pre-Remedial Unit collected twelve samples (one groundwater and eleven soil/sediment).

The purpose of an CERCLA SSI have been stated by USEPA in a directive outline of 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 date requirements for the listing SI step. A Screening Si will not have rigorous date quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will

> then either be designated 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. (USEPA 1988)

The Region V offices of the USEPA have also requested that the IEPA identify sites during the SSI that may require removal action to remediate an immediate human health and/or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained over the course of the formal CERCLA SSI investigation, as well as previous IEPA, USEPA and local industry sponsored investigations of the Sauget Sites Area #2.

2.2 SITE DESCRIPTIONS

Sauget Sites Area #2 (also referred to as Area #2 Sites or just Sites for the purposes of this report) include at least 5 sources of contamination near the Mississippi River in Sauget and northern Cahokia. The five aggregated Sites include three large landfills, a sludge lagoon system and a small oil reclamation facility. A 4-mile radius map can be viewed in Appendix A. The following index lists the common site name, followed by the name as entered on CERCLIS and the corresponding ILD number.

Site O	Sauget WWTP	ILD 000672329
Site Q	Sauget and Company Landfill	ILD 000605790
Site R	Sauget Toxic	ILD 980606982
Bliss Waste Oil	(same)	ILD 000665836
Route 3 Drum Site	Krummrich W.G. Plant	ILD 980498059

The names and information for each of the Sites is tabled on page 2-3. The map on the following page shows the Sites location with respect to the State of Illinois.

Figure 2-1

JO DAVIESS
STEPHENSON
WINNEBAGO
BOONE
MCHENRY
LAKE
CARROLL
OGLE
DEKALB
KANE
COOK
DU PAGE
WHITESIDE
LEE
KENDALL
WILL
LASALLE
HENRY
BUREAU
GRUNDY
ROCK ISLAND
MERCER
KANKAKEE
STARK
PUTNAM
KNOX
MARSHALL
LIVINGSTON
WARREN
HENDERSON
PEORIA
WOODFORD
IROQUOIS
McLEAN
FULTON
HANCOCK
McDONOUGH
FORD
VERMILION
TAZEWELL
CHAMPAIGN
SCHUYLER
LOGAN
DEWITT
ADAMS
MASON
MENARD
CASS
MACON
BROWN
MORGAN
SANGAMON
PIATT
DOUGLAS
EDGAR
PIKE
MOULTRIE
COLES
SCOTT
GREENE
MACOUPIN
CHRISTIAN
CLARK
CALHOUN
MONTGOMERY
SHELBY
CUMBERLAND
JERSEY
FAYETTE
JASPER
BOND
EFFINGHAM
MADISON
CRAWFORD
CLAY
RICHLAND
LAWRENCE
MARION
CLINTON
ST CLAIR
WAYNE
EDWARDS
WABASH
JEFFERSON
MONROE
WASHINGTON
RANDOLPH
PERRY
WHITE
HAMILTON
FRANKLIN
JACKSON
SALINE
GALLATIN
WILLIAMSON
UNION
JOHNSON
POPE
HARDIN
ALEXANDER
PULASKI
MASSAC
SITE LOCATION

Table 2-1

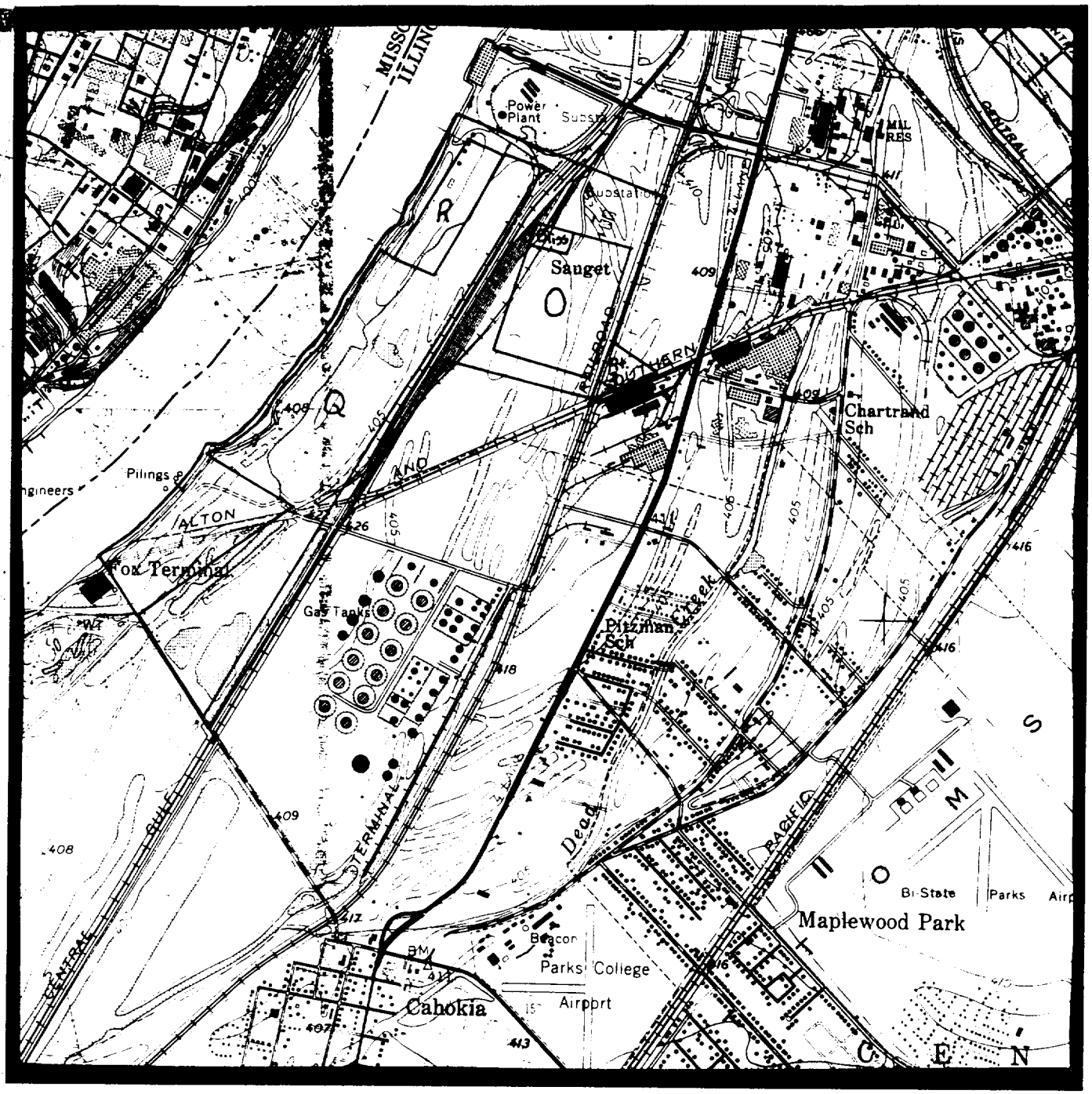
Aggregated Sources at Sauget Sites Area #2

Site Name	Source Type	Source Size	Years of Operation	Owner at that Time	Observed Contamination
O	4 Sludge Lagoons	approx. 20 ac.	1967-1978	Village of Sauget	Soil, GW
Q	Landfill	approx. 90 ac.	1962-1975	Cahokia Trust-Paul Sauget	Soil, GW, air, SW
R	Landfill	36 ac.	1957-1974	Monsanto Chemical Co.	Soil, GW, air, SW, Fish
Bliss Waste Oil	LUST/ Contaminated Soil	approx. 2 ac.	1979-1983	leased by Clayton Chemical Co.	Soil
Rt. 3 Drum Site	Landfill	approx. 0.3 ac.	mid to late 1940's	Monsanto Chemical Co.	Soil, GW

Abbreviations: ac.-acre(s), approx.-approximately, Co.-Company, GW-Growndwater, LUST-leaking underground storage tank, Rt.-Route, SW-Surface Water.

A brief description of each of the five Sites is contained within the preceding paragraphs. Each site is depicted with relation to one another, in the map on the following page.

Site O of the Area #2 Sites consists of four covered sludge dewatering lagoons associated with the old Sauget Waste Water Treatment Plant (WWTP). The site covers approximately 40 acres in an industrialized area of Sauget, namely, Mobile Avenue. The former sludge lagoons occupy about 20 acres south of the old treatment plant buildings. These buildings now serve as the Physical/Chemical (P-Chem), pretreatment operation for the recently built American Bottoms WWTP. The access road to the new WWTP, southwest of



Source: IEPA, 1991. Base Map: USGS, 1974 Cahokia, IL-MO

Approximate Scale: 1"=2000'

FIGURE 2-2

SITE LOCATION MAP

Site O, bisects the covered lagoons. The village of Sauget still retains ownership of the site.

Site Q of the Area #2 Sites is an inactive waste disposal facility, formerly operated by Sauget and Company (Paul Sauget) and Browning-Ferris Industries (BFI). The site covers approximately 90 acres between the east bank of the Mississippi River and the Army Corps of Engineers (COE) 500-year levee. The northern one-third (the panhandle section) of Site Q is situated directly east of Site R. Coal and cinders are present on in the northern half of the property were Peavey Incorporated leases the property to operate their coal and grain unloading and transfer facility. Wetlands abound in the unoccupied southern half of Site Q. The wetlands include two small ponds located in the east-central portion and two lakes at the southern end of site. Random dumping is evident in this area, where access is not controlled. Eagle Marine Industries, Incorporated is the current owner of most of the property. Cahokia Trust-Don C. Elsaesser, is owner of a small parcel within the southern part of the site.

Site R of the Area #2 Sites is an inactive industrial waste landfill, owned by the Monsanto Chemical Company and operated by Sauget and Company. An alias for Site R is the Sauget Toxic Dump which covers 36 acres immediately north and west of Site Q. The capped landfill is not protected from flooding as the COE 500-year levee is east of the site. A

strip of land separates the west border of Site R from the Mississippi River. The north portion of the western boundary is adjacent to a former Union Electric power plant. A small part of the Site R landfill was constructed from a 12-acre fly ash pond that was used by Union Electric. Solid, liquid and sludge type wastes from the Monsanto Krummrich Plant in Sauget, their Queeny and Carondelet Plants in St. Louis, Missouri and their Ag Chemical Plant in Muscatine, Iowa (manufactured DDT) were landfilled at the site from 1957 till 1978. On numerous occasions, IEPA and USEPA field personnel have observed leachate flows from Site R entering the river. The leachate seeps are less obvious now that Monsanto rip-raped the riverbank. Monsanto maintains a tight security around the fenced site including surveillance cameras.

Located between Site O and the panhandle of Site Q, are two RCRA regulated, hazardous waste treatment facilities: Clayton Chemical Company and Trade Waste Incineration. Trade Waste Incineration provides waste destruction services to generators while Clayton Chemical operates a solvent recovery facility.

In a northern portion of Clayton Chemical's property, is an area that was leased to Bliss Waste Oil Company (AKA A-1 Oil), another of the Sauget Area #2 Sites. Jerry Russell Bliss and his father, Russell Bliss operated a waste oil recovery facility which utilized four, 17,000 gallon, above ground tanks and one leaking underground storage tank (LUST). Russell Bliss explained that the LUST was used only to decant

oil/water mixes. Allegedly, the LUST and 4 other tanks were used to store waste oils containing 2,3,7,8-tetrachloro-dibenzo-p-dioxin (TCDD). The LUST and associated contaminated soil has since been excavated and disposed of off-site.

The Route 3 Drum site is also included as a Area #2 Site. The site is located west of Illinois Route 3, on a parcel of land which is referred to as Lot F by the owner, Monsanto Chemical Company. The landfill is due north of where the Alton and Southern Railroad tracks and the Terminal Railroad Association tracks cross each other. According to the consulting firm hired by Monsanto, the 250 feet by 50 feet landfill was used by Monsanto to dispose of approximately 5000 drums of nitrochlorobenzenes in the mid to late 1940's. During Monsanto's attempt at remediation of the site in 1985, it was discovered that most of the buried 55-gallon drums in the pit, had disintegrated, making incineration to costly. Monsanto then capped and fenced the site.

Areas lying between the five aggregated Sauget Area #2 Sites, may also be contaminated. For instance, a separate area of contamination at Site O was identified by IEPA in 1983. Sample analysis revealed high concentrations of TCDD and polychlorinated biphenyls (PCB's) in surface soils in an area northwest of the former sludge lagoons. Contaminated soil and gravel was removed from this area and is stored in an enclosed part of the P-Chem pretreatment facility.

Allegations from anonymous sources, claim that areas between the American Bottoms WWTP and Clayton Chemical Company are also contaminated.

2.3 SITE HISTORIES

Previous reports have documented the Site histories. The following paragraphs and tables summarize pertinent data associated with each of the Sites, including estimated waste quantities and past sample results. Table 2-2 shows how each of the Sites are interrelated with respect to owners, operators and users/disposers, which is one of the reasons these sites were aggregated.

Table 2-2

Site Ownership, Operators and Users/Disposers

Site O Landowners

- Village of Sauget
- Clayton Chemical Company (past owner of the site)

Site O Operators

- Sauget Sanitary Development & Research Association
- Goldfields American Corporation (successor firm to American Zinc Company who operated the Amex site)
- Blue Tee Corporation (successor firm to American Zinc
Company who operated the Amex site)

Site O Users/Disposers

- Clayton Chemical Company
- Amax Zinc Company
- Cerro Copper
- Midwest Rubber Reclaiming
- Mobil Oil Corporation
- Monsanto
- Wiese Planning and Engineering
- Sterling Steel Foundry, Inc.
- Rodgers Cartage

Site Q Landowners

- Eagle Marine Industries, Inc.
- Cahokia Trust (Donald C. Elsaesser, Robert H. McRoberts & Russell P. Richardson - Trustees)
- St. Louis Union Trust
- Fred H. Leyhe
- Monsanto
- Notre Dame Fleeting & Towing Service, Inc.
- Phillips Pipeline Company
- Patgood Inc.

River Port Fleeting, Inc.

- River Port Terminal and Fleeting Company

Site Q Operators

- Sauget and Company
- Paul Sauget (as president/owner of Sauget and Company)
- Browning-Ferris Industries (BFI)
- Eagle Marine Industries, Inc. (terminal operators)
- Peavey Inc. (subsidiary of Con Agra - successor to leaseholder at grain terminal
- Pillsbury, Inc. (terminal operator)
- Union Electric (operated flyash ponds on site)

Table 2-2 (continued)

Site Q Users/Disposers

- Village of Sauget
- City of St. Louis
- Local Industries

Site R Owners

- Monsanto

Site R Operators

- Sauget and Company
- Paul Sauget (as president of Sauget and Company)

Site R Users/Disposers

-Monsanto
  - Krummrich Plant in Sauget, IL
  - Queeny Plant in St. Louis, MO
  - Carondelet Plant in St. Louis, MO
  - Ag Chemical Plant in Muscatine, IA.

Route 3 Drum Site Owner/Operator/Disposer

- Monsanto

Bliss Waste Oil Site Owner

- Clayton Chemical Company
- Gulf Mobile and Ohio Railroad

Bliss Waste Oil Operators

-A-1 Oil Company
-Russell Bliss (of A-1 Oil Company)
-Jerry Russell Bliss (son of Russell Bliss)

Bliss Waste Oil Users

- numerous local businesses and industries in Missouri and Illinois

Waste Quantities for the lagoons at Site O have not been documented, although an estimate of the waste quantity by the once filled capacity of the lagoons would result in a volume of 64,533 cubic yards. This figure is based on 20 acres of lagoons with a thickness of 2 feet (as noted in site soil borings). A Notification of Hazardous Waste Site - CERCLA 103(c) form was submitted by the Village of Sauget on June 9, 1981 stating that an unknown amount of organics, inorganics, heavy metals, mixed municipal waste and unknown wastes from local industries were placed in the sludge lagoons.

Several Notification of Hazardous Waste Site - CERCLA 103(c) forms have been submitted for Site Q. One form was submitted by Paul Sauget for Sauget and Company on June 9, 1981 which lists 655,000 gallons of solvents, F-listed wastes, and heavy metals landfill at Site Q including buried drums of the waste materials. Another form was submitted on this date by the Pillsbury Company, which lists an unknown amount of mixed municipal and unknown wastes landfilled at Site Q. The Pillsbury Company also stated in the form that there were known releases to the environment. BFI also submitted a form June 9, 1981 which listed: organics, inorganics, solvents, pesticides, heavy metals, acids, sanitary sludge with small quantities of hazardous waste, small quantities of unknown hazardous wastes mixed with industrial/commercial/municipal/ household wastes, and paint sludges deposited in the landfill. Waste quantity information was not listed for BFI's submittal and further

attempts by IEPA to gain this information were futile as these records were destroyed by the company in 1986. BFI did submit affidavits to IEPA on March 27, 1990 from former employees stating that chemical wastes were in fact, dumped at site Q.

There is documentation in regard to the waste quantity deposited into Site R. In 1968, Monsanto estimated that approximately 35,470 cubic yards of waste were deposited in the landfill on an annual basis. This information was submitted to the State of Illinois Sanitary Water Board at that time. These wastes consisted of the following six major groups of organic compounds: phenols, aromatic nitro compounds, aromatic amines and aromatic nitro amines, chlorinated aromatic hydrocarbons, aromatic and aliphatic carboxylic acids, and condensation products of the above. By 1971, Monsanto estimated that the annual volume of material disposed in the landfill had fallen to about 18,400 cubic yards.

A Notification of Hazardous Waste Site - CERCLA 103(c), was submitted by the Monsanto Krummrich Plant on June 8, 1981. The waste quantities (organics, inorganics, solvents, pesticides and heavy metals) were estimated at 7,800,000 cubic feet for the landfill which included buried drums. Another form was submitted on the same date by the Monsanto Queeny Plant in St. Louis which listed 178,000 cubic feet of wastes (same as Krummrich Plant waste other than heavy metals) buried at Site R.

Waste quantities for the Bliss Waste Oil Site could be figured on the once filled capacity of the tanks which held the hazardous waste oils. The total capacity would amount to 72,000 gallons for the Site on the property owned by Clayton Chemical Company.

Waste quantity information for the Route 3 Drum Site is documented in the September, 1986 report by the Monsanto contractor, Geraghty & Miller, Incorporated. The Geraghty and Miller report states that the Monsanto Krummrich Plant files contain a drawing which indicates that approximately 5000 drums of nitrochlorobenzenes were buried at the Route 3 Drum Site.

The IEPA financed study of the Area #2 Sites included very little information on the Bliss Waste Oil Site and nothing on the Route 3 Drum Site. Therefore the following tables will only summarize the subsurface soil and groundwater results from Sites O, Q and R. Other sampling episodes performed by various contractors, confirm the soil and groundwater contamination at the Sites.

Table 2-3

Maximum Concentrations of Selected Contaminants in Subsurface Soils (mg/kg)

Chemical Name	Site O	Site O*	Site R**
Volatile Organics			
benzene	30.7	44	
chlorobenzene	58.9	100	
chloroform	--		
1,2-dichloroethane	0.2	12	
trans-1,2-dichloroethene	0.2	11	
4-methyl-2-pentanone	7.7	250	
tetrachloroethene	--	12	
toluene	29.5	2400	
1,1,1-trichloroethane	1.4	--	
trichloroethene	0.07	55	
Semivolatile Organics			
phenol	--	250	
2-chlorophenol	--	360	
2,4-dichlorophenol	--	3100	
2,4,6-trichlorophenol	--	170	
pentachlorophenol	474.4J	100	
1,2-dichlorobenzene	100	620	
1,3-dichlorobenzene	--	--	
1,4-dichlorobenzene	112.8	1200	
naphthalene	34.6J	380	
PCB's	1871	16000	
Metals			
arsenic	8	--	
cadmium	31	--	
lead	146	--	
nickel	136	--	

* Results from 1983 investigation.
** Not sampled to avoid breaching integrity of clay cap.
J Estimated value - result is greater than zero, but less than specified detection limit.
-- Not detected

Table 2-4

Maximum Concentrations of Selected Contaminants in Groundwater (ug/l)

Chemical Name	Site O	Site Q	Site R
Volatile Organics			
benzene	190000	2000	1500
chlorobenzene	150000	6700J	8100
chloroform***	3000J	1J	--
1,2-dichloroethane	4000J	3000	16000
trans-1,2-dichloroethene	94J	4J	--
4-methyl-2-pentanone	38000	2700	--
tetrachloroethene	10000	--	--
toluene	15000	1600J	760J
1,1,1-trichloroethane	7800	--	--
trichloroethene	83000	2J	--
Semivolatile Organics			
phenol	500	190000E	60000E
2-chlorophenol	120	33000E	14000E
2,4-dichlorophenol	30J	14000E	14000E
2,4,6-trichlorophenol	--	6000	2100
pentachlorophenol	23	35000E	--
1,2-dichlorobenzene	7800	2000	340
1,3-dichlorobenzene	320	--	--
1,4-dichlorobenzene	10000E	250	550
naphthalene	160	70	82J
PCB's	--	--	--
Metals			
arsenic	133	100	48
cadmium	8	--	--
lead	--	--	--
nickel	--	--	[18]

*** Detected previously at Site R up to 462 ug/l (P-7 in 11/88).
J Estimated value - result is greater than zero, but less than specified detection limit.
E Estimated value - amount detected in sample exceeds the calibration range.
-- Not detected
[] Value is greater than or equal to the instrument detection limit, but less than the contract required detection limit.

Leachate entering the Mississippi River from Site R has been photographed and sampled by IEPA and USEPA in October and November of 1981. The analytical data for these samples, may document an observed release to surface water. The table below summarizes the IEPA data from three seep (leachate) and three sediment samples collected October 2, 1981 from the riverbank at Site R.

Table 2-5

Maximum Concentrations of Selected Contaminants in Leachate and Sediment Samples at Site R (ug/kg)

Compound	Seep Sample	Sediment Sample
+PCB's	2.6	230
toluene	150	ND
*chlorobenzene	1600	ND
+chloroaniline	38000	6900
*chloronitrobenzene	21000	130
*2,4-D	17000	53
dichloronitrobenzene	790	ND
*dichloroaniline	2800	190
chloronitroaniline	84	ND
nitroaniline	100	ND
chlorophenol	30000	290
+phenol	22000	ND
methylphenol	570	ND
+dichlorophenol	32000	40
nitrophenol	600	ND
biphenyldiol	1700	ND
*aniline	550	ND
methylbenzene sucponamide	2000	ND
biphenol 2-01	300	310
benzenesulfonamide	630	ND
+dichlorobenzene	250	ND
benzoic acid/derivatives	12000	ND
hydroxybenzoic acid/ derivatives	12000	ND
2,4-D isomer	48000	ND
2,4,5-T isomer	12000	ND

ND-not detected

USEPA's contractor, E&E collected another round of leachate and sediment samples from the riverbank at Site R one month later on November 12, 1981. The analytical results confirmed the presents of many of the compounds found in the previous IEPA collected leachate and sediment samples. The compounds in Table 2-5 tagged with an asterisk (*) were also detected in at least one of the three USEPA seep samples. The compounds tagged with a plus sign (+) were also detected in at least one of the three USEPA seep samples and, at least one of the three USEPA sediment samples. Analysis of the split samples collected by Monsanto, likewise confirmed the findings.

On December 14, 1988, IEPA again collected leachate and sediment samples. TCDD and its isomers were analyzed for and detected in the samples, however, TCDD and its isomers were also detected at lower levels in an upstream sample and in the trip blank.

Mississippi River fish have also been studied adjacent to and downstream of the Sites. In a 1982 US Food and Drug Administration (FDA) study, 7 fish specimens caught near or below St. Louis were found to contain up to 1 part per million (ppm) chloronitrobenzenes. The specific residues found included 2-, 3- and 4-chloronitrobenzene and 2,3- and 3,4-dichloronitrobenzene. These compounds coincide with the compounds detected in the leachate and sediment samples collected at the riverbank of Site R.

In 1990, two fish specimens were collected adjacent Site R by the Illinois Department of Conservation for USEPA. The results of this study show that dioxin and furan isomers have bioaccumulated in the fish tissues at a total effective concentration (TEC) of 10.88 and 8.18 picograms per gram (pg/g). The levels are well above the nearest upstream (Illinois side) sample location where the TEC level was 1.73 pg/g in a comparative fish caught at Quincy, Illinois. The nearest upstream locations (West Alton, Missouri fish with TEC's of 7.99 and 0.50) are not considered comparative due to the confluence action of the Missouri and Mississippi Rivers.

Air samples were collected by IEPA's contractor over a 2-day period. On July 21 and 22 1987 air monitors were placed at six locations around Sites Q and R. The analysis of these samples revealed the presence of organic contaminants in four samples, from each day of sampling. The background (upwind) samples for each day showed no organics. PCB's were detected in two samples collected on the first day and one sample from the second day. The following maps and table from the report, summarizes this data.

SUMMARY OF AIR SAMPLING RESULTS FOR SITES Q AND R

Compound	Sample Number													
	DC-15†	DC-16	DC-17†	DC-18	DC-19	DC-20	DC-21*	DC-22†	DC-23	DC-24†	DC-25	DC-26	DC-27	DC-28*
benzene	58JB	61JB	61JB	72JB	74JB	NA	17JB	71JB	92JB	84JB	79JB	76JB	NA	18JB
naphthalene	—	—	—	—	—	—	—	—	—	—	—	—	—	—
pyrene	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1,1,1-trichloroethane	22	37	—	—	—	—	—	216	127	160	—	—	NA	—
phenol	—	—	—	—	—	0.04J	—	—	—	—	—	—	—	—
toluene	—	—	—	—	—	—	—	—	88	—	—	—	NA	—
total xylenes	—	—	—	—	—	—	—	—	15	—	—	—	NA	—
Aroclor 1248	—	—	—	—	0.07	0.06	—	—	—	—	—	0.19	NA	—
Aroclor 1254	—	—	—	—	—	—	—	—	—	—	—	0.13	NA	—
Aroclor 1260	—	—	—	—	—	—	—	—	—	—	—	0.09	NA	—
chromium	—	—	—	—	—	—	—	—	—	—	—	—	—	—
copper	0.86	0.58	0.81	0.63	0.88	0.31	—	1.14	1.22	0.82	0.61	0.56	NA	—
lead	0.19	0.25	0.27	0.34	0.30	0.29	—	0.45	0.79	0.54	0.39	0.30	NA	—
zinc	0.47	0.96	0.68	0.20	0.61	0.17	—	1.20	1.69	1.74	1.34	2.02	NA	—

Table 2-6

All results in ug/m^3.

Samples DC-15 through DC-21 collected 7/21/87. Samples DC-22 through DC-28 collected 7/22/87.

* Blank samples - results reported in ug per sample medium (filter, cartridge).

† Duplicate (collocated) samples.

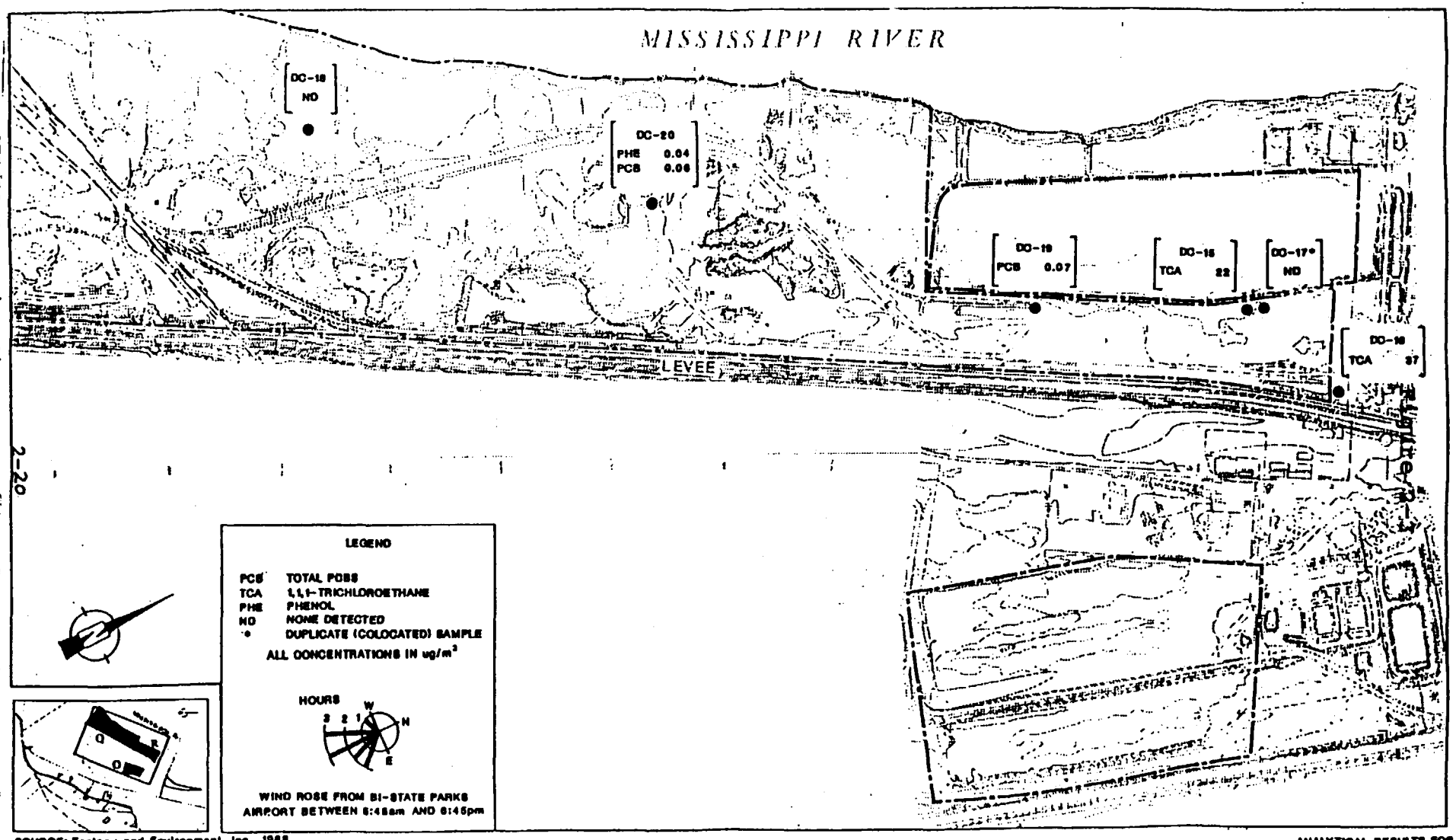
J Indicates estimated value. Result is less than the specified detection limit, but greater than zero.

B Compound also found in blank sample.

NA Not analyzed.

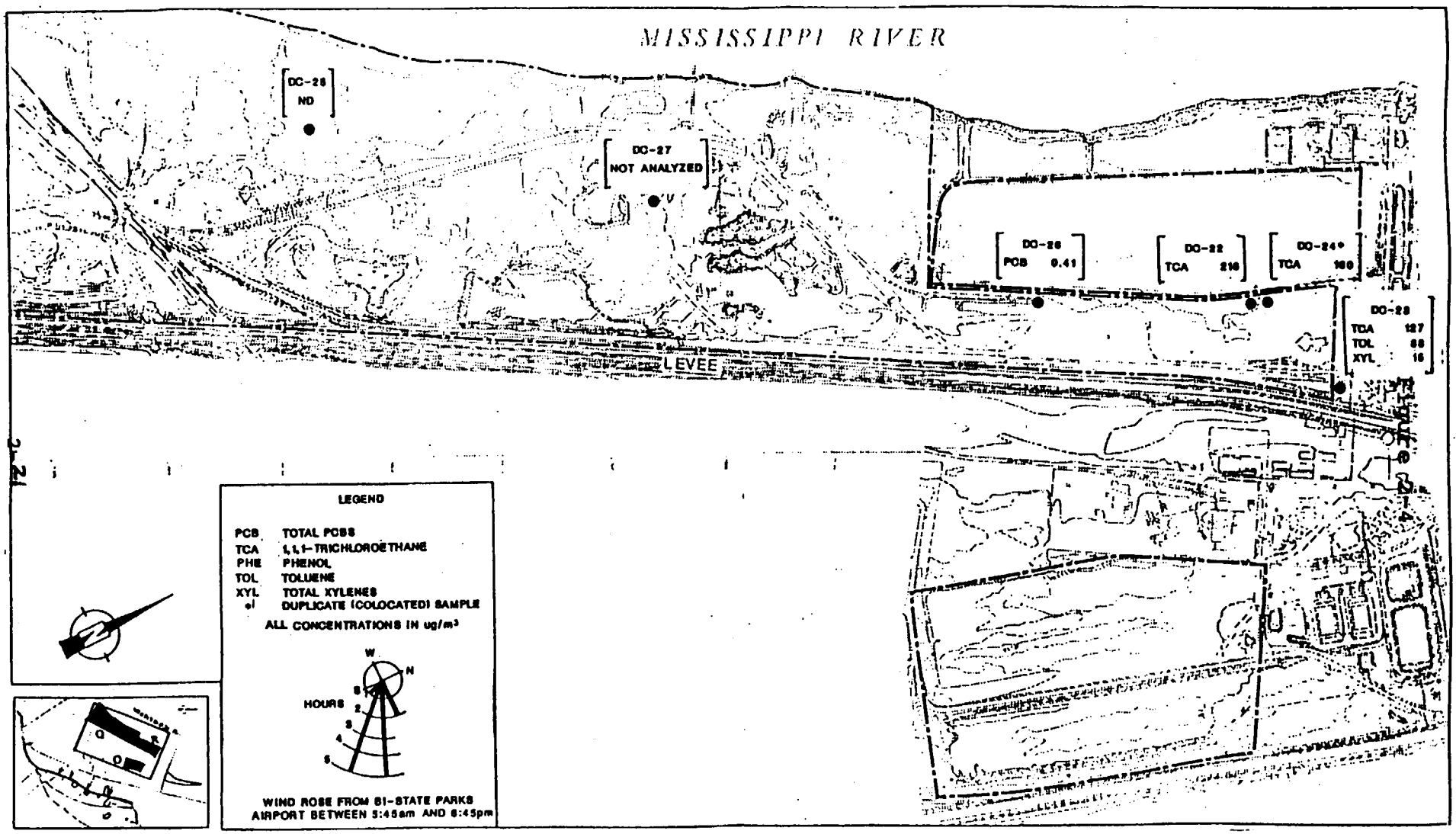
— Not detected.

Source: Ecology and Environment, Inc. 1988.



SOURCE: Ecology and Environment, Inc., 1988.

ANALYTICAL RESULTS FOR SELECT ORGANIC COMPOUNDS IN AIR SAMPLES AT SITES Q AND R ON JULY 21, 1987



SOURCE: Ecology and Environment, Inc., 1988.

ANALYTICAL RESULTS FOR SELECT ORGANIC COMPOUNDS IN AIR SAMPLES AT SITES Q AND R ON JULY 22, 1987

Figure 4

At Bliss Waste Oil, IEPA collected samples in June, 1983, of the contents of the 4,000 gallon LUST, contaminated soil from beneath the LUST and soil samples around the four 17,000 gallon upright tanks. The contents of the LUST included 5600 parts per million (ppm) of PCB's along with elevated concentrations of chlorinated solvents, aromatics and polyaromatic hydrocarbons, substituted benzenes, and aliphatic hydrocarbons. TCDD was not analyzed for, during any of the excavation and removal of the LUST. The following table shows the maximum concentration of hazardous compounds found in both the LUST waste oil and the soil beneath the exhumed tank.

Table 2-7

Bliss Waste Oil Soil Sample Results (ug/g)

Compound	Highest Soil Concentration	Highest Waste Concentration
trichloroethylene	710	5400
tetrachloroethylene	800	300
trichlorobenzene	220	2300
tetrachlorobenzene	210	360
toluene	2500	2300
xylenes	2200	2500
naphthalene	1000	1000
methylnaphthalene	1300	440
dimethylnaphthalene	800	400
trimethylnaphthalene	500	440
PCB's	3600	5600

- other compounds such as aliphatic hydrocarbons, aliphatic substituted phenol, chloromethylphenol, tetrachlorophenol and pentachlorophenol were also detected.

At the Route 3 Drum Site, subsurface soil samples were collected from within the landfill, prior to it's capping. Geraghty and Miller collected these samples in April, 1985. A summary of the soil sample results and groundwater monitoring results, are presented in the following table.

Table 2-8

Maximum Concentrations of Selected Contaminants in Soil and Groundwater at the Rt 3 Drum Site (mg/kg and ug/l)

Compound	Soil Concentration	Groundwater Concentration
2,4-dichlorophenol	27.5	13.2
2,4-dinitrophenol	97.5	1299.9
phenol	1810	43600
2,4,6-trichlorophenol	294	184
nitrobiphenol (total)	535773	42.9
4-nitrobiphenol	89000	ND
nitrochlorobenzene (total)	1542	579
dinitrochlorobenzene	180200	222
dichloronitrobenzene	207400	NAF
chlorobenzene	ND	511
chloroform	NAF	12.9
benzene	NAF	461.8

ND-not detected, NAF-not analyzed for

3. SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures utilized and observations made during the CERCLA SSI, conducted at Sauget Sites Area #2. Specific portions of this section contain information pertaining to the site representative interviews, reconnaissance inspection, and field sampling procedures. The SSI for the Area #2 Sites was conducted in accordance with the work plan which was developed and submitted to USEPA Region V, prior to the initiation of field activities.

USEPA's Potential Hazardous Waste Site Inspection Report (Form 2070-13) for each of the Sites is located in Appendix C of this report.

3.2 SITE REPRESENTATIVE INTERVIEWS

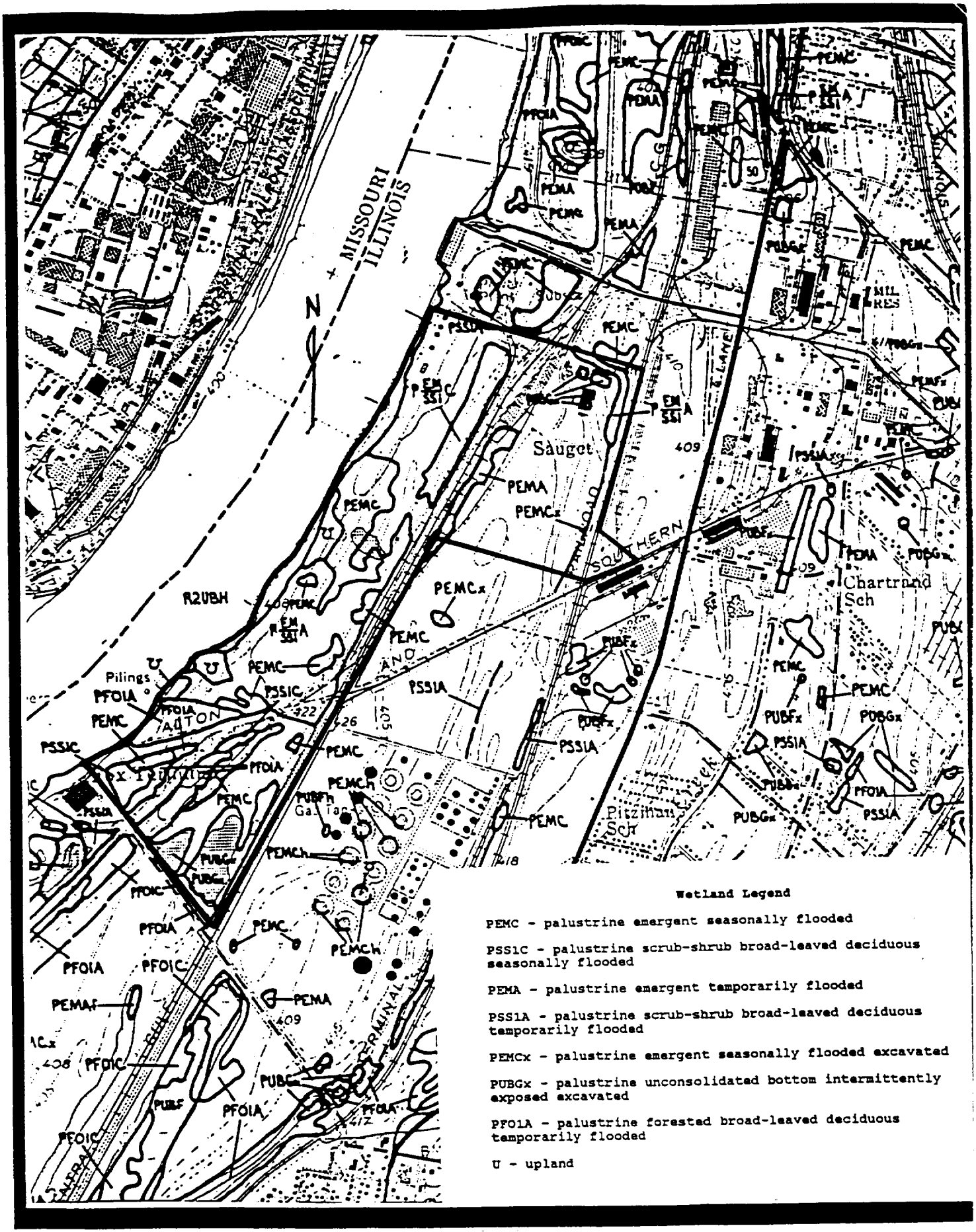
The site representative interview was conducted on June 5, 1991 between IEPA's Tim Murphy and Paul Takacs and Monsanto's Bob Hiller. The purpose of the meeting was to gain access agreements and gather additional information on Site R and the Route 3 Drum Site. The group also talked about Sites O and Q and this author explained portions of the CERCLA Pre-remedial process. During the informal interview, Mr. Hiller and the two IEPA inspectors observed the site conditions while looking for prospective sample locations. Later that day, the IEPA inspectors talked with the lessee of Site Q, coal and grain terminal operator, Steve Oaks at Peavey Incorporated. Only general information was gained from the short interview.

3.3 RECONNAISSANCE INSPECTION

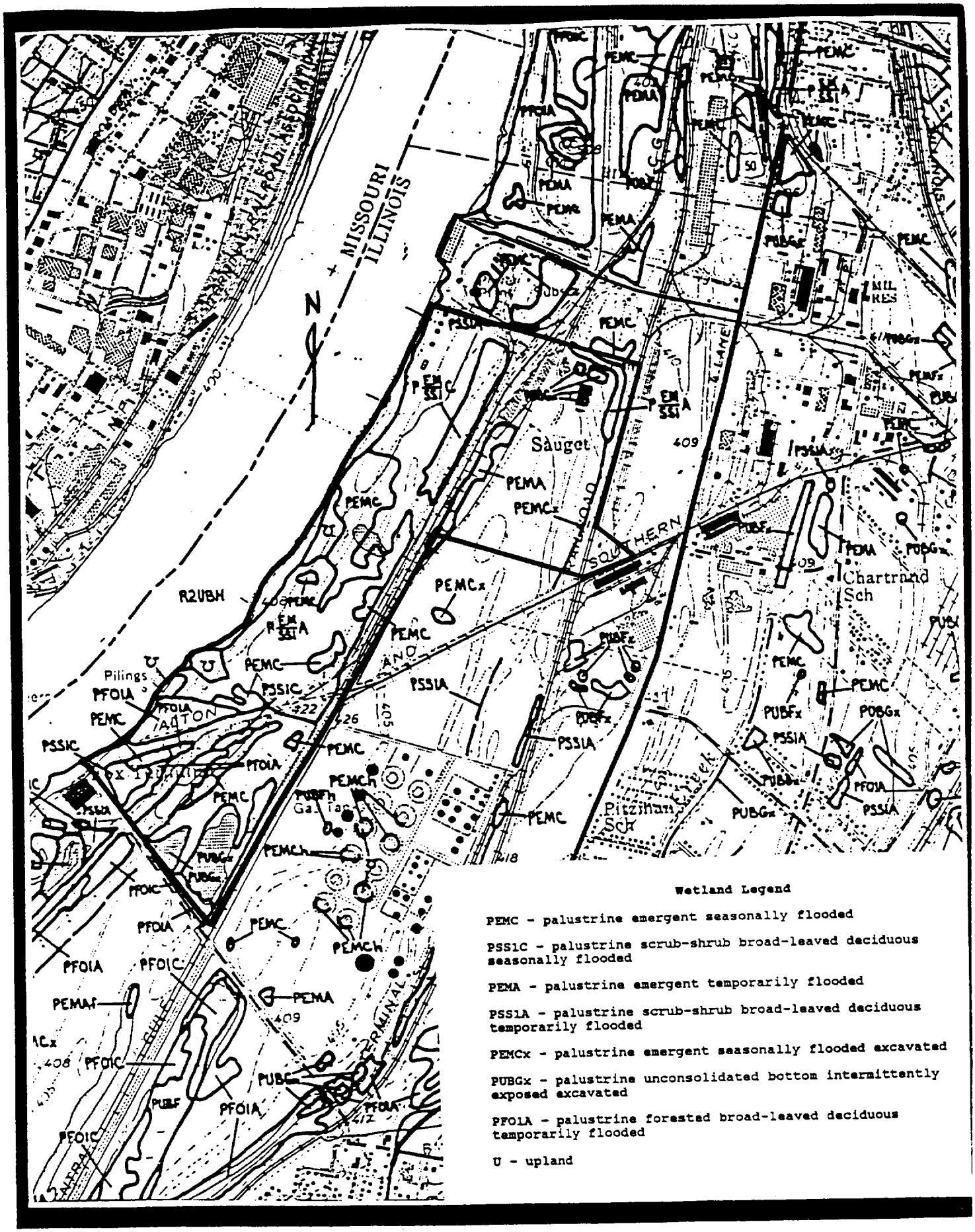
Site reconnaissance inspection for the Area #2 Sites was conducted after the interviews on June 5 and on June 6, 1991 by this author. Nothing special was noted at the two clay-capped sites owned by Monsanto: Site R and the Route 3 Drum Site. At the old Bliss Waste Oil Site, the empty above ground tanks still stand. Mr. Ed Reidy, Vice President of Clayton Chemical, stated that the four 17,000 gallon tanks were recently sampled and determined clean and that A-1 Oil Company still own the tanks (phone conversation September 24, 1991). Much was observed at Sites O and Q during the reconnaissance. The observations are discussed in detail in the following paragraphs. Figure 3-1 on page 3-3 of this report, shows the prominent site features.

After the interview with terminal operator, Steve Oaks, the rip-rapped bank of the Mississippi River was checked for leachate and exposed drums. Neither of the aforementioned were found, however, the elevation of the river was 14 feet above normal pool. Mr. Oaks then allowed us to access the middle and southern portions of Site Q via a gate at the south end of the operation. It was the middle and southern parts of Site Q where several interesting features were discovered.

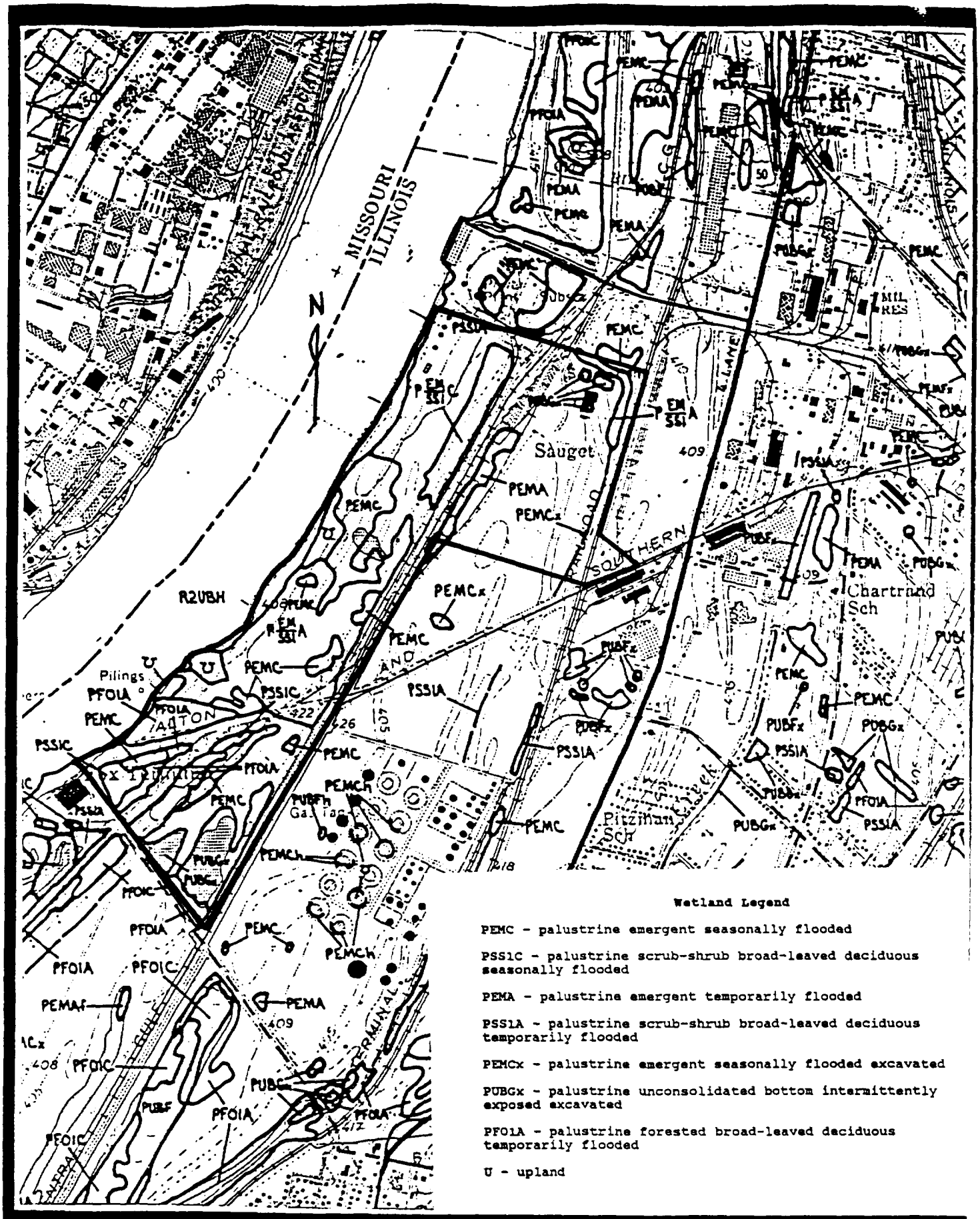
A long, 4-inch pipe was observed entering the Mississippi River. On this pipe was a date stenciled "tested 7/1/89". In a soft area leading up to this pipe, were semi-truck tracks. At the opening of the pipe, was a large



Site Features
Figure 3-1



Site Features
Figure 3-1



Site Features
Figure 3-1

stained spill that, when tested with the HNu photoionization detector, showed readings 6 units above the background readings. There was identical readings obtained when the meter was stuck into the pipe. The observations support a premise that wastes had been illegally dumped into the Mississippi River.

Several other areas of obvious contamination were discovered in the middle portion of Site Q. A salvage drum, located about 100 feet north of the pipe, was in close proximity to a small patch of stained soil, similar to that found by the pipe. On the east side of mid Site Q, near the railroad tracks, large areas looked as if liquid or sludge type waste were deposited sometime in years past. These areas appeared as black crusted material laying over white and/or orange-brown dried out material and soil. In a low laying area west of the railroad tracks, were two small piles of sludge oil type waste that were slowly oozing up from the ground. Only a slight reading over background was observed on the HNu meter, when the larger of the piles was tested.

Another find was a dirt pile dumped between the lakes at the southern end of Site Q, where HNu readings of 250 to 300 units above background were obtained from a pipe stuck into the pile. Several Drums were also observed between the lakes, however, the HNu meter showed no readings.

While walking around Site O, Mr. Takacs and this author discovered gasses emitting from the filled-in lagoons. HNu

readings up to 150 units above background, were monitored at several locations. The average readings were between 80 and 120 units over background on the covered lagoon areas tested. In the middle and on the downwind side of Site O, the HNu meter registered a constant 4 units above background. East of the road leading to the new WWTP, there is a ditch that showed reading of 10 units above background in the breathing zone.

During the reconnaissance visit, it was determined that Modified Levels C and D inspection attire could be worn during the sampling activities. Level B (supplied air) equipment would also be brought along for use if air monitoring equipment detected significant concentrations over background or if other threatening conditions ensue.

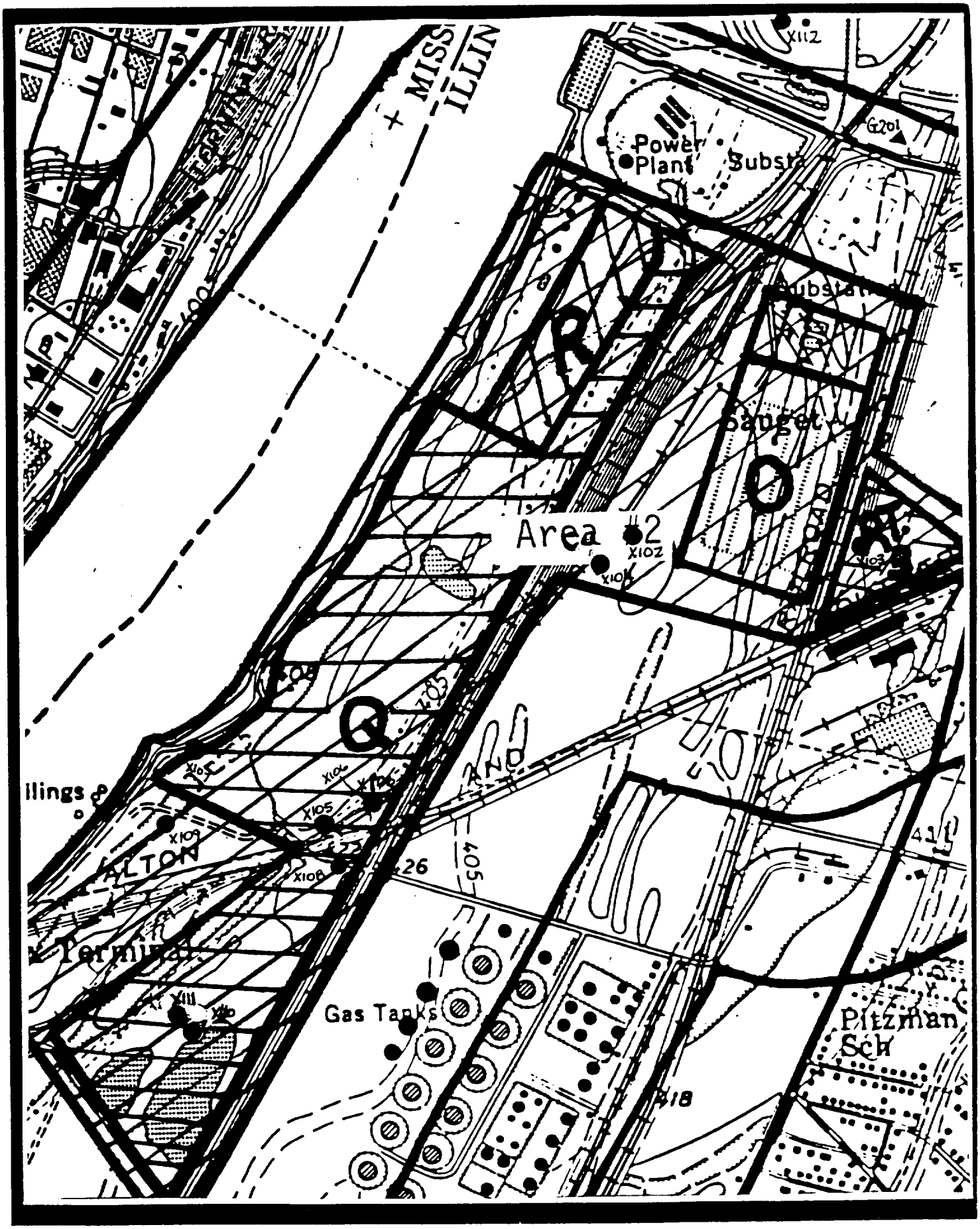
3.4 SAMPLING PROCEDURES

Samples were collected by IEPA personnel in areas and a well that had not previously been sampled. The USEPA Target Compound List (TCL) compounds were analyzed for, in each of the samples. The current list of compounds on the TCL is provided in Appendix D.

On June 25 and 26, 1991, IEPA collected one groundwater sample and eleven soil/sediment samples. Figure 3-2 on page 3-6 of the report depicts the locations of the twelve sample points.

3.5 GROUNDWATER SAMPLING PROCEDURES

The well at PT's Show Club was sampled to determine if documented contaminants in Area #2 groundwater were migrating



Soil/Groundwater Sample **Location Map**
Figure 3-2

to this source of drinking water. The well was purged through a hose but sampled at the spigot. The well was purged 20 minutes before directly filling each of the 11 sample containers. Preservatives were then added to the appropriate inorganic containers.

3.6 SOIL SAMPLING PROCEDURES

Of the eleven soil samples (see Figure 3-2 for locations), ten were collected on-site, within areas of suspected contamination. Only one off-site sample was collected for a background comparison, with the contingency plan of using one or more of the on-site samples (determined clean by analysis), if need be. The background sample was collected north of Area #2 and south of Mt. St. Sauget, a large slag pile west of the levee. Table 3-1 on the following page, describes each of the eleven soil/sediment samples, listing their depth, physical appearance and location.

Table 3-1

Soil Sample Descriptions

Sample	Depth	Appearance	Location
X102	0-6"	blk/mucky	at a dead spot of grass 28'10" S of Clayton Chemical fence, between Clayton Chemical and American Bottoms WWTP.
X103	9'10"-10'4"	light brn sand	30'8" NW of high-line pole, 40'3" SE of NW corner at Rt. 3 Drum Site.
X104	0-6"	red dry silty clay	on a mounded strip of earth running N to S, 290' S of Clayton Chemical fence, SW of X102.
X105	0-6"	oily waste	from a pimple of ooze in a low spot at mid Site Q, 65' W of RR tracks.
X106	0-6"	orn-brn sandy waste	NE of X105 on the edge of a wetland area, 115' E of RR tracks.
X107	0-6"	stained sand	next to pipe emptying into river at mid Site Q.
X108	0-6"	brn sand	at a wetland area, on the E end of a tree-line at mid Site Q, directly under the W highline wire.
X109	0-6"	silty sand	255' S and 5' E of (wooden) electric pole by rd which runs between Monsanto's Lot F and mid Site Q.
X110	0-6"	blk and gry muck w/ sheen	at N end of large lake, southern Site Q wetland, on W end of overturned dumpster.
X111	0-6"	rubbery orn-blk waste	231' from the end of the road running to the lakes in southern Site Q, on the side next to the large lake.
X112	0-6"	blk/brn silt	approx. 150' S of the end of the dirt rd or about 600 feet S of slag pile, N of the Area #2 Sites.

brn-brown, blk-black, orn-orange, gry-grey, w/with, '-feet, "-inches, rd-road.

3.7 DECONTAMINATION PROCEDURES

Standard IEPA decontamination procedures were followed prior to the collection of all samples. All sampling equipment had previously been decontaminated at the IEPA warehouse prior to its transport to the site.

Decontamination procedures include the cleaning of all equipment with trisodium phosphate solution, rinsing with hot tap water, acetone, hot tap water again, and finally rinsing with distilled water. All sampling equipment was dried and wrapped with aluminum foil prior to conducting any field sampling activities.

4. ANALYTICAL RESULTS

4.1 INTRODUCTION

This section includes a summary of the analytical results of samples collected during the CERCLA SSI of the Sauget Sites Area #2, in Sauget and Cahokia, Illinois.

4.2 ANALYTICAL RESULTS FROM IEPA COLLECTED SAMPLES

Chemical analysis of groundwater samples collected from the non-community well revealed the presence of certain inorganic analytes, and several volatile organic compounds. Analysis of soil/sediment samples collected at the Sites revealed the presence of volatiles, semi-volatiles, pesticides, PCB's, heavy metals, common laboratory artifacts, and common soil/sediment constituents. Significant concentrations of organic compounds were detected in certain places within the Area #2 Sites.

Tentatively identified compounds at the Area #2 Sites include: tetrachloroethanes in many of the samples; bis-(dimethylethyl)phenol at the Rt. 3 Drum Site, between Clayton and the new WWTP, in a wetland at Site Q and next to Site Q in Monsanto's Lot G; methylhexanes and 1,2-dichlorobenzene at two locations (one a wetland) of mid Site Q; plus, cyclohexane and 15 different chlorinated biphenols (totaling 21,100 ug/kg) in the wetlands of southern Site Q.

Sauget Sites Area 2
See CERCLIS for ILD numbers

TABLE 4-1
SUMMARY

SAMPLING POINT	G201 06-27-91		X102 06-26-91		X103 06-26-91		X104 06-26-91		X105 06-26-91		X106 06-26-91	
PARAMETER												
VOLATILES	(ppb)		(ppb)		(ppb)		(ppb)		(ppb)		(ppb)	
Methylene Chloride	18	B	37	B	--		48	B	580	JB	47	B
Acetone	--		27		--		11		--		34	
Carbon Disulfide	--		--		--		--		--		--	
1,1-Dichloroethane	--		--		--		--		--		--	
1,2-Dichloroethene(total)	--		--		--		--		--		--	
Chloroform	33		--		--		--		--		--	
2-Butanone (MEK)	--		--		--		--		--		--	
1,1,1-Trichloroethane	--		--		--		--		--		--	
Bromodichloromethane	5		--		--		--		--		--	
Trichloroethene	--		--		3	J	--		--		--	
Benzene	--		--		--		--		70	J	--	
4-Methyl-2-Pentanone	--		--		--		--		--		--	
Tetrachloroethene	--		--		--		--		--		--	
Toluene	--		--		--		--		1300		64	
Chlorobenzene	--		--		--		--		--		6	
Ethylbenzene	--		--		--		--		--		--	
Xylene(total)	--		--		--		--		430	J	--	
# of TIC's	(0)		(3)		(2)		(2)		(8)		(10)	
SEMIVOLATILES	(ppb)		(ppb)		(ppb)		(ppb)		(ppb)		(ppb)	
1,4-Dichlorobenzene	--		--		--		--		27000		2100	
4-Chloroaniline	--		--		--		--		--		290	J
2-Methylnaphthalene	--		--		--		--		--		--	
Fluorene	--		--		--		--		--		--	
Pentachlorophenol	--		--		--		--		15000		--	
Phenanthrene	--		--		--		--		--		--	
Anthracene	--		--		--		--		--		--	
Pyrene	--		--		--		--		--		--	
bis(2-Ethylhexyl)phthalate	7	JB	--		220	JB	320	JB	--		--	
Benzo(a)pyrene	--		--		--		--		--		--	
# of TIC's	(1)		(20)		(16)		(14)		(20)		(20)	

Sauget Sites Area 2
See CERCLIS for ILD numbers

SAMPLING POINT	X107 06-26-91		X108 06-26-91		X109 06-26-91		X110 06-26-91		X111 06-26-91		X112 06-27-91	
PARAMETER												
VOLATILES	(ppb)		(ppb)		(ppb)		(ppb)		(ppb)		(ppb)	
Methylene Chloride	40	B	43	B	4	J	5	J	38	B	84	B
Acetone	16		38		--		--		180		--	
Carbon Disulfide	--		--		--		--		15	J	--	
1,1-Dichloroethane	--		--		--		--		11	J	--	
1,2-Dichloroethene(total)	--		--		--		--		13	J	--	
Chloroform	5		--		5	J	4	J	--		10	
2-Butanone (MEK)	--		--		--		--		52	J	--	
1,1,1-Trichloroethane	--		--		--		--		25	J	--	
Bromodichloromethane	--		--		--		--		--		--	
Trichloroethene	--		--		--		--		--		--	
Benzene	--		--		--		--		14	J	--	
4-Methyl-2-Pentanone	--		--		--		--		72		--	
Tetrachloroethene	--		--		--		--		85		--	
Toluene	7		--		--		--		210		8	
Chlorobenzene	--		--		--		--		--		--	
Ethylbenzene	--		--		--		--		210		--	
Xylene(total)	29		--		--		--		480		--	
# of TIC's	(2)		(3)		(1)		(1)		(10)		(3)	
SEMIVOLATILES	(ppb)		(ppb)		(ppb)		(ppb)		(ppb)		(ppb)	
1,4-Dichlorobenzene	--		--		--		--		--		--	
4-Chloroaniline	--		--		--		--		--		--	
2-Methylnaphthalene	35000		--		--		--		--		--	
Fluorene	11000	J	--		--		--		--		--	
Pentachlorophenol	--		--		--		--		--		--	
Phenanthrene	79000		--		--		--		--		--	
Anthracene	6600	J	--		--		--		--		--	
Pyrene	75000		--		--		--		--		--	
bis(2-Ethylhexyl)phthalate	--		290	JB	180	JB	390	JB	--		--	
Benzo(a)pyrene	16000	J	--		--		--		--		--	
# of TIC's	(20)		(20)		(20)		(20)		(20)		(3)	

Table 4-1 (continued)

Sauget Sites Area 2
See CERCLIS for ILD numbers

TABLE 4-1
SUMMARY

SAMPLING POINT	G201	X102	X103	X104	X105	X106
	06-27-91	06-26-91	06-26-91	06-26-91	06-26-91	06-26-91
PARAMETER						
PESTICIDES/PCB'S	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
alpha-BHC	--	--	--	--	21	--
beta-BHC	--	--	--	--	--	--
gamma-BHC (Lindane)	--	--	--	--	--	--
Heptachlor	--	--	--	--	--	--
Aldrin	--	--	--	--	--	23
Heptachlor epoxide	--	--	--	--	23	13
Endosulfan I	--	--	--	--	--	--
Dieldrin	--	--	--	--	--	--
4,4'-DDE	--	--	--	--	590	570
Endrin	--	--	--	--	110	--
Endosulfan II	--	--	--	--	84	--
4,4'-DDD	--	--	--	--	45	--
4,4'-DDT	--	--	--	--	380	58
Methoxychlor (Mariate)	--	--	--	--	--	--
Endrin Ketone	--	--	--	--	--	110
Aroclor-1242	--	--	--	--	--	--
Aroclor-1254	--	2200	--	--	--	--
Aroclor-1260	--	--	--	--	--	--
INORGANICS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Aluminum	420	14500	8000	22200	2300	1800
Arsenic	--	6.7	4.8	4.6	2.3	4.0
Barium	83	160	210	120	380	220
Beryllium	--	1.5	120	2.7	--	--
Cadmium	--	--	--	--	1.1	5.7
Calcium	49600	3260	--	6120	58800	106000
Chromium	--	13	8.3	35	12	23
Cobalt	--	--	--	12	--	--
Copper	--	31	7.4	22	47	38
Iron	58	12700	10400	19800	7710	5270
Lead	12	59	11.8	56	83	84
Magnesium	17900	2980	5210	4060	2360	4240
Manganese	--	280	190	530	78	62
Mercury	--	--	--	--	0.75	--
Nickel	--	19	14	34	27	10
Potassium	3160	2730	1690	2140	280	260
Selenium	--	--	--	--	--	--
Sodium	9770	--	--	--	1150	1400
Vanadium	--	37	26	56	17	11
Zinc	--	190	38	100	790	560
Cyanide	--	--	--	--	--	--
Sulfate	42000	220	38	190	190	2700
Sulfide	6600	98	--	--	490	330

Table 4-1 (continued)

Sauget Sites Area 2
See CERCLIS for ILD numbers

SAMPLING POINT	X107	X108	X109	X110	X111	X112
	06-26-91	06-26-91	06-26-91	06-26-91	06-26-91	06-27-91
PARAMETER						
PESTICIDES/PCB'S	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
alpha-BHC	--	--	--	--	--	--
beta-BHC	--	17	--	--	--	--
gamma-BHC (Lindane)	420	--	--	--	--	27
Heptachlor	--	--	--	--	--	29
Aldrin	210	8.7	--	--	--	11
Heptachlor epoxide	270	--	--	--	--	23
Endosulfan I	48	--	--	--	--	--
Dieldrin	2000	21	--	--	--	--
4,4'-DDE	--	--	--	--	--	26
Endrin	--	20	--	--	--	140
Endosulfan II	1600	19	--	--	--	--
4,4'-DDD	240	--	--	--	--	--
4,4'-DDT	1600	35	19	--	--	120
Methoxychlor (Mariate)	2400	--	--	--	--	--
Endrin Ketone	550	17	--	--	--	--
Aroclor-1242	--	--	--	9900 C	--	--
Aroclor-1254	--	--	--	9500 C	17000	--
Aroclor-1260	--	--	--	8100 C	--	--
INORGANICS	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Aluminum	5600	8900	16000	6900	2100	37200
Arsenic	3.4	3.1	4.5	2.6	2.6	11
Barium	81	130	180	84	390	320
Beryllium	--	--	1.1	--	--	2.8
Cadmium	--	--	--	1.6	--	7.3
Calcium	17000	5560	6540	2450	48100	9300
Chromium	6.1	9.2	14	13	20	29
Cobalt	--	--	9.1	--	--	17
Copper	4.7	24	13	10	16	110
Iron	7110	10900	17700	8290	12500	37900
Lead	49	62	43	50	62	190
Magnesium	3960	3040	3790	1750	650	5010
Manganese	150	200	520	100	110	780
Mercury	--	--	--	--	--	0.19
Nickel	9.0	14	18	11	20	38
Potassium	930	1580	2370	1030	260	5240
Selenium	--	--	--	1.3	--	1.1
Sodium	--	--	--	--	1450	--
Vanadium	17	25	38	19	--	80
Zinc	46	150	100	120	150	760
Cyanide	--	--	--	--	--	0.51
Sulfate	170	110	63	70	310	76
Sulfide	130	--	--	--	220	--

Table 4-1 (continued)

ORGANIC DATA REPORTING QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. This flag is used either when estimating a concentration for TICs 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 compound.

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 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.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is reanalyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number (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.

INORGANIC DATA REPORTING QUALIFIERS

[ ] - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP/Flame AA), F (for furnace), CV (for Cold Vapor) and BH (for Borohydride).

U - Indicates the element was analyzed for but not detected. Report the detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence or interference

s - Indicates a 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. MIGRATION PATHWAYS

5.1 INTRODUCTION

This section includes information that may be useful in determining the Sauget Sites Area #2 impact on the four migration pathways identified in CERCLA's hazard ranking system (HRS). The migration pathways that will be discussed in this section are groundwater, surface water, air and soil exposure. Based on the analytical results noted in the previous section, and the finding from previous investigations, each pathway has been subject to releases from the Sites. It is yet to be determined whether some of the older analytical data will be HRS useable, in any case, the Sites have the potential to effect human health and the environment.

5.2 GROUNDWATER PATHWAY

Sauget Sites Area #2 Sites are located in a region known as the American Bottoms. ISGS well logs indicate that the upper stratigraphy in this region consists of 70-120 feet of unconsolidated alluvium and glacial outwash overlying Mississippian aged limestone and sandstone formations (Ste. Genevieve and St. Louis Limestones). The valley fill deposits are composed of two formations, the uppermost being the Cahokia Alluvium followed by the Mackinaw Member of the Henry Formation.

The Cahokia Alluvium is composed predominantly of silt, clay and fine sand deposits, generally indicative of a

aggrading environment. In the Sauget area, these deposits vary in thickness, with a range of 15 to 30 feet. This formation was laid down via flood events, eolian activity, bank slumping, erosion and/or slugs of material deposited directly by tributary steams. The Mississippi River has frequently reworked this formation in such a way that coarser material is intermingled with finer-grained deposits.

Underlying the Cahokia Alluvium is the Mackinaw Member of the Henry Formation. This formation is composed of sand and gravel from glacial outwash. In the Sauget area, this material rests directly on the bedrock surface and varies between 70 and 100 feet in thickness.

Local hydrogeologic information has been obtained through groundwater monitoring in the Sauget area. In the vicinity of the Area #2 Sites, shallow sand and gravel deposits close to the ground surface, yield significant quantities of water for nearby homes and business. Horizontal groundwater movement in the shallow deposits generally follow the land surface topography, with lateral movement toward local discharge zones (wells and small streams), and some movement into the deeper unconsolidated aquifers. Groundwater is encountered between 10 and 28 feet below the ground surface in area. These figures can be used for the depth to the aquifer of concern (AOC). Groundwater in the deeper unconsolidated valley fill deposits generally follows the bedrock surface. Accordingly, groundwater generally flows downstream through the sand and gravel

aquifers in much the same direction as the original stream flow, but at a much slower rate.

Most area residents are supplied with drinking water by the Illinois-American Water Company (IAWC) which operates an intake on the Mississippi River upstream of Sauget. IAWC sells the water to the various water departments and districts within the Sauget/Cahokia area. However, some area residents do obtain drinking water from shallow wells. Illinois Department of Public Health (IDPH) files and Illinois State Water Survey (ISWS) well logs indicate at least 50 area residents have wells which are used for drinking or irrigation. These wells are located in Cahokia (23), East St. Louis (5), East Carondelet (16) and Dupo (6). These do not include the wells at the homes on Judith Lane in Cahokia or an unknown number of residents in the Schmids Lake area (approximately 2.3 miles southwest) that are not covered by any public water distribution. The alluvial well at PT's Show Club, which draws water from the AOC, is monitored by the IDPH as a non-community well (serving over 25 people). A 1983 report by the Southwestern Illinois Metropolitan and Regional Planning Commission (SIMRPC) listed 69 residences in Centreville Township (includes Sauget, Cahokia, Alorton and Centreville) which use private water systems. The same report lists 57 residences in East St. Louis and 365 residences in Sugarloaf Township (includes Dupo, North Dupo and East Carondelet). SIMRPC based their report on 1980 census data.

5.3 SURFACE WATER PATHWAY

Site drainage is controlled by the COE 500-year levee for Site O, Bliss Waste Oil and the Route 3 Drum Site. Sites Q and R east of the levee, are not protected from the river's flood events. Drainage from these two sites directly enter the Mississippi River. There are many probable points of entry (PPE's) for Sites Q and R bordering the river such as the observed leachate seeps and the pipe entering river. The American Bottoms outfall at river mile 178.2 would be the PPE for the 3 sites west of the levee. A 15-mile surface water map is included in Appendix B of this report.

The average discharge of the Mississippi River, as measured over a 128 year period at St. Louis, Missouri, is 179,800 cubic feet per second. The 15-mile surface water target limit extends to Mississippi River mile 163.2.

Surface water use in the immediate area (from Mississippi River mile 174 to 178) is limited to recreation and freight trafficking. There is an upstream surface water intake at river mile 181, which supplies most of the Illinois side area residents, was mentioned in the groundwater section. The city of St. Louis is also supplied by an upstream surface water intake, about 12 miles north at river mile 190. At downstream river mile 149 (about 28 river miles south of area), the village of Crystal City, Missouri (population 4000) utilizes a Ranney well, adjacent the Mississippi River, for drinking water. A well of this kind, is assumed to draw in surface water due to its construction

and location to the river. On the Illinois side, the nearest downstream surface water intake is located approximately 65 miles south of the area, at river mile 110. The intake is used by the town of Chester and surrounding communities in Randolf County. According to the Illinois Department of

Conservation (IDOC), the Resource Inventory for the Mississippi River at river miles 178-162 shows fishing areas, sport fishing areas, important wildlife habitat and bald eagle use at selected areas in this reach.

5.4 AIR PATHWAY

A documented releases to the ambient air were observed in E&E study of the Sites. Also, the elevated HNu readings during the site reconnaissance at Site O, denote off-gassing of contaminants in the soil. It has been estimated that about 2000 people live within a mile of the Area #2 Sites and about 175,000 people live within 4-miles, based on 1990 U.S. Census figures. The table on the following page shows the 4-mile radius population calculation. According to the Illinois Department of Commerce and Community Affairs (1988), approximately 3,200 people are employed within 2 miles of the site.

Table 5-1

1

Target Population Calculation

City	Population Density/ Total Population	Area w/in 4-Mile Radius	Population w/in 4-Mile Radius
St. Louis	7,379/sq mi	14.5 sq mi	106,995
E. St. Louis	4,119/sq mi	9.5 sq mi	39,130
Alorton	2,237	100%	2,237
Cahokia	18,904	100%	18,904
Centreville	9,747	75%	7,310

Total Target Population = 174,576

5.5 SOIL EXPOSURE PATHWAY

Soil/Sediment samples collected during the SSI indicate a potential for direct contact with the detected hazardous wastes. Access to the Site O and the southern half of Q is unrestricted. The reconnaissance inspection did indicate that people frequent the southern half of Site Q and could expose themselves to these wastes. As indicated in the air section, approximately 2000 people live within a one mile radius of the Sites. There are no homes or schools that border the Sites.

6. BIBLIOGRAPHY

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APPENDIX A

GROUNDWATER 4-MILE RADIUS MAP

APPENDIX B

SURFACE WATER ROUTE MAP

APPENDIX C

USEPA FORM 2070-13

Site Inspection Report

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000665836

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Bliss Waste Oil	1 Mobile Ave.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Sauget	IL	62201	St. Clair	163	23

09 COORDINATES LATITUDE	LONGITUDE
38 35 55.0	090 10 51.0

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

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
06 25 91 (MONTH DAY YEAR)	☐ ACTIVE ■ INACTIVE	UNKNOWN (BEGINNING YEAR) 1989 (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 _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Tim Murphy	EPS	IEPA	(217) 782-6760

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Bruce Ford	EPE	"	( ) "
Greg Spencer	EPS	"	( ) "
Kim Kika	EPS	"	( ) "
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
None			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	9:30	Sunny, hot

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Ed Reidy	Clayton Chemical Co. (V. Pres.)	(618) 271-0467

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Timothy J. Murphy	IEPA	DLPC/RPMS	(217) 782-6760	9 13 91 (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	000665836

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

TONS _____

CUBIC YARDS _____

NO. OF DRUMS 1360

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	1360	drums	
OLW	OILY WASTE	72,000	gallons	once filled capacity of tanks
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION* Maximum Soil	06 MEASURE OF CONCENTRATION
OLW	PCB's		Allowed to infiltrate	3600	ug/g (ppm)
SLU	C3-substituded benzenes		the soil from a	6700	"
SLU	C4-substituded benzenes		leaking underground	8900	"
SLU	C5-substituded benzenes		Storage tank (LUST)	1100	"
SOL	trichloroethylene		placed intentionally	710	"
SOL	tetrachloroethylene		by Russell Bliss	800	"
SOL	toluene			2500	"
SOL	Xylenes			2200	"
SLU/OLW	Naphthalene			1000	"
"	methylNaphthalene			1300	"
"	dimethylNapthalene			800	"
"	trimethylNapthalene			500	"
"	phenanthrene			50	"
"	pentachlorophenol			4.4	"
"	tetrachlorophenol			1	"
"	chloromethylphenol			10	"

V. FEEDSTOCKS (See Appendix for CAS Numbers) SOL tetrachlorobenzene 210 "

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 DLPC file L 163 121 0012

EPA FORM 2070-13 (7-81)

* under exhumed LUST 6/6/83 by IEPA

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000665836

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 750
02 ■ OBSERVED (DATE: 06/22/82) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Known groundwater contamination of like compounds in this area, LUST/contaminated soil may have contributed

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
No longer exist

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ■ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: <1 (Acres)
02 ■ OBSERVED (DATE: 06/06/83) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
See preceeding page

01 ■ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: >50
02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Nearby local establishments (PT's) has a contaminated well - chloroform at 33ug/l, which Bliss Waste Oil may have contributed, a small % of local residences still use groundwater

01 ■ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Workers were photographed showing no safety precautions while working on the LUST and contaminated soils

01 ■ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: 750
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
See G. above

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000665836

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

Sparce vegitation exist at the site

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: 2/16/83) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: >50 — 04 NARRATIVE DESCRIPTION

LUST intentionally placed to leak its contents

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

None documented or observed

01 ■ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ■ OBSERVED (DATE: 2/16/83) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

See M. above

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: >50

IV. COMMENTS

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

IEPA BLPC file L1631210012

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000665836

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	1360	55 gallon
■ D. TANK, ABOVE GROUND	4@17000	gallon
■ E. TANK, BELOW GROUND	4000	gallon
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

☐ A. BUILDINGS ON SITE

NONE

06 AREA OF SITE

≈3 (Acres)

07 COMMENTS

See report pages 2-6 + 2-7

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

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

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

Intentionally placed LUST

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ■ NO

02 COMMENTS

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

IEPA BLPC file L1631210012

EPA

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

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 000665836

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS: ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ■	B. ☐	A. ☐	B. ☐	C. ■	A. upstream intake (mi)
NON-COMMUNITY	C. ☐	D. ■	D. ■	E. ☐	F. ☐	B. .34 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ■ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER >50

03 DISTANCE TO NEAREST DRINKING WATER WELL .34 (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
10-15 (ft)	W	10-15 (ft)	UNK (gpd)	■ YES ☐ NO

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

All wells in the area are screened in the Mississippi River alluvium (AOC) Many people have wells but are also hooked into a community supply PTIS Show Club well is a NON-community well serving over 25 people screened in the AOC

10 RECHARGE AREA		11 DISCHARGE AREA	
■ YES ☐ NO	COMMENTS high porosity Alluvial plain	■ YES ☐ NO	COMMENTS Mississippi River

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Mississippi River	☐	.3 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 2500 NO. OF PERSONS	B. 30,000 NO. OF PERSONS	C. 75000 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION .5 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 30,000

04 DISTANCE TO NEAREST OFF-SITE BUILDING .1 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Population consists of large metropolitian areas in St. Louis, MO as well as less densely populated villages

see page 5-6 of report

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000665836

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
>100 (ft)	UNK (ft)	UNK

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
35 (in)	2.5 (in)	<2 %	W	<2 %

09 FLOOD POTENTIAL

SITE IS Protected by a 500 YEAR FLOODPLAIN levee.

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. .1 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

UNK (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. 0 (mi)	B. .5 (mi)	C. _____ (mi)	D. 1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See maps in report appendix A + B

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

USGS Topographic Maps
National Wetlands Inventory Maps

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000665836

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE		Previous samples collected by	
AIR		IEPA in 1983	
RUNOFF		See report page 2-22	
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND ■ AERIAL

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

03 MAPS ■ YES ☐ NO

04 LOCATION OF MAPS in report appendix A+B

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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

IEPA BLPC file 1631210012

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000665836

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
Clayton Chemical		1 Mobile Ave		Sauget	IL	62201

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
None						

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
Gulf Mobile and Ohio RR		UNKNOWN				

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

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

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

phone call w/ Ed Reidy (Clayton Chem V. Pres)
IEPA DLPC file 1631210012

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000665836

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
Same as current owner	

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
A-1 Oil Corp. Jerry Russell Bliss	

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

05 CITY	06 STATE	07 ZIP CODE
Sauget	IL	62201

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER
A-1 Oil Corp	

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

14 CITY	15 STATE	16 ZIP CODE
Ballwin	MO	63011

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 DLPC file 1631210012

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000665836

II. ON-SITE GENERATOR

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

III. OFF-SITE GENERATOR(S)

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

IV. TRANSPORTER(S)

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

IEPA BLPC file 1631210012

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000665836

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ■ D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE 1983	03 AGENCY IEPA
01 ■ E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION 1360 drums of waste and soil removed	02 DATE 1983	03 AGENCY IEPA
01 ☐ F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ L. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	03 AGENCY

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000665836

II PAST RESPONSE ACTIVITIES *(Continued)*

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

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

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

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

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

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

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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

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

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

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

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

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

IEPA BLPC file 1631210012

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000665836

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ■ NO

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

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

IEPA BLPC file 1631210012

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000605790

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Sauget and Co. Landfill (AKA Site Q)	Monsanto Ave

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Sauget/Cahokia	IL	62201	St. Clair	163	23

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
38 35 00.0	090 11 50.0	■ 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
06 25 91 (MONTH DAY YEAR)	■ ACTIVE * ☐ INACTIVE	1962 (BEGINNING YEAR) 1975 (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 E+E (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Tim Murphy	EPS	IEPA	(217) 782-6760

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Greg Spencer	EPS	"	( ) "
Bruce Ford	EPE	"	( ) "
Kim Nika	EPS	"	( ) "
Paul Takacs	EPE	"	( ) "
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Steve Oaks	Peavey, Inc	UNKNOWN	( ) UNK
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	9:30 am	Sunny, hot

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
None		( )

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Timothy J. Murphy	IEPA	DLPC/RPMS	(217) 782-6760	9 13 91 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

* random dumping

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000605790

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES *(Check all that apply)*

- [x] A. SOLID
- [ ] B. POWDER, FINES
- [ ] C. SLUDGE
- [ ] D. OTHER _____ *(Specify)*
- [ ] E. SLURRY
- [x] F. LIQUID
- [ ] G. GAS

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

TONS _____

CUBIC YARDS UNKNOWN

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS *(Check all that apply)*

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

III. WASTE TYPE

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

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	See report				
	pages 2-14, 2-15				

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 BLPC Files 1631210001

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000605790

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: >50
02 ■ OBSERVED (DATE: Spring 87) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
11 volatiles were found during 1988 Study

01 ■ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ■ OBSERVED (DATE: 6/26/91) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Soil Sample ~~from~~ near pipe entering river shows that wastes were dumped illegally into the pipe

01 ■ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: 175000
02 ■ OBSERVED (DATE: 7/21-22/87) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
PCB's, phenols, solvents found

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ■ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: UNK
02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Contamination < 2' at uncontrolled areas

01 ■ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 90 (Acres)
02 ■ OBSERVED (DATE: 06/26/91) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
See report

01 ■ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 750
02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Nearby well may have contamination from site
well has chloroform, same contaminant at site

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ■ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
See E. + G. above

EPA

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

I. IDENTIFICATION
01 STATE: ILD
02 SITE NUMBER: 000605790

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ■ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
stressed vegitation observed in many areas especially panhandle section

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

01 ■ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Leachate has been observed coming off site @ in Mississippi River

01 ■ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ■ OBSERVED (DATE: 6/5/91) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
Visual contamination observed including drums,

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
None documented or observed

01 ■ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ■ OBSERVED (DATE: 6/25/91) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Pipe, drums, pipes of waste were observed

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: 175000

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
IEPA BLPC files 1631210001

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000605790

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	Coal UNK	
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND	-	
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL	90	acres
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ■ A. BUILDINGS ON SITE

06 AREA OF SITE

90 (Acres)

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

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

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

None liner, no cap, exposed drums

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ■ YES ☐ NO

02 COMMENTS

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

IEPA BLPC file 1631210001

Site Recon 6/5/91

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000605790

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS	ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ■	B. ☐		A. ☐	B. ☐	C. ■	A. upstream intake (mi)
NON-COMMUNITY	C. ☐	D. ■		D. ☐	E. ■	F. ☐	B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ■ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER >50

03 DISTANCE TO NEAREST DRINKING WATER WELL .3 (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
10-15 (ft)	W	10-15 (ft)	unk (gpd)	■ YES ☐ NO

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

All wells in the area are screened in the Mississippi River alluvium (AOC) Many people have wells, but are also hooked into the community supply PT's Showclub well is the NON-community well serving over 25 people from the (AOC)

10 RECHARGE AREA		11 DISCHARGE AREA	
■ YES ☐ NO	COMMENTS high porosity alluvial plain	■ YES ☐ NO	COMMENTS Mississippi River

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Mississippi River	■	0 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 2500 NO. OF PERSONS	B. 30,000 NO. OF PERSONS	C. 75000 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION .5 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 30,000

04 DISTANCE TO NEAREST OFF-SITE BUILDING _____ (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Population consists of large metropolitian areas in St. Louis, MO as well as less densely populated villages

See page 5-6 of report

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000605790

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
>100 (ft)	UNK (ft)	UNK

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
35 (in)	2.5 (in)	<2 %	W	<2 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. 0 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

UNK (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. 0 (mi)	B. .5 (mi)	C. .1 (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See maps in report appendix A + B

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

USGS Topographic Maps
National Wetlands Inventory Maps

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000605790

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	7	IEPA Labs in Springfield + Champaign	
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND ■ AERIAL

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

03 MAPS ■ YES ☐ NO

04 LOCATION OF MAPS in report appendix A+B

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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

IEPA BLPC file 1631210001

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000605790

II. CURRENT OWNER(S) / **PARENT COMPANY** (If applicable)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
Eagle Marine Industries, INC			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
200 N. Broadway, Suite 1725			

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
St. Louis	MO	63102			

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
Cahokia Trust c/o Don C. Elsaesser,			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
1718 Warson Estates Dr.			

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
St. Louis	MO	63124			

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

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

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

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

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

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

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

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

IEPA BLPC file 1631210001

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000605790

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

01 NAME	02 D+B NUMBER
Peavey, Inc	

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

05 CITY	06 STATE	07 ZIP CODE
Sauget, IL	IL	62201

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 BLPC file 1631210001
See report page 2-9 and 2-10 for other past owners and operators

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000605790

II. ON-SITE GENERATOR

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

III. OFF-SITE GENERATOR(S)

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

IV. TRANSPORTER(S)

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

IEPA BLPC file 1631210001

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000605790

II. PAST RESPONSE ACTIVITIES

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

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

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

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

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

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

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

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

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

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

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

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

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

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

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

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

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000605790

II PAST RESPONSE ACTIVITIES (Continued)

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

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

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

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

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

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

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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

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

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

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

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

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

IEPA BLPC file 1631210001

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000605790

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ■ NO

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

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

IEPA BLPC file 1631210001

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606982

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Sauget/Toxic (AKA Site R)	Rivers Edge

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Sauget	IL	62201	St. Clair	163	23

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
38 35 55.0	090 11 05.0	■ A. PRIVATE ☐ B. FEDERAL ____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION (MONTH DAY YEAR)	02 SITE STATUS	03 YEARS OF OPERATION
06 25 91	☐ ACTIVE ■ INACTIVE	1957 (BEGINNING YEAR) 1978 (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 Ecology & Environment (Name of firm) ☐ G. OTHER ____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Timothy J. Murphy	EPS	IEPA	(217) 782-6760

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Paul Takacs	EPE	IEPA	(217) 782-6760
Greg Spencer	EPS	"	( ) "
Bruce Ford	EPE	"	( ) "
Kim Nika	EPS	"	( ) "
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Bob Hiller	Environmental Engineer	500 Monsanto Ave, Sauget 62206-1198	(618) 482-6362
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	9:30am	Sunny hot

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Bob Hiller	Monsanto	(618) 482-6362

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE (MONTH DAY YEAR)
Timothy J. Murphy	IEPA	DLPC/RPMS	(217) 782-6760	9 13 91

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	980606982

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES *(Check all that apply)*

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

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

TONS _____

CUBIC YARDS 53,870

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS *(Check all that apply)*

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

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			Monsanto submitted a list
SOL	SOLVENTS	See report		for waste types and quantities
PSD	PESTICIDES	page 2-12		landfilled at Site R in
OCC	OTHER ORGANIC CHEMICALS			1968 and 1971
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	See report pages 2-15 +				
	2-16				

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 BLPC file 1631210 00003

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	980606982

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 750
02 ■ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Groundwater contamination is documented in the unconsolidated deposits as well as bedrock beneath the site.

01 ■ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: UNK
02 ■ OBSERVED (DATE: 11/81) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Seepage and leachate have been observed, photographed and sampled, showing observed release to the Mississippi River.

01 ■ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: 175,000
02 ■ OBSERVED (DATE: 7/22/87) POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

1,1,1-TCA, toluene, xylenes, phenol and PCB's were detected in air samples at Site R

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

Incompatible and/or reactive wastes may have been dumped into the landfill

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

Non documented or observed
– the site is fenced and Monsanto does surveillance checks

01 ■ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 36 (Acres)
02 ■ OBSERVED (DATE: 11/81) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Sediment samples contained PCB's, chloroaniline, chloronitrobenzene 2,4 D, chlorophenol,

01 ■ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 725
02 ■ OBSERVED (DATE: 6/27/91) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

A non-community well serving more than 25 is 1600' NE of Site R and shows trace levels of organic contamination.

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

None observed

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

see B,+G above

EPA

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

I. IDENTIFICATION
01 STATE: ILD
02 SITE NUMBER: 980606982

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Not documented or observed

01 ● K. DAMAGE TO FAUNA — 02 ● OBSERVED (DATE: 1982, 1990) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
Fish from the Mississippi River were found to contain Nitrochlorobenzenes in a 1982 USFDA study at Savanet. In 1990, IDOC and USEPA Sample fish at Savanet and found dioxin in the fish. See report page 2-17 and 2-18

01 ● L. CONTAMINATION OF FOOD CHAIN — 02 ● OBSERVED (DATE: 1982, 1990) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
See K above

01 ● M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ● OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
leachate flows into the river from the unlined landfill

01 ● N. DAMAGE TO OFFSITE PROPERTY — 02 ● OBSERVED (DATE: 1988) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
River is contaminated via sediment samples collected by IEPA

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

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

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: 175,000

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
IEPA BLPC file 1631210003

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606982

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	7,978,000	ft² *
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

36 (Acres)

07 COMMENTS

* 103 C Notice's from Queeny Plant + Krummrich Plant

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

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

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

estimated contaminant load to River @ 77 lbs/day by Geraghty + Miller for Monsanto

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ■ YES ☐ NO

02 COMMENTS

if river is low leachate/drums are exposed

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

IEPA BLR file 1631210000 3

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606982

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS	ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ■	B. ☐		A. ☐	B. ☐	C. ■	A. Upstream Intake (mi)
NON-COMMUNITY	C. ☐	D. ■		D. ☐	E. ■	F. ☐	B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ■ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER >50

03 DISTANCE TO NEAREST DRINKING WATER WELL .3 (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
10-15 (ft)	W	10-15 (ft)	unk (gpd)	■ YES ☐ NO

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

The non-community well is PT's showcub well serving more than 25 people from the Aquifer of Concern (AOC). All of the wells in this area are tapped into the shallow alluvial aquifer. Most of the people that have wells also are hooked into the community supply

10 RECHARGE AREA		11 DISCHARGE AREA	
■ YES ☐ NO	COMMENTS Porous Alluvial Plain	■ YES ☐ NO	COMMENTS Mississippi River

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Mississippi River	■	0 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 2500 NO. OF PERSONS	B. 30000 NO. OF PERSONS	C. 75000 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION .5 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 30,000

04 DISTANCE TO NEAREST OFF-SITE BUILDING _____ (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are large metropolitan areas in St. Louis, MO as well as less densely populated villages

See page 5-6

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606982

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
>100 (ft)	UNK (ft)	UNK

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
35 (in)	2.5 (in)	<2 %	W	<2 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS *(5 acre minimum)*

ESTUARINE: A. _____ (mi)

OTHER: B. 0 (mi)

12 DISTANCE TO CRITICAL HABITAT *(of endangered species)*

UNK (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. .1 (mi)	B. .5 (mi)	C. .2 (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See maps IN report appendix A+B

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

USGS Topographic Maps
National Wetland Inventory Maps

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606982

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER		previous samples collected	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL

02 IN CUSTODY OF IEPA, USEPA (Name of organization or individual)

03 MAPS ■ YES ☐ NO

04 LOCATION OF MAPS in report appendix A+B

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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

IEPA BLPC file 1631210003

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606982

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
Monsanto W. G. Krummrich Plant		500 Monsanto Ave.		Sauget,	IL	62206-1198

PARENT COMPANY (If applicable)

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

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

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

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

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

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

IEPA BLPC file 1631210003

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606982

II. CURRENT OPERATOR *(Provide 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		

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

PREVIOUS OPERATORS' PARENT COMPANIES *(If applicable)*

10 NAME	11 D+B NUMBER	
12 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	13 SIC CODE	
14 CITY	15 STATE	16 ZIP CODE
10 NAME	11 D+B NUMBER	
12 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	13 SIC CODE	
14 CITY	15 STATE	16 ZIP CODE
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 BLPC files 1631210003

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	980606982

II. ON-SITE GENERATOR

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

III. OFF-SITE GENERATOR(S)

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

IV. TRANSPORTER(S)

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

IEPA BLPC file 1631210003

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	980606982

II. PAST RESPONSE ACTIVITIES

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

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

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

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

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

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

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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

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

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

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

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

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

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

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

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

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	980606982

II PAST RESPONSE ACTIVITIES *(Continued)*

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

01 ■ S. CAPPING/COVERING — 02 DATE 1978 — 03 AGENCY _____
04 DESCRIPTION Sept 1978 Monsanto began closure operations including covering, grading capping and securing site

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

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

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

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

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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

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

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

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

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

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

IEPA BLPC file 1631210003

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980606982

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ■ NO

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

Consent Decree signed with IEPA for RI in 1991

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

IEPA BLPC file 1631210003

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION
01 STATE: ILD
02 SITE NUMBER: 980498059

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): Route 3 Drum Site AKA Krummrich W.G Plant
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: Route 3
03 CITY: Sauget
04 STATE: IL
05 ZIP CODE: 62201
06 COUNTY: St. Clair
07 COUNTY CODE: 163
08 CONG DIST: 23
09 COORDINATES — LATITUDE: 38 35 32.0 LONGITUDE: 090 10 45.0
10 TYPE OF OWNERSHIP (Check one): ■ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 06 25 91 (MONTH DAY YEAR)
02 SITE STATUS: ☐ ACTIVE ■ INACTIVE
03 YEARS OF OPERATION: UNKNOWN | late 1940's (BEGINNING YEAR | 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 ___ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Timothy J. Murphy	EPS	IEPA	(217) 782-6760

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Bruce Ford	EPE	"	( ) "
Greg Spencer	EPS	"	( ) "
Kim Nika	EPS	"	( ) "
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Bob Hiller	Environmental Engineer	500 Monsanto Ave., Sauget, IL 62206-1198	(618) 482-6362
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	9:30 am	Sunny, hot

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Bob Hiller	Monsanto Chemical Co.	(618) 482-6362

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Timothy J. Murphy	IEPA	DLPC/RPMS	(217) 782-6760	9 13 91 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 [illegible] ILD 980498059

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

TONS _____

CUBIC YARDS _____

NO. OF DRUMS 5000

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

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

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
OCC	nitrochlorobenzenes		landfilled	unk	
ACD	Nitrobiphenol		"	"	
ACD	4-Nitrophenol		"	"	
OCC	dinitrochlorobenzene		"	"	
OCC	dichloronitrobenzene		"	"	
SOL	chlorobenzene		"	"	
	See				
	report				
	page 2-23				

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)

Sept 1986, Proposed Cap for the Route 3 Drum Site at the Monsanto W.G. Krummrich Plant in Sauget, Illinois, Geraghty & Miller, Inc., for Monsanto IEPA BLPC file 1631210006.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D980498059

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: >50
02 ■ OBSERVED (DATE: 05/85, 11/85) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
chlorobenzene = 511 ug/l
benzene = 461.8 ug/l
chloroform = 8 ug/l
2,4,6-trichlorophenol = 184 ug/l
phenol = 43,600 ug/l
vinyl chloride = 32.2 ug/l
1,2-dichlorobenzene = 25.5 ug/l
bis(2ethylhexyl)phthalate = 84 ug/l
4-Nitrophenol = 201.3 ug/l
2,4-dinitrophenol = 1,299.9 ug/l
2-Nitrophenol = 729 ug/l

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ■ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 0.3 (Acres)
02 ■ OBSERVED (DATE: 04/01-02/86) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Drums were corroded and leaking into the landfill as observed by IEPA FOS personel

01 ■ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: >50
02 ■ OBSERVED (DATE: 06/26/91) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
a small portion of the local population still utilize well water for drinking, also a local establishment - PT's Show Club has a well which is used that has shown chloroform at a concentration of 33 ug/l

01 ■ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: UNKNOWN
02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Due to the potential risks to human health during the excavation of the drums, working at the site ceased and the pit was filled and capped.

01 ■ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: 750
02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
See G. above

EPA

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

I. IDENTIFICATION
01 STATE: LD 02 SITE NUMBER: 980498059

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: 12/85) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: >50
04 NARRATIVE DESCRIPTION
leaking/deteriorated drums in an unlined landfill

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
NONE documented or observed

01 ■ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ■ OBSERVED (DATE: 12/85) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
drums were landfilled in the mid to late 1940's, there was no authority to regulate such practices at that time.

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: >50

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
See Part 2 Source

EPA

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

I. IDENTIFICATION

01 STATE: ILD | 02 SITE NUMBER: 980498059

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	0.3	acres
☐ G. LANDFARM		
☐ H. OPEN DUMP		
■ I. OTHER buried drums (Specify)	≈5000	

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 Clay cap (Specify)

fenced site

05 OTHER
- ☐ A. BUILDINGS ON SITE

None

06 AREA OF SITE: 0.3 (Acres)

07 COMMENTS

A drawing in Monsanto's files indicates that ≈5000 drums of Nitrochlorobenzenes were buried in the area middle to late 1940's as reported by Geraghty + Miller, Inc, the PRP consultant.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

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

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

Drums in unlined landfill are leaking/deteriorated causing a release to groundwater

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ■ NO

02 COMMENTS

fenced site, capped landfill

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

See Part 2 Source

EPA

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

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: D980498059

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

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

02 STATUS

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

03 DISTANCE TO SITE
A. upstream (mi)
B. .45 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ■ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER >50
03 DISTANCE TO NEAREST DRINKING WATER WELL _____ (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
10 (ft)	W	≈ 10 (ft)	_____ (gpd)	■ YES ☐ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)
PT's show club well is a non-community well serving over 25 people screened in the AOC (alluvium) Other wells are also screened in the Mississippi River alluvium Most people with these wells are also hooked into the community supply

10 RECHARGE AREA
■ YES ☐ NO
COMMENTS: high porosity Alluvial Plain

11 DISCHARGE AREA
■ YES ☐ NO
COMMENTS: Mississippi River

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Mississippi River	☐	.4 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 2500 NO. OF PERSONS	B. 30000 NO. OF PERSONS	C. 75000 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: .3 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: 30000
04 DISTANCE TO NEAREST OFF-SITE BUILDING: .1 (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)
large metropolitan areas of St Louis, MO plus less densely populated villages

See page 5-6 of report

EPA

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

I. IDENTIFICATION

01 STATE: ILD | 02 SITE NUMBER: 980498059

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
>100 (ft)	22.5 (ft) OB-32 4/2/86	UNKNOWN

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
35 (in)	2.5 (in)	<2 %	W	<2 %

09 FLOOD POTENTIAL

SITE IS ■ 500 YEAR FLOODPLAIN Protected by a levee

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. .1 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

UNK (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. .1 (mi)	B. .5 (mi)	C. .1 (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See maps in report appendix A + B

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

USGS Topographic Maps
National Wetland Inventory Maps

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980498059

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	1	IEPA Labs in Spfld. + Champaign	
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
None	

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND ■ AERIAL

02 IN CUSTODY OF IEPA, USEPA
(Name of organization or individual)

03 MAPS ■ YES ☐ NO

04 LOCATION OF MAPS Appendix A+B in report

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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

IEPA BLPC file 1631210006

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980498059

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
Monsanto W.G. Krummrich Plant			

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

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
Sauget	IL	62206-1198			

PARENT COMPANY (If applicable)

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

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

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

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

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

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

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

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

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

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

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

IEPA BLPC file 1631210006

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980496059

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

01 NAME	02 D+B NUMBER
Same as owner	

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 BLPC file 1631210006

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	980498059

II. ON-SITE GENERATOR

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

III. OFF-SITE GENERATOR(S)

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

IV. TRANSPORTER(S)

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

IEPA DLPC file L1631210006

EPA

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

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 980498059

II. PAST RESPONSE ACTIVITIES

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

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

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

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

01 ● E. CONTAMINATED SOIL REMOVED — 02 DATE 12/85 — 03 AGENCY IEPA
04 DESCRIPTION Only a small portion of contominated soil was removed
2600 20 gallon fiber packs of waste material and soil removed

01 ● F. WASTE REPACKAGED — 02 DATE 12/85 — 03 AGENCY IEPA
04 DESCRIPTION
20 gallon fiber packs

01 ● G. WASTE DISPOSED ELSEWHERE — 02 DATE 12/85 — 03 AGENCY IEPA
04 DESCRIPTION
2600 20 gallon fiber packs were incinerated

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

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

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

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

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

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

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

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

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

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

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980498059

II PAST RESPONSE ACTIVITIES (Continued)

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

01 ■ S. CAPPING/COVERING — 02 DATE 1987 — 03 AGENCY IEPA
04 DESCRIPTION
clay cap

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

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

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

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

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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

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

01 ■ 1. ACCESS TO SITE RESTRICTED — 02 DATE 1987 — 03 AGENCY _____
04 DESCRIPTION
fenced and locked

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

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

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

IEPA BLPC file L1631210006

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	980498059

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ■ NO

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

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

IEPA DLPC file 1631210006

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000672329

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Sauget WWTP (AKA Site O)	One Mobile Ave.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Sauget	IL	62201	St. Clair	163	23

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
38 35 35.0	090 10 51.0	☐ 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
06 25 91 (MONTH DAY YEAR)	☐ ACTIVE ■ INACTIVE	1952 (BEGINNING YEAR) UNK (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 E+E (Name of firm) ☐ G. OTHER ___ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Tim Murphy	EPS	IEPA	( )

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Greg Spencer	EPS	"	( )
Bruce Ford	EPE	"	( )
Kim Nika	EPS	"	( )
Paul Takacs	EPE	"	( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
NONE			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	9:30am	sunny, hot

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
George Schillinger	Sauget Sanitary Development and Research Assoc.	(

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Timothy J. Murphy	IEPA	DLPC/RPMS	(217) 782-6760	9 13 91 (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	000672329

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

TONS _____

CUBIC YARDS 64,533 *

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	64,533	cu. yds.	once filled lagoon capacity
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	See report				
	pages 2-14, 2-15				

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 BLPC files L1631210020

EPA FORM 2070-13 (7-81)

* based on 20 ac. lagoon system 2' deep (E&E soil borings at Site O)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000672329

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ■ OBSERVED (DATE: 7/14/87) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: >50
04 NARRATIVE DESCRIPTION
Wells at Site O contained 16 volatiles
11 Semivolatiles
4 metals above (significantly) background

01 ■ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE:) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION
via groundwater, effluent from WWTP (see O.)

01 ■ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE:) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION
air monitoring with an 11.7 HNu during reconnaissance 6/5/91 showed 4 units above background consistently on the downwind side in the breathing zone at Site O

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION
None observed

01 ■ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE:) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: UNK
04 NARRATIVE DESCRIPTION
Site access is not controlled

01 ■ F. CONTAMINATION OF SOIL — 02 ■ OBSERVED (DATE: 2-17-87) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: >40 (Acres)
04 NARRATIVE DESCRIPTION
9 of 11 subsurface soils contained contaminants including xylene ethylbenzene, chlorobenzene, PCP, chrysene and PCB (Aroclor 1242)

01 ■ G. DRINKING WATER CONTAMINATION — 02 ■ OBSERVED (DATE: 6/27/91) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: >50
04 NARRATIVE DESCRIPTION
PT's Shawclub well has chloroform detected at 33 ppb (Soils 3000J at O)
there are other private wells around

01 ■ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE:) ■ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION
workers installed roadway and water/sewer lines accross site to New American Bottoms WWTP

01 ■ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE:) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION
See E, G, and H.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000672329

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ■ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Stressed vegetation is evident over the site

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
None observed

01 ■ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Mississippi River fish are contaminated with PCB's, Dioxins and Nitrochloro benzenes

01 ■ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
No liner and inadequet cover over old lagoons

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None observed

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

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

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: 175,000

IV. COMMENTS

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

IEPA Site files

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000672329

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	64,533 or 20	yds³ ac
☐ B. PILES	2800	yd³
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ■ A. BUILDINGS ON SITE

06 AREA OF SITE

45 (Acres)

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

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

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

No cap or liner on lagoons based on well logs of site

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ■ YES ☐ NO

02 COMMENTS

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

IEPA BLPC files

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000672329

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

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

02 STATUS

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

03 DISTANCE TO SITE

A. upstream intake (mi)
B. .34 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING
■ B. DRINKING (Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER >50

03 DISTANCE TO NEAREST DRINKING WATER WELL .34 (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
14 (ft)	W	14 (ft)	UNK (gpd)	■ YES ☐ NO

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

PTS Showclub well is a non community well serving over 25 people screened in the AOC (alluvium). Other wells are also screened in the Mississippi River alluvium. Most people with these wells are also hooked into the community supply

10 RECHARGE AREA

■ YES
☐ NO

COMMENTS: infiltration in porous alluvial surface

11 DISCHARGE AREA

■ YES
☐ NO

COMMENTS: Mississippi River

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Mississippi River	☐	.35 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 2500 NO. OF PERSONS	B. 30000 NO. OF PERSONS	C. 75000 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION .5 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 30,000

04 DISTANCE TO NEAREST OFF-SITE BUILDING .2 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

population consists of large metropolitan areas in St. Louis, as well as less densely populated villages

See page 5-6 of report

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000672329

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
> 100 (ft)	UNK (ft)	UNK

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
35 (in)	2.5 (in)	<2 %	W	<2 %

09 FLOOD POTENTIAL

SITE IS IN 500 YEAR FLOODPLAIN

10

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

11 DISTANCE TO WETLANDS *(5 acre minimum)*

ESTUARINE: A. _____ (mi)

OTHER: B. .1 (mi)

12 DISTANCE TO CRITICAL HABITAT *(of endangered species)*

UNK (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. 0 (mi)	B. .5 (mi)	C. .1 (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See map section in report appendix A + B

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

USGS Topographic Maps
National Wetlands Inventory Maps

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000672329

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER		previous sample data	
SURFACE WATER		use is in report	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNu readings	HNu 11.7 ev found a constant 4 units above background
	on the downwind side of site O, at certain areas
	the HNu read 150 units above background when next
	to ground level

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND ■ AERIAL

02 IN CUSTODY OF IEPA; USEPA; E+E, Inc. (Name of organization or individual)

03 MAPS ■ YES ☐ NO

04 LOCATION OF MAPS in report appendix A + B

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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

IEPA BLPC files 1631210020

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000672329

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER
Village of Sauget	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
2897 Falling Springs Rd.	

05 CITY	06 STATE	07 ZIP CODE
Sauget	IL	62201

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

08 NAME	09 D+B NUMBER

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

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

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

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

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

12 CITY	13 STATE	14 ZIP CODE

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

01 NAME	02 D+B NUMBER
Clayton Chemical Co	

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

05 CITY	06 STATE	07 ZIP CODE
Sauget,	IL	62201

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

IEPA BLPC files 1631210020

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	000672329

II. CURRENT OPERATOR *(Provide 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

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 BLPC file 1631210020

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000672329

II. ON-SITE GENERATOR

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

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
See report page 2-9			
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
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)

IEPA BLPC file 1631210020

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000672329

II. PAST RESPONSE ACTIVITIES

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

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

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

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

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE 1983 — 03 AGENCY IEPA
04 DESCRIPTION 2800 yd^3 placed on property and covered contaminated soil contained TCDD + PCBs

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

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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

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

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

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

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

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

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

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

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

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000672329

II PAST RESPONSE ACTIVITIES (Continued)

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

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

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

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

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

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

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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

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

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

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

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

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

IEPA BLPC file 1631210020

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	000672329

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ■ NO

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

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

IEPA BLPC Files 1631210020

APPENDIX D

TARGET COMPOUND LIST

TARGET COMPOUND LIST

Volatile Target Compounds

Chloromethane
Bromomethane
Vinyl Chloride
Chloroethane
Methylene Chloride
Acetone
Carbon Disulfide
1,1-Dichloroethene
1,1-Dichloroethane
1,2-Dichloroethene (total)
Chloroform
1,2-Dichloroethane
2-Butanone
1,1,1-Trichloroethane
Carbon Tetrachloride
Vinyl Acetate
Bromodichloromethane
1,2-Dichloropropane
cis-1,3-Dichloropropene
Trichloroethene
Dibromochloromethane
1,1,2-Trichloroethane
Benzene
trans-1,3-Dichloropropene
Bromoform
4-Methyl-2-pentanone
2-Hexanone
Tetrachloroethene
1,1,2,2-Tetrachloroethane
Toluene
Chlorobenzene
Ethylbenzene
Styrene
Xylenes (total)

Base/Neutral Target Compounds

Hexachloroethane
bis(2-Chloroethyl)Ether
Benzyl Alcohol
bis(2-Chloroisopropyl)Ether
N-Nitroso-Di-n-Propylamine
Nitrobenzene
Hexachlorobutadiene
2-Methylnaphthalene
1,2,4-Trichlorobenzene
Isophorone
Naphthalene
4-Chloroaniline
bis(2-chloroethoxy)Methane
Hexachlorocyclopentadiene
2-Chloronaphthalene
2-Nitroaniline
Acenaphthylene
3-Nitroaniline
Acenaphthene
Dibenzofuran
Dimethyl Phthalate
2,6-Dinitrotoluene
Fluorene
4-Nitroaniline
4-Chlorophenyl-phenylether
2,4-Dinitrotoluene
Diethylphthalate
N-Nitrosodiphenylamine
Hexachlorobenzene
Phenanthrene
4-Bromophenyl-phenylether
Anthracene
Di-n-Butylphthalate
Fluoranthene
Pyrene
Butylbenzylphthalate
bis(2-Ethylhexyl)Phthalate
Chrysene
Benzo(a)Anthracene
3,3'-Dichlorobenzidene
Di-n-Octyl Phthalate
Benzo(b)Fluoranthene
Benzo(k)Fluoranthene
Benzo(a)Pyrene
Indeno(1,2,3-cd)Pyrene
Dibenz(a,h)Anthracene
Benzo(g,h,i)Perylene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene

Acid Target Compounds

Benzoic Acid
Phenol
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

Pesticide/PCB Target Compounds

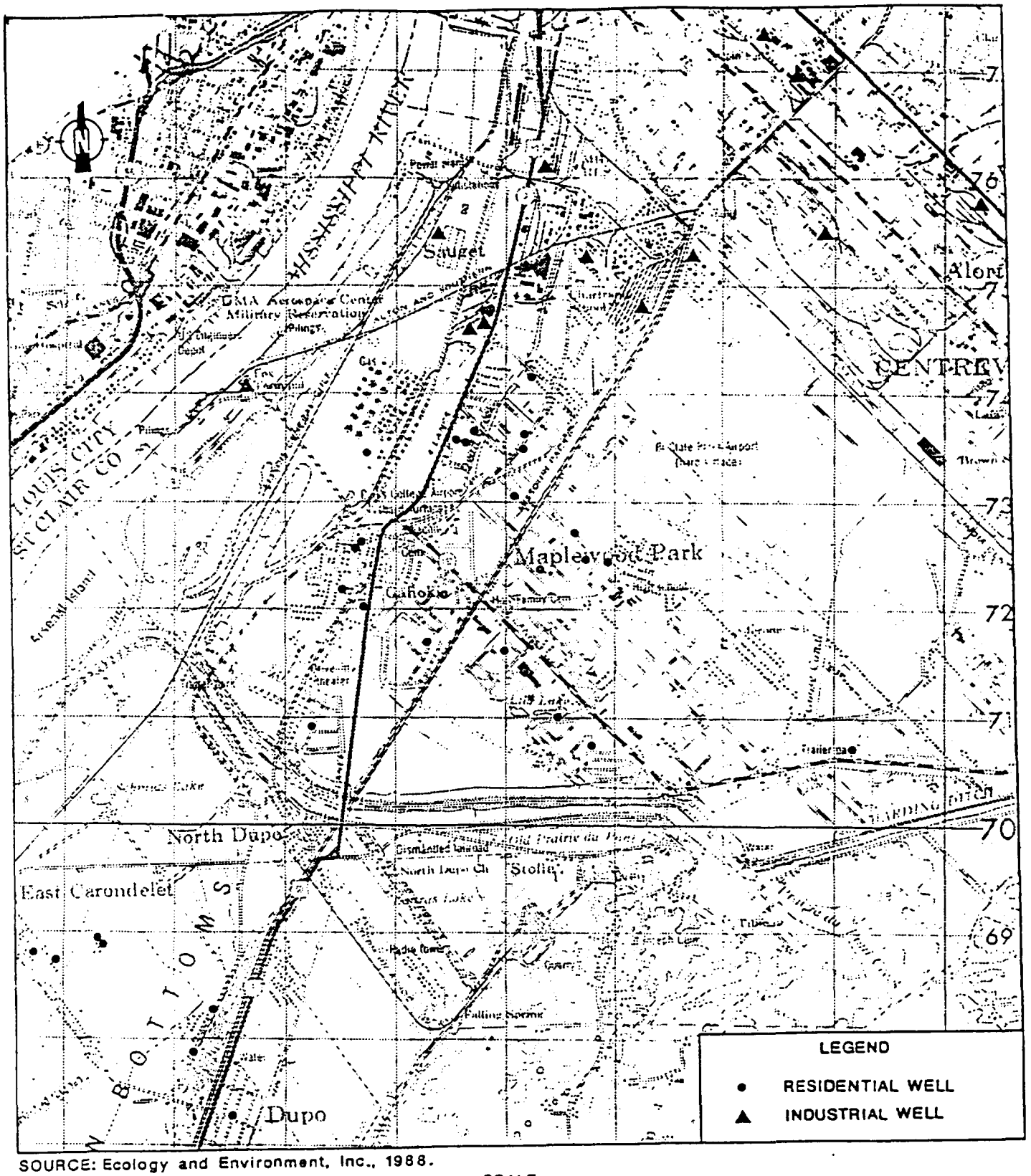
alpha-BHC
beta-BHC
delta-BHC
gamma-BHC (Lindane)
Heptachlor
Aldrin
Heptachlor epoxide
Endosulfan I
4,4'-DDE
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin Ketone
Endosulfan Sulfate
Methoxychlor
alpha-Chlorodane
gamma-Chlorodane
Toxaphene
Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260

Inorganic Target Compounds

Aluminum
Antimony
Arsenic
Barium
Beryllium
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
Cyanide
Sulfide
Sulfate

APPENDIX E

WELL LOGS



SOURCE: Ecology and Environment, Inc., 1988.

SCALE

0 1 2 3 4 MILES

RESIDENTIAL AND INDUSTRIAL WELL LOCATIONS IN THE DCP AREA

The following is an explanation of the ISWS Private Well Database Printout.

Columns	Field Length	Name	Description
1-3	3	FIPS	County Code Number

FIPS means Federal Information Processing System and is a Federal number to designate a county.

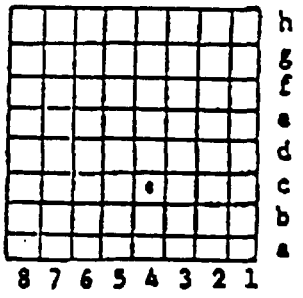
4-8	5	SGS County number	

SGS County number is the Geological Survey ID# that is assigned as an internal identification number.

9-18	10	Location	Township columns 9-11 Range columns 12-14 Section columns 15-16 Plot columns 12-18

The location system uses the township, range, and section. The location consists of five parts: county, township, range, section, and coordinate within the section. Sections are divided into rows of 1/8-mile squares. Each 1/8-mile square contains 10 acres and corresponds to a quarter of a quarter of a quarter section. A normal section of 1 square mile contains 8 rows of 1/8-mile squares; an odd-sized section contains more or fewer rows. Rows are numbered from east to west and lettered from south to north as shown in the diagram.

St. Clair County
T.2N., R.10W.
Sec. 23



The location of the well shown above is STC 2N10W-23.4c. Where there is more than one well in a 10-acre square they are identified by arabic numbers after the lower-case letter in the well number.

Columns	Field Length	Name	Description
93-94	2	Well type -	A two letter code indicating the type of well Blank - Assumed drilled BD Bored and dug DU Dug (being phased out) DR Driven SP Sand point SG Spring
95-96	2	Aquifer type -	A two letter code indicating aquifer type Blank - Undeterminable BR Bedrock UN Unconsolidated

The data in the Private Well Inventory Database is a listing of those non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, from chemical analysis reports, from well sealing forms or well inventory forms from the 1930-34 well survey and other special projects. The accuracy of this data is controlled by those who submitted the form. Information in the private well database has not been field verified.

Columns	Field Length	Name	Description
19-48	30	Owner	
49-68	20	Driller	
69-75	7	Date	Month columns 69-70 Day columns 71-72 Century columns 73 Year columns 74-75
76	1	Permit code letter indicates agency which issued permit #. M Mines and Minerals (after 1988 only observation wells and irrigation wells) P Public Health - all non-community supplies E EPA - Community supplies N No fee X Undetermined	
77-82	6	Permit number	
83-86	4	Depth (in feet)	
87-90	4	Record type -	Indicates paper source that documents the well exists, since records were collected before well log submittal was required. L Log A Affidavit C Chemical analysis I Inventory X Indicates comment in owner field something unusual
91-92	2	Well use -	A two letter code indicating the usage of the well CM Commercial CO Conservation DO Domestic IN Industrial IR Irrigation MO Monitoring MU Municipal NC Non-Community OB Observation PK Park SC School ST State

163	01N09W047FLALUMIER E		0000943	29	C	DU
163	01N09W06 JC RR A YARD	LAYNE WESTERN	0400947	105	L	CM
163	01N09W081ABARBEAU E	DOHRMAN	0901977M065458207		L	DO
163	01N09W081COLIVER M	DS DRILL	0911974M032393140		L	DO
163	01N09W087EPIAT E		0000943	27	C	DU
163	02N09W075DCIRCLE PKG CO	WATSON	0200942	120	L	CM
163	02N09W075ECIRCLE PKG CO	LUHR	0000962	112	IC	CM
163	02N09W075ECIRCLE PKG CO	LUHR	0719966	115	IC	CM
163	02N09W076DCIRCLE PKG CO		0000941	111	LC	CM
163	02N09W076EE SIDE PKG		0000906	100	L	CM
163	02N09W076EHUNTER PKG CO	BUTLER	0421958	116	L	CM
163	02N09W076EHUNTER PKG CO	LAYNE WESTERN	0000968	106	I	CM
163	02N09W077EHUNTER PKG CO	FRANK	0322957	100	L	CM
163	02N09W077EHUNTER PKG CO	LUHR	0306956	106	LC	CM
163	02N09W077FHUNTER PKG CO		0000943	110	C	CM
163	02N09W087APFIZER	LAYNE WESTERN	0814972M016352115		L	CM
163	02N09W087APFIZER	RUESTER	1100983M109867117		L	CM
163	02N09W092HPENN RR LAKE ROAD HOUSE	WATSON	0900941	115	L	CM
163	02N09W097ANIEDERER DAIRY		0000936	96	C	CM
163	02N09W097ANIEDERER DAIRY	WATSON	0300946	98	LC	CM
163	02N09W103DWATERLOO ICECREAM		0000942	122	C	CM
163	02N09W103DWATERLOO ICECREAM		0000942	124	C	CM
163	02N09W106GWALWORTH CO		0000943	122	C	CM
163	02N09W108HWALWORTH CO		0000943	124	C	CM
1632659102N09W151EFREEDOM CONCRETE		ST CH DRILL	1208987M137981100		L	CM
163	02N09W157ASCHRANZ J		0908964	98	L	DO
163	02N09W16		0000930	110	C	DO
163	02N09W16 JONES PK		0000954		C	PK
163	02N09W167AE ST LOUIS CASTING		0200943	116	LC	CM
163	02N09W168EWATERLOO ICECREAM	WATSON	0909939	59	L	CM
163	02N09W172BAM ASPHALT ROOFING	WATSON	0200947	105	L	CM
163	02N09W173BAM ASPHALT ROOFING		0000939	115	LC	CM
163	02N09W173FE ST LOUIS PK DIST		0000930	110	C	PK
163	02N09W177FWILLIAMS PAINT CO	THORPE	0600929	117	L	CM
163	02N09W177GWILLAIMS PAINT CO(TEST)	LAYNE WESTERN	0000947	116	LX	CM
163	02N09W177GWILLIAMS PAINT CO	THORPE	0000947	114	L	CM
163	02N09W177GWILLIAMS PAINT CO	THORPE	0000947	115	L	CM
163	02N09W177GWILLIAMS PAINT CO	THORPE	0600929	113	L	CM
163	02N09W177GWILLIAMS PAINT CO(TEST)	LAYNE WESTERN	0000947	117	LX	CM
163	02N09W177GWILLIAMS PAINT CP		0000928	100	C	CM
163	02N09W177HPFIZER	THORPE	0000947	114	IC	CM
163	02N09W178BDRUG STORE		0000949	84	C	CM
163	02N09W187CROXY THEATRE		0000944	91	C	CM
163	02N09W187GBANNER ICE	WATSON	0000943	116	CL	CM
1632590302N09W19 PRESTRESSED SLAGS		ST CH DRILL	1029986M126802100		L	CM
163	02N09W193HHOME ICECREAM CO		0000933	115	LC	CM
163	02N09W198EOBEAR NESTER CO		0000943	104	C	CM
163	02N09W198FCERTAIN TEED PROD		0903952	106	L	CM
163	02N09W198FCERTAIN TEED PROD		1026950	110	L	CM
163	02N09W198FOBEAR NESTER CO		0000943	104	C	CM
163	02N09W198GLEMP BREWING CO		0000946	720	C	CM
163	02N09W208AALTON AND SOUTH RR		0000944	100	C	IN
163	02N09W231AOPEN AIR THEATRE	WATSON	1000941	83	L	CM
~~163~~	~~02N09W231EPOPP R~~	~~ST CH DRILL~~	~~0727977M063762114~~		~~L~~	~~DO~~
~~163~~	~~02N09W232FPOPP R~~	~~KOHNEN~~	~~0623984M11312561~~		~~L~~	~~IR~~
163	02N09W263HAM ZINC CO			97	C	CM
163	02N09W29 ALUMINUM ORE COO		1000940	1215	L	IN
163	02N09W295GIND TRACK SUP INC	KOHNEN	0119981M09811132		L	DU
163	02N09W298FCHEM TECK PROD		0000972	98	IC	CM

163	02N10W103BNAT STOCK YD		0000967	108	C	CM
163	02N10W11 MISSOIRI ILL MATERIAL		0400943	115	L	CM
1630137002N10W22	MONSANTO CHEM	RANNEY	0800952	97	L	IN
1630137202N10W22	MONSANTO CHEM	RANNEY	0800952	97	L	IN
1630137102N10W22	MONSANTO CHEM	RANNEY	0903952	90	L	OG
163	02N10W23 AP GROCERY	WATSON	0600946	80	L	CM
163	02N10W241ECERTAIN TEED PROD		0000943	106	C	CM
163	02N10W241HCERTAIN TEED PROD	WATSON	1200942	123	L	CM
163	02N10W25 MOBIL OIL		0000987	103	A	IN
163	02N10W25 MOBIL OIL		0000987	109	A	IN
163	02N10W25 MOBIL OIL	EATSON	0000943	16	A	IN
163	02N10W25 MOBIL OIL	WATSON	0000940	115	A	IN
163	02N10W25 MOBIL OIL	WATSON	0000946	92	A	IN
163	02N10W25 MOBIL OIL	WATSON	0000951	106	A	IN
163	02N10W25 MOBIL OIL(PLANT CLOSED)	WATSON	0000939	115	AX	IN
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0404984M11165967		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0404984M11165968		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0405984M11166068		LX	DU
163	02N10W25 MONESNTO CHEM(TEMPORARY)	BARBATO	0414984M11166168		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166268		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166368		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166468		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166568		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166668		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166768		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166868		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166968		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11167068		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11167168		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11167268		LX	DU
163	02N10W25 MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11167368		LX	DU
1632569702N10W25	TWI INC	ST CH DRILL	0702985M11870189		L	CM
163	02N10W25 TWI INC	ST CH DRILL	1217982M10581984		L	CM
163	02N10W255DMOBIL OIL	LUHR	0214961	107	LC	IN
163	02N10W255EMOBIL OIL	LUHR	0000959	114	C	IN
163	02N10W256AMIDWEST RUBBER CO	THORPE	0500951	110	L	CM
163	02N10W256ESOCONY OIL	WATSON	0000943	95	L	IN
163	02N10W257BMONSANTO CHEM		0000920	100	L	IN
163	02N10W257EMOBIL OIL	LUHR	0411957	113	L	IN
163	02N10W257EMOBIL OIL	THORPE	0000951	106	LA	IN
163	02N10W257ESOCONY MOBIL OIL	WATSON	0000955	112	L	IN
163	02N10W26 AM AG CHEM CO	WATSON	000000	102	L	IN
163	02N10W26 LEWIN MATHES	WATSON	0200947	104	L	CM
163	02N10W26 MIDEWST RUBBER CO	THORPE	1200946	111	L	CM
163	02N10W26 MIDWEST RUBBER	WATSON	0321960	113	L	CM
163	02N10W26 MIDWEST RUBBER CO	MORGAN	0000950	106	L	CM
163	02N10W26 MIDWEST RUBBER CO	MORGAN	0000950	114	L	CM
163	02N10W26 MIDWEST RUBBER CO	WATSON	1007959	110	L	CM
163	02N10W261EMONSANTO CHEM		0000947	105	C	IN
163	02N10W261ESTERLING STEEL CASTING		0000942	95	LC	CM
163	02N10W261GMONSANTO CHEM(TEST)	WATSON	0000950	108	LX	IR
163	02N10W261HCWS PLANT US ARMY		0000941	100	LC	CM
163	02N10W261HCWS PLANT US ARMY		0700941	105	L	CM
163	02N10W262DSTERLIHS STEEL CATSING		0000973		C	CM
163	02N10W262EMONSANTO CHEM		0000947	105	C	IN
163	02N10W262EMONSANTO CHEM		0300941	107	LC	IN
163	02N10W262EMONSANTO CHEM	WATSON	0000941	107	L	IN
163	02N10W262HAM ZINC CO(ABANDONED)	WATSON	0000943	107	LX	CM

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163     02N10W263DLEWIN MATHES                                  0000942      110 C   CM
163     02N10W263GMONSANTO CHEM                                 0100942      110 LC  IN
163     02N10W263GMONSANTO CHEM                                 1000939      105 LC  IN
163     02N10W263HAM ZINC CO                    WATSON          0100942      105 LC  CM
163     02N10W264DLEWIN MATHES                  WATSON          0600948      101 L   CM
163     02N10W264EMONSANTO CHEM                                 0000947      109 C   IN
163     02N10W264FMONSANTO CHEM                                 1000939      105 LC  IN
163     02N10W264SMONSANTO CHEM                                 0200943      104 LC  IN
163     02N10W265DCERRO COPPER BRASS            LUHR            0000970      111 CI  CM
163     02N10W265DDARLING CO                                    0000939      70  LC  CM
163     02N10W266BMIDWEST RUBBER CO             THORPE          0300951      112 LC  CM
163     02N10W268ACLAYTON CHEM CO               ST CH DRILL     0225983M10620890 L   CM
163     02N10W268ACLAYTON CHEM CO               ST CH DRILL     0412976M04548078 L   CM
163     02N10W268AMIDWEST RUBBER                LUHR            0906968M00484915 LC  CM
1630137602N10W27  MONSANTO CHEM                 RANNEY          0000952      100 L   IN
163     02N10W27  MONSANTO CHEM                 RANNEY          0801952      99  L   IN
163     02N10W27  MONSANTO CHEM                 RANNEY          0826952      97  L   IN
163     02N10W273EMONSANTO CHEM                 LUHR            0600959      101 L   IN
163     02N10W273HMONSANTO CHEM                 RANNEY          0000952      102 I   IN
163     02N10W306BAP GROCERY                    WATSON          0600946      120 L   CM
163     02N10W331FCARGILL ELEVATOR              WATSON          0600952      105 L   CM
163     02N10W333FMOBIL OIL                     FUESTER         0217984M11117196 L   IN
163     02N10W34  PHILLIPS PETRO                WATSON          0000000      23  L   CM
163     02N10W34  US GOVT                                       0000000          L   RW
163     02N10W342FPHILLIPS PETRO                LAYNE WESTERN   0500978      100 IC  CM
163     02N10W342FPHILLIPS PETRO                RUESTER         0428979M072589102 L  CM
163     02N10W342GPHILLIPS PETRO                                0000943      73  C   CM
163     02N10W345FCORPS OF ENGINEERS                            1015947      102 L   CM
163     02N10W355AUP OIL AND READY CONCRETE     ST CH DRILL     1107977M068630103 L  CM
```

Plotted on
Plate 1F37

322

LOG OF WATER WELL

Property owner American Zinc Co - Monsanto United Engineers + Const. Inc. E. St. Louis Well No. 6

Drilled by H. L. Watson (Laudermilk) Year Nov. 1940

Formations passed through	Thickness	Depth of Bottom
Cinders + Mud	15	15
Fine sand	60	75
good water bearing formation	30	105
Quicksand to soapstone	2	107

Abandoned

[Continue on back if necessary]

Finished in _____ at _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

COUNTY No. 1926

Size hole below casing _____ inch. Static level from surf. 34 ft.

Tested capacity 1500 gal. per min. Temperature _____ °F.

Water lowered to _____ ft. _____ in. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen Cook

Slot 120 Diam. 16 Length 30' Bottom set at _____ ft.

[Show location in Section Plat]

Township name _____ Elev. _____ Sec. 23

Description of location SE, SE Sec 23 Twp. 2N

T 2N, R 10 W Rge. 10 W

Location by Brown Water Dist.

Signed _____ County St. Clair

CLAIR

Copy for Illinois State Geological Survey NO ENVELOPE Index: 23-2N-10W

251

LOG OF WATER WELL

Property owner United Engineers American Zinc Co. Monsanto, Ill. Well No. 7

Drilled by Watson (Moretti + Claridge) Year Jan. 1942

Formations passed through	Thickness	Depth of Bottom
Dirt	5	
Fine sand	45	50
Coarse sand	25	75
gravel	30	105

COUNTY No. 1929

[Continue on back if necessary]

Finished in _____ at _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. 33' 6" ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. _____ in. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen _____

Slot 40+50 Diam. 16" Length 30' Bottom set at _____ ft.

[Show location in Section Plat]

Township name _____ Elev. 404 TOPO Sec. 23

Description of location SE, SE Sec. 23, T 2N, R 10 W Twp. 2N

800' W 90°10' 7000' N 38°35' Rge. 10 W

Location by Brown Water Dist.

Signed _____ County St. Clair

St. CLAIR

Copy for Illinois State Geological Survey NO ENVELOPE Index: 23-2N-10W

11/6, 1F-46

LOG OF WATER WELL

...ng American Zinc Co.
...erty owner Monsanto, Ill. Well No. 8

...ed by H. L. Watson Year Feb. 1946

Formations passed through	Thickness	Depth of Bottom
Jumbo	20	20'
Quick Sand	30	50'
Sand	16	66'
Med. Sand	10	76
No log	26	102
TD=102		

[Continue on back if necessary]

...ished in ____ at ____ to ____ ft.

COUNTY No. 1927

...ed with ____ inch ____ from 0 to ____ ft.

and ____ inch ____ from ____ to ____ ft.

...e hole below casing ____ inch. Static level from surf. ____ ft.

...ted capacity ____ gal. per min. Temperature ____ °F.

...ter lowered to ____ ft. ____ in. in ____ hrs. ____ min.

...ngth of test ____ hrs. ____ min. Screen Cooler

...t ____ Diam. 16 Length 30' Bottom set at ____ ft.

[Show location in Section Plat]

...wnship name ____ Elev. ____ Sec. 23

...scription of location SE, SE Sec. 23 Twp. 2N

T 2N, R 10W 6-28 Rge. 10W

...ocation by Groundwater Div.

...gned ____ County St. Clair

...CLAIR No ENVELOPE 23-2N-10W

...py for Illinois State Geological Survey Index:

LOG OF WATER WELL

Property owner American Zinc Co. Monsanto, Ill. Well No. 9

Drilled by H. L. Watson (G. W. Finke) Year Nov. 1950

Formations passed through	Thickness	Depth of Bottom
Mud	35	35
Sand	45	80
Medium sand	20	100
Sand + coarse gravel	4	104
TD=104'		

[Continue on back if necessary]

Finished in ____ at ____ to ____ ft.

Cased with ____ inch ____ from 0 to ____ ft.

COUNTY No. 1928

and ____ inch ____ from ____ to ____ ft.

Size hole below casing ____ inch. Static level from surf. ____ ft.

Tested capacity ____ gal. per min. Temperature ____ °F.

Water lowered to ____ ft. ____ in. in ____ hrs. ____ min.

Length of test ____ hrs. ____ min. Screen ____

Slot ____ Diam. 40" Length 60' Bottom set at ____ ft.

[Show location in Section Plat]

Township name ____ Elev. ____ Sec. 23

Description of location SW, SE Sec. 23 Twp. 2N

T 2N, R 10W 6-28 Rge. 10W

Location by Groundwater Div.

Signed ____ County St. Clair

CLAIR No ENVELOPE 23-2N-10W

Copy for Illinois State Geological Survey Index:

John C. Moore Corpora... ...hester, N. Y. Binder and holes in leaves, each Patented 1908. 300136

(575—5M—7-23)

TOWNSHIP MAP No. 4W

...ANY Union Electric Light and Power 10W

...300 ft. S. of North property Line

...ORITY 50 ft. E. of Eastern Inner 2 Proj.

...ATION Harbor Line HOLE No. 6 N 23

...ECTOR DATE DRILLED

COUNTY NO. 1732 STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
Water	16		16	
Sand, fine	12		28	
Sand, coarse	10		38	
Sand, very coarse 1/2 in. gravel	10		48	
Sand, coarse	27		75	
Sand, coarse 5% 1/2 in. gravel	4		79	
Sand, coarse 25% 1/2 in. gravel	4		89	
Sand, coarse 40% 3 in. gravel	3		92	
Sand with gravel	12	8	104	8

Minus 76.06 rock

...ty St. Clair

...RILL RECORD Index No. Projected 23-2N-10W

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1908. 300136

(575—5M—7-23)

TOWN Cahokia TOWNSHIP MAP No. 4W

COMPANY Union Electric Light & Power 10W

FARM 100 ft. S. of N. property Line on

AUTHORITY Eastern Inner Harbor Line. 2 Proj.

ELEVATION HOLE No. 7 N 23

COLLECTOR DATE DRILLED

No.	COUNTY NO. 1733 STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Water	35		35	
	Sand, fine	5		40	
	Sand, coarse 5% 2 in. gravel	10		50	
	Sand, coarse 15% 1/8 in. gravel	15		65	
	Sand, coarse 20% 1 1/2 and 10% 1/8 in. gravel	12		77	

563

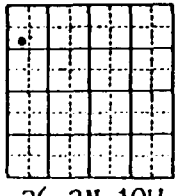
County St. Clair

DRILL RECORD Index No. Projected 23-2N-10W

ILLINOIS GEOLOGICAL SURVEY, URBANA

MIT # NF 08825	Thickness	Top	Bottom
" test hole was first drilled to a epth of 111', then filled in with and and later re-drilled with a igger bit. Both records follow.			
T HOLE			
y		0	11
ty sand brown		12	21
e sand brown		22	30
e sand gray		31	41
ium sand gray		42	51
rse sand gray with pea gravel		52	56
rse sand gray with pea gravel		57	61
rse sand gray with pea gravel		62	86
y coarse sand gray with 3/8" gravel		87	91
y coarse sand gray with ½" gravel		92	96
y coarse sand gray with ½" gravel		97	101
y coarse sand gray with ½" gravel		102	104
y coarse sand gray with ½" gravel		105	111
			TD
L RECORD			
y		0	18
l coarse gray			20
l coarse gray with gravel			25
l fine			30
l coarse gray with gravel			35
l coarse gray with gravel			40
l coarse gray with 1" gravel			45
l coarse gray with 1" gravel		55	60
l coarse gray with 3/4" gravel		65	70

Y Luhr Brothers, Inc.
Cerro Copper & Brass Co. NO. 1
RILLED July 10, 1970 COUNTY NO. 3208
TTY Company
ION
N 1000' N line, 400' W line of NW
ST. CL R



26-2N-10W

	Thickness	Top	Bottom
Sand very coarse gray			75
Sand very coarse gray with cobbles to 5"		80	110½ TD

Well Casing:
- Material - Steel coated with bituminous
- Diameter: 20" outside diameter
- Length - 78.73'
- Wall Thickness - .075

Final Casing Elevation Above Grade: 1'

Size of Drilled Hole:
- 40" to 20'
- 38" to bottom

Well Screen:
- Material - Stainless steel #304
- Diameter - 20" nominal
- Length - 31.82
- Slot Size - .100
- Type Make - UOP Johnson

Depth of Screen set at 110.55'

Gravel Filter:
- Used 23 tons Muscatine, 1/16" - 3/16" No. 3
- Wall Thickness - 8½"
- Feet Above Screen - 26'

Static Level: 23.86'

S.S. # 57106.

Y Luhr Bros., Inc. Cerro Copper & Brass Co 1
ST. CLAIR 26-2N-10W

(2840—50M—12-61)

ILLINOIS GEOLOGICAL SURVEY, URBANA

	Thickness	Top	Bottom
l	1'6"		1'6"
d	34		35'6"
e gravel	6		41'6"
vel & sand	24		65'6"
vel & boulders	13		84'6"
vel	5'6"		90
rse gravel & boulders	18		108

ted 1400 gallons per minute.

er stands 12'6" from surface of ground.

er stands 26'6" when pumping 1400 gallons per minute.

e of well 24".

cubic yards of gravel.

erial used in well:
0' of 38" Pit,
06'8" of 24" which includes 58' of 24" Shutter Screen & 48'4" of 24" Pit.

d of seal used Steel Plug.

'N and 50'E of crossing of Alton & outhern R.R. & Falling Springs Rd.

ANY Layne & Bowler Company
Monsanto Chemical Works NO. 1
DRILLED May 8, 1920 COUNTY NO. 1741
ORITY Layne & Bowler Co.
TION 410' ±
TION *
TY ST. C R

Projected 26-2N-10W

374

LOG OF WATER WELL

Property owner Monsanto Chem. Co. Well No. #1 Test well

Drilled by Layne-Western (F. Sallee) Year Feb. 1948

Formations passed through	Thickness	Depth of Bottom
Soil Fill	1	1
Cinder fill	4	5
Cinders, blue, green clay	5	10
Cinders + fine black sand	5	15
Fine black sand + clay	5	20
" " " , streak med gray sand	5	25
Fine black mucky sand. Hard to get sample	20	45
Med Coarse gray sand	10	55
Coarse gray sand	5	60
Fine, packed gray-brown sand boulders from 67 to 70	14	74
Sand + gravel, packed w/ much fine sand	3	77
Packed sand, gravel + boulders	3	80
Packed sand, gravel + boulders	13	93
Sand + boulders	9	102
(Formation in general is very tight)		TD

[Continue on back if necessary]

Finished in _____ at _____ to _____ ft.

COUNTY No. 1941

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. _____ ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. _____ in. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen _____

Slot _____ Diam. _____ Length _____ Bottom set at _____ ft.

[Show location in Section Plat]

Township name _____ Elev. 410 TOPO

Description of location SW, NE Sec. 26, T 2 N, R 10 W

Sec. 26

Twp. 2 N

Rge. 10 W

Signed _____ County St. Clair

St. CLAIR NO ENVELOPE

Copy for Illinois State Geological Survey Index: 26-21 .0W

(22844—50M—9-55)

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Redish sandy and blue silt		0	15
Grey sand little silt		15	20
Grey sand		20	25
Blue and grey sand		25	30
Fine grey sand		30	35
Fine grey sand and blue silt		35	40
Fine blue and grey sand		40	45
No recovery wash samole. Fine blue and grey sand		40	50
No recovery wash sample. fine blue and grey sand.		50	55
Fine blue sand, No recovery		55	60
Blue sand and wood no recovery		60	65
Grey and blue sand. No recovery		65	70
Fine blue sand. No recovery		70	75
Fine blue sand. No recovery		75	80
Medium blue sand. No recovery		80	85
Mixed grey and blue sand no recovery		85	90
Mixed grey and blue sand. No recovery		90	95
Mixed blue and grey sand. Could not drive sample Barrell. Felt like gravel		95	100
Blue and grey sand. No spoon sample taken.		100	105
Blue and redish sand. no spoon sample taken. Drove casing to 110'4". refusal Set well screen at 108'11". Could not get any deeper as sand was running under casing.		105	110
Total Depth			110'4" TD

Location plat filed.
S.S. # 29900

ANY Wabash Drilling Co.
Monsanto Chemical Co. NO. SR-2
DRILLED November 1956 COUNTY NO. 1987
RITY Wabash Drilling Co.
TION 412.5' refusal (MSL)
ION 680'W of 90° 10'W longitude, 4310'N of 3° 35' north latitude.
Y ST. CL R

Projected 26- 2N-10W

See Jack Bufe (or Kelley) Photo 1F-88

Plotted on Photo

LOG OF WATER WELL

Property owner Monsanto Chem. Co. (Plant "B") Well No. 12

Drilled by H. C. Watson Year

Formations passed through	Thickness	Depth of Bottom
No log	70	
Fine sand	5	75
Coarse sand + gravel	5	80
Coarse sand + gravel	5	85
" " " "	5	90
" " " "	5	95
" " " "	5	100
Sand + gravel	5	105
" " "	5	110
Few boulders	2	112

[Continue on back if necessary]

Finished in at to ft.

COUNTY No. 1944

Cased with inch from 0 to ft.

and inch from to ft.

Size hole below casing inch. Static level from surf. 39'6" ft.

Tested capacity 1250 gal. per min. Temperature °F.

Water lowered to ft. in. in hrs. min.

Length of test hrs. min. Screen Johnson

Slot 60-80-100 Diam. 16 Length 27½' Bottom set at ft.

[Show location in Section Plat]

Township name Elev. Sec. 26

Description of location SE, NE Sec. 26, T2N, R10W Twp. 2N Rge. 10W

Location by Groundwater

Signed County St. Clair

St. CLAIR No ENVELOPE 26-2N 0W

Copy for Illinois State Geological Survey Index:

283

#17

LOG OF WATER WELL

Property owner: Monsanto Chem. Co. Well No. 3

Drilled by: H.C. Watson (Wally) Year: July 1941

Formations passed through	Thickness	Depth of Bottom
Fill	10	10
Sand	8	18
Yellow sand	10	28
Gray sand (getting coarser)	35	63
#30 sand	15	78
#40 gravel	5	83
#50 "	5	88
#60 "	17	105 TD

[Continue on back if necessary]

COUNTY No. 1947

Finished in _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. 30 ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. _____ in. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen Johnson

Slot 40 Diam. 16 Length 30' Bottom set at _____ ft.

[Show location in Section Plat]

Township name _____ Elev. _____ Sec. 26

Description of location SW, NE Sec. 26, T 2 N, R 10 W — Twp. 2 N

Rge. 10 W

Section by Ground Water Div. St. Clair

Signed _____ County _____

E. CLAIR

by for Illinois State Geological Survey No ENVELOPE Index: 26-2N-10W

Plotted on photo

72

377

LOG OF WATER WELL

Property owner: Monsanto Chem. Co. (80'S+E of main entrance gate) Well No. 19 K.W. #2

Drilled by: Layne-Western (F. Sallee) Year: Aug. 1948

Formations passed through	Thickness	Depth of Bottom
Cinder + clay fill	2	2
Brown sand	14	16
Brown + blue clay	2	18
Brown silty sand	27	45
Med. gray sand	5	50
Med. blue clammy gray sand	5	55
Med. coarse sand + gravel, much cotton wood	6	61
Coarse sand + gravel	5	66
Black med sand, some gravel	7	73
Coarse sand + gravel	2	75
Coarse brown sand	5	80
Med. brownish gray sand + bulbs	4	84
Coarse gray sand	6	90
" " " + gravel	18	108

[Continue on back if necessary]

COUNTY No. 1948

Finished in _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. _____ ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. _____ in. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen Shutter

Slot _____ Diam. _____ Length 25 Bottom set at _____ ft.

[Show location in Section Plat]

Township name _____ Elev. _____ Sec. 26

Description of location NE, NE Sec. 26, T 2 N, R 10 W — Twp. 2 N

Rge. 10 W

Signed _____ County St. Clair

E. CLAIR

by for Illinois State Geological Survey No ENVELOPE Index: 26-2N-10W

89

Plotted on Caholia Quad.

LOG OF WATER WELL

...erty owner Midwest Rubber Reclaiming Co. Well No. 2

...led by Thorpe (Morgan) Year ?

Formations passed through	Thickness	Depth of Bottom
...ndy soil	27	27
...iver silt	8	35
...oarse sand + pea gravel	8	43
...t. fine sand + silt	21	64
...ery coarse sand	6	70
...oarse sand, wood, decayed veg., etc.	11	81
...ery coarse sand	5	86
...ery coarse sand + gravel	28	114

[Continue on back if necessary]

...shed in ... to ... ft.

COUNTY No. 1938

...d with ... inch ... from 0 to ... ft.

and ... inch ... from ... to ... ft.

... hole below casing ... inch. Static level from surf. 25'6" ft.

...ted capacity ... gal. per min. Temperature ... °F.

...er lowered to ... ft. ... in. in ... hrs. ... min.

...gth of test ... hrs. ... min. Screen ...

... Diam. ... Length ... Bottom set at ... ft.

[Show location in Section Plat]

...nship name ... Elev. ...

...ription of location ...

Sec. 26

Twp. 2N

Rge. 10W

...ation by Groundwater Div. ...

...ed ... County St. Clair

...CLAIR

...y for Illinois State Geological Survey

NO ENVELOPE

Index: 26-2N-10W

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use Cy #435

LOG OF WATER WELL

See Mr. Luther

Property owner Midwest Rubber Reclaiming Co. Well No. 3

Drilled by Thorpe (Morgan) Year Mar. 1951

Formations passed through	Thickness	Depth of Bottom
Hard fill	3	3
Fine dry sand + silt	34	37
Med. fine sand very dirty	14	51
Med. coarse sand, dirty	11	62
Building sand some fine gravel	9	71
Clean coarse sand	23	94
Coarse sand + boulders	8	102
Med. coarse sand	10	112

[Continue on back if necessary]

Finished in ... to ... ft.

COUNTY No. 1939

Cased with ... inch ... from 0 to ... ft.

and ... inch ... from ... to ... ft.

Size hole below casing ... inch. Static level from surf. 35' Apr. 18 ft.

Tested capacity ... gal. per min. Temperature ... °F.

Water lowered to ... ft. ... in. in ... hrs. ... min.

Length of test ... hrs. ... min. Screen ...

Slot ... Diam. ... Length ... Bottom set at ... ft.

[Show location in Section Plat]

Township name ... Elev. ...

Description of location ...

Sec. 26

Twp. 2N

Rge. 10W

Location by Groundwater Div. ...

Signed ... County St. Clair

St. CLAIR

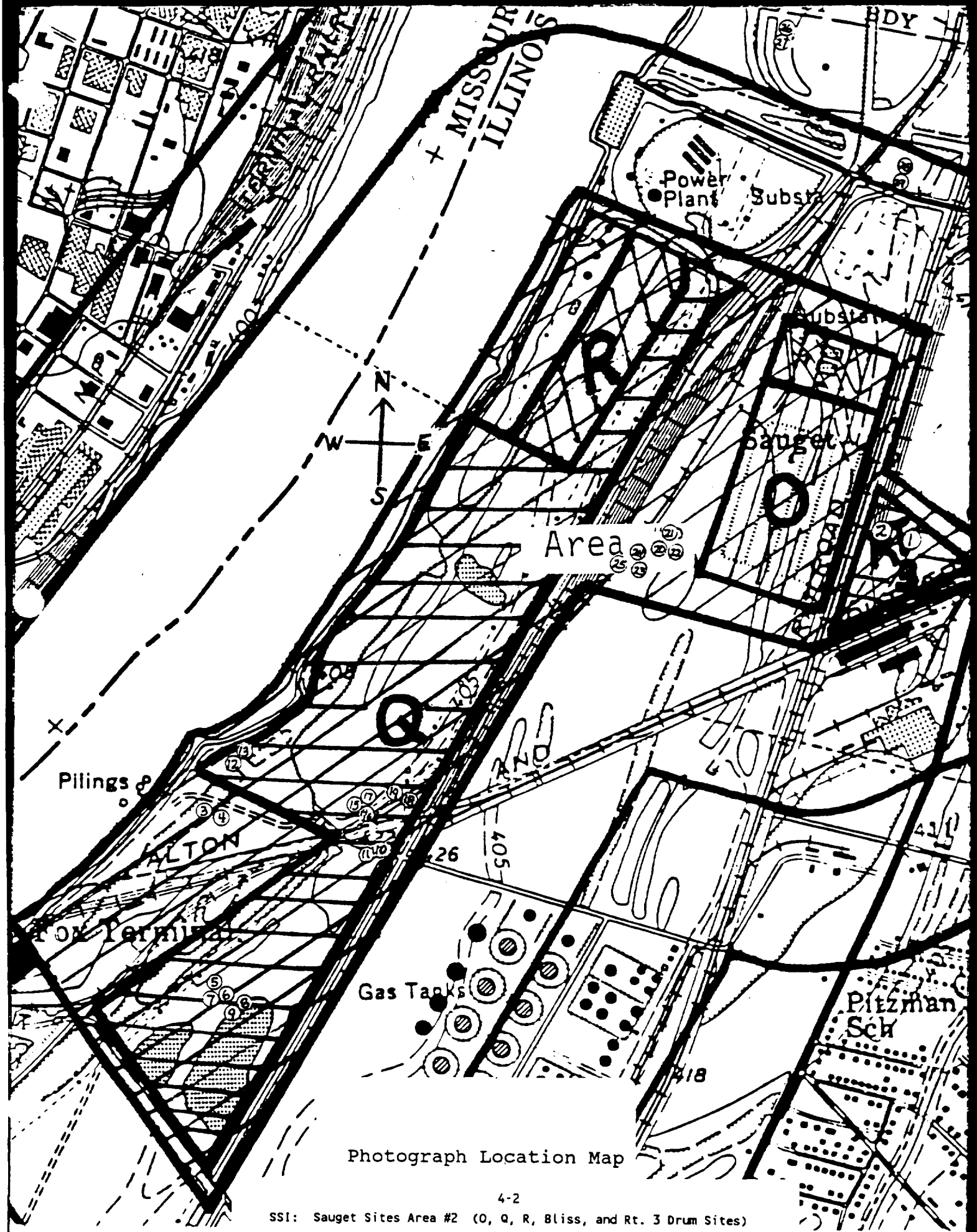
Copy for Illinois State Geological Survey

NO ENVELOPE

Index: 26-2N-10W

APPENDIX F

IEPA SITE PHOTOGRAPHS



Photograph Location Map

SSI: Sauget Sites Area #2 (O, Q, R, Bliss, and Rt. 3 Drum Sites)

DATE: June 26, 1991

TIME: 10:15 AM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 1

LOCATION: Rt. 3 Drum Site, Monsanto Lot F, west of Rt. 3 in Sauget, IL.

PICTURE TAKEN TOWARD: S-SE

COMMENTS: Sample X103 taken 30'8" from NW high-line pole, 40'3" from NW corner of fenced lot.

DATE: June 26, 1991

TIME: 10:15 AM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 2

LOCATION: Rt. 3 Drum Site, Monsanto Lot F, west of Rt. 3 in Sauget, IL.

PICTURE TAKEN TOWARD: S

COMMENTS: Sample X103 location, the auger was angled toward the waste.

DATE: June 26, 1991

TIME: 12:30 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 3

LOCATION: E of Site Q, near the Mississippi R. at Monsanto's Lot G., Sauget, IL.

PICTURE TAKEN TOWARD: NE

COMMENTS: Sample X109 taken 5' E and 255' S of wooden electrical pole by road.

DATE: June 26, 1991

TIME: 5:50 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 4

LOCATION: E of Site Q, near the Mississippi R. at Monsanto's Lot G., Sauget, IL.

PICTURE TAKEN TOWARD: W

COMMENTS: Sample X109 location.

DATE: June 26, 1991

TIME: 2:00 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 5

LOCATION: S part of Site Q, in a wetland area, Cahokia, IL.

PICTURE TAKEN TOWARD: E

COMMENTS: Sample X111 taken from the S side of dirt road near biggest lake, 231' from end of road.

PHOTO #: 6, toward ground.

DATE: June 26, 1991

TIME: 2:00 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 7

LOCATION: S part of Site Q, in a wetland area, Cahokia, IL.

PICTURE TAKEN TOWARD: NE

COMMENTS: Sample X111 location.

DATE: June 26, 1991

TIME: 2:20 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 8

LOCATION: S part of Site Q, in a wetland area, Cahokia, IL.

PICTURE TAKEN TOWARD: SE

COMMENTS: Sample X110 taken at the N end of the big lake, near the W end of an overturned dumpster.

DATE: June 26, 1991

TIME: 2:20 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 9

LOCATION: S part of Site Q, in a wetland area, Cahokia, IL.

PICTURE TAKEN TOWARD: NE

COMMENTS: Sample X110 location.

DATE: June 26, 1991

TIME: 3:20 PM

PHOTOGRAPH TAKEN BY:

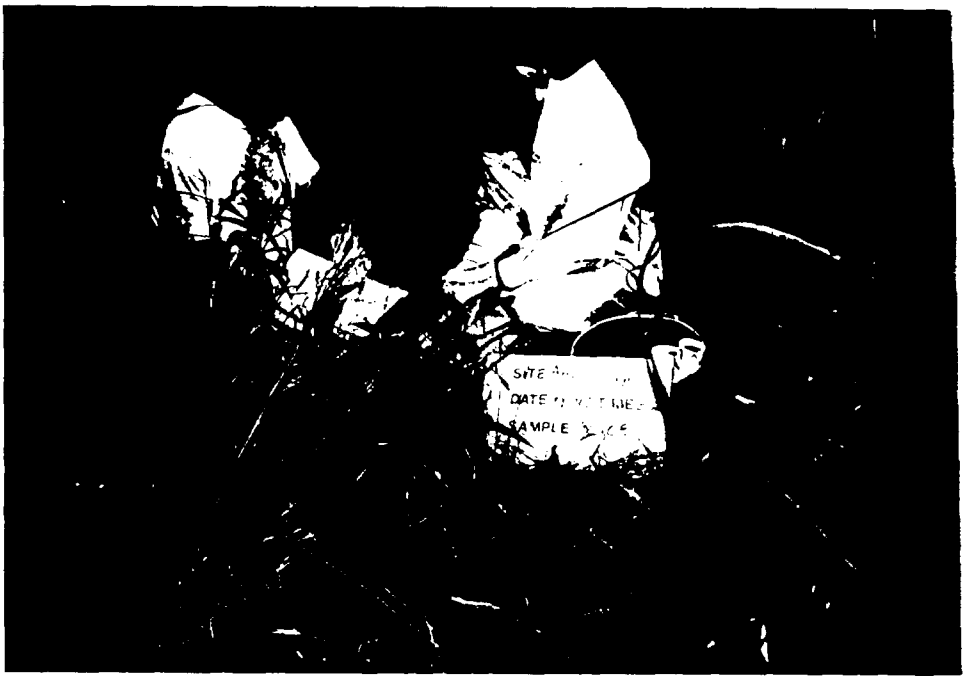
Kim Nika

PHOTOGRAPH NUMBER: 10

LOCATION: Mid-section of Site Q near the border of Sauget and Cahokia, IL.

PICTURE TAKEN TOWARD: W-NW

COMMENTS: Sample X108 was taken under the W high-line wire, perpendicular to the tree lined ditch.



DATE: June 26, 1991

TIME: 3:20 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 11

LOCATION: Mid-section of Site Q near the border of Sauget and Cahokia, IL.

PICTURE TAKEN TOWARD: NW

COMMENTS: Sample X108 location.

DATE: June 26, 1991

TIME: 4:00 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 12

LOCATION: mid part of Site Q, next to Mississippi River, Sauget, IL.

PICTURE TAKEN TOWARD: E

COMMENTS: Sample X107 taken from the end of a pipe which empties into the Mississippi River.

DATE: June 26, 1991

TIME: 4:00 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 13

LOCATION: mid part of Site Q, next to Mississippi River, Sauget, IL.

PICTURE TAKEN TOWARD: S

COMMENTS: Sample X107 location, note oily waste, truck tracks indicate illegal dumping into pipe.

DATE: June 26, 1991

TIME: 4:35 PM

PHOTOGRAPH TAKEN BY:

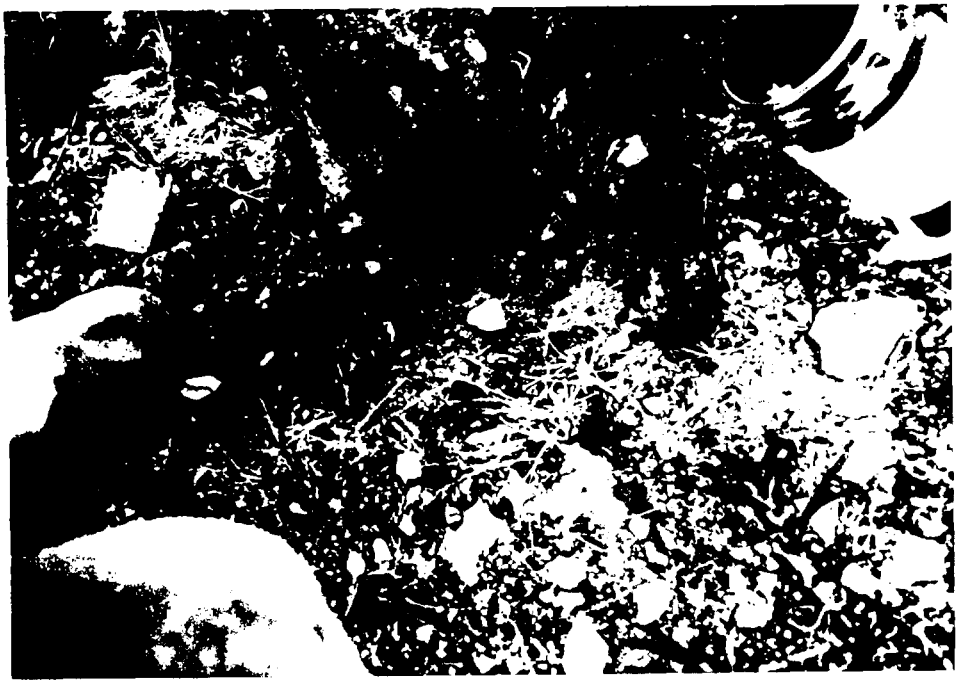
Kim Nika

PHOTOGRAPH NUMBER: 14

LOCATION: mid part of Site Q, in a low laying area, near RR tracks, Sauget, IL

PICTURE TAKEN TOWARD: ground

COMMENTS: Sample X105 taken from an oily out-flow 65' W of the center of tracks.



DATE: June 26, 1991

TIME: 4:35 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 15

LOCATION: mid part of Site Q, in a low laying area, near RR tracks, Sauget, IL

PICTURE TAKEN TOWARD: S-SE

COMMENTS: Sample X105 location.

DATE: June 26, 1991

TIME: 4:35 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 16

LOCATION: mid part of Site Q, in a low laying area, near RR tracks, Sauget, IL

PICTURE TAKEN TOWARD: ground

COMMENTS: Sample X105 oily waste.

DATE: June 26, 1991

TIME: 2:00 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 17

LOCATION: mid part of Site Q, in a low laying area, near RR tracks, Sauget, IL

PICTURE TAKEN TOWARD: SE

COMMENTS: Sample X105 location.

DATE: June 26, 1991

TIME: 5:00 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 18

LOCATION: mid part of Site Q, in a wetland area, near RR tracks, Sauget, IL

PICTURE TAKEN TOWARD: W

COMMENTS: Sample X106 looks like a dried out oily waste, 115' E of E RR track.

DATE: June 26, 1991

TIME: 5:00 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 19

LOCATION: mid part of Site Q, in a wetland area, near RR tracks, Sauget, IL

PICTURE TAKEN TOWARD: SE

COMMENTS: Sample X106 location.

DATE: June 26, 1991

TIME: 5:50 PM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 20

LOCATION: Near Site O, between American Bottoms WWTP and Clayton Chemical Sauget, IL.

PICTURE TAKEN TOWARD: N

COMMENTS: Sample X102 taken 28'10" S of Clayton Chem. fence in dead spot.

PHOTO #: 21, toward ground.

DATE: June 26, 1991

TIME: 5:50 PM

PHOTOGRAPH TAKEN BY:

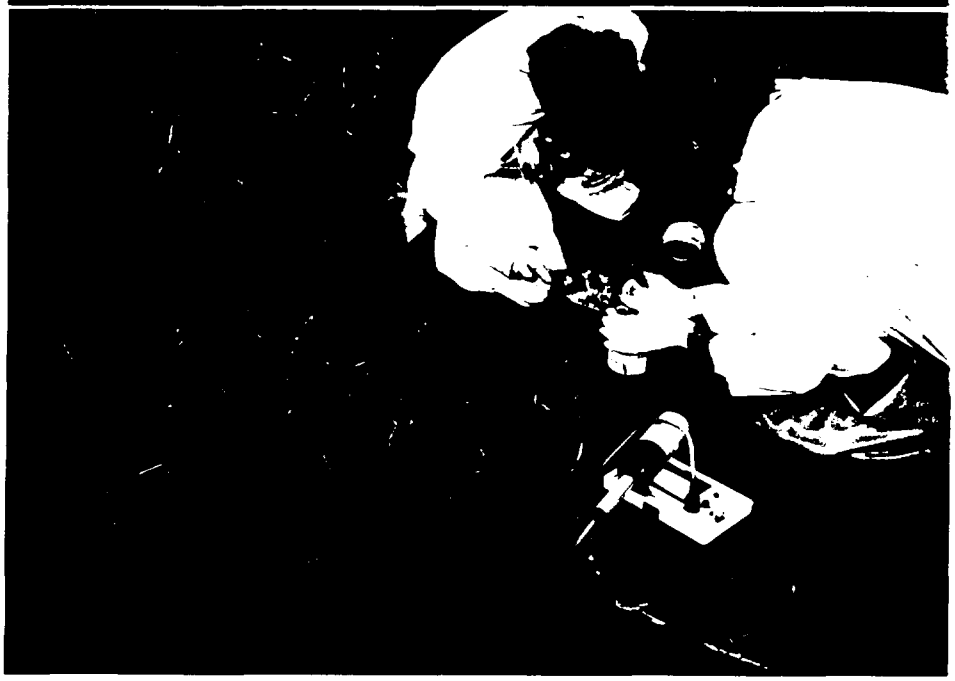
Kim Nika

PHOTOGRAPH NUMBER: 22

LOCATION: Near Site O, between American Bottoms WWTP and Clayton Chemical Sauget, IL.

PICTURE TAKEN TOWARD: N

COMMENTS: Sample X102 location.



DATE: June 26, 1991

TIME: 6:15 PM

PHOTOGRAPH TAKEN BY: Nika

PHOTOGRAPH NUMBER: 23

LOCATION: Near Site O, between American Bottoms WWTP and Clayton Chemical Sauget, IL.

PICTURE TAKEN TOWARD: NW

COMMENTS: Sample X104 taken from an old N to S mounded row of dirt, SW of X102 and 290' S of Clayton's S boundary fence. PHOTO #: 24, N toward Clayton Chem.

DATE: June 26, 1991

TIME: 6:15 AM

PHOTOGRAPH TAKEN BY: Nika

PHOTOGRAPH NUMBER: 25

LOCATION: Near Site O, between American Bottoms WWTP and Clayton Chemical Sauget, IL.

PICTURE TAKEN TOWARD: W

COMMENTS: Sample X104 location, note Arch and old Union Elec. stacks.

DATE: June 27, 1991

TIME: 10:10 AM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 26

LOCATION: N of Site R near Mt. St. Sauget (large slag pile), Sauget, IL.

PICTURE TAKEN TOWARD: E-SE

COMMENTS: Sample X112 is taken in the woods approx. 600' S of Mt. St. Sauget, about 150' from dirt road.

DATE: June 27, 1991

TIME: 10:10 AM

PHOTOGRAPH TAKEN BY: 27

Kim Nika

PHOTOGRAPH NUMBER:

LOCATION: N of Site R near Mt. St. Sauget (large slag pile), Sauget, IL.

PICTURE TAKEN TOWARD: E

COMMENTS: Sample X112 location.

DATE: June 27, 1991

TIME: 11:25 AM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 28

LOCATION: PT's Show Club

Monsanto Ave., Sauget, IL.

PICTURE TAKEN TOWARD: E

COMMENTS: The spigot on

the S. side of PT's Show

Club where sample G201 was

collected.

DATE: June 27, 1991

TIME: 11:25 AM

PHOTOGRAPH TAKEN BY:

Kim Nika

PHOTOGRAPH NUMBER: 29

LOCATION: PT's Show Club

parking lot, Monsanto

Ave., Sauget, IL

PICTURE TAKEN TOWARD: E

COMMENTS: Sample G201

location.