154082

Volume 2
Sauget Area 2
Data Tables/Maps

ARCS Contract No. 68-W8-0086
Work Assignment No. 47-5N60

February 1998

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 5
Office of Superfund
77 West Jackson Boulevard
Chicago, Illinois 60604

© 1998 Ecology and Environment, Inc.

ecology and environment, inc.
International Specialists in the Environment

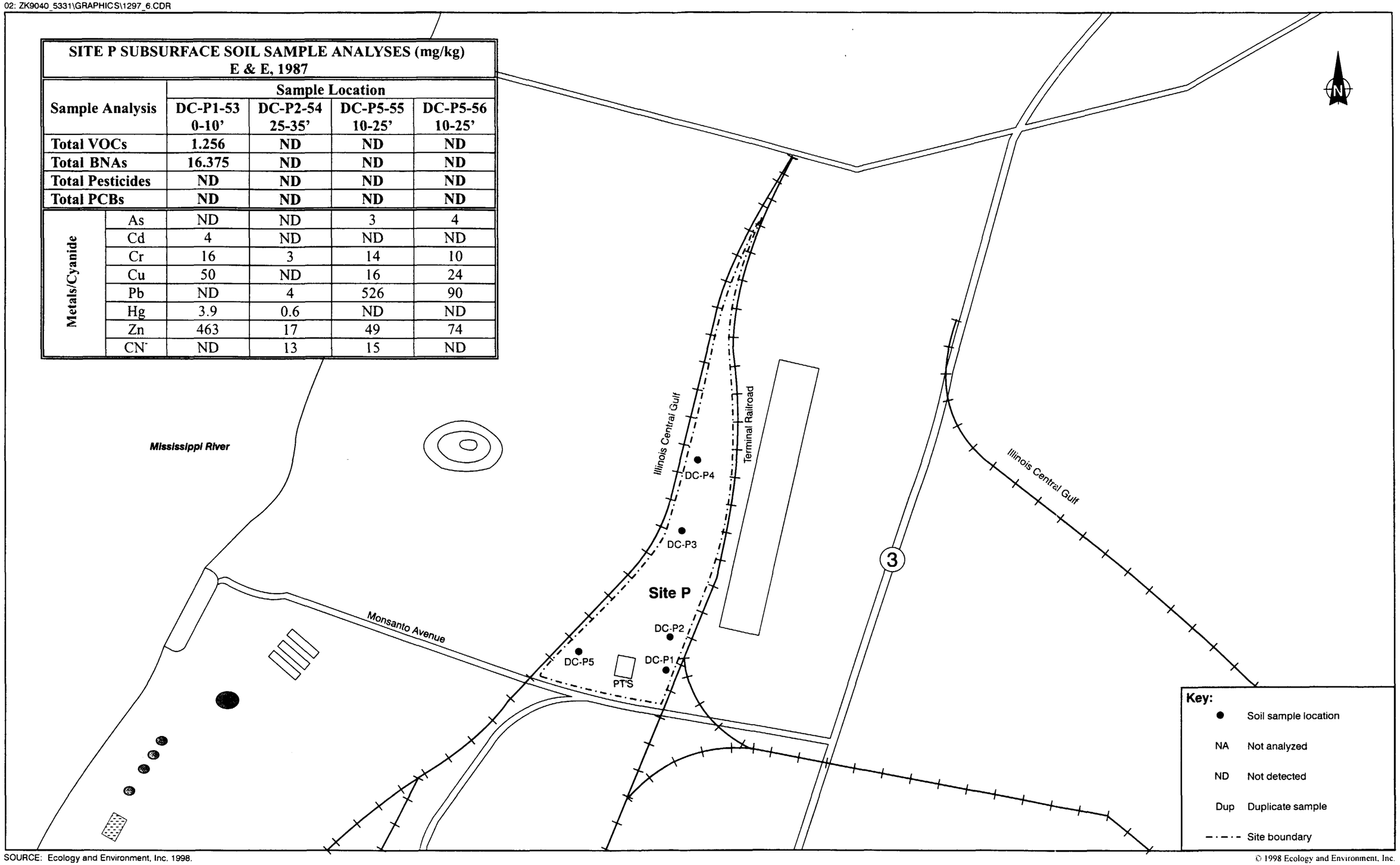
33 North Dearborn Street, Chicago, Illinois 60602
Tel. 312/578-9243, Fax: 312/578-9345

recycled paper

Site P

02: ZK9040_5331\GRAPHICS\1297_6.CDR

SITE P SUBSURFACE SOIL SAMPLE ANALYSES (mg/kg) E & E, 1987					
Sample Analysis		Sample Location			
		DC-P1-53 0-10'	DC-P2-54 25-35'	DC-P5-55 10-25'	DC-P5-56 10-25'
Total VOCs		**1.256**	**ND**	**ND**	**ND**
Total BNAs		**16.375**	**ND**	**ND**	**ND**
Total Pesticides		**ND**	**ND**	**ND**	**ND**
Total PCBs		**ND**	**ND**	**ND**	**ND**
Metals/Cyanide	As	ND	ND	3	4
	Cd	4	ND	ND	ND
	Cr	16	3	14	10
	Cu	50	ND	16	24
	Pb	ND	4	526	90
	Hg	3.9	0.6	ND	ND
	Zn	463	17	49	74
	CN^-	ND	13	15	ND



SOURCE: Ecology and Environment, Inc. 1998.

© 1998 Ecology and Environment, Inc.

APPROXIMATE SCALE

0 ¼ ½ Mile

SAUGET AREA 2
SITE P
SAMPLING LOCATIONS/DATA

SITE NARRATIVE

SITE P

recycled paper

SITE NARRATIVE - SAUGET AREA 2 / Site P

Sample Locations	Sampling Entity	Date Sampled	Data Source
DC-P1 thru DC-P5	E & E	2/87	"Expanded Site Investigation Dead Creek Project Sites" prepared for IEPA by Ecology and Environment, Inc., May 1988

Nature and Extent of Contamination:

VOCs were detected at a concentration of 1.3 mg/kg in 1 of the 4 subsurface soil samplescollected at Site P. BNAs were detected at 16.4 mg/kg in 1 of the 4 samples, and pesticides and PCBs were not detected in any of the four samples collected. Metals, particularly Pb and Hg were elevated in a few of the samples collected. The organic contaminants were all detected in a the sample collected from boring P-1 at the south end of the site from a depth of 0 to 10 feet BGS.

The extent of contamination is not very well defined for Site P given that onl four subsurface soil samples were collected from three boring locations across the site. Although, the contaminantion detected does appear to be present at low levels.

Containment and Integrity (if known):

There is no known containment for Site P other than the landfill cover materials which may be in place. The surface of the site is covered primarily with cinders and slag, and erosion is evident along the site perimeter. A business and parking lot is located on the southern portion of Site P and access to this site is unrestricted.

Other Comments: See the attached "Site Description" for more site details.

ecology and environment

SITE DESCRIPTION - Sauget Area 2/Site P

Site P is an inactive, IEPA-permitted landfill encompassing approximately 20 acres in the northern portion of the Sauget Area 2 sites. The site is bordered on the west by the Illinois Central Gulf Railroad, on the south by Monsanto Ave., and on the east by the Terminal Railroad. The two railroads converge to form the north end of the site. The site has steep slopes along the sides of the landfill, and access to the site is unrestricted. The following is a chronology of events for site P as discovered in the file information search:

1972

Sauget and Company entered into a lease agreement with Union Electric Company of St. Louis to operate a waste disposal facility.

January 1973

IEPA issues a permit to Sauget and Company to operate a landfill at Site P. The permitonly allowed non-chemical waste from Monsanto.

1974

Sauget and Company applied for and were granted a supplement permit for Site P. Thesupplement permit allowed the landfill to accept general waste and diatomaceous earth filter cake from Edwin Cooper (AKA the Ethyl Corporation). Routine IEPA inspections began at the facility.

October 1975

An IEPA inspector observed a small amount of yellowish tar-like liquid in an area next to drums labeled "Monsanto ACL-85, Chlorine Composition". Both Monsanto and Sauget and Company were notified of the violation and the issue wasthen "dropped".

December 1977

An IEPA inspection indicated the disposal of 25 barrels of phosphorus pentasulfide. Monsanto was required to remove this waste from the site.

1978-1979

IEPA inspections revealed unpermitted disposal of Monsanto ACL filter residues and packaging.

December 1981

IEPA issued a supplemental permit to Sauget and Company after a water line was discovered in the middle of the southern portion of the site.

February 1987

Four subsurface soil samples were taken at five boring locations onsite.

(Note: All information above was excerpted from a document with the heading of "Background" which was taken off microfiche from the IEPA file records)

Site P Data

SAUGET Analytical Data
Site P

SUBSURFACE SOIL SAMPLES
Volatile Organic Compounds (µg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC-P1-53	DC-P2-54	DC-P5-55	DC-P5-56	Maximum
	Sample Depth (ft)	0-10	25-35	10-25	10-25	Concentration
	Date Collected	2/11/87	2/11/87	2/12/87	2/12/87	Detected
VOC						
Chloromethane		ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND
Vinyl chloride		ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND
Methylene chloride		18 B	5 BJ	2 BJ	5 BJ	18 B
Acetone		1025 BE	1036 BE	333 BE	413 BE	1036 BE
Carbon Disulfide		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		ND	ND	ND	ND	ND
Chloroform		13	ND	ND	ND	13
1,2-Dichloroethane		ND	ND	ND	ND	ND
2-Butanone (MEK)		188 B	76 B	22 B	26 B	188 B
1,1,1-Trichloroethane		ND	ND	ND	ND	ND
Carbon Tetrachloride		ND	ND	ND	ND	ND
Vinyl Acetate		ND	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND
Trichloroethene		ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND
Benzene		49	ND	ND	ND	49
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether		ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND
4-Methyl-2-pentanone		49	29 B	ND	ND	49
2-Hexanone		38	2 BJ	ND	ND	38
Tetrachloroethene		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND
Toluene		413	ND	ND	ND	413
Chlorobenzene		138	ND	ND	ND	138
Ethylbenzene		119	ND	ND	ND	119
Styrene		ND	ND	ND	ND	ND
Total Xylenes		450	ND	ND	ND	450

µg/kg - Micrograms per kilogram.
B - Compound detected in blank sample.
E - Estimated value. Concentration detected exceeds the calibrated range.
J - Estimated value.
ND - Not detected.

recycled paper
ecology and environment

SAUGET Analytical Data
Site P

SUBSURFACE SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC-P1-53	DC-P2-54	DC-P5-55	DC-P5-56	Maximum
	Sample Depth (ft)	0-10	25-35	10-25	10-25	Concentration
	Date Collected	02/11/87	02/11/87	02/12/87	02/12/87	Detected
BNAs						
Phenol		3875 J	ND	ND	ND	3875 J
bis(2-Chloroethyl)ether		ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND
1,4-Dichlorobenzene		8875 J	ND	ND	ND	8875 J
Benzyl Alcohol		ND	ND	ND	ND	ND
1,2-Dichlorobenzene		3625 J	ND	ND	ND	3625 J
2-Methylphenol		ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether		ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	ND	ND	ND
N-Nitroso-n-Dipropylamine		ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND
Benzoic Acid		ND	ND	ND	ND	ND
bis-(2-Chloroethoxy)methane		ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND
1,2,4-Trichlorophenol		ND	ND	ND	ND	ND
Naphthalene		ND	ND	ND	ND	ND
4-Chloroaniline		ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND
2-Methylnaphathalene		ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND	ND
Dimethyl Phthalate		ND	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	ND
3-Nitroaniline		ND	ND	ND	ND	ND
Acenaphthene		ND	ND	ND	ND	ND

µg/kg - Micrograms per kilogram.
J - Estimated value.
ND - Not detected.

SAUGET Analytical Data
Site P

SUBSURFACE SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC-P1-53	DC-P2-54	DC-P5-55	DC-P5-56	Maximum
	Sample Depth (ft)	0-10	25-35	10-25	10-25	Concentration
	Date Collected	02/11/87	02/11/87	02/12/87	02/12/87	Detected
BNAs						
2,4-Dinitrophenol		ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND
Diethylphthalate		ND	ND	ND	ND	ND
4-Chlorophenyl-Phenylether		ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND	ND
4-Bromophenyl-phenylether		ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND
Pentachlorophenol		ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	ND
Di-n-butly phthalate		16250 J	155 J	63 J	325 J	16250 J
Fluoranthene		ND	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND	ND
Butyl Benzyl phthalate		ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND
Benzo (a)anthracene		ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate		ND	ND	ND	225 J	225 J
Chrysene		ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND
Benzo (a)pyrene		ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND	ND

µg/kg - Micrograms per kilogram.
J - Estimated value.
ND - Not detected.

recycled paper
ecology and environment

SAUGET Analytical Data
Site P

SUBSURFACE SOIL SAMPLES
Pesticides/PCBs (µg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC-P1-53	DC-P2-54	DC-P5-55	DC-P5-56	Maximum
	Sample Depth (ft)	0-10	25-35	10-25	10-25	Concentration
	Date Collected	2/11/87	2/11/87	2/12/87	2/12/87	Detected
Pesticides/PCBs						
Alpha-BHC		ND	ND	ND	ND	ND
Beta-BHC		ND	ND	ND	ND	ND
Delta-BHC		ND	ND	ND	ND	ND
Gamma-BHC (Lindane)		ND	ND	ND	ND	ND
Heptachlor		ND	ND	ND	ND	ND
Aldrin		ND	ND	ND	ND	ND
Heptachlor Epoxide		ND	ND	ND	ND	ND
Endosulfan I		ND	ND	ND	ND	ND
Dieldrin		ND	ND	ND	ND	ND
4,4'-DDE		ND	ND	ND	ND	ND
Endrin		ND	ND	ND	ND	ND
Endosulfan II		ND	ND	ND	ND	ND
4,4'-DDD		ND	ND	ND	ND	ND
Endosulfan sulfate		ND	ND	ND	ND	ND
4,4'-DDT		ND	ND	ND	ND	ND
Methoxychlor		ND	ND	ND	ND	ND
Endrin Ketone		ND	ND	ND	ND	ND
Chlordane		ND	ND	ND	ND	ND
Toxaphene		ND	ND	ND	ND	ND
Aroclor-1016		ND	ND	ND	ND	ND
Aroclor-1221		ND	ND	ND	ND	ND
Aroclor-1232		ND	ND	ND	ND	ND
Aroclor-1242		ND	ND	ND	ND	ND
Aroclor-1248		ND	ND	ND	ND	ND
Aroclor-1254		ND	ND	ND	ND	ND
Aroclor-1260		ND	ND	ND	ND	ND

µg/kg - Micrograms per kilogram.
ND - Not detected.

SAUGET Analytical Data
Site P

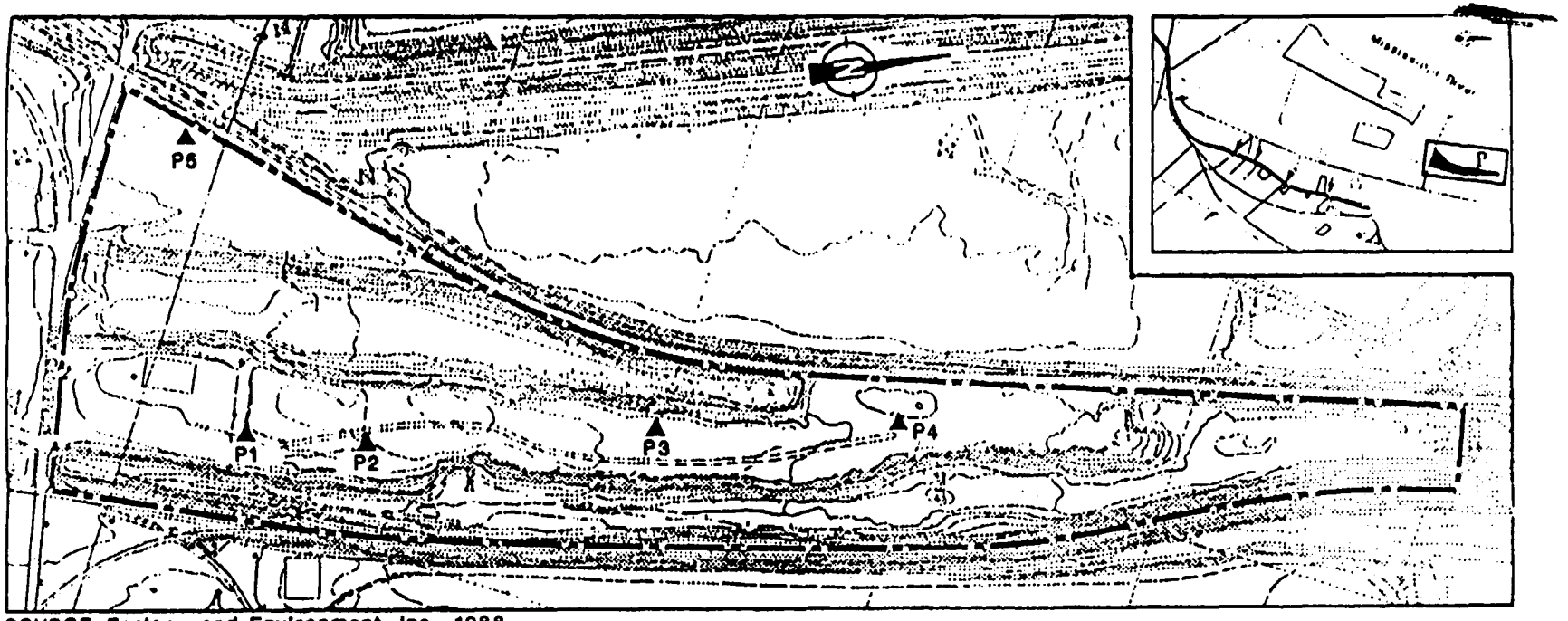
SUBSURFACE SOIL SAMPLES
Total Metals (mg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC-P1-53	DC-P2-54	DC-P5-55	DC-P5-56	Maximum
	Sample Depth (ft)	0-10	25-35	10-25	10-25	Concentration
	Date Collected	02/11/87	02/11/87	02/12/87	02/12/87	Detected
Total Metals						
Aluminum		**5013**	**1274**	**6136**	**5538**	**6136**
Antimony		ND	ND	ND	ND	ND
Arsenic		ND	ND	**3 R**	**4 R**	**4 R**
Barium		**126**	ND	**81**	**119**	**126**
Beryllium		ND	ND	ND	ND	ND
Boron		ND	ND	ND	ND	ND
Cadmium		**4**	ND	ND	ND	**4**
Chromium		**16**	**3**	**14**	**10**	**16**
Cobalt		*ND*	*ND*	*ND*	*ND*	*ND*
Copper		**50**	ND	**16**	**24**	**50**
Iron		**12750**	**4131**	**15309**	**13000**	**15309**
Lead		ND	**4 ***	**526 ***	**90 ***	**526 ***
Manganese		**201 ***	**93 ***	**623 ***	**710 ***	**710 ***
Mercury		**3.9**	**0.6**	ND	ND	**3.9**
Nickel		**25 ***	ND	**15 ***	**23 ***	**25 ***
Selenium		ND	ND	ND	ND	ND
Silver		ND	ND	ND	ND	ND
Thallium		ND	ND	ND	ND	ND
Tin		ND	ND	ND	ND	ND
Vanadium		**19**	ND	**22**	**16**	**22**
Zinc		**463 ***	**17 ***	**49 ***	**74 ***	**463 ***
Cyanide		*ND*	**13**	**15**	*ND*	**15**

mg/kg - Milligrams per kilogram.
ND - Not detected.
R - Spike sample recovery not within control limits.
* - Duplicate analysis not within control limits.

recycled paper
ecology and environment

DRAFT



SOURCE: Ecology and Environment, Inc., 1988.

SCALE
0 200 400 600 800 1000 FEET

FIGURE 3-12 BORING LOCATIONS AT SITE P

recycled paper

ecology and environment

SDMS US EPA REGION V
FORMAT- OVERSIZED - 5
IMAGERY INSERT FORM

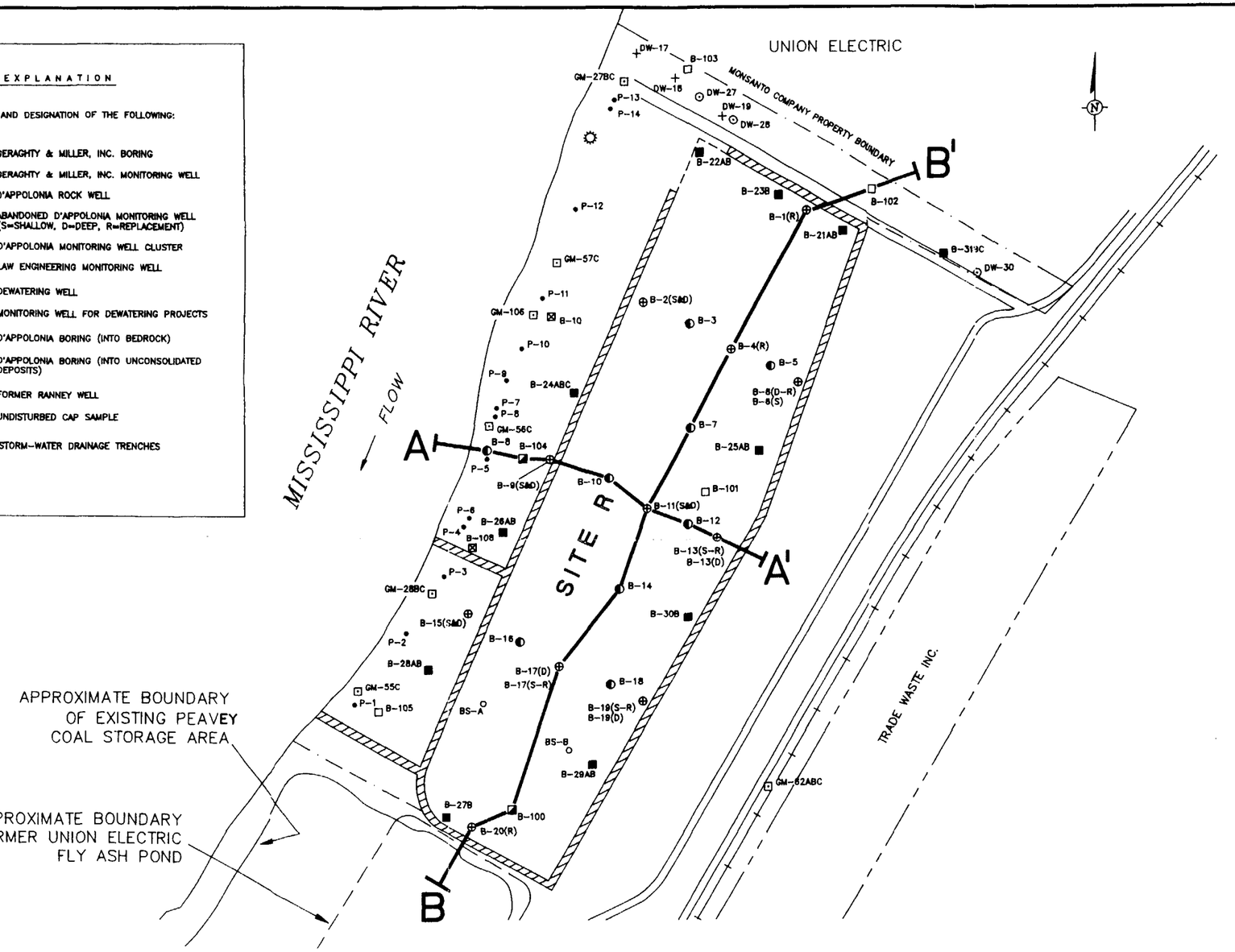
The item(s) listed below are not available in SDMS. In order to view original document or document pages, contact the Superfund Records Center.

SITE NAME	SAUGET (NFRC)		
DOC ID #	154082		
DESCRIPTION OF ITEM(S)	• SAUGET AREA 2 - SITE O, Q, R, SAMPLING/LOCATIONS/DATA • AREA 2 GROUNDWATER SAMPLING/LOCATIONS DATA		
REASON WHY UNSCANNABLE	X OVERSIZED	OR	__ FORMAT
DATE OF ITEM(S)	UNKNOWN		
NO. OF ITEMS	2		
PHASE	REM-1		
PRP			
PHASE (AR DOCUMENTS ONLY)	___ Remedial ___ Removal ___ Deletion Docket ___ AR ___ Original ___ Update # ___ Volume ___ of ___		
COMMENT(S)			
PARTIAL COPY OF SITE OVERSIZED SITE MAPS			

EXPLANATION

LOCATION AND DESIGNATION OF THE FOLLOWING:

⊠ B-10	GERAGHTY & MILLER, INC. BORING
⊡ GM-55C	GERAGHTY & MILLER, INC. MONITORING WELL
□ B-105	D'APPOLONIA ROCK WELL
⊕ B-15(S&D)	ABANDONED D'APPOLONIA MONITORING WELL (S=SHALLOW, D=DEEP, R=REPLACEMENT)
■ B-28AB	D'APPOLONIA MONITORING WELL CLUSTER
• P-10	LAW ENGINEERING MONITORING WELL
+ DW-17	DEWATERING WELL
⊙ DW-31	MONITORING WELL FOR DEWATERING PROJECTS
◪ B-100	D'APPOLONIA BORING (INTO BEDROCK)
◐ B-8	D'APPOLONIA BORING (INTO UNCONSOLIDATED DEPOSITS)
☼	FORMER RANNEY WELL
○ BS-A	UNDISTURBED CAP SAMPLE
▨	STORM-WATER DRAINAGE TRENCHES



GERAGHTY & MILLER, INC.
Environmental Services

DRAWING CONFIDENTIAL: THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS AND SHALL REMAIN THE PROPERTY OF GERAGHTY & MILLER, INC. AS AN INSTRUMENT OF PROFESSIONAL SERVICE. THIS INFORMATION SHALL NOT BE USED IN WHOLE OR IN PART WITHOUT THE FULL KNOWLEDGE AND PRIOR WRITTEN CONSENT OF GERAGHTY & MILLER, INC.

SCALE VERIFICATION
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:
USE TO VERIFY FIGURE REPRODUCTION SCALE

PROJECT NO.: NY84211	FILE NO: 1558
DRAWING: LANDLF3E	PLOT SIZE: 1=200
DRAFTED BY: V.C.	DATE: 11/8/92
CHECKED BY: L.M.	DATE:
APPROVED BY: L.M.	DATE:

WELLS, BORINGS, AND SAMPLING LOCATIONS FROM PRE-RI/FS INVESTIGATIONS AND LINES OF CROSS SECTION, SAUGET SITE R

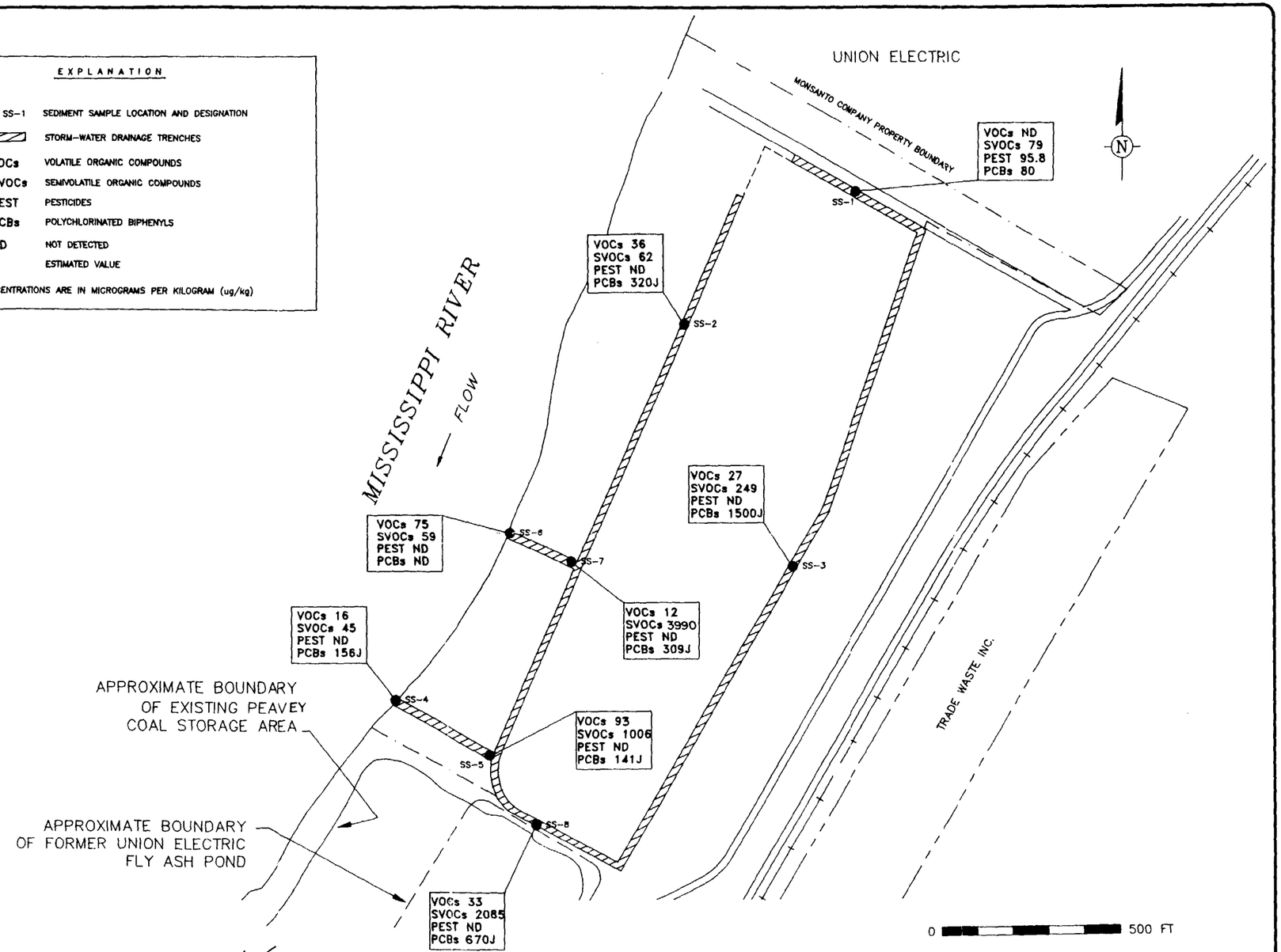
MONSANTO COMPANY
SAUGET, ILLINOIS

FIGURE
1-2

EXPLANATION

- ● SS-1 SEDIMENT SAMPLE LOCATION AND DESIGNATION
- ▨ STORM-WATER DRAINAGE TRENCHES
- VOCs VOLATILE ORGANIC COMPOUNDS
- SVOCs SEMIVOLATILE ORGANIC COMPOUNDS
- PEST PESTICIDES
- PCBs POLYCHLORINATED BIPHENYLS
- ND NOT DETECTED
- J ESTIMATED VALUE

CONCENTRATIONS ARE IN MICROGRAMS PER KILOGRAM (ug/kg)



GERAGHTY & MILLER, INC.
Environmental Services

DRAWING CONFIDENTIAL: THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS AND SHALL REMAIN THE PROPERTY OF GERAGHTY & MILLER, INC. AS AN INSTRUMENT OF PROFESSIONAL SERVICE. THIS INFORMATION SHALL NOT BE USED IN WHOLE OR IN PART WITHOUT THE FULL KNOWLEDGE AND PRIOR WRITTEN CONSENT OF GERAGHTY & MILLER, INC.

SCALE VERIFICATION
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:
USE TO VERIFY FIGURE REPRODUCTION SCALE

PROJECT NO.: NY84211	FILE NO: 1558
DRAWING: TARG-SS	PLOT SIZE: 1"=200'
DRAFTED BY: V. CARUNCHO	DATE: 11/12/92
CHECKED BY: L. MUSIKER	DATE:
APPROVED BY: D. COLTON	DATE:

CONCENTRATIONS OF TARGET COMPOUND LIST ORGANIC COMPOUNDS IN SEDIMENT SAMPLES, SAUGET SITE R

MONSANTO COMPANY
SAUGET, ILLINOIS

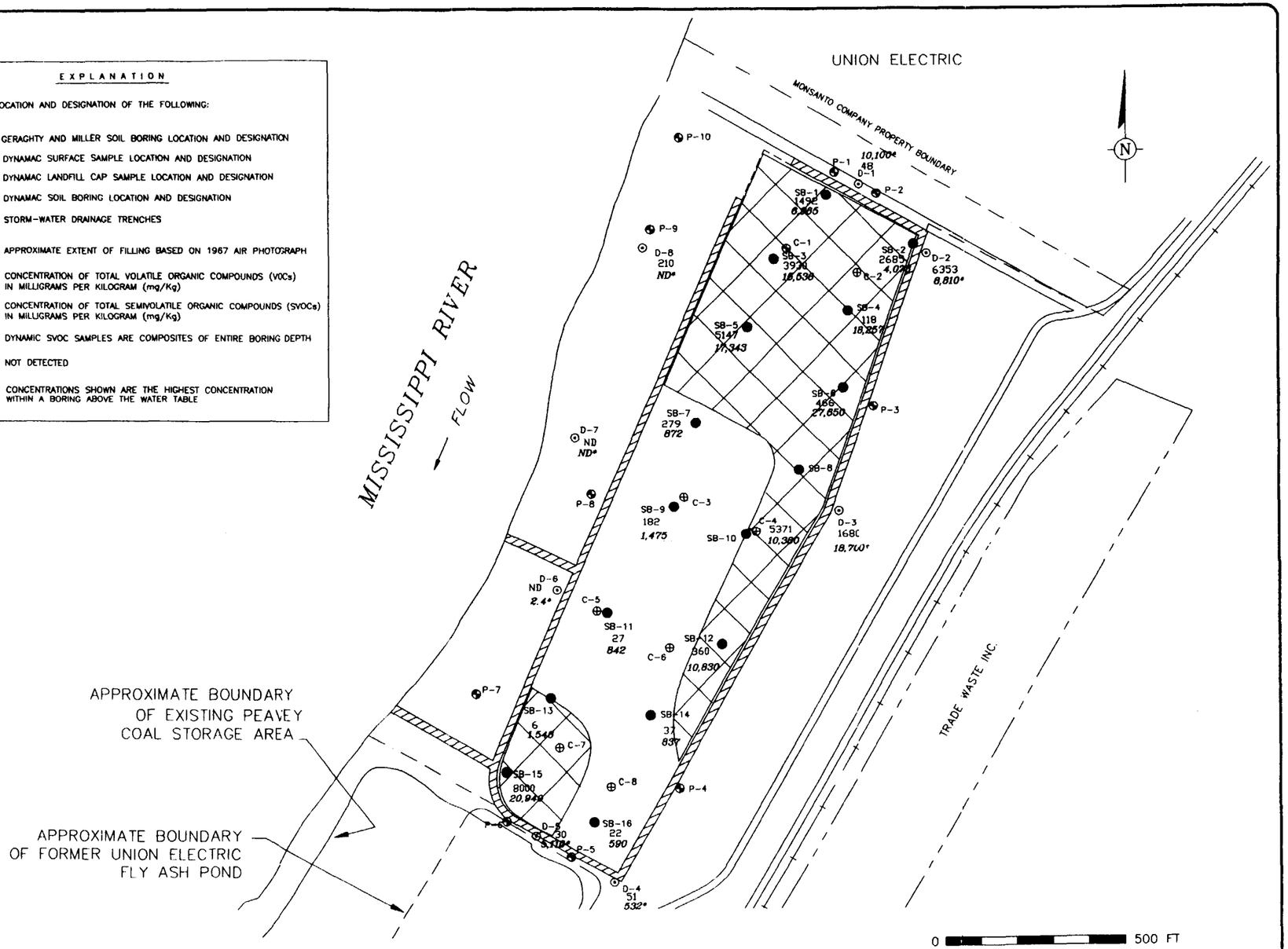
FIGURE
5-1

EXPLANATION

LOCATION AND DESIGNATION OF THE FOLLOWING:

● SB-1	GERAGHTY AND MILLER SOIL BORING LOCATION AND DESIGNATION
⊕ P-6	DYNAMAC SURFACE SAMPLE LOCATION AND DESIGNATION
⊕ C-1	DYNAMAC LANDFILL CAP SAMPLE LOCATION AND DESIGNATION
⊙ D-4	DYNAMAC SOIL BORING LOCATION AND DESIGNATION
▨	STORM-WATER DRAINAGE TRENCHES
▨	APPROXIMATE EXTENT OF FILLING BASED ON 1967 AIR PHOTOGRAPH
360	CONCENTRATION OF TOTAL VOLATILE ORGANIC COMPOUNDS (VOCs) IN MILLIGRAMS PER KILOGRAM (mg/Kg)
10,830	CONCENTRATION OF TOTAL SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs) IN MILLIGRAMS PER KILOGRAM (mg/Kg)
*	DYNAMIC SVOC SAMPLES ARE COMPOSITES OF ENTIRE BORING DEPTH
ND	NOT DETECTED

NOTE: CONCENTRATIONS SHOWN ARE THE HIGHEST CONCENTRATION WITHIN A BORING ABOVE THE WATER TABLE



GERAGHTY & MILLER, INC.
Environmental Services
CONSULTANTS DIVISION

DRAWING CONFIDENTIAL: THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS AND SHALL REMAIN THE PROPERTY OF GERAGHTY & MILLER, INC. AS AN INSTRUMENT OF PROFESSIONAL SERVICE. THIS INFORMATION SHALL NOT BE USED IN WHOLE OR IN PART WITHOUT THE FULL KNOWLEDGE AND PRIOR WRITTEN CONSENT OF GERAGHTY & MILLER, INC.

SCALE VERIFICATION
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:
USE TO VERIFY FIGURE REPRODUCTION SCALE

PROJECT NO.: NY84211	FILE NO: 1558
DRAWING: REMBOR5.3	PLOT SIZE: 1"=200'
DRAFTED BY: V.C./G.S.	DATE: 8-8-94
CHECKED BY: L. MUSIKER	DATE:
APPROVED BY: D. COLTON	DATE:

REMEDIAL INVESTIGATION SOIL SAMPLING LOCATIONS, SAUGET SITE R

MONSANTO COMPANY
SAUGET, ILLINOIS

FIGURE
5-4

SCANNED
MM

SITE NARRATIVE

SITE O

SITE NARRATIVE - SAUGET AREA 2 / Site O

Sample Locations	Sampling Entity	Date Sampled	Data Source
DC-01 thru DC-10	E & E	2/87	"Expanded Site Investigation Dead Creek Project Sites" prepared for IEPA by Ecology and Environment, Inc., May 1988
#1, #2	Russel & Axon	7/20/84	"Description of Current Situation at the Dead Creek Project Sites" prepared for IEPA by Ecology and Environment, Inc., July 1986
1 through 16	IEPA/EEI	2/83 to 3/83	"Description of Current Situation at the Dead Creek Project Sites" prepared for IEPA by Ecology and Environment, Inc., July 1986
STS-Series Borings EFM-Series Borings DSM-Series Borings	Russell & Axon	9/83	"Assessment of Groundwater Conditions at the Village of Sauget Treatment Plant Sites" Sauget, Illinois, prepared by Geraghty & Miller, December, 1986 (Table 9)
BG-1 thru BG-12	Geraghty & Miller	8/84	"Assessment of Groundwater Conditions at the Village of Sauget Treatment Plant Sites" Sauget, Illinois, prepared by Geraghty & Miller, December, 1986 (Table 10)

Nature and Extent of Contamination:

The following description of the nature and extent of contamination refers to samples collected in and adjacent to the closed lagoons at Site O. Samples 1 thru 16, collected adjacent to Clayton Chemical property, are presented on the Site O figure and in summary table format, but are not included in this discussion of the lagoon area samples.

VOC concentrations in soil samples collected at Site O ranged from 0.001 to 889.9 mg/kg for 10 of the 12 samples collected. BNAs were detected at concentrations ranging from 0.28 to 1916 mg/kg in 9 of the 12 samples collected. Pesticides were not detected in any of the 12 samples collected. PCB concentrations ranged from 11.4 to 1,871 mg/kg for 9 of the 12 samples collected. Metals, particlaurly Cu, Hg, and Zn, were elevated in a few samples collected. The greatest contaminant concentrations in subsurface soils were detected at depths between 0 to 10 feet BGS.

The extent of soil contamination at Site O is fairly well defined through the 12 samples collected at various depths, both within and adjacent to the lagoons. The lagoons are unlined, and were excavated into the Henry Formation sands. The lateral boundary of the lagoons is well-defined, and is readily evident in historical aerial photos.

Containment and Integrity (if known):

The lagoons at Site O are closed, covered, and vegetated. Therefore, there is some containment of the wastes within the lagoons, but the quality and amount of cover is unknown. The lagoons are unlined, and were excavated into the Henry Formation sands. Access to Site O is somewhat restricted, only by the fact that the entrance road to the lagoon area is posted as a private drive; otherwise the site access is unrestricted.

Other Comments: See the attached "Site Description" for more site details.

SITE DESCRIPTION - Sauget Area 2/Site O

Site O consists of four inactive sludge dewatering lagoons associated with the Sauget Wastewater Treatment Plant (WWTP). The site is located on Mobile Avenue in Sauget. The site covers approximately 20 acres to the northeast of the American Bottoms WWTP. The lagoons have been covered with clay and vegetated, and no waste material is present at the surface. An access road to the American Bottoms WWTP runs through the middle of the site. The history of Site O includes activities at the Sauget WWTP. The Sauget WWTP began operation in approximately 1952. The plant treated waste from area industries and residents. Approximately 10 million gallon per day of wastewater was treated, more than 95% was from area industries. Industries which contributed wastewater to the plant include Monsanto, Cerro Copper, Sterling Steel Foundry, Amax Zinc, Rogers Cartage, Edwin Cooper, and Midwest Rubber. Effluent from the plant was discharged to the Mississippi River under NPDES permit. The Sauget WWTP had many past violations of the NPDES permit, mainly due to chemical quality of the plant effluent. Mercury, PCBs and organic solvents had been detected at levels which violated the set permit levels on several occasions. A 1982 USEPA study concluded that the effluent from the Sauget WWTP contributed a substantial volume of priority pollutants annually to the river. The lagoons which comprise Site O were usedas sludge drying beds for the original Sauget WWTP. It is not known if sludge was removed from the lagoons prior to closure and capping.

The following is a chronology of events for site O as discovered in the file information search:

Circa 1952

Sauget Water Treatment Plant has been in operation in some form.

1965 to approx. 1978

The former lagoons were used for disposal of clarified sludges.

1981

The Village of Sauget submitted a Notification of Hazardous Waste Site Form to USEPA in June. The form stated that the lagoons were used for disposal of clarified sludges. The lagoons were designed to drain liquids from the sludge. The lagoons were not lined and were excavated into the Henry Formation Sand. In March, following a long history of effluent problems, the Sauget WWTP submitted specifications for a pretreatment program to increase the treatment efficiency in their waste streams.

December 1982

IEPA collected soils around the Bliss Waste Oil tanks at Clayton Chemical. This area is near site O. High levels of PCBs and pentachlorophenol were detected. Dioxin, especially 2,3,7,8-TCDD was suspected since Russel Bliss had been connected to dioxin-contaminated waste oil in the past.

January 1983

Construction began on the new American Bottoms WWTP which will replace the old Sauget WWTP. The Illinois Attorney General filed suit against Russel Bliss and Clayton Chemical for an alleged water pollution hazard.

February 1983

IEPA and Envirodyne Engineers soil samples reveal PCBs and 2,3,7,8,-TCDD contamination in an area northwest of Site O.

April 1983

Clean-up plan submitted for dioxin contaminated soils. USEPA and IEPA approve the plan.

June 1983

IEPA ordered the excavation of an underground storage tank owned by Russel Bliss on Clayton Chemical property. The tank was found to be ruptured - soil and waste samples were collected by IEPA.

August 1983

IEPA ordered the excavation of additional soil from the Bliss underground storage tank. This was done based on the results of previous IEPA samples.

May 1984

A trench was dug in the area of the lagoons to bury a water pipe. Wastes were encountered during trenching, and the trench was covered and the water line laid above ground.

July 1984

A hydrogeologic investigation was initiated by Geraghty & Miller.

August 1984

Excavation for the construction of a transfer sewer at Site O uncovered contaminated soils.

December 1986

Geraghty & Miller completed their report on investigations at Site O. The report outlined the extent of groundwater contamination from the former sludge lagoons.

December 1986 - March 1987

Nine subsurface soil samples were taken at Site O. An additional two subsurface samples were taken in areas just off-site.

July 1987

Two groundwater monitoring wells were sampled on site. Three monitoring wells located just off-site were sampled by E & E.

March 1994

Surface and subsurface soil samples are expected to be taken by IEPA.

(Note: All information above was excerpted from a document with the heading of "Background" which was taken off microfiche from the IEPA file records)

SITE NARRATIVE

SITE Q

recycled paper

SITE NARRATIVE - SAUGET AREA 2 / Site Q			
Sample Locations	**Sampling Entity**	**Date Sampled**	**Data Source**
X101 - X111	IEPA	11/9 to 11/10/94	Memo to M. Rebbe (IDPH) from P. Takacs (IEPA) dated 12/30/94 Re: November Sampling with maps and data
QD1 - QD3	E & E	5/27/94	Removal Action Report for Sauget Area 2: Site Q prepared by Ecology and Environment 7/29/94
Pit #1, Pit #2	Riedel	9/89	Ltr. to Carol Ropski (EPA) from R. Burke (Eagle Marine) dated 1/19/95 Re: Response of Eagle Marine Industries to Information Request
B-1 through B-18	E & E	7/93	"Description of Current Situation at the Dead Creek Project Sites" prepared for IEPA by Ecology and Environment, Inc., July 1986
L-1, P-1	IEPA	10/17/72	"Description of Current Situation at the Dead Creek Project Sites" prepared for IEPA by Ecology and Environment, Inc., July 1986
P-2	IEPA	4/10/73	"Description of Current Situation at the Dead Creek Project Sites" prepared for IEPA by Ecology and Environment, Inc., July 1986
L-1, L-2	IEPA	10/28/81	"Description of Current Situation at the Dead Creek Project Sites" prepared for IEPA by Ecology and Environment, Inc., July 1986
L101 - L103	IEPA	9/29/83	"Description of Current Situation at the Dead Creek Project Sites" prepared for IEPA by Ecology and Environment, Inc., July 1986
Q201 - Q208	USEPA	1997	Preliminary Ecological Risk Assessment for Sauget Area 2: Site Q prepared by USEPA 1997

ecology and environment

recycled paper

SITE NARRATIVE - SAUGET AREA 2 / Site Q

Nature and Extent of Contamination:

Southern Portion of Site Q (samples X101-X111 and Q203-Q208):
VOC concentrations in soils ranged from 0.008 to 0.29 mg/kg for 5 of the 11 samples analyzed for these parameters. BNA concentrations ranged from 0.38 to 1.9 mg/kg for 5 of the 11 samples collected. Pesticides were not detected in any of the 11 samples analyzed for these parameters. PCB concentrations ranged from 0.06 to 223 mg/kg for 14 of 17 samples collected.

The samples collected from the southern portion of Site Q are collected from depressional areas. These depressional areas have been identified by IEPA as apparent disposal areas and not all of the property south of the Alton & Southern Railroad has been sampled or characterized. The extent of surficial contamination in the southern portion of Site Q (south of the Alton & Southern Railroad) is fairly well defined laterally. However, there are no subsurface soils to help delineate the extent of vertical contamination.

Northern Portion of Site Q (all samples north of the Alton & Southern Railroad):
Waste samples (QD1 to QD3) collected in drums adjacent to the river at Site Q revealed a BNA concentration of 534 mg/kg in one sample, and PCB concentrations ranged from 180,000 to 260,000 mg/kg for the drum samples collected.

Surface water samples (P1 and P2) collected on Site Q did not contain appreciably high concentrations of metals. These samples were not analyzed for organic parameters. Pond sediments (Q201 and Q202) collected in the center of Site Q had PCB concentrations which ranged from 1.8 to 4.6 mg/kg for the two samples.

BNA concentrations in leachate samples (from samples L-1, L-2, L101, L102, and L103) were 5 μg/L for 2 of the 5 samples collected. The leachate samples were not analyzed for VOCs, and pesticides were not detected in any of the 5 samples. PCB concentrations ranged from 0.1 to 1.0 μg/L for 4 of the 5 samples collected. Metals, particularly As, Cr, Cu, Pb, and Zn, were elevated in a few of these samples.

VOC concentrations in the subsurface soils (from borings B-1 to B-18 and Pits 1 & 2) ranged from 0.02 to 5,855 mg/kg for 28 of the 36 samples collected BNA concentrations ranged from 3.8 to 15,190 mg/kg for 34 of the 36 samples collected. Pesticide concentrations were 0.1 and 3.3 mg/kg for 2 of the 35 samples collected. PCB concentrations ranged from 0.002 to 16,000 mg/kg for 32 of the 36 samples collected. Dioxin (2,3,7,8-TCDD) concentrations in subsurface soil samples ranged from 0.0001 to 0.0033 mg/kg in two of the 35 samples analyzed for this parameter.

The extent of contamination in the southern portion of Site Q (south of the Alton & Southern Railroad) is fairly well defined laterally in and around the depressional areas identified by IEPA. However, there are no subsurface soils to help delineate the extent of vertical contamination. The extent of contamination in the central portion of Site Q is poorly defined. Wastes have been initially identified through sampling of drum samples and leachate but surface and subsurface soil samples are lacking in this area. The extent of contamination in the northern portion of Site Q, adjacent to Site R is well defined through multiple soil borings and subsurface soil samples.

Containment and Integrity (if known):

There is no known containment for site Q. Wastes are present at the surface in the southern portion of Site Q. The northern portion is covered primarily with cinders. Access to this site is unrestricted.

Other Comments: See the attached "Site Description" for more site details.

ecology and environment

SITE DESCRIPTION - Sauget Area 2/Site Q

Site Q is an inactive waste disposal facility in Sauget and Cahokia. The facility, which was operated by Sauget & Company between 1966 and 1973, covers approximately 90 acres. The site is located on the east bank of the Mississippi River and is on the river side of the flood control levee. Most of Site Q is occupied by the Pillsbury Company, which operates a coal and grain unloading and transfer facility. The northern half of the site contains coal and cinders while the southern portion is unoccupied. A railroad spur divides the site and several ponds exist on site. Site Q was operated without a permit. The north side was registered with the IDPH in 1967, prior to formation of IEPA. The site is presently covered with black cinders which makes it highly permeable. Site Q is presently being leased to the Pillsbury Co. by its owners the Riverport Terminal and Fleeting Co.

The following is a chronology of events for site Q as discovered in the file information search:

1966

Disposal operations began in the northern most portion of site Q. A flyash pond operated by Union Electric existed at the area immediately south of the Monsanto Chemical dump (Site R).

1968 - 1972

Septic tank pumping and general municipal refuse were accepted at the site.

Early 1970s

IEPA inspections documented several violations of the Illinois Environmental Protection Act, including open burning, using unsuitable cover materials (cinders and flyash), and disposal of liquid chemical wastes.

April 1971

IEPA filed a complaint against Sauget & Co.. The company was ordered to cease open burning, using flyash and cinders for cover materials, and accepting liquid chemical wastes.

May 1971

The Illinois Pollution Control Board issued an order to Sauget & Company to discontinue the use of cinders and flyash for final cover.

September 1971 - August 1971

IEPA conducted monthly inspections at the site. During this time they cited inadequate daily and final cover, and the disposal of liquid wastes.

July 1972

An IEPA inspection revealed a smoldering underground fire.

August 1972

Leach tests of the cinder cover was performed by IEPA. The material was found to be inadequate in terms of permeability of material and its high metal content.

October 1972

The fire which began in July 1972, finally went out. The fire smouldered continuously from July to October despite repeated attempts to extinguish it.

1972

Sauget & Company applied for a permit to extend the existing landfill to an area south ofthe Alton & Southern Railroad. IEPA denied all permit applications to the southern site extension. Approval was never issued by IEPA, however Sauget & Company used this area for disposal.

October 1972

IEPA collected two soil samples from Site Q. One was from ponded water, the other was a leachate sample. Results indicated the presence of metals including lead andmercury.

January 1973

Groundwater samples were collected from two monitoring wells.

March 1973

Mississippi River flood waters inundated Site Q. The flood conditions lasted until May 1973.

April 1973

Samples of ponded water collected by IEPA on two separate occasions.

November 1973

The Illinois Secretary of State revoked the authority of Sauget & Co. to transact business in the State of Illinois.

January 1975

Disposal activities were completed at Site Q by this time.

September 1976

An IEPA inspection of Site Q revealed and underground fire at the site. The fire smoldered for approximately 1 month.

May 1977

The Illinois Pollution Control Board filed suit #77-84 against Sauget & Co. and Paul Sauget. A monetary penalty was invoked and Sauget & Co. was ordered to put a two foot layer of suitable cover material to cap the entire site by February 1981.

May 1980

IEPA was notified that drums and chemical wastes were uncovered during excavation along a railroad spur.

May 1981

In response to Sauget's failure to comply with order #77-84 and alleging several violations of the Illinois Environmental Protection Act, the Illinois Attorney General filed suit against Sauget & Co.

October 1981

IEPA sampled leachate seeps from the banks of the river. Results indicated high levels of organic contaminants.

June 1983

A subsurface investigation at Site Q was initiated by a USEPA FIT Contractor. Over half of the organics analyzed for in the samples were detected including 2,3,7,8-TCDD in two samples. A geophysical investigation was completed by Technos of Miami, Florida.

September 1983

IEPA took more leachate seep samples from the bank of the river. The results weresimilar to the results in October 1981.

March 1985

The Illinois Attorney Generals' office reentered a suit against Sauget & Company. TheIAG's office ordered final cover to be applied at the site and also requested a civil penalty.

March 1987

E & E took nine samples from eight monitoring wells at site Q. Monitoring wells were also sampled in area adjacent to site Q.

Subsequent to 1987, several investigative and significant environmental events have taken place. In 1992, Monsanto conducted sampling at the south end of Site R, on the Site Q property. In 1994, most of site Q was innundated by the Mississippi River flood waters. IEPA and USEPA conducted sampling in the depressional areas at the southern portion of Site Q in 1994 and 1997, respectively. In addition to sampling activities, construction of offices and storeage areas for a landscaping firm has taken place in the northern and central portions of Site Q.

(Note: All information above was excerpted from a document with the heading of "Background" which was taken off microfiche from the IEPA file records)

SITE NARRATIVE

SITE R

SITE NARRATIVE - SAUGET AREA 2 / Site R			
Sample Locations	**Sampling Entity**	**Date Sampled**	**Data Source**
X112, X113	IEPA	11/11/94	Memo to M. Rebbe (IDPH) from P. Takacs (IEPA) dated December 30, 1994. Re: Nov. sampling with maps and data sheets.
X101D, X103D, X104D, S101D, S103D, S104D	IEPA	2/89	Ltr. to A. Weinart (USEPA) from P. Takacs (IEPA) dated 1/22/90. Re: Dioxin results and sample map.
A, B, C	IEPA	10/2/81	"Description of Current Situation at the Dead Creek Project Sites" prepared for IEPA by Ecology and Environment, Inc., July 1986
S01 - S06, M02, M04, M06	E & E	11/12/81	"Description of Current Situation at the Dead Creek Project Sites" prepared for IEPA by Ecology and Environment, Inc., July 1986
D1 - D7, P1 - P10, C1 - C8	Dynamac	3/89	"Remedial Investigation at Sauget Site R" prepared for Monsanto Co. by Geraghty & Miller, August 1994
SS-1 to SS-8, SB-1 to SB16	Geraghty & Miller	1992	"Remedial Investigation at Sauget Site R" prepared for Monsanto Co. by Geraghty & Miller, August 1994
SB-17 to SB-19	Geraghty & Miller	4/92	"Remedial Investigation for the Expanded Study Area" prepared for Monsanto Co. by Geraghty & Miller, August 1994
Up River 1 - 4 Down River 1 - 4	IEPA	1981	Ltr. to R. Sinise (Monsanto) from A. Holoska (USEPA) dated March 30,1982. Re: 11/12/81 sampling
CWS-1 to CWS-5	USEPA	11/12/81	Ltr. to R. Sinise (Monsanto) from A. Holoska (USEPA) dated March 30,1982. Re: 11/12/81 sampling

recycled paper

SITE NARRATIVE - SAUGET AREA 2 / Site R

Nature and Extent of Contamination: The Site R landfill and adjacent areas have been studied extensively by the USEPA, IEPA, and Monsanto since the early 1980's. Below is a brief synopsis of the nature and extent of soil/sediment contamination identified at Site R.

RI Report Data - Geraghty & Miller, 1994.

Eight sediment samples (SS-1 through SS-8) were collected from storm water drainage ditches surrounding the Site R landfill. VOC concentrations in sediment samples collected from the drainage ditches ranged from 0.002 to 0.035 mg/kg. Constituents detected in these sediment samples were similar to those detected in the landfill soil samples, although the detected concentrations were orders of magnitude lower. SVOC concentrations in sediments ranged from 0.045 to 3.99 mg/kg. Pesticides were only detected in one of the sediment samples at a concentration of 0.096 mg/kg. PCBs were detected at concentrations ranging from 0.08 to 1.5 mg/kg. Metals, particularly Al, Fe, Ca,and Mg were elevated in some samples.

Soil samples were collected from 16 borings (SB-1 through SB-16) within the landfill during the RI conducted by Geraghty & Miller. In addition, Dynamac completed an investigation in 1989 which included 8 borings (D-1 through D-8) around the perimeter onf the landfill, 8 surface samples (C-1 through C-8) collected from the landfill cap, and 10 surface samples collected from the perimeter (P-1 through P-10). VOC concentrations in subsurface soil samples collected from the RI borings ranged from 0.15 to 4,100 mg/kg. VOC concentrations in subsurface soil samples collected by Dynamac ranged from 0.51 to 5,800 mg/kg. SVOC concentrations in subsurface soil samples collected from borings SB-1 through SB-16 ranged from 0.017 to 11,000 mg/kg. SVOC concentrations in subsurface soil samples collected by Dynamac ranged from 0.37 to 19,000 mg/kg. Pesticide concentrations in subsurface soil samples collected from the borings SB-1 through SB-16 ranged from 0.011 to 99 mg/kg. Pesticides were not detected in any borings conducted by Dynamac. PCB concentrations in subsurface soil samples collected from borings SB-1 through SB-16 ranged from 0.075 to 4,800 mg/kg. PCBs were only detected in three of the borings conducted by Dynamac. Some metals, including As, Cr, Pb, Ni and Hg, were slightly elevated in most samples.

Expanded Study Area RI Report Data - Geraghty & Miller, 1994.

Soil samples were collected from 3 borings (SB-17 through SB-19) drilled along the southern portion of the landfill. This area is actually part of Site Q but was investigated as part of the Site R RI by Geraghty & Miller. VOC concentrations in subsurface soil samples collected from these borings ranged from 0.002 to 1,640 mg/kg. SVOC concentrations in subsurface soil samples collected from borings SB-17 through SB-19 ranged from 0.041 to 185 mg/kg. Pesticide concentrations in subsurface soil samples collected from the borings SB-17 through SB-19 ranged from 0.016 to 0.18 mg/kg. PCB concentrations in subsurface soil samples collected from borings SB-17through SB-19 ranged from 0.36 to 6.6 mg/kg.

recycled paper

SITE NARRATIVE - SAUGET AREA 2 / Site R

IEPA and USEPA File Information - Pre-1992

Information presented here pertains to the sample locations presented on the figure for Sites O, Q, R, and S. These sample locations are situated adjacent to the river on the west side of Site R. Nine sediment samples (A, B, C, S02, S04, S06, M02, M04, M06) were collected from 6 locations adjacent to the river to the west of Site R. VOCs were not detected in any of the three sediment samples analyzed for this parameter group. SVOC concentrations in sediments to the west of Site R ranged from 0.001 to 7.7 mg/kg for 9 of the 9 sample collected. Pesticides were not analyzed in these sediment samples. PCB concentrations in the sediments ranged from 0.00001 to 0.23 mg/kg for 6 of the 9 samples collected. Metals were not elevated in most of the samples collected. However, cyanide was detected at concentrations ranging from 6.8 to 90 mg/kg for all three samples analyzed for this parameter.

Nine leachate samples (X101D, X103D, X104D, S01, S03, S05, M01, M03, M05) were collected from 6 locations adjacent to the river to the west of Site R. VOCs were not analyzed in any of the leachate samples. SVOC concentrations in leachate to the west of Site R ranged from 0.6 to 12.3 μg/L for the 3 samples analyzed for this parameter group. Pesticide concentrations ranged from 0.5 to 3.0 μg/L for the three samples analyzed for this parameter. PCBs were only detected in one leachate sample at a concentration of 0.08 μg/L. Sample X101D, X103D, and X104D were analyzed for dioxins/furans only.

Total dioxin/furan concentrations ranged from 0.0001 to 0.0014 ppm. Metals were slightly elevated in some samples collected. Cyanide was detected in one leachate sample at a concentration of 71 μg/L.

Surface water samples (S101D, S103D, and S104D) were collected from the Mississippi River and analyzed for dioxins/furans. The total dioxin/furan concentrations ranged from 0.0001 to 0.0007 ppm in the three samples collected.

Containment and Integrity (if known):

Site R is surrounded by a security fence and monitored by 24-hour surveillence. In addition to site security, the landfill has been capped and the riverbank to the west of the site has been stabilized.

Installation of Landfill Cap: In 1979, Monsanto installed a clay cap on the Site R landfill. The purpose of the cap was to cover waste, limit infiltration through the landfill, and prevent direct contact with fill material. The clay for the cover was obtained locally from several site in Cahokia and the cap thickness varies from 2 feet to approximately 8 feet. The permeability of the clay was determined to range from 3.9×10^{-7} cm/sec to 2.4×10^{-6} cm/sec based on laboratory analysis of undisturbed samples.

Riverbank Stabilization Project: In 1985, a 2,250 foot long rock revetment was installed by Monsanto along the east bank of the Mississippi River adjacent to Site R. The purpose of the stabilization project was to prevent further erosion of the riverbank and thereby minimize potential for release of waste material from the landfill. The riverbank was graded using rock and sand, covered with a geotextile fabric, and a fine, crushed rock filter blanket (1-foot thick) was placed over the fabric. A second geotextile fabric layer was placed over the crushed rock blanket. Finally, 2-foot of class C rip-rap was placed over the upper fabric layer. The rip-rap was placed from the top of the riverbank to 374 feet MSL, producing a revetment that extends from 150 to 290 feet into the river.

Other Comments: See the attached "Site Description" for more site detail

SITE DESCRIPTION - Sauget Area 2/Site R

Site R is a former industrial waste landfill situated adjacent to the Mississippi River in Sauget, Illinois. Early IEPA files list the site name as the Sauget Toxic Dump (aka: Krummerich Landfill). More recent reports and files list the site name as Monsanto Landfill or River's Edge Landfill. The site is owner by Monsanto Chemical Co. and was used by Monsanto for landfilling between 1957 and 1977. The site is located north and west of Site Q on the river side of a flood control levee. Site R is covered with a clay cap and is vegetated. Access to Site R is restricted by fencing and under 24-hour camera surveillance.

The following is a chronology of events for site R through 1987 as discovered in the file information search:

1957
The Sauget Toxic Dump began being used by Monsanto.

August 1968
IEPA begins making routine inspections at Site R.

April 1971
IEPA inspection of Site R revealed disposal of bulk chemical wastes and drums.

May 1971
The Illinois Pollution Control Board order #71-29 issued to Sauget & Co. to respond to a request for information.

June 1971
Monsanto responded to the Illinois Pollution Control Board order number 71-29. They indicated that 18,400 cubic yards of chemical wastes were disposed of at Site R for 1971.

December 1972
IEPA sampled monitoring wells at Site R. Phenols found in all samples.

January 1973
High concentrations of phenols were identified by IEPA in a limited analysis of samples taken from waste ponds.

February 1973
IEPA sampled monitoring wells at Site R and found high levels of phenol and COD in all samples.

March 1973
The Mississippi River flood waters inundated Sites R and Q.

November 1973

The Illinois Secretary of State revoked the authority of Sauget & Co. to transact business in the State of Illinois.

1973

IEPA sent notices to Sauget & Co. and Monsanto, which outlined violations of the Environmental Protection Act at Site R. The violations included inadequate segregation of wastes, and a lack of the necessary permits to operate a disposal facility. These violations were reiterated several times in 1973 and again in 1974.

1973 - 1976

IEPA sampled the monitoring wells at Site R anually. Also a Monsanto Ranney well located in the northwest corner of the site was sampled.

1975

Records indicate a significant reduction in the amounts of chemicals disposed of on-site.

1976

Ranney well sample indicated PCB contamination.

October 1977

D'Appolonia Engineers, a consultant for Monsanto, conducted a subsurface investigation of Site R and proposed appropriate closure alternatives.

1977

Monsanto voluntarily ceases operations at Site R.

May 1978

Monsanto filed closure documents and plans with IEPA.

September 1978

Monsanto began closure operations which consisted of covering, grading, capping, and securing Site R.

October 1979

IEPA samples from monitoring wells indicated the presence of chlorophenols, chlorobenzenes, and analine derivatives. Closure of Site R was completed.

February 1980

Monsanto filed an affidavit of closure for Site R.

March 1981

Monitoring well samples indicated the presence of a variety of organic compounds.

May 1981

Monsanto filed a CERCLA notification for Site R.

October 1981

IEPA collected leachate and sediment samples from Site R. The samples were collected from an area adjacent to the Mississippi River. Leachate was noted flowing into the river in at least three locations.

October 1981

The U.S Food and Drug Administration (USFDA) collected fish samples from both upstream and downstream river locations. The downstream fish contained several organic contaminants.

December 1981

A USEPA TAT contractor sampled the Site R seeps adjacent to the river. Analyses of these samples included higher chlorinated (hexa-through octa-) dioxins.

July 1982

The USEPA FIT contractor submitted an HRS score for Site R. The site scored 7.23 and did not qualify for the National Priorities List (NPL). This score was low because of a lack of a target population. Surface and groundwater contamination was observed, however there was not a target population for these releases. No air releases were observed.

1982

The IAG's office filed suit against Monsanto outlining several apparent violations of the Illinois Environmental Protection Act. Most of the complaint was regarding water pollution and the relief being sought included civil penalties and the issuance of an injunction to Monsanto to immediately prevent seepage from Site R from entering the river. The injunction also directed the defendant to remove all waste from the site.

October 1983

Geraghty and Miller, a contractor for Monsanto, conducted a hydrogeologic investigation on Monsanto property including Site R.

July 1984

Monsanto applied for a permit to construct a revetment along the bank of the Mississippi River.

1985

Revetment constructed along the bank of the Mississippi River.

September 1986

The initial Geraghty & Miller hydrogeologic investigation report estimated 77 pounds of organic compounds were leaching into the Mississippi River per day.

March 1987

E & & took one groundwater sample from an on-site location with an additional nine groundwater samples taken from seven wells located in areas adjacent to the site.

Subsequent to 1987, Monsanto has continued groundwater monitoring and site characterization activities at the site. In 1989, Dynamac Corporation (Dynamac) conducted sediment, surface soil, and subsurface soil sampling to obtain information to be used in preparation of a site-specific risk assessment. In compliance with a consent order signed by Monsanto and IEPA in 1992, a remedial investigation was initiated by Monsanto in 1992, with oversight from IEPA. An RI report was submitted to IEPA in August 1994.

(Note: All information above was excerpted from a document with the heading of "Background" which was taken off microfiche from the IEPA file records)

SITE NARRATIVE

SITE S

recycled paper

SITE NARRATIVE - SAUGET AREA 2 / Site S

Sample Locations	Sampling Entity	Date Sampled	Data Source
X102 thru X106	IEPA	3/22/95	Handwritten notes with sample map and data sheets.

Nature and Extent of Contamination:

VOC concentrations in soil samples collected from Site S ranged from 0.007 to 2,181 mg/kg in all 6 of the samples collected. BNAs were detected at concentrations ranging from 0.8 to 250 mg/kg for 5 of the 6 samples. Pesticides ranged from 0.005 to 0.2 mg/kg for 5 of the 6 samples. PCBs were detected in all 6 samples at concentrations ranging from 0.04 to 195 mg/kg. Metals, particularly Cr, Cu, Pb, and Hg, were found at elevated concentrations in a few of the samples collected. At the time of sampling, surface leachate seeps were present at the southern portion of the site.

The extent of contamination at Site S is poorly defined due to the limited number of sampling locations and associated analytical data. Samples were collected from locations X102 thru X106 using a hand auger, and the sample depths ranged from 0 to 5 feet BGS. High VOC, BNA and PCB contamination present in samples X105 and X106 indicate that the extent of contamination at Site S has not been completely defined, either laterally or vertically.

Containment and Integrity (if known):

The containment for Site S is in the form of topsoil and vegetation on the northernmost portion of the site area, and gravel cover for the southern portions of the site area. The southern portion of the site, which is covered with gravel, is also fenced.

Other Comments: See the attached "Site Description" for more site details.

ecology and environment

SITE DESCRIPTION - Sauget Area 2/Site S

Site S is depicted up on the USGS topographic map as a low-lying feature located to the west of the American Bottoms WWTP. This location appeared to be a drum disposal area based upon a review of historical aerial photographs. The site is currently part of the American Bottoms WWTP property which is situated to the west-southwest of the Site O lagoons. The northern portion of Site S is grassed with no apparent features of waste disposal, and the southern portion is covered with gravel and fenced. Disposal boundaries have not been delineated. Slag material was encountered in every boring attempted at Site S. Access to the northern, grassed portion of Site S is partially restricted in that the Site is located on private property, and access to the southern portion of Site S is restricted by fencing.

Site O Data

SAUGET Analytical Data
Site O

SOIL SAMPLES
Organic (mg/kg)
Collected by Russell and Axon (July 20, 1984)

Sample Number	1	2	BLANK	Maximum
Organics				Concentration
2,4-Dichlorophenol	50.1	ND	ND	50.1
Pentachlorophenol	3600	159	ND	3600
2,4,6-Trichlorophenol	39.3	ND	ND	39.3
Crysene	123	2.2	ND	123
Benzo-k-Fluoranthene	15.9	0.45	ND	15.9
Bis(2-Ethylhexyl) Phthalate	10.9	ND	0.098	10.9
1,2-Chlorobenzene	ND	12.2	ND	12.2
1,4-Dichlorobenzene	ND	8.01	ND	8.01
Di-Butyl Phthalate	ND	5.06	0.1	5.06
Phenanthrene	100	1.6	ND	100
Pyrene	102	2.1	ND	102
1,2,4-Trichlorobenzene	65.3	1.6	ND	65.3
PCBs	*	*	ND	ND
Benzo(a)Pyrene	4.2	1	ND	4.2

mg/kg - Milligrams per kilogram
ND - Not detected
* - Identified, but values cannot be verified

recycled paper

ecology and environment

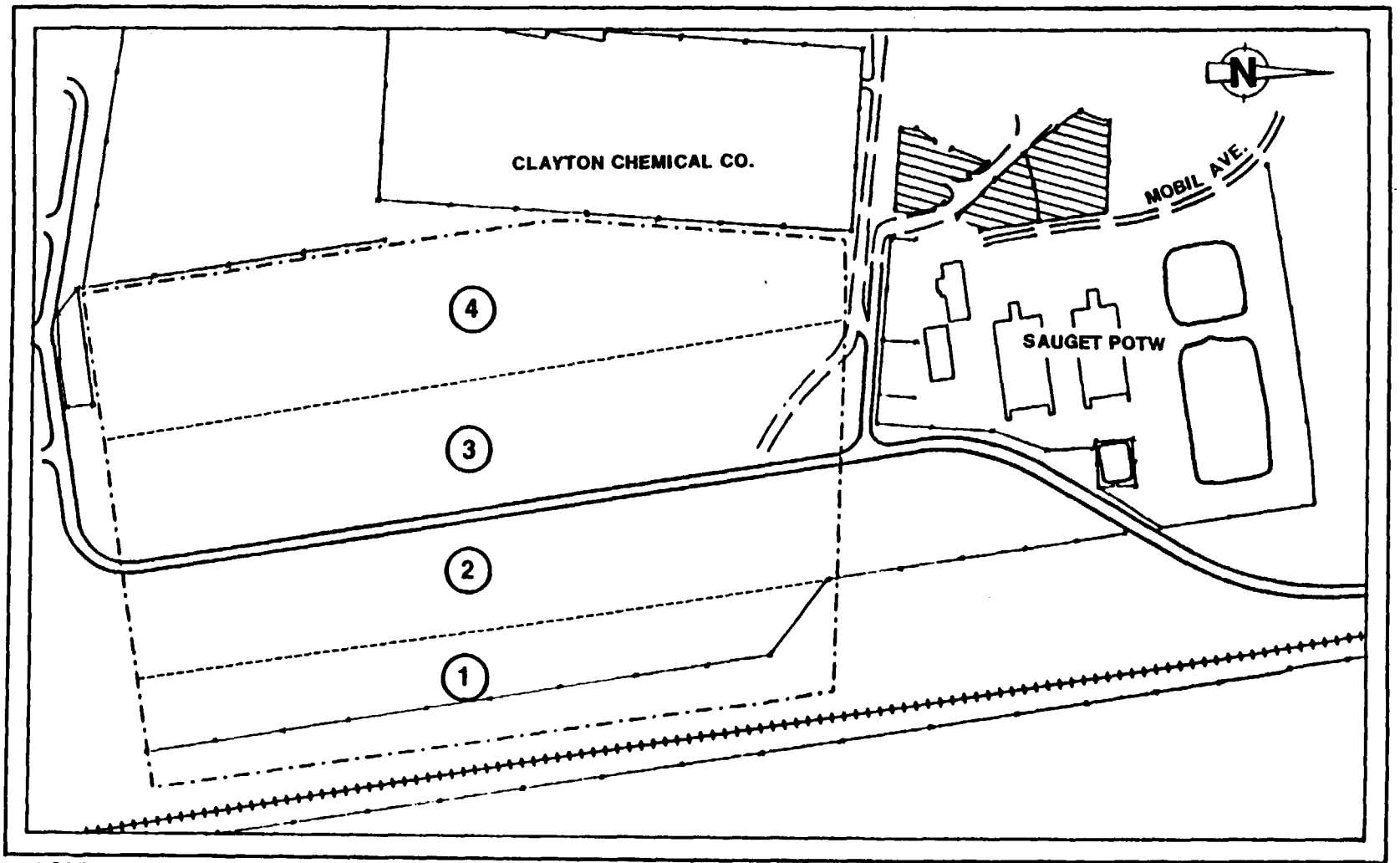


FIGURE O-1
FORMER SLUDGE LAGOONS AND CONTAMINATED SOIL AREAS AT SITE O

recycled paper

ecology and environment

SAUGET Analytical Data
Site O

Soil Samples
PCB and TCDD (ng/g)
Split Samples collected by IEPA and EEI

	Sample Number	1	2A	2B	3A	3B	4A	4A Dup EEI	4B	5A	5A Dup IEPA
	Depth (inch)	0 - F	0 - F	7 - 13	0 - 7	7 - 13	0 - 6	0 - 6	6 - 13	0 - 6	0 - 6
	Date Collected	2/19/83	2/19/83	2/19/83	2/19/83	2/19/83	2/19/83	2/19/83	2/19/83	2/19/83	2/19/83
PCB and TCDD											
PCBs - IEPA		**1500**	**7600**	**390**	**9100**	**40**	**20000**	NA	**54000**	**32000**	NA
PCBs - EEI		**3690**	**5350**	**716**	**137250**	**28**	**21020**	**15510**	**149600**	**112930**	NA
TCDD - IEPA		ND	ND	ND	ND	ND	ND	ND	ND	**18**	**17**
TCDD - EEI		ND	ND	ND	ND	ND	ND	ND	ND	**28**	NA

	Sample Number	5B	6	7A	7B	8A	8B	8C	8D Dup	8D	9A
	Depth (inch)	6 - 14	0 - 8	0 - 6	8 - 16	0 - 6	6 - 12	13 - 18	18 - 25	18 - 25	0 - 6
	Date Collected	2/19/83	2/19/83	30387	30387	30387	30387	30387	30387	30387	30387
PCB and TCDD											
PCBs - IEPA		**20000**	**120**	NA	NA	NA	NA	NA	NA	NA	NA
PCBs - EEI		**12050**	**90**	NA	NA	NA	NA	NA	NA	NA	NA
TCDD - IEPA		**4.1**	ND	ND	**1.8**	**77**	*	ND	ND	ND	**1.3**
TCDD - EEI		**5.1**	ND	ND	**44**	Interferences	**19**	**37**	**56**	ND	ND

	Sample Number	9B	9C	9D	10A	10B	11A	11B	12	13A	13B
	Depth (inch)	6 - 12	14 - 21	22 - 28			0 - 6	G - 18	10 - 19	0 - 7	7 - 18
	Date Collected	2/19/83	2/19/83	30387	30387	30387	30387	30387	30387	30387	30387
PCB and TCDD											
PCBs - IEPA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs - EEI		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCDD - IEPA		*	ND	**0.92**	**12**	*	ND	*	*	ND	**13**
TCDD - EEI		ND	ND	ND	ND	13	ND	ND	ND	ND	**13**

	Sample Number	14	15	16	**Maximum**
	Depth (inch)	0 - 6	0 - 16	0 - 18	**Concentration**
	Date Collected	2/19/83	2/19/83	30387	**Detected**
PCB and TCDD					
PCBs - IEPA		NA	NA	NA	**54000**
PCBs - EEI		NA	NA	NA	**149600**
TCDD - IEPA		**25**	ND	ND	**77**
TCDD - EEI		**170**	ND	ND	**170**

ng/g - Nanograms per gram
NA - Parameter not analyzed
ND - Not detected
* Sample not collected by IEPA
PCB - Polychlorinated biphenyl
TCDD - Tetrachlorodibenzo-p-dioxin

recycled paper
ecology and environment

SAUGET Analytical Data
Site O

SUBSURFACE SOIL SAMPLES
Total Metals (mg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC-O1-59	DC-O2-60	DC-O3-61	DC-O4-62	DC-O5-63	DC-O5-64	DC-O8-65	DC-O6-66	DC-O9-72	DC-O9-73
	Sample Depth (ft)	15-25	20-30	10-20	0-10	8 5-20	8 5-20	NA	15-25	0-10	15-20
	Date Collected	*02/16/87*	*02/17/87*	*02/17/87*	*02/17/87*	*02/17/87*	*02/17/87*	*02/18/87*	*02/18/87*	*02/26/87*	*02/26/87*
Total Metals								BLANK			
Aluminum		**2023**	**1923**	**3786**	**5885**	**3232**	**3061**	**6215**	**2148**	**4902**	**3346**
Antimony		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic		ND	ND	**4 R**	ND	**3 R**	**3 R**	**8 R**	**2 R**	**6 R**	**3 R**
Barium		**57**	ND	**131**	**214**	**106**	**101**	**411**	ND	**165**	**125**
Beryllium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium		ND	ND	ND	**31**	ND	ND	**2**	ND	**4**	ND
Chromium		**5**	**6**	**9**	**18**	**7**	**6**	**10**	**5**	**13**	**6**
Cobalt		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper		ND	ND	**8**	**205**	**7**	ND	**33**	ND	**59**	ND
Iron		**5230**	**5705**	**9548**	**11859**	**8902**	**8232**	**12658**	**4815**	**11793**	**7580**
Lead		**3** *	**6** *	**7** *	**147** *	**7** *	**9** *	**54** *	**4** *	**18** *	**5** *
Manganese		**106** *	**108** *	**233** *	**329** *	**207** *	**187** *	**357** *	**79** *	**190** *	**152** *
Mercury		ND	ND	ND	**6.3**	ND	ND	ND	ND	**1.7**	**0.3**
Nickel		ND	ND	ND	**45** *	**11** *	**10** *	**15** *	ND	**38**	ND
Selenium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium		ND	ND	**13**	**18**	ND	ND	**15**	ND	**19**	ND
Zinc		**18** *	**18** *	**54** *	**1398**	**37** *	**35** *	**181** *	**17** *	**277**	**30** *
Cyanide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

mg/kg - Milligrams per kilogram
B - Compound detected in blank sample
R - Spike sample recovery not within control limits
* - Duplicate analysis not within control limits

recycled paper
ecology and environment

SAUGET Analytical Data
Site O

SUBSURFACE SOIL SAMPLES
Total Metals (mg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC-O10-74	DC-O10-75	Maximum
	Sample Depth (ft)	5-10	10-15	Concentration
	Date Collected	02/26/87	02/26/87	Detected
Total Metals				
Aluminum		**5038**	**2114**	**6215**
Antimony		ND	ND	ND
Arsenic		**7 R**	**3 R**	**8 R**
Barium		**158**	**45**	**411**
Beryllium		ND	ND	ND
Boron		ND	ND	ND
Cadmium		**11**	ND	**31**
Chromium		**22**	**4**	**22**
Cobalt		ND	ND	ND
Copper		**341**	**15**	**341**
Iron		**11910**	**5648**	**12658**
Lead		**71 ***	**6 ***	**147 ***
Manganese		**206 ***	**101 ***	**357 ***
Mercury		**1.9**	ND	**6.3**
Nickel		**136 ***	**11 ***	**136**
Selenium		ND	ND	ND
Silver		ND	ND	ND
Thallium		ND	ND	ND
Tin		ND	ND	ND
Vanadium		**15**	ND	**19**
Zinc		**688 ***	**43 ***	**1398**
Cyanide		ND	ND	ND

mg/kg - ~~Milligrams per kilogram~~

B - Compound detected in blank sample

R - Spike sample recovery not within control limits

* - Duplicate analysis not within control limits

SAUGET Analytical Data
Site O

SUBSURFACE SOIL SAMPLES
Pesticides/PCBs (µg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC-O1-59	DC-O2-60	DC-O3-61	DC-O4-62	DC-O5-63	DC-O5-64	DC-O8-65	DC-O6-66	DC-O9-72	DC-O9-73
	Sample Depth (ft)	15-25	20-30	10-20	0-10	8 5-20	8 5-20	NA	15-25	0-10	15-20
	Date Collected	02/16/87	02/17/87	02/17/87	02/17/87	02/17/87	02/17/87	02/18/87	02/18/87	02/26/87	02/26/87
Pesticides/PCBs								BLANK			
Alpha-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1016		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232		ND	ND	ND	ND	26829 C	30366	ND	ND	ND	ND
Aroclor-1242		ND	ND	ND	1871795	ND	ND	ND	ND	634146	24691
Aroclor-1248		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260		ND	ND	ND	ND	5488 JC	3902 J	ND	ND	ND	ND

µg/kg - Micrograms per kilogram
C - Result confirmed by GC/MS
J - Estimated value
ND - Not detected

recycled paper
Ecology and Environment

SAUGET Analytical Data
Site O

SUBSURFACE SOIL SAMPLES
Pesticides/PCBs (µg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC-O10-74	DC-O10-75	Maximum
	Sample Depth (ft)	5-10	10-15	Concentration
	Date Collected	02/26/87	02/26/87	Detected
Pesticides/PCBs				
Alpha-BHC		ND	ND	ND
Beta-BHC		ND	ND	ND
Delta-BHC		ND	ND	ND
Gamma-BHC (Lindane)		ND	ND	ND
Heptachlor		ND	ND	ND
Aldrin		ND	ND	ND
Heptachlor Epoxide		ND	ND	ND
Endosulfan I		ND	ND	ND
Dieldrin		ND	ND	ND
4,4'-DDE		ND	ND	ND
Endrin		ND	ND	ND
Endosulfan II		ND	ND	ND
4,4'-DDD		ND	ND	ND
Endosulfan sulfate		ND	ND	ND
4,4'-DDT		ND	ND	ND
Methoxychlor		ND	ND	ND
Endrin Ketone		ND	ND	ND
Chlordane		ND	ND	ND
Toxaphene		ND	ND	ND
Aroclor-1016		ND	ND	ND
Aroclor-1221		ND	ND	ND
Aroclor-1232		ND	ND	**30366**
Aroclor-1242		**461639**	**11364**	**1871795**
Aroclor-1248		ND	ND	ND
Aroclor-1254		ND	ND	ND
Aroclor-1260		ND	ND	**5488 JC**

µg/kg - Micrograms per kilogram

C - Result confirmed by GC/MS

J Estimated value

ND - Not detected

SAUGET Analytical Data
Site O

SUBSURFACE SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by Ecology & Environment, Inc. (2/87)

Sample Number	DC-O10-74	DC-O10-75	Maximum
Sample Depth (ft)	5-10	10-15	Concentration
Date Collected	02/26/87	02/26/87	Detected
BNAs			
Phenol	ND	ND	ND
bis(2-Chloroethyl)ether	ND	ND	ND
2-Chlorophenol	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND
1,4-Dichlorobenzene	112821	ND	112821
Benzyl Alcohol	ND	ND	ND
1,2-Dichlorobenzene	100000	ND	100000
2-Methylphenol	ND	ND	ND
bis(2-Chloroisopropyl)ether	ND	ND	ND
4-Methylphenol	ND	ND	ND
N-Nitroso-n-Dipropylamine	ND	ND	ND
Hexachloroethane	ND	ND	ND
Nitrobenzene	ND	ND	ND
Isophorone	ND	ND	ND
2-Nitrophenol	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND
Benzoic Acid	ND	ND	ND
bis-(2-Chloroethoxy)methane	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND
1,2,4-Trichlorophenol	ND	ND	26923 J
Naphthalene	ND	ND	34615 J
4-Chloroaniline	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND
2-Methylnaphathalene	7308	ND	160256
Hexachlorocyclopentadiene	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND
2-Nitroaniline	ND	ND	ND
Dimethyl Phthalate	ND	ND	ND
Acenaphthylene	ND	ND	ND
3-Nitroaniline	ND	ND	ND
Acenaphthene	ND	ND	2561 J

µg/kg - Micrograms per kilogram

B - Compound detected in blank sample

E - Estimated value. Concentration detected exceeds the calibrated range

J - Estimated value

ND - Not detected

recycled paper
ecology and environment

SAUGET Analytical Data
Site O

SUBSURFACE SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC O10 74	DC-O10 75	Maximum
	Sample Depth (ft)	5-10	10-15	Concentration
	Date Collected	02/26/87	02/26/87	Detected
BNAs				
2,4-Dinitrophenol		ND	ND	ND
4-Nitrophenol		ND	ND	ND
Dibenzofuran		ND	ND	1463 J
2,4-Dinitrotoluene		ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND
Diethylphthalate		ND	ND	ND
4-Chlorophenyl-Phenylether		ND	ND	ND
Fluorene		ND	ND	3049 J
4-Nitroaniline		ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	50000 J
4-Bromophenyl-phenylether		ND	ND	ND
Hexachlorobenzene		ND	ND	ND
Pentachlorophenol		112821 J	7159 J	474359 J
Phenanthrene		42308	863 J	217949
Anthracene		ND	ND	5357
Di-n-butly phthalate		ND	5000 J	7195 J
Fluoranthene		11026 J	ND	43590 J
Pyrene		82051	1477 J	282051
Butyl Benzyl phthalate		3846154 E	67045	3846154 E
3,3'-Dichlorobenzidine		ND	ND	ND
Benzo (a)anthracene		ND	ND	121795
bis(2-ethylhexyl)phthalate		ND	1080 J	2439 JB
Chrysene		82051	1818 J	282051
Di-n-octyl phthalate		ND	ND	ND
Benzo(b)fluoranthene		ND	ND	79487 J
Benzo(k)fluoranthene		ND	ND	ND
Benzo (a)pyrene		ND	ND	66667 J
Indeno(1,2,3-cd)pyrene		ND	ND	ND
Benzo(g,h,l)perylene		ND	ND	52564 J
Dibenzo(a,h)anthracene		ND	ND	ND

µg/kg - Micrograms per kilogram
B - Compound detected in blank sample
E - Estimated value. Concentration detected exceeds the calibrated range
J - Estimated value
ND - Not detected

SAUGET Analytical Data
Site O

SUBSURFACE SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC-O1-59	DC-O2-60	DC-O3-61	DC-O4-62	DC-O5-63	DC-O5 64	DC-O8-65	DC-O6-66	DC-O9-72	DC-O9-73
	Sample Depth (ft)	15-25	20-30	10-20	0-10	8 5-20	8 5-20	NA	15-25	0-10	15-20
	Date Collected	02/16/87	02/17/87	02/17/87	02/17/87	02/17/87	02/17/87	02/18/87	02/18/87	02/26/87	02/26/87
BNAs								BLANK			
Phenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	4634 J	ND
Benzyl Alcohol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	24339 J	ND	ND	ND	ND	32927	ND
2-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-n-Dipropylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic Acid		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis-(2-Chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	26923 J	ND	ND	ND	ND	25610	ND
Naphthalene		ND	ND	ND	34615 J	ND	ND	ND	ND	6707 J	ND
4-Chloroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphathalene		ND	ND	ND	160256	ND	ND	ND	ND	31707	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND	2561 J	ND

µg/kg - Micrograms per kilogram
B - *Compound detected in blank sample*
E - Estimated value. Concentration detected exceeds the calibrated range
J - Estimated value
ND - Not detected

recycled paper
ecology and environment

SAUGET Analytical Data
Site O

SUBSURFACE SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC-O1 59	DC-02 60	DC-03-61	DC-04 62	DC-05 63	DC-05 64	DC-08-65	DC-06-66	DC-09 72	DC-09 73
	Sample Depth (ft)	15-25	20-30	10-20	0-10	8 5-20	8 5-20	NA	15-25	0-10	15-20
	Date Collected	02/16/87	02/17/87	02/17/87	02/17/87	02/17/87	02/17/87	02/18/87	02/18/87	02/26/87	02/26/87
BNAs								BLANK			
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ND	1463 J	ND
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenylether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND	ND	ND	ND	3049 J	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	50000 J	ND	ND	ND	ND	10244 J	ND
4-Bromophenyl-phenylether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol		ND	ND	22619	474359 J	ND	ND	ND	ND	329268	6420 J
Phenanthrene		ND	ND	ND	217949	963 J	ND	ND	ND	21951	469 J
Anthracene		ND	ND	5357	ND	ND	ND	ND	ND	4146 J	ND
Di-n-butly phthalate		ND	ND	ND	ND	3780 J	ND	2785 J	ND	7195 J	6049
Fluoranthene		ND	ND	ND	43590 J	ND	ND	ND	ND	7317 J	ND
Pyrene		ND	ND	ND	282051	ND	ND	ND	ND	62195	1605 J
Butyl Benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a)anthracene		ND	ND	ND	121795	ND	ND	ND	ND	25610	ND
bis(2-ethylhexyl)phthalate		ND	ND	1905 BJ	ND	ND	2439 JB	ND	ND	ND	914 J
Chrysene		ND	ND	ND	282051	ND	1951 J	ND	ND	62195	1605 J
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	79487 J	ND	ND	ND	ND	17073 J	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a)pyrene		ND	ND	ND	66667 J	ND	ND	ND	ND	19512	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	52564 J	ND	ND	ND	ND	17073 J	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

µg/kg - Micrograms per kilogram
B - Compound detected in blank sample
E - Estimated value. Concentration detected exceeds the calibrated range
J - Estimated value
ND - Not detected

SAUGET Analytical Data
Site O

SUBSURFACE SOIL SAMPLES
Volatile Organic Compounds (µg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC-O1-59	DC-O2-60	DC-O3-61	DC-O4-62	DC-O5-63	DC-O5-64	DC-O8-65	DC-O6-66	DC-O9-72	DC-O9-73
	Sample Depth (ft)	15-25	20-30	10-20	0-10	8.5-20	8.5-20	NA	15-25	0-10	15-20
	Date Collected	02/16/87	02/17/87	02/17/87	02/17/87	02/17/87	2/17/87	2/18/87	2/18/87	2/26/87	2/26/87
VOC								BLANK			
Chloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	35	10 J	833 BJ	ND	18 J	139 B	4 J	878 BJ	519 BJ
Acetone		1379 BE	9103 BE	4405 BE	7692 B	8659 BE	11463 BE	ND	457 B	ND	2593 B
Carbon Disulfide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	10 J	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		ND	192	6 J	ND	ND	ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		ND	23	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)		30 B	25641 BE	36 B	7179 B	244 B	171 B	ND	20 B	ND	4444 B
1,1,1-Trichloroethane		ND	ND	ND	1410	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene		ND	69	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene		ND	667	24	30769	ND	18 J	ND	ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone		ND	1244 B	ND	7692	ND	ND	ND	ND	ND	ND
2-Hexanone		ND	63	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	28	ND	ND	ND	ND	ND	ND	ND	ND
Toluene		ND	ND	ND	29487	ND	ND	ND	ND	293 J	ND
Chlorobenzene		ND	1667	62	38462	74	159	ND	ND	841 J	ND
Ethylbenzene		ND	46	167	166667 E	37 J	57 J	ND	ND	2439	74 J
Styrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes		ND	141	976	615385 E	244	256	ND	ND	21951	235 J

µg/kg - Micrograms per kilogram

B - Compound detected in blank sample

E - Estimated value. Concentration detected exceeds the calibrated range

J - Estimated value

ND - Not detected

recycled paper

ecology and environment

SAUGET Analytical Data
Site O

SUBSURFACE SOIL SAMPLES
Volatile Organic Compounds (µg/kg)
Collected by Ecology & Environment, Inc. (2/87)

	Sample Number	DC O10 74	DC O10-75	Maximum
	Sample Depth (ft)	5-10	10-15	Concentration
	Date Collected	02/26/87	02/26/87	Detected
VOC				
Chloromethane		ND	ND	ND
Bromomethane		ND	ND	ND
Vinyl chloride		ND	ND	ND
Chloroethane		ND	ND	ND
Methylene chloride		731 BJ	341 BJ	878 BJ
Acetone		3846 B	2514 B	11463 BE
Carbon Disulfide		ND	ND	ND
1,1-Dichloroethene		ND	ND	ND
1,1-Dichloroethane		ND	ND	10 J
trans-1,2-Dichloroethene		ND	ND	192
Chloroform		ND	ND	ND
1,2-Dichloroethane		ND	ND	23
2-Butanone (MEK)		7436 B	6705 B	25641 BE
1,1,1-Trichloroethane		ND	ND	1410
Carbon Tetrachloride		ND	ND	ND
Vinyl Acetate		ND	ND	ND
Bromodichloromethane		ND	ND	ND
1,2-Dichloropropane		ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND
Trichloroethene		ND	ND	69
Dibromochloromethane		ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND
Benzene		1795	ND	30769
cis-1,3-Dichloropropene		ND	ND	ND
2-Chloroethyl Vinyl Ether		ND	ND	ND
Bromoform		ND	ND	ND
4-Methyl-2-pentanone		ND	ND	7692
2-Hexanone		ND	ND	63
Tetrachloroethene		ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	28
Toluene		4339	ND	29487
Chlorobenzene		58974	1250	58974
Ethylbenzene		9103	341 J	166667 E
Styrene		ND	ND	ND
Total Xylenes		29487	1114 J	615385 E

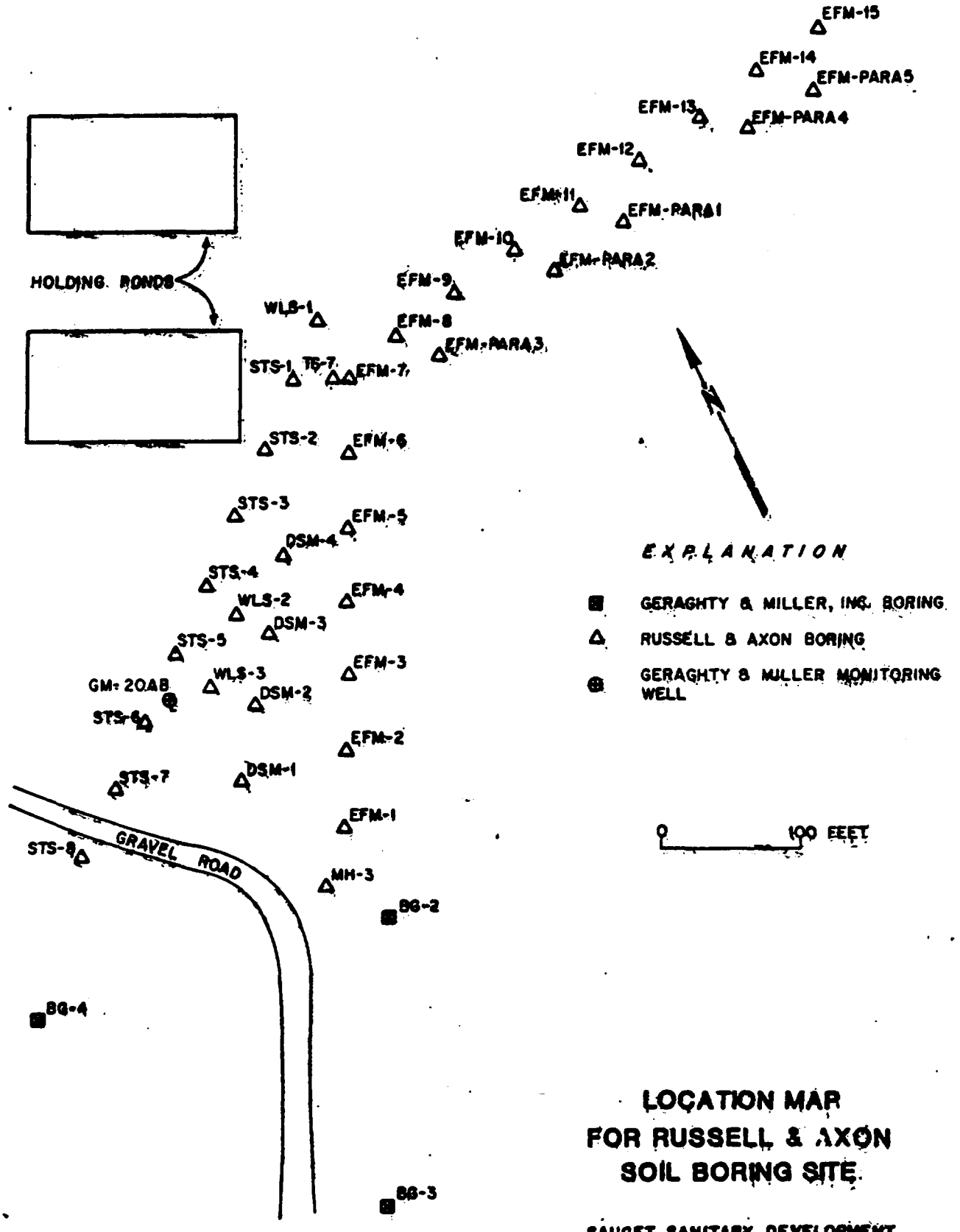
µg/kg - Micrograms per kilogram

B - Compound detected in blank sample

E - Estimated value. Concentration detected exceeds the calibrated range

J - Estimated value

ND - Not detected



LOCATION MAP FOR RUSSELL & AXON SOIL BORING SITE

SAUGET SANITARY DEVELOPMENT AND RESEARCH ASSOCIATION
SAUGET, ILLINOIS

GERAGHTY & MILLER, INC.
Ground-Water Consultants

recycled paper

recycled paper

FIGURE 3

ecology and environment

ecology and environment

Table 9. (continued)

Soil Boring No.	Depth of Sample (feet below land surface)	Photoionization Sensitive Compounds (ppm)
EFM-15	0 - 4	0
	4 - 9	0
EFM-13	0 - 4	0
	4 - 9	0
EFM-14	0 - 4	0
	4 - 9	0
EFM-Para 4	0 - 4	0
	4 - 9	0
EFM-Para 5	0 - 4	0
	4 - 9	0
WLS-1	0 - 4	0
	4 - 9	0
WLS-2	0 - 4	0
	4 - 9	0
MH-3	23 1/2	30
EFM-#1	0 - 1	40
	3 1/2	90
	19	90
	24	32
EFM-#3	0 - 3	32
	3 - 7	18
	7 - 14	18
EFM-#2	0 - 3 1/2	30
	3 1/2 - 8	30
	8 - 13	32
	13 - 14	40
EFM-#4	1 - 4	58
	4 - 7	58
	9 - 12	60

Table 9. Results of Soil Sample Analyses for Photoionization-Sensitive Compounds from Selected Depths and Locations Collected by Russell and Axon in September 1983, Sauget Sanitary Development and Research Association, Sauget, Illinois.

Soil Boring No.	Depth of Sample (feet below land surface)	Photoionization Sensitive Compounds (ppm)
STS-3	0 - 4	0
	4 - 9	0
STS-1	0 - 4	0
	4 - 9	0
	9 - 11	0
	11 - 13 1/2	0
	13 1/2 - 18 1/2	
TS-7	0 - 4	0
	4 - 9	0
	9 - 14 1/2	0
EFM-7	0 - 4	0
	4 - 8	0
	8 - 14	0
EFM-6	0 - 4	0
	4 - 9	0
	9 - 14	0
EFM-5	0 - 4	0
	4 - 8	0
	8 - 14	0
STS-4	0 - 4	18
	4 - 9	0
	9 - 14	6
STS-5	0 - 4	110
	4 - 8	20 - 40
	8 - 14	0 - 20
STS-6	0 - 1.3	110
	1.3 - 4	60
	4 - 6.5	40 - 80
	7.5 - 8.5	0 - 20
	9 - 14	0

recycled paper
recycled paper
ecology and environment
ecology and environment

NOTE: THE DATA PRESENTED IN THIS SECTION IS PRESENTED IN THE ORIGINAL REPORT FORMAT.

SOURCE: "Assessment of Ground-Water Conditions at the Village of Sauget Treatment Plant Sites", Sauget, Illinois, prepared by Geraghty & Miller, December 1986

LOCATION MAP - GERAGHTY & MILLER BORINGS BG-1 TO BG-12

Source: "Assessment of Groundwater Conditions at the village of Sauget Treatment Plant Sites", Geraghty & Miller, 1986

Table 10. (Continued)

Soil Boring No.	Sample Collection Date	Depth of Sample (feet below land surface)	Photoionization-Sensitive Compounds (ppm)	PCBs (ppm)
BG-11	8-23-84	0 - 1.5	0	NA
		1.5 - 3	0	NA
		3 - 4.5	0	NA
		4.5 - 6	0	NA
		6 - 7.5	0	NA
		7.5 - 9	0	NA
BG-12	8-23-84	0 - 1.5	0	NA
		1.5 - 3	0	NA
		3 - 4.5	0	NA
		4.5 - 6	200	NA
		6 - 7.5	150	91.59[d)]
		7.5 - 9	5	NA
		9 - 10.5	5	NA

d) The zone of black sludge material is from 5.5 to 7.5 feet.

Table 10. Results of Soil Sample Analyses for Photoionization-Sensitive Compounds and PCBs From Selected Depths and Locations, Collected by Geraghty & Miller, Inc. Sauget Sanitary Development and Research Association, Sauget, Illinois.

Soil Boring No.	Sample Collection Date	Depth of Sample (feet below land surface)	Photoionization-Sensitive Compounds (ppm)	PCBs (ppm)
BG-1	8-21-84	0 - 1.5	0	NA[a]
		1.5 - 3	0	NA
		3 - 4.5	0	NA
		4.5 - 6	0	NA
		6 - 7.5	0	NA
		7.5 - 9	0	NA
		9 - 10.5	0	NA
BG-2	8-21-84	0 - 1.5	0	NA
		1.5 - 3	75	NA
		3 - 4.5	150	NA
		4.5 - 6	150	NA
		6 - 7.5	50	NA
		7.5 - 9	75	NA
BG-3	8-21-84	0 - 1.5	10	NA
		3 - 4.5	125	NA
		4.5 - 6	250	88.10
		6 - 7.5	200	NA
		7.5 - 9	175	NA
		9 - 10.5	175	NA
BG-4	8-21-84	0 - 1.5	0	NA
		1.5 - 3	30	NA
		3 - 4.5	0	NA
		4.5 - 6	0	NA
		6 - 7.5	0	NA
		7.5 - 9	5	NA
BG-5	8-22-84	0 - 1.5	0	NA
		1.5 - 3	0	NA
		3 - 4.5	30	NA[b]
		4.5 - 6	175	NA
		6 - 7.5	150	NA
		7.5 - 9	30	NA
		9 - 10.5	30	NA

a) Not analyzed
b) Black sticky lagoon sludge (3-inches thick) was detected at 5.75-6 feet. Insufficient recovery for analysis. It appeared to be the same material as was detected in BG-12.

Table 10. (Continued)

Soil Boring No.	Sample Collection Date	Depth of Sample (feet below land surface)	Photoionization-Sensitive Compounds (ppm)	PCBs (ppm)
BG-6	8-22-84	0 - 1.5	0	NA
		1.5 - 3	0	NA
		3 - 4.5	0	NA
		4.5 - 6	185	NA
		6 - 7.5	195	NA
		7.5 - 9	10	NA
BG-7	8-22-84	0 - 1.5	0	NA
		1.5 - 3	150	NA
		3 - 4.5	0	NA
		4.5 - 6	0	NA
		6 - 7.5	0	NA
		8.5 - 10	0	NA
		10 - 11.5	0	NA
BG-8	8-22-84	0 - 1.5	0	NA
		1.5 - 3	0	NA
		3 - 4.5	0	NA
		4.5 - 6	0	NA
		6 - 7.5	0	NA
		7.5 - 9	0	NA
		9 - 10.5	0	NA
BG-9	8-22-84	0 - 1.5	0	NA
		1.5 - 3	0	NA
		3 - 4.5	0	NA
		4.5 - 6	0	NA
		6 - 7.5	0	NA
		7.5 - 9	0	NA
		9 - 10.5	0	NA
BG-10	8-22-84	0 - 1.5	10	NA
		1.5 - 3	10	12.47
		3 - 4.5	10	NA
		4.5 - 6	15	NA
		6 - 7.5	-c)	NA
		7.5 - 9	-c)	NA
		9 - 10.5	0	NA

c) No recovery of soil sample.

SAUGET Analytical Data
Area 2 - Monsanto

SOIL SAMPLES
Acid Extractable Organic Compounds (ug/kg)
Collected by Geraghty & Miller (8/21-23/84)

	Sample Number	BG-2	BG-3	BG-10	BG-12							Maximum
	Sample Depth (ft)	3-4 5	6-7 5	0 5-1 5	5 5-6							Detected
ACID EXTRACTABLE												
2-Chlorophenol		ND	ND	ND	ND							ND
2,4-Dichlorophenol		170,000	100,000	11,500	69,400							170000
2,4-Dimethylphenol		ND	ND	ND	ND							ND
4,6-Dinitro-o-cresol		ND	ND	ND	ND							ND
2,4-Dinitrophenol		ND	ND	ND	ND							ND
2-Nitrophenol		ND	ND	ND	ND							ND
4-Nitrophenol		ND	ND	ND	ND							ND
p-Chloro-m-cresol		ND	ND	ND	ND							ND
Pentachlorophenol		1,430,000	1,620,000	181,000	382,000							**1620000**
Phenol		151,000	ND	ND	104,000							**151000**
2,4,6-Trichlorophenol		214,000	108,000	11,500	32,900							214000

recycled paper

ecology and environment

SAUGET Analytical Data
Area 2 - Monsanto

SOIL SAMPLES
Pesticide/PCB Compounds (ug/kg)
Collected by Geraghty & Miller (8/21-23/84)

	Sample Number	BG-2	BG-3	BG-10	BG-12							Maximum
	Sample Depth (ft)	3-4 5	6-7 5	0 5-1 5	5 5-6							Detected
PESTICIDE/PCB												
Aldrin		8.58	10.5	8.58	ND							10 5
Alpha-BHC		34.4	16.5	34.4	ND							34 4
Beta-BHC		ND	ND	ND	ND							ND
Gamma-BHC		22.9	32.7	22.9	ND							32 7
Delta-BHC		ND	ND	ND	ND							ND
Chlordane		ND	ND	72.2	ND							72 2
4,4'-DDT		ND	ND	ND	ND							ND
4,4'-DDE		ND	ND	ND	ND							ND
4-4'-DDD		ND	ND	ND	ND							ND
Dieldrin		ND	ND	ND	ND							ND
Endosulfan I		ND	ND	ND	ND							ND
Endosulfan II		ND	ND	ND	ND							ND
Endosulfan sulfate		ND	ND	ND	ND							ND
Endrin		ND	ND	ND	ND							ND
Endrin aldehyde		ND	0.287	ND	ND							0.287
Heptachlor		28.4	29.8	28.4	ND							29 8
Heptachlor epoxide		ND	ND	ND	830							830
PCB-1016		1.9	1.22	1.9	ND							1 9
PCB-1221		ND	ND	ND	ND							ND
PCB-1232		ND	ND	ND	ND							ND
PCB-1242		ND	ND	ND	ND							ND
PCB-1248		ND	ND	ND	ND							ND
PCB-1254		ND	ND	43.2	ND							43.2
PCB-1260		ND	ND	ND	ND							ND
Toxaphene		ND	ND	ND	ND							ND

SAUGET Analytical Data

Area 2 - Monsanto

SOIL SAMPLES

Volatile Organic Compounds (ug/kg)

Collected by Geraghty & Miller (8/21-23/84)

	Sample Number	BG-2	BG-3	BG-10	BG-12							Maximum
	Sample Depth (ft)	3-4 5	6-7 5	0 5-1 5	5.5-6							
VOC												Max
Acrolein		ND	ND	ND	ND							ND
Acrylonitrile		ND	ND	ND	ND							ND
Benzene		b)	b)	1,000	1,700							1700
Bis (chloromethyl)ether		ND	ND	ND	ND							ND
Bromoform		ND	ND	ND	ND							ND
Carbon Tetrachloride		b)	b)	ND	ND							ND
Chlorobenzene		ND	ND	ND	ND							ND
Chlorodibromomethane		ND	ND	ND	ND							ND
Chloroethane		ND	ND	ND	ND							ND
2-Chloroethylvinyl ether		ND	ND	ND	ND							ND
Chloroform		ND	ND	ND	ND							ND
Dichlorobromomethane		ND	ND	ND	ND							ND
Dichlorodifluoromethane		ND	ND	ND	ND							ND
1,1-Dichloroethane		ND	ND	ND	ND							ND
1,2-Dichloroethane		ND	ND	ND	ND							ND
1,1-Dichloroethylene		ND	ND	ND	ND							ND
1,2-Dichloropropane		ND	ND	ND	ND							ND
cis-1,3-Dichloropropylene		ND	ND	ND	ND							ND
trans-1,3-Dichloroproy;ene		ND	ND	ND	ND							ND
Ethylbenzene		b)	b)	1,600	440							1600
Methyl Bromide		ND	ND	ND	ND							ND
Methyl Chloride		ND	ND	ND	ND							ND
Methylene Chloride		ND	ND	25,900	15,400							25900
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND							ND
Tetrachloroethylene		ND	ND	ND	ND							ND
Toluene		b)	b)	6,900	4,800							6900
1,2-trans-dichloroethylene		ND	ND	ND	ND							ND
1,1,1-Trichloroethane		ND	ND	ND	ND							ND
1,1,2-Trichloroethane		ND	ND	ND	ND							ND
Trichloroethylene		ND	ND	ND	ND							ND
Trichlorofluoromethane		ND	ND	ND	ND							ND
Vinyl Chloride		ND	ND	ND	ND							ND

recycled paper
ecology and environment

SAUGET Analytical Data
Area 2 - Monsanto

SOIL SAMPLES
Base/Neutral Extractable Compounds (ug/kg)
Collected by Geraghty & Miller (8/21-23/84)

	Sample Number	BG-2	BG-3	BG-10	BG-12							Maximum
	Sample Depth (ft)	3-4 5	6-7 5	0 5-1 5	5 5-6							Detected
Base/Neutral												
Acenaphthene		ND	ND	ND	ND							ND
Acenapthylene		ND	ND	ND	ND							ND
Anthracene		ND	ND	ND	ND							ND
Benzidine		ND	ND	ND	ND							ND
Benzo(a)anthracene		10,400	8,000	ND	41,600							41600
Benzo(a)pyrene		9,650	8,000	ND	42,400							42400
Benzo(a)fluoranthene		ND	ND	ND	ND							ND
Benzo(ghi)perylene		4,660	5,000	ND	63,000							63000
Benzo(k)fluoranthene		9,600	6,000	ND	40,500							40500
Bis(2-chloroethoxy)methane		ND	ND	ND	ND							ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND							ND
Bis(2-chloroisopropyl)ether		ND	ND	ND	ND							**ND**
Bis(2-ethylhexyl)phthalate		ND	7,000	7,610	ND							**7610**
4-Bromophenyl phenyl ether		ND	ND	ND	ND							**ND**
Butyl benzyl phthalate		342,000	ND	ND	206,000							342000
2-Chloronaphthalene		ND	ND	ND	ND							ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND							ND
Chrysene		18,400	15,000	ND	87,000							**87000**
Dibenzo(a,h)anthracene		5,170	ND	ND	34,800							**34800**
1,2-Dichlorobenzene		606,000	595,000	4,380	247,000							**606000**
1,3-Dichlorobenzene		ND	ND	ND	ND							ND
1,4-Dichlorobenzene		1,030,000	795,000	3,430	364,000							1030000
3,3-Dichlorobenzidine		ND	ND	ND	ND							ND
Diethyl phthalate		ND	ND	ND	ND							**ND**
Dimethyl phthalate		ND	ND	ND	ND							ND
Di-n-buyl phthalate		ND	ND	ND	ND							**ND**
2,4-Dinitrotoluene		ND	ND	ND	ND							ND
2,6-Dinitrotoluene		ND	ND	ND	ND							ND
Di-n-octyl phthalate		ND	5,000	ND	ND							5000
1,2-Diphenylhydrazine		ND	ND	ND	ND							ND
Fluoranthene		ND	2,000	ND	74,600							74600
Fluorene		ND	7,000	ND	13,500							13500
Hexachlorobenzene		ND	ND	ND	ND							ND
Hexachlorobutadiene		ND	ND	ND	ND							ND
Hexachlorocyclopentadiene		ND	ND	ND	ND							ND
Hexachloroehtane		ND	ND	ND	ND							ND
Indeno(1,2,3-c,d)pyrene		ND	ND	ND	26,800							26800
Isophorone		ND	ND	ND	ND							ND
Naphthalene		ND	ND	ND	10,400							10400
Nitrobenzene		ND	ND	ND	ND							ND
n-Nitrosodimethylamine		ND	ND	ND	ND							ND
n-Nitrosodi-n-propylamine		ND	ND	ND	ND							ND
n-Nitrosodiphenylamine		ND	ND	ND	ND							**ND**
Phenanthrene		ND	ND	ND	230,000							230000
Pyrene		ND	ND	ND	ND							ND
1,2,4-Trichlorob[illegible]e		ND	ND	ND	5,920							59[illegible]

NOTE: THE DATA PRESENTED IN THIS SECTION IS PRESENTED IN THE ORIGINAL REPORT FORMAT AND A PORTION IS PRESENTED IN THE E & E SUMMARY TABLE FORMAT.

SOURCE: "Assessment of Ground-Water Conditions at the Village of Sauget Treatment Plant Sites", Sauget, Illinois, prepared by Geraghty & Miller, December 1986

Site Q Data

SAUGET Analytical Data
Site Q

SURFACE SOIL SAMPLES
Volatile Organic Compounds (µg/kg)
Collected by IEPA (11/9-10/94)

Sample Number	X101	X102	X103	X104	X105	X106	X107	X108	X109	X110
VOC										
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	15	6 J	ND	ND	5 J	ND	ND	6 J	ND	12 J
Acetone	ND	ND	ND	ND	27	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	24	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	240	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	10 J	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	10 J	ND	ND	ND	ND	18	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	5 J	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	8 J	ND	ND	ND	14	ND	ND	ND	ND	8 J
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	ND	ND	ND	ND	14	ND	ND	ND	ND	ND

µg/kg - Micrograms per kilogram.

J - Estimated value

ND - Not detected

recycled paper

ecology and environment

SAUGET Analytical Data
Site Q

SURFACE SOIL SAMPLES
Volatile Organic Compounds (µg/kg)
Collected by IEPA (11/9-11/10/1994)

	Sample Number		X111	Maximum Detected
VOC				
Chloromethane			ND	ND
Bromomethane			ND	ND
Vinyl chloride			ND	ND
Chloroethane			ND	ND
Methylene chloride			ND	15
Acetone			ND	27
Carbon Disulfide			ND	ND
1,1-Dichloroethene			ND	ND
1,1-Dichloroethane			ND	24
1,2-Dichloroethene (total)			ND	240
Chloroform			ND	10 J
1,2-Dichloroethane			ND	ND
2-Butanone			ND	ND
1,1,1-Trichloroethane			ND	18
Carbon Tetrachloride			ND	ND
Vinyl Acetate			ND	ND
Bromodichloromethane			ND	ND
1,2-Dichloropropane			ND	ND
trans-1,3-Dichloropropene			ND	ND
Trichloroethene			ND	6 J
Dibromochloromethane			ND	ND
1,1,2-Trichloroethane			ND	ND
Benzene			ND	5 J
cis-1,3-Dichloropropene			ND	ND
2-Chloroethyl Vinyl Ether			ND	ND
Bromoform			ND	ND
4-Methyl-2-pentanone			ND	ND
2-Hexanone			ND	ND
Tetrachloroethene			ND	5 J
1,1,2,2-Tetrachloroethane			ND	ND
Toluene			ND	14
Chlorobenzene			ND	ND
Ethylbenzene			ND	ND
Styrene			ND	ND
Total Xylenes			ND	14

µg/kg - Micrograms per kilogram.

J - Estimated value.

ND - Not detected.

SAUGET Analytical Data
Site Q

SURFACE SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by IEPA (11/9-10/94)

	Sample Number	X101	X102	X103	X104	X105	X106	X107	X108	X109	X110
BNAs											
Phenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl Alcohol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol		ND	ND	ND	ND	ND	ND	270 J	ND	ND	ND
bis(2-Chloroisopropyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	ND	ND	ND	ND	280 J	ND	ND	ND
N-Nitroso-n-Dipropylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	210 J	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND	ND	270 J	ND	ND	ND
Benzoic Acid		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis-(2-Chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	160 J	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphathalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

µg/kg - Micrograms per kilogram.
B - Compound detected in blank sample.
J - Estimated value.
ND - Not detected.

recycled paper
ecology and environment

SAUGET Analytical Data
Site Q

SURFACE SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by IEPA (11/9-10/94)

	Sample Number	X101	X102	X103	X104	X105	X106	X107	X108	X109	X110
BNAs											
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenylether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	ND	ND	ND	ND	76 J	ND
Anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butly phthalate		ND	ND	ND	ND	ND	ND	ND	340 J	310 J	380 J
Fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	160 J	ND
Pyrene		ND	ND	ND	ND	ND	ND	ND	ND	170 J	ND
Butyl Benzyl phthalate		ND	ND	ND	ND	ND	ND	120 J	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	89 J	ND
bis(2-ethylhexyl)phthalate		1200000 B	13000 B	9300 B	110000000 B	13000 B	120000 B	1900 B	3800 B	310 JB	1000 B
Chrysene		ND	ND	ND	ND	ND	ND	ND	ND	110 J	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	87 J	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	96 J	ND
Benzo (a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	84 J	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

µg/kg - Micrograms per kilogram.
B - Compound detected in blank sample
J - Estimated value
ND - Not detected.

SAUGET Analytical Data
Site Q

SURFACE SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by IEPA (11/9-10/94)

	Sample Number		X111	Maximum Detected
BNAs				
Phenol			ND	ND
bis(2-Chloroethyl)ether			ND	ND
2-Chlorophenol			ND	ND
1,3-Dichlorobenzene			ND	ND
1,4-Dichlorobenzene			ND	ND
Benzyl Alcohol			ND	ND
1,2-Dichlorobenzene			ND	ND
2-Methylphenol			ND	**270 J**
bis(2-Chloroisopropyl)ether			ND	ND
4-Methylphenol			ND	**280 J**
N-Nitroso-n-Dipropylamine			ND	ND
Hexachloroethane			ND	ND
Nitrobenzene			ND	ND
Isophorone			ND	**210 J**
2-Nitrophenol			ND	ND
2,4-Dimethylphenol			ND	**270 J**
Benzoic Acid			ND	ND
bis-(2-Chloroethoxy)methane			ND	ND
2,4-Dichlorophenol			ND	ND
1,2,4-Trichlorophenol			ND	ND
Naphthalene			ND	ND
4-Chloroaniline			ND	ND
Hexachlorobutadiene			ND	**160 J**
4-Chloro-3-methylphenol			ND	ND
2-Methylnaphathalene			ND	ND
Hexachlorocyclopentadiene			ND	ND
2,4,6-Trichlorophenol			ND	ND
2,4,5-Trichlorophenol			ND	ND
2-Chloronaphthalene			ND	ND
2-Nitroaniline			ND	ND
Dimethyl Phthalate			ND	ND
Acenaphthylene			ND	ND
3-Nitroaniline			ND	ND
Acenaphthene			ND	ND

µg/kg - Micrograms per kilogram.
B - Compound detected in blank sample.
J - Estimated value.
ND - Not detected.

recycled paper

ecology and environment

SAUGET Analytical Data
Site Q

SURFACE SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by IEPA (11/9-10/94)

	Sample Number	X111	Maximum Detected
BNAs			
2,4-Dinitrophenol		ND	ND
4-Nitrophenol		ND	ND
Dibenzofuran		ND	ND
2,4-Dinitrotoluene		ND	ND
2,6-Dinitrotoluene		ND	ND
Diethylphthalate		ND	ND
4-Chlorophenyl-Phenylether		ND	ND
Fluorene		ND	ND
4-Nitroaniline		ND	ND
4,6-Dinitro-2-methylphenol		ND	ND
N-Nitrosodiphenylamine		ND	ND
4-Bromophenyl-phenylether		ND	ND
Hexachlorobenzene		ND	ND
Pentachlorophenol		ND	ND
Phenanthrene		73 J	76 J
Anthracene		62 J	62
Carbazole		ND	ND
Di-n-butly phthalate		250 J	380 J
Fluoranthene		140 J	160 J
Pyrene		140 J	170 J
Butyl Benzyl phthalate		ND	120 J
3,3'-Dichlorobenzidine		ND	ND
Benzo (a)anthracene		ND	89 J
bis(2-ethylhexyl)phthalate		1500	110000000 B
Chrysene		110 J	110 J
Di-n-octyl phthalate		ND	ND
Benzo(b)fluoranthene		110 J	110 J
Benzo(k)fluoranthene		88 J	96 J
Benzo (a)pyrene		ND	84 J
Indeno(1,2,3-cd)pyrene		ND	ND
Benzo(g,h,i)perylene		ND	ND
Dibenzo(a,h)anthracene		ND	ND

µg/kg - Micrograms per kilogram.
B - Compound detected in blank sample
J - Estimated value.
ND - Not detected.

SAUGET Analytical Data
Site Q

SURFACE SOIL SAMPLES
Pesticides/PCBs/Herbicides (μg/kg)
Collected by IEPA (11/9-10/94)

	Sample Number	X101	X102	X103	X104	X105	X106	X107	X108	X109	X110
Pesticides/PCBs											
Alpha-BHC		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Beta-BHC		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Delta-BHC		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Gamma-BHC (Lindane)		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Heptachlor		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Aldrin		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Heptachlor Epoxide		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Endosulfan I		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Dieldrin		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
4,4'-DDE		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Endrin		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Endosulfan II		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
4,4'-DDD		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Endosulfan sulfate		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
4,4'-DDT		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Methoxychlor		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Endrin Ketone		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Chlordane		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Toxaphene		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Aroclor-1016		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Aroclor-1221		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Aroclor-1232		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Aroclor-1242		ND	ND	ND	ND	ND	ND	ND	DM	DM	DM
Aroclor-1248		ND	ND	**500**	ND	ND	ND	**4800 P**	DM	DM	DM
Aroclor-1254		**110000 P**	**1100 P**	**2300**	**14000 P**	**22000**	**1700 P**	**11000 E**	DM	DM	DM
Aroclor-1260		**83000**	**460**	**1500**	**12000**	**6500 P**	**2300**	**8800 PE**	DM	DM	DM

μg/kg - Micrograms per kilogram.

DM - Data missing.

E - Estimated value Concentration detected exceeds the calibrated range

P - Greater than 25% differnce exists for the detected concentrations between the two GC columns. The lower of the results is reported.

recycled paper

ecology and environment

SAUGET Analytical Data
Site Q

SURFACE SOIL SAMPLES
Pesticides/PCBs/Herbicides (µg/kg)
Collected by IEPA (11/9-10/94)

	Sample Number		X111	Maximum Detected
Pesticides/PCBs				
Alpha-BHC			DM	ND
Beta-BHC			DM	ND
Delta-BHC			DM	ND
Gamma-BHC (Lindane)			DM	ND
Heptachlor			DM	ND
Aldrin			DM	ND
Heptachlor Epoxide			DM	ND
Endosulfan I			DM	ND
Dieldrin			DM	ND
4,4'-DDE			DM	ND
Endrin			DM	ND
Endosulfan II			DM	ND
4,4'-DDD			DM	ND
Endosulfan sulfate			DM	ND
4,4'-DDT			DM	ND
Methoxychlor			DM	ND
Endrin Ketone			DM	ND
Chlordane			DM	ND
Toxaphene			DM	ND
Aroclor-1016			DM	ND
Aroclor-1221			DM	ND
Aroclor-1232			DM	ND
Aroclor-1242			DM	ND
Aroclor-1248			DM	**4800 P**
~~Aroclor-1254~~			~~DM~~	**110000 P**
Aroclor-1260			DM	**83000**

µg/kg - Micrograms per kilogram.
DM - Data missing.
E - Estimated value. Concentration detected exceeds the calibrated range.
P - Greater than 25% differnce exists for the detected concentrations between the two GC columns. The lower of the results is reported.

SAUGET Analytical Data
Site Q

SURFACE SOIL SAMPLES
Total Metals (mg/kg)
Collected by IEPA (11/9-10/94)

	Sample Number	X101	X102	X103	X104	X105	X106	X107	X108	X109	X110
Total Metals											
Aluminum		10700 *	5710 *	3240 *	3500 *	237 *	3250 *	5630 *	3330 *	5590 *	1030 *
Antimony		157 N*	ND	17900 N*	ND	ND	ND	ND	ND	ND	47.6 N*
Arsenic		13.7 N*S	1.4 BN*S	216 N*S	1.6 BNW*	0.47 BN*	0.93 BN*	2.7 N*S	3.3 N*S	3 N*S	19.3 N*S
Barium		1220 N*	141 N*	1680 N*	63.3 N*	188 N*	3620 N*	103 N*	150 N*	123 N*	1120 N*
Beryllium		0.54 B	0.49 B	0.3 B	0.31 B	ND	ND	0.44 B	ND	0.47 B	ND
Cadmium		2260 *	3.9 *	8.7	1.1 B*	1.4 *	1.5 *	28.7 *	6 *	1.9 *	1.2 B
Calcium		13400	18000	10300	152000	456 B	1320	4360	2090	9070	413 B
Chromium		3650 *	12.1 *	142 *	5.8 *	3 *	7 *	287 *	43.9 *	10.4 *	40.8
Cobalt		18.7	7.4 B	13.3 B	2.9 B	ND	3.7 B	8.2 B	5.7 B	8 B	6.9 B
Copper		324	18.7	1630	7.6	2.8 B	9	32.8	166	21.6	226
Iron		63500 *	11600 *	80500 *	5450 *	469 *	2170 *	22500 *	7920 *	10900 *	65200 *
Lead		7690	152 *	195000 *	18100 *	62.2 *	41.1	191 *	571 *	52 *	5320 *
Magnesium		2940	4250	1350	4600	56.9 B	2350	2040	1230 B	2830	89.9 B
Manganese		606	372	1270	275	4	62.3	334	133	455	152
Mercury		4.9	ND	0.25	ND	ND	0.14	ND	0.3	ND	0.64
Nickel		153 N*	17.6 N*	101 N*	8.1 BN*	ND	6.5 BN*	23.1 N*	18.7 N*	18.9 N*	371 N*
Potassium		1310 B	1030 B	446 B	604 B	ND	301 B	898 B	598 B	940 B	2430
Selenium		59.9 *S	ND	ND	ND	2.1 B*	ND	1.5 *S	0.33 B*W	ND	ND
Silver		3.3 N	ND	30.2 N	ND	ND	ND	ND	ND	ND	28.9 N
Sodium		268 B	ND	ND	810 B	ND	ND	ND	ND	ND	476 B
Thallium		ND	ND	0.89 B	ND	ND	ND	ND	ND	ND	ND
Vanadium		7.3 B	16	ND	7.6 B	ND	10 B	13.8	9.1 B	13.6 B	ND
Zinc		7290 *	689	9520 *	95 *	10.8 *	66.1 *	2010 *	338 *	206 *	120 *
Cyanide		3.3	ND	2.8	ND	ND	ND	ND	ND	ND	ND
Sulfate		82.4	ND	55.9	ND	907	ND	76.1	170	4780	901
Sulfide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

mg/kg - Milligrams per kilogram

B - Estimated value. The value is less than the CRDL, but greater than the instrument detection limit

N - Laboratory spike recoveries were outside QC protocols

ND - Not detected.

S - Analysis performed using the method of standard additions

W - Laboratory post-digestion spike for furnace AA analysis exceeds QC limits

* - Laboratory duplicate analysis not within control limits

recycled paper

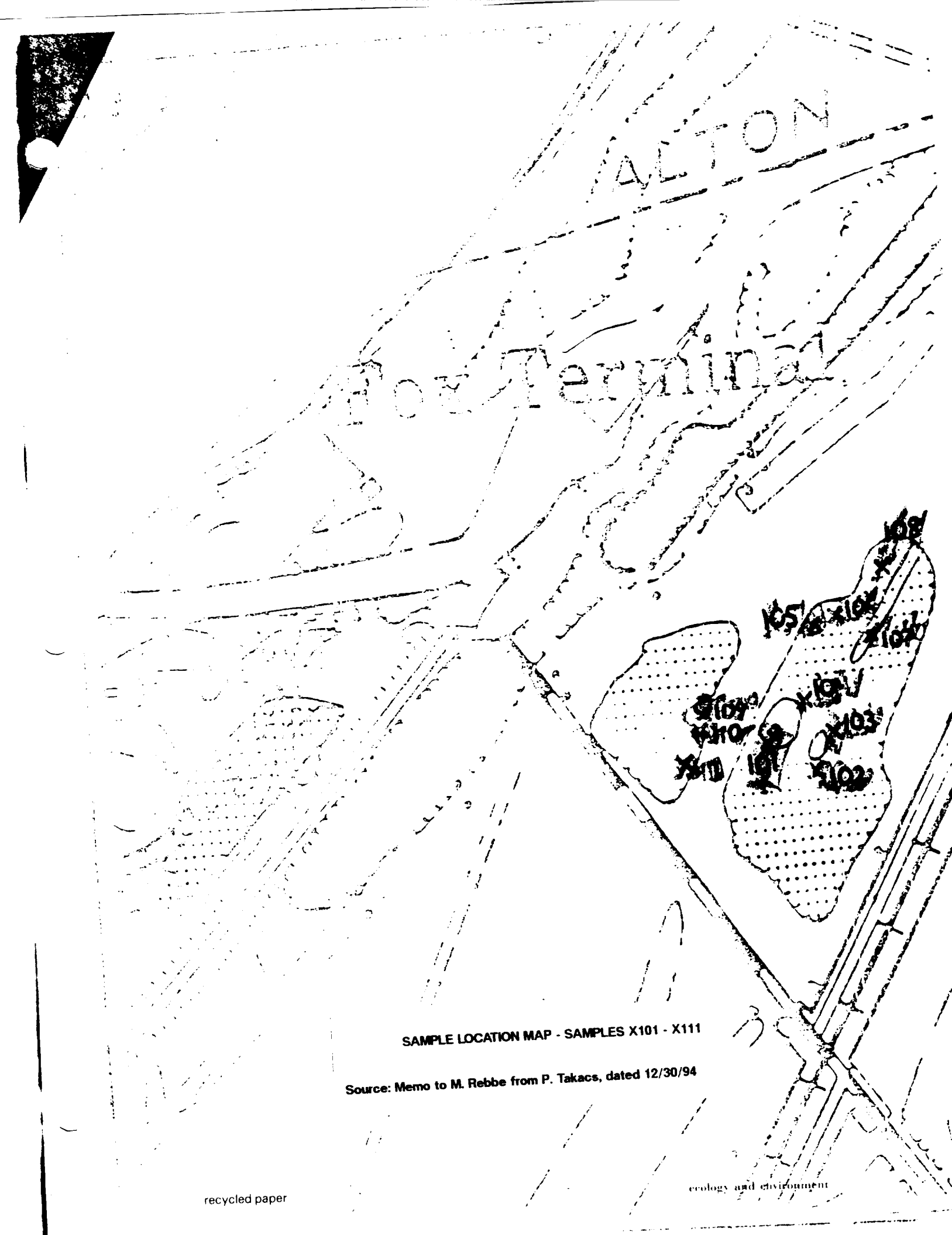
printed with soybean ink on recycled paper

SAUGET Analytical Data
Site Q

SURFACE SOIL SAMPLES
Total Metals (mg/kg)
Collected by IEPA (11/9-10/94)

	Sample Number	X111	Maximum Detected
Total Metals			
Aluminum		10100 *	10700 *
Antimony		ND	17900 N*
Arsenic		4.4 BN*S	216 N*S
Barium		170 N*	3620 N*
Beryllium		0.73 B	0.73 B
Boron		1.9 *	2260 *
Cadmium		11500	152000
Chromium		15.6 *	3650 *
Cobalt		9.7 B	18.7
Copper		38	1630
Iron		17100 *	80500 *
Lead		58.1 *	195000 *
Magnesium		3990	4600
Manganese		597	1270
Mercury		ND	4.9
Nickel		25.9 N*	371 N*
Potassium		1520	2430
Selenium		ND	59.9 *S
Silver		ND	30.2 N
Sodium		ND	810 B
Thallium		ND	0.89 B
Vanadium		23.1 B	23.1
Zinc		216 *	9520 *
Cyanide		ND	3.3
Sulfate		300	4780
Sulfide		ND	ND

mg/kg - Milligrams per kilogram.
B - Estimated value. The value is less than the CRDL, but greater than the instrument detection limit
N - Laboratory spike recoveries were outside QC protocols.
ND - Not detected
S - Analysis performed using the method of standard additions
W - Laboratory post-digestion spike for furnace AA analysis exceeds QC limits
* - Laboratory duplicate analysis not within control limits



SAMPLE LOCATION MAP - SAMPLES X101 - X111

Source: Memo to M. Rebbe from P. Takacs, dated 12/30/94

recycled paper

SAUGET Analytical Data
Site Q

SOIL SAMPLES
Semi-Volatiles (µg/kg)
Collected by E&E (5/27/94)

	Sample Number	QD1	QD2	QD3	Maximum
Semi-Volatiles					**Concentration**
Phenol		**69000 JD**	ND	ND	**69000 JD**
2-Chlorophenol		**67000 JD**	ND	ND	**67000 JD**
1,4-Dichlorobenzene		**110000 JD**	ND	ND	**110000 JD**
N-Nitroso-di-n-propylamine		**42000 JD**	ND	ND	**42000 JD**
1,2,4-Trichlorobenzene		**51000 JD**	ND	ND	**51000 JD**
4-Chloro-3-Methylphenol		**67000 JD**	ND	ND	**67000 JD**
Acenaphthene		**44000 JD**	ND	ND	**44000 JD**
4-Nitrophenol		**24000 JD**	ND	ND	**24000 JD**
2,4-Dinitrotoluene		**40000 JD**	ND	ND	**40000 JD**
Pentachlorophenol		**20000 JD**	ND	ND	**20000 JD**

µg/kg - Micrograms per kilogram.
D - Compound concentration is at a secondary dilution factor.
J - Estimated value.
ND - Not detected.

recycled paper

ecology and environment

SAUGET Analytical Data
Site Q

SOIL SAMPLES
TCLP Metals (µg/L)
Collected by E&E (5/27/94)

	Sample Number	QD1	QD2	QD3	Maximum
Total Metals					**Concentration**
Arsenic		ND	ND	ND	ND
Barium		**320**	**440**	**390**	**440**
Cadmium		ND	ND	ND	ND
Chromium		ND	ND	ND	ND
Lead		ND	ND	ND	ND
Mercury		ND	ND	ND	ND
Lead		ND	ND	ND	ND
Selenium		ND	ND	ND	ND
Silver		ND	ND	ND	ND

µg/L - Micrograms per liter
ND - Not detected.

SAUGET Analytical Data
Site Q

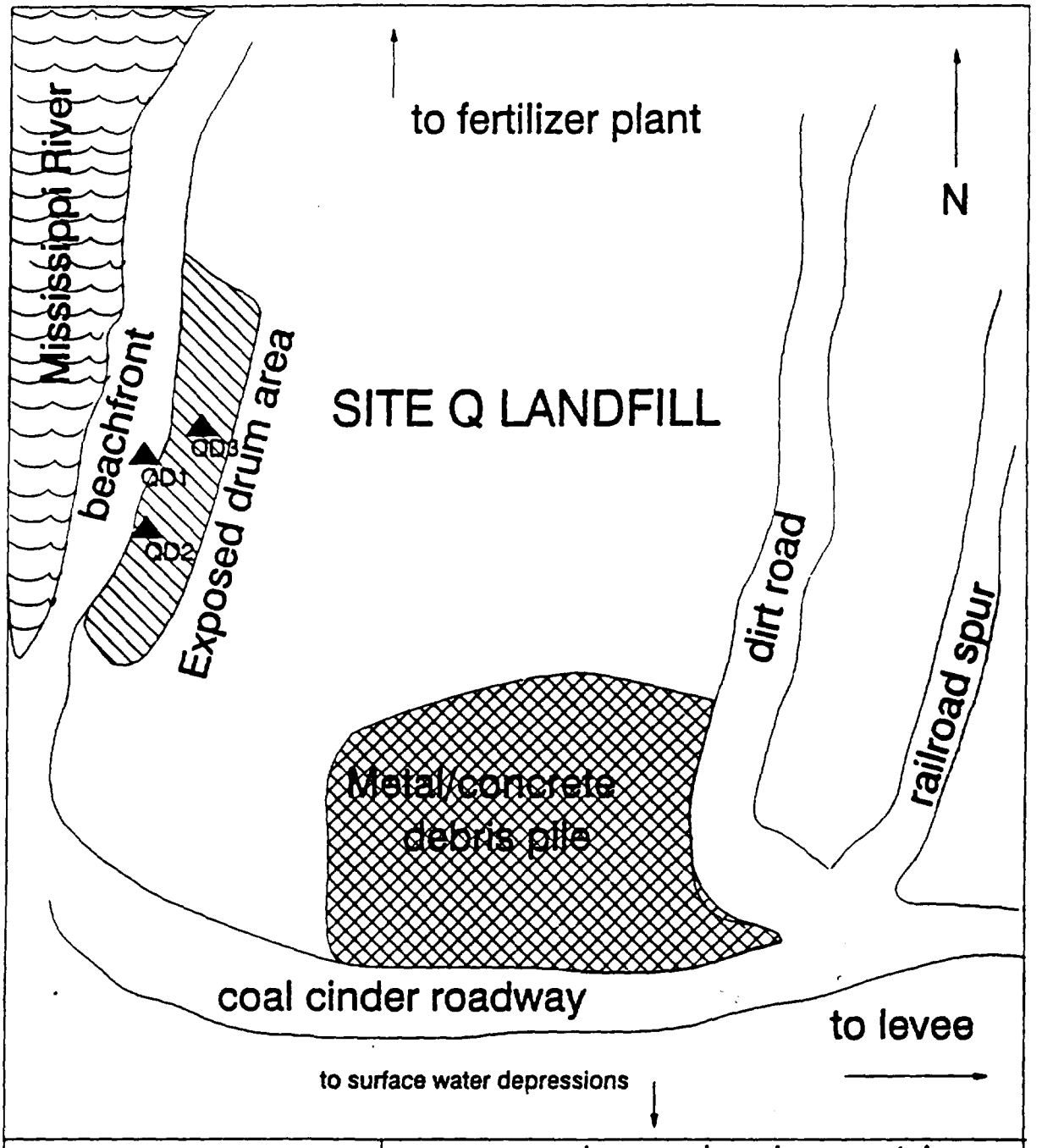
SOIL SAMPLES
TCLP Semi-Volatiles (µg/L) and PCBs (mg/kg)
Collected by E&E (5/27/94)

Sample Number	QD1	QD2	QD3	Maximum Concentration
TCLP and PCB				
2,4,6-Trichlorophenol	ND	6.3 J	ND	6.3 J
Pentachlorophenol	ND	16 J	ND	16 J
PCB - 1260 (mg/kg)	180000	260000	230000	260000

µg/L - Micrograms per liter.
mg/kg - Milligrams per kilogram
J - estimated value
PCBs - polychlorinated biphenyls

recycled paper

ecology and environment



KEY

▲ Drum Sample

ecology and environment, inc.
Technical Assistance Team
Region V
111 West Jackson Blvd.
Chicago, IL 60604

TITLE: SAMPLE LOCATION MAP		FIGURE #: 3
SITE: SAUGET AREA 2 - SITE Q		SCALE: NOT TO SCALE
CITY: SAUGET	STATE: ILLINOIS	FAN: EIL0837SAA

recycled paper

ecology and environment

SAUGET Analytical Data
Site Q

SOIL SAMPLES (Sampling date not known)
Volatile Organic Compounds (µg/kg)
Collected by Riedel Industrial Waste Management, Inc.

	Sample Number	PIT #2	Maximum Concentration
VOC			
Chloromethane		ND	ND
Bromomethane		ND	ND
Vinyl chloride		ND	ND
Chloroethane		ND	ND
Methylene chloride		ND	ND
Carbon Disulfide		ND	ND
1,1-Dichloroethene		ND	ND
1,1-Dichloroethane		ND	ND
1,2-Dichloroethene (total)		ND	ND
Chloroform		**69000**	**69000**
1,2-Dichloroethane		ND	ND
2-Butanone		**30200**	**30200**
1,1,1-Trichloroethane		ND	ND
Carbon Tetrachloride		ND	ND
Vinyl Acetate		ND	ND
Bromodichloromethane		ND	ND
1,2-Dichloropropane		ND	ND
cis-1,3-Dichloropropene		ND	ND
Trichloroethene		ND	ND
Dibromochloromethane		ND	ND
1,1,2-Trichloroethane		ND	ND
Benzene		ND	ND
trans-1,3-Dichloropropene		ND	ND
Bromoform		ND	ND
4-Methyl-2-pentanone		ND	ND
2-Hexanone		ND	ND
Tetrachloroethene		ND	ND
1,1,2,2-Tetrachloroethane		ND	ND
Toluene		**5500**	**5500**
Chlorobenzene		**15700**	**15700**
Ethylbenzene		**2780**	**2780**
Styrene		ND	ND
Total Xylenes		**6300**	**6300**

µg/kg - Micrograms per kilogram
ND - Not detected

recycled paper
geology and environmental

SAUGET Analytical Data
Site Q

SOIL SAMPLES (Sampling date not known)
Base Neutrals/Acids (µg/kg)
Collected by Riedel Industrial Waste Management, Inc.

	Sample Number	PIT #1	Maximum Concentration
BNAs			
Phenol		ND	ND
bis(2-Chloroethyl)ether		ND	ND
2-Chlorophenol		ND	ND
1,3-Dichlorobenzene		ND	ND
1,4-Dichlorobenzene		ND	ND
Benzyl Alcohol		ND	ND
1,2-Dichlorobenzene		ND	ND
2-Methylphenol		ND	ND
bis(2-Chloroisopropyl)ether		ND	ND
4-Methylphenol		ND	ND
N-Nitroso-n-Dipropylamine		ND	ND
Nitrobenzene		ND	ND
Isophorone		ND	ND
2-Nitrophenol		ND	ND
2,4-Dimethylphenol		ND	ND
Benzoic Acid		ND	ND
bis-(2-Chloroethoxy)methane		ND	ND
2,4-Dichlorophenol		ND	ND
1,2,4-Trichlorophenol		ND	ND
Naphthalene		ND	ND
4-Chloroaniline		ND	ND
Hexachlorobutadiene		ND	ND
4-Chloro-3-methylphenol		ND	ND
2-Methylnaphthalene		ND	ND
Hexachlorocyclopentadiene		ND	ND
2,4,6-Trichlorophenol		ND	ND
2,4,5-Trichlorophenol		ND	ND
2-Chloronaphthalene		ND	ND
2-Nitroaniline		ND	ND
Dimethyl Phthalate		ND	ND
Acenaphthylene		ND	ND
3-Nitroaniline		ND	ND
Acenaphthene		ND	ND

µg/kg - Micrograms per kilogram
ND - Not detected

SAUGET Analytical Data
Site Q

SOIL SAMPLES (Sampling date not known)
Base Neutrals/Acids (µg/kg)
Collected by Riedel Industrial Waste Management, Inc.

	Sample Number	PIT #1	Maximum Concentration
BNAs			
2,4-Dinitrophenol		ND	ND
4-Nitrophenol		ND	ND
Dibenzofuran		ND	ND
2,4-Dinitrotoluene		ND	ND
2,6-Dinitrotoluene		ND	ND
Diethylphthalate		ND	ND
4-Chlorophenyl-Phenylether		ND	ND
Fluorene		ND	ND
4-Nitroaniline		ND	ND
4,6-Dinitro-2-methylphenol		ND	ND
N-Nitrosodiphenylamine		ND	ND
4-Bromophenyl-phenylether		ND	ND
Hexachlorobenzene		ND	ND
Pentachlorophenol		ND	ND
Phenanthrene		ND	ND
Anthracene		ND	ND
Di-n-butly phthalate		ND	ND
Fluoranthene		ND	ND
Pyrene		ND	ND
Butyl Benzyl phthalate		ND	ND
3,3'-Dichlorobenzidine		ND	ND
Benzo (a)anthracene		ND	ND
bis(2-ethylhexyl)phthalate		ND	ND
Chrysene		ND	ND
Di-n-octyl phthalate		ND	ND
Benzo(b)fluoranthene		ND	ND
Benzo(k)fluoranthene		ND	ND
Benzo (a)pyrene		ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND
Benzo(g,h,i)perylene		ND	ND
Dibenzo(a,h)anthracene		ND	ND

µg/kg - Micrograms per kilogram
ND - Not detected

recycled paper
ecology and environment

SAUGET Analytical Data
Site Q

SOIL SAMPLES (Sampling date not known)

Collected by Riedel Industrial Waste Management, Inc.

	Sample Number	PIT #2	Maximum Detected
Test Performed			
EP Extraction		ND	ND
RCRA Metals (mg/kg)			ND
Arsenic		<0.4	ND
Barium		**27.8**	27.8
Cadmium		<0.5	ND
Chromium		<0.5	ND
Lead		<0.5	ND
Mercury		<0.1	ND
Selenium		<0.2	ND
Silver		<0.5	ND
Ignitability (setflash)		--	--
Corrosivity (pH)		--	--
Cyanide		--	--
Sulfides		--	--
Phenols		--	--
PCB Contamination (mg/kg)		342	342

mg/kg - Milligrams per kilogram
ND - Not detected

SAUGET Analytical Data
Site Q

SOIL SAMPLES
Organics (µg/kg)
Collected by Ecology & Environment, Inc. (7/83)

	Sample Number	B1A	B1B	B2A	B2B	B3A	B3B	B4A	B4B
	Sample Depth(ft)	10 - 11 5	17 5 - 19	13 5 - 15 5	17 - 19	10 - 12	13 5 - 15 5	10 - 12	13 5 - 15 5
Organics									
2, 3, 7, 8-TCDD		ND	ND	ND	ND	ND	ND	ND	3.31
2, 4, 6-trichlorophenol		2500	170000	22000	520	1400	1500	ND	94000
2-chlorophenol		24000	65000	800	ND	1500	LT	57000	360000
2, 4-dichlorophenol		66000	3100000	31000	1700	760	4500	ND	370000
2, 4-dimethylphenol		ND	ND	500	ND	ND	ND	ND	72000
4, 6-dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND
pentachlorophenol		ND	86000	5400	LT	ND	11000	ND	100000
phenol		24000	55000	45000	4400	3200	100000	98000	88000
2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND
4-methylphenol		ND	ND	LT	ND	560	LT	ND	330000
2, 4, 5-trichlorophenol		ND	ND	ND	LT	ND	ND	ND	ND
acenaphthene		ND	ND	1200	2800	ND	ND	ND	ND
1, 2, 4-trichlorobenzene		ND	ND	ND	480	ND	ND	LT	100000
1, 2-dichlorobenzene		LT	ND	LT	ND	ND	LT	ND	20000
1, 4-dichlorobenzene		ND	ND	1800	720	LT	760	LT	66000
fluoranthene		ND	ND	ND	1200	ND	ND	ND	LT
isophorone		ND	ND	ND	ND	ND	ND	ND	ND
naphthalene		ND	ND	11000	8300	ND	ND	ND	LT
nitrobenzene		ND	8800	400	ND	ND	ND	ND	56000
N-nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate		ND	ND	ND	LT	ND	ND	ND	62000
butyl benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND
di-n-butyl phthalate		ND	ND	ND	ND	ND	ND	ND	LT
di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND
diethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND
benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND
benzo(a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND
benzo(b)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND
benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND
chrysene		ND	ND	ND	ND	ND	ND	ND	ND
anthracene		ND	ND	ND	400	ND	ND	ND	ND
benzo(ghi)perylene		ND	ND	ND	ND	ND	ND	ND	ND
fluorene		ND	ND	600	2000	ND	ND	ND	ND
phenanthrene		ND	ND	1000	2700	ND	ND	ND	LT
dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND	ND	ND
indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND	ND	ND
pyrene		ND	ND	LT	LT	ND	ND	ND	LT
aniline		ND	ND	ND	ND	ND	ND	ND	ND
4-chloroaniline		ND	ND	LT	ND	ND	ND	ND	ND
dibenzofuran		ND	ND	1000	3000	ND	ND	ND	ND
2-methylnaphthalene		ND	ND	2000	2300	ND	ND	ND	ND
3-nitroaniline		ND	ND	4600	ND	ND	ND	ND	ND
benzene		ND	ND	ND	ND	ND	ND	ND	ND

µg/kg - Micrograms per kilogram
ND - Not Detected
LT - Present, but lower than the detection limit for low hazard analyses

recycled paper

SAUGET Analytical Data
Site Q

SOIL SAMPLES
Organics (µg/kg)
Collected by Ecology & Environment, Inc. (7/83)

	Sample Number	B1A	B1B	B2A	B2B	B3A	B3B	B4A	B4B
	Sample Depth(ft)	10 -11.5	17.5 - 19	13.5 - 15.5	17 - 19	10 - 12	13.5 - 15.5	10 - 12	13.5 - 15.5
Organics									
chlorobenzene		ND	ND	ND	ND	ND	ND	**10000**	**40000**
1,2-dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND
1,2-trans-dichloroethene		ND	ND	ND	ND	ND	ND	ND	ND
ethylbenzene		ND	ND	ND	ND	ND	ND	ND	ND
methylene chloride		ND	ND	**7.4**	**3.7**	LM	**8**	ND	ND
tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND
toluene		ND	ND	ND	ND	ND	ND	ND	ND
trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND
acetone		ND	ND	**960**	ND	ND	**977**	ND	LM
2-butanone		ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone		ND	ND	ND	ND	ND	LT	ND	ND
styrene		ND	ND	ND	ND	ND	ND	ND	ND
o-xylene		ND	ND	ND	ND	ND	ND	ND	**5100**
PCB-1242		ND	ND	ND	**2**	ND	ND	--	--
PCB-1254		ND	ND	ND	ND	ND	ND	--	--
PCB-1248		**1000**	ND	ND	ND	ND	ND	--	--
PCB-1260		ND	ND	**485.2**	ND	**69.6**	ND	--	--
PCB-1016		ND	ND	**2120.6**	ND	ND	ND	--	--
Total PCB		NR	NR	NR	NR	NR	NR	**68000**	**1000000**

µg/kg - Micrograms per kilogram
ND - Not Detected
LT - Present, but lower than the detection limit for low hazard analyses
LM - Present, but lower than the detection limit for medium hazard analyses
NR - Total PCBs not reported
-- Only PCB Total was reported

SAUGET Analytical Data
Site Q

SOIL SAMPLES
Organics (µg/kg)
Collected by Ecology & Environment, Inc. (7/83)

	Sample Number	B5A	B5B	B6A	B6B	B7A	B7B	B8A	B8B
	Sample Depth(ft)	13 5-15 5	17 0-19 0	10 0-12 0	13 5-15 5	10 0-12 0	13 5-15 5	13 5-15 5	17 5-19 5
Organics									
2, 3, 7, 8-TCDD		ND	ND	ND	ND	ND	ND	ND	**0.11**
2, 4, 6-trichlorophenol		**130000**	**26000**	**2700**	**4800**	**2700**	ND	**480000**	**10000**
2-chlorophenol		**31000**	**8400**	**1600**	**1600**	LT	ND	ND	ND
2, 4-dichlorophenol		**560000**	**260000**	**17000**	**15000**	**6100**	ND	**1500000**	**64000**
2, 4-dimethylphenol		ND	ND	**2000**	ND	ND	ND	ND	ND
4, 6-dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND
pentachlorophenol		ND	ND	ND	**16000**	**25000**	**31000**	ND	ND
phenol		**140000**	**250000**	**45000**	**11000**	**1800**	ND	ND	ND
2-methylphenol		ND	ND	**1400**	**600**	ND	ND	ND	ND
4-methylphenol		ND	**36000**	**7000**	**1400**	ND	ND	ND	ND
2, 4, 5-trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND
acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND
1, 2, 4-trichlorobenzene		**86000**	**13000**	ND	ND	ND	ND	**120000**	ND
1, 2-dichlorobenzene		**100000**	**28000**	LT	ND	ND	ND	**180000**	ND
1, 4-dichlorobenzene		ND	ND	**3100**	**800**	ND	ND	LT	ND
fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND
isophorone		ND	ND	ND	ND	ND	ND	ND	ND
naphthalene		ND	LT	**800**	LT	ND	ND	**380000**	LT
nitrobenzene		**27000**	**11000**	LT	ND	ND	ND	**52000**	ND
N-nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate		ND	ND	ND	ND	ND	ND	ND	ND
butyl benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND
di-n-butyl phthalate		ND	ND	**400**	LT	ND	ND	ND	ND
di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND
diethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND
benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND
benzo(a)pyrene		ND	ND	ND	ND	ND	LT	ND	ND
benzo(b)fluoranthene		ND	ND	ND	ND	ND	LT	ND	ND
benzo(k)fluoranthene		ND	ND	ND	ND	ND	LT	ND	ND
chrysene		ND	ND	ND	ND	ND	LT	ND	ND
anthracene		ND	ND	ND	ND	ND	ND	ND	ND
benzo(ghi)perylene		ND	ND	ND	ND	ND	ND	ND	ND
fluorene		ND	ND	ND	ND	ND	ND	ND	ND
phenanthrene		ND	ND	ND	ND	ND	ND	ND	ND
dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND	ND	ND
indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND	ND	ND
pyrene		ND	ND	ND	ND	ND	ND	ND	ND
aniline		ND	ND	ND	ND	ND	ND	ND	ND
4-chloroaniline		ND	ND	**9000**	ND	ND	ND	ND	ND
dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ND
3-nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND
benzene		ND	ND	ND	ND	ND	**3.2**	LM	ND

µg/kg - Micrograms per kilogram
ND - Not Detected
LT - Present, but lower than the detection limit for low hazard analyses
LM - Present, but lower than the detection limit for medium hazard analyses

recycled paper
ecology and environment

SAUGET Analytical Data
Site Q

SOIL SAMPLES
Organics (µg/kg)
Collected by Ecology & Environment, Inc. (7/83)

	Sample Number	B5A	B5B	B6A	B6B	B7A	B7B	B8A	B8B
	Sample Depth(ft)	13.5-15.5	17.0-19.0	10.0-12.0	13.5-15.5	10.0-12.0	13.5-15.5	13.5-15.5	17.5-19.5
Organics									
chlorobenzene		18000	27000	100000	8.4	ND	4.2	7100	ND
1,2-dichloroethane		ND	ND	12000	3.4	ND	ND	ND	ND
1,1-dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND
1,2-trans-dichloroethene		ND	ND	ND	ND	ND	ND	ND	ND
ethylbenzene		ND	ND	46000	3.8	ND	4.5	ND	ND
methylene chloride		ND	ND	ND	15	86	45	LT	ND
tetrachloroethane		ND	ND	ND	ND	ND	LT	ND	ND
toluene		ND	ND	50000	LT	ND	6.1	ND	ND
trichloroethane		ND	ND	ND	ND	ND	LT	ND	ND
acetone		ND	ND	ND	330	200	2600	ND	LM
2-butanone		ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone		ND	ND	ND	LT	LT	LT	ND	ND
styrene		ND	ND	ND	ND	ND	ND	ND	ND
o-xylene		ND	ND	140000	13	LT	22	ND	ND
PCB-1242		170000	ND	ND	ND	ND	ND	1700	2700
PCB-1254		360000	ND	ND	ND	ND	ND	ND	ND
PCB-1248		ND	ND	ND	4700	ND	ND	ND	ND
PCB-1260		ND	ND	ND	ND	590	13000	880	1500
PCB-1016		ND	ND	ND	ND	2300	46000	ND	ND
Total PCB		NR	66000	NR	NR	NR	NR	NR	NR

µg/kg - Micrograms per kilogram.
ND - Not Detected
LT - Present, but lower than the detection limit for low hazard analyses
NR - Total PCBs not reported

SAUGET Analytical Data
Site Q

SOIL SAMPLES
Organics (µg/kg)
Collected by Ecology & Environment, Inc. (7/83)

	Sample Number	B9A	B9B	B10A	B10B	B11A	B11B	B12A	B12B
	Sample Depth(ft)	15.0-17.0	17.0-19.0	17.0-19.0	19.0-21.0	17.0-19.0	19.0-21.0	17.0-19.0	19.0-21.0
Organics									
2, 3, 7, 8-TCDD		ND	ND	P	ND	P	P	ND	ND
2, 4, 6-trichlorophenol		LT	600	48000	640	ND	ND	4400	9400
2-chlorophenol		640	1100	1700	LT	ND	ND	1200	520
2, 4-dichlorophenol		7400	9800	170000	9600	3200	20000	8800	4200
2, 4-dimethylphenol		ND	LT	ND	ND	ND	ND	ND	ND
4, 6-dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND
pentachlorophenol		ND	4800	ND	2200	ND	ND	24000	920
phenol		7500	14000	32000	11000	6200	37000	17000	7500
2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND
4-methylphenol		1400	2300	2700	ND	ND	ND	1000	720
2, 4, 5-trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND
acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND
1, 2, 4-trichlorobenzene		ND	ND	11000	ND	ND	ND	520	3600
1, 2-dichlorobenzene		ND	ND	11000	ND	LT	ND	ND	800
1, 4-dichlorobenzene		ND	LT	27000	ND	LT	ND	ND	1000
fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND
isophorone		ND	ND	ND	ND	17000	LT	ND	720
naphthalene		ND	ND	6500	ND	72000	35000	LT	640
nitrobenzene		ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	LT	ND
bis(2-ethylhexyl)phthalate		440	ND	ND	ND	52000	34000	440	ND
butyl benzyl phthalate		ND	ND	ND	ND	LT	ND	ND	ND
di-n-butyl phthalate		ND	1500	LT	ND	23000	LT	ND	ND
di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND
diethyl phthalate		LT	840	ND	ND	ND	ND	ND	ND
benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND
benzo(a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND
benzo(b)fluoranthene		ND	ND	ND	ND	ND	ND	ND	1000
benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	1000
chrysene		ND	ND	ND	ND	6400	ND	ND	ND
anthracene		ND	ND	ND	ND	ND	ND	ND	ND
benzo(ghi)perylene		ND	ND	ND	ND	ND	ND	ND	ND
fluorene		ND	ND	ND	ND	ND	ND	ND	ND
phenanthrene		ND	ND	ND	ND	5200	ND	ND	ND
dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND	ND	ND
indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND	ND	ND
pyrene		ND	ND	ND	ND	5600	ND	ND	ND
aniline		ND	ND	ND	ND	ND	ND	ND	ND
4-chloroaniline		ND	ND	ND	ND	ND	ND	ND	LT
dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene		ND	ND	ND	ND	10000	ND	ND	ND
3-nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND
benzene		ND	ND	LM	ND	ND	ND	ND	ND

µg/kg - Micrograms per kilogram

ND - Not Detected

LT - Present, but lower than the detection limit for low hazard analyses.

LM - Present, but lower than the detection limit for medium hazard analyses

P - The sample could not be cleaned up sufficiently to yeild TCDD results.

recycled paper
recycled paper and environment

SAUGET Analytical Data
Site Q

SOIL SAMPLES
Organics (µg/kg)
Collected by Ecology & Environment, Inc. (7/83)

	Sample Number	B9A	B9B	B10A	B10B	B11A	B11B	B12A	B12B
	Sample Depth(ft)	15.0-17.0	17.0-19.0	15.0-17.0	17.0-19.0	15.0-17.0	17.0-19.0	15.0-17.0	17.0-19.0
Organics									
chlorobenzene		ND	ND	5200	ND	LM	ND	ND	ND
1,2-dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND
1,2-trans-dichloroethene		ND	ND	ND	ND	ND	ND	ND	ND
ethylbenzene		ND	ND	6500	ND	220000	ND	ND	ND
methylene chloride		3.3	300	8700	LT	ND	ND	LT	ND
tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND
toluene		ND	ND	130000	ND	1300000	100000	ND	LM
trichloroethane		ND	ND	ND	ND	42000	ND	ND	ND
acetone		210	14000	ND	4400	ND	ND	ND	ND
2-butanone		ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone		ND	ND	ND	ND	ND	ND	LT	ND
styrene		ND	ND	ND	ND	ND	ND	ND	ND
o-xylene		ND	ND	30000	ND	650000	70000	ND	LM
PCB-1242		600	ND	NA	ND	ND	ND	ND	ND
PCB-1254		ND	ND	NA	ND	ND	ND	ND	ND
PCB-1248		ND	ND	NA	ND	38000	70000	ND	ND
PCB-1260		1500	1300	NA	120	45000	681000	7000	5000
PCB-1016		ND	ND	NA	78	ND	ND	2200	3900
Total PCB		NR	NR	NR	NR	NR	NR	NR	NR

µg/kg - Micrograms per kilogram
ND - Not Detected
NA - Not Analyzed
LT - Present, but lower than the detection limit for low hazard analyses
NR - Total PCBs not reported

SAUGET Analytical Data
Site Q

SOIL SAMPLES
Organics (µg/kg)
Collected by Ecology & Environment, Inc. (7/83)

	Sample Number	B13A	B13B	B14A	B14B	B15A	B15B	B16A	B17A
	Sample Depth(ft)	17.0-19.0	19.0-21.0	17.0-19.0	19.0-21.0	22.0-24.0	24.0-26.0	22.0-24.0	22.0-24.0
Organics									
2, 3, 7, 8-TCDD		ND	ND	P	P	ND	ND	ND	ND
2, 4, 6-trichlorophenol		20000	4600	ND	ND	800	1900	7700	6400
2-chlorophenol		2500	3800	ND	ND	600	1600	4600	100000
2, 4-dichlorophenol		9400	11000	460000	ND	ND	11000	27000	120000
2, 4-dimethylphenol		ND	LT	ND	ND	ND	ND	680	ND
4, 6-dinitro-2-methylphenol		LT	ND	ND	ND	ND	ND	ND	ND
pentachlorophenol		12000	44000	ND	16000	4200	12000	39000	26000
phenol		8900	15000	ND	ND	6000	13000	16000	50000
2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND
4-methylphenol		920	1400	ND	16000	ND	1000	1900	9200
2, 4, 5-trichlorophenol		ND	ND	ND	ND	ND	ND	LT	ND
acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND
1, 2, 4-trichlorobenzene		2400	3000	13000000	2000000	ND	ND	ND	ND
1, 2-dichlorobenzene		ND	ND	620000	55000	ND	ND	LT	ND
1, 4-dichlorobenzene		1300	2000	1200000	100000	ND	1600	4100	ND
fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND
isophorone		ND	ND	ND	14000	ND	ND	ND	ND
naphthalene		ND	LT	210000	20000	ND	720	2000	ND
nitrobenzene		ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine		ND	400	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate		ND	ND	1100000	220000	ND	ND	ND	4600
butyl benzyl phthalate		ND	ND	ND	LT	ND	LT	ND	ND
di-n-butyl phthalate		ND	LT	900000	49000	LT	3800	ND	ND
di-n-octyl phthalate		ND	LT	ND	ND	ND	ND	ND	ND
diethyl phthalate		ND	ND	ND	ND	ND	LT	ND	ND
benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND
benzo(a)pyrene		LT	ND	ND	ND	ND	ND	ND	ND
benzo(b)fluoranthene		1300*	ND	ND	ND	ND	ND	ND	ND
benzo(k)fluoranthene		1300*	ND	ND	ND	ND	ND	ND	ND
chrysene		ND	ND	ND	ND	ND	ND	ND	ND
anthracene		ND	ND	ND	ND	ND	ND	ND	ND
benzo(ghi)perylene		880	ND	ND	ND	ND	ND	ND	ND
fluorene		ND	ND	ND	ND	ND	ND	ND	ND
phenanthrene		ND	ND	ND	ND	ND	ND	ND	ND
dibenzo(a,h)anthracene		LT	ND	ND	ND	ND	ND	ND	ND
indeno(1,2,3-cd)pyrene		LT	ND	ND	ND	ND	ND	ND	ND
pyrene		ND	ND	ND	ND	ND	ND	ND	ND
aniline		ND	ND	ND	ND	ND	ND	680	ND
4-chloroaniline		LT	2200	ND	ND	ND	ND	9600	ND
dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene		ND	ND	ND	LT	ND	ND	ND	ND
3-nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND
benzene		ND	ND	44000	ND	ND	ND	ND	ND

µg/kg - Micrograms per kilogram

ND - Not Detected

LT - Present, but lower than the detection limit for low hazard analyses

P - The sample could not be cleaned up sufficiently to yeild TCDD results

recycled paper
recycled paper and environment

SAUGET Analytical Data
Site Q

SOIL SAMPLES
Organics (µg/kg)
Collected by Ecology & Environment, Inc. (7/83)

	Sample Number	B13A	B13B	B14A	B14B	B15A	B15B	B16A	B17A
	Sample Depth(ft)	17.0-19.0	19.0-21.0	17.0-19.0	19.0-21.0	22.0-24.0	24.0-26.0	22.0-24.0	22.0-24.0
Organics									
chlorobenzene		ND	ND	63000	LM	ND	ND	ND	ND
1,2-dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane		ND	ND	19000	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane		ND	ND	5700	ND	ND	ND	ND	ND
1,2-trans-dichloroethene		ND	ND	11000	ND	ND	ND	ND	ND
ethylbenzene		ND	ND	790000	330000	ND	LT	ND	ND
methylene chloride		50	13	5800	ND	2.5	23	ND	LM
tetrachloroethane		ND	ND	12000	ND	ND	ND	ND	ND
toluene		ND	ND	2400000	540000	ND	ND	ND	ND
trichloroethane		ND	ND	55000	ND	ND	ND	ND	ND
acetone		90	430	ND	ND	540	1400	ND	ND
2-butanone		ND	ND	LM	ND	ND	ND	ND	ND
4-methyl-2-pentanone		ND	LT	250000	ND	LT	ND	ND	ND
styrene		ND	ND	ND	64000	4.2	5.3	ND	ND
o-xylene		ND	ND	2300000	1400000	ND	LT	ND	ND
PCB-1242		ND	ND	ND	ND	ND	5000	ND	ND
PCB-1254		ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248		ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260		770	1300	2900000	16000000	190	1000	370	68
PCB-1016		ND	ND	ND	ND	210	ND	ND	ND
Total PCB		NR	NR	NR	NR	NR	NR	NR	NR

µg/kg - Micrograms per kilogram.
ND - Not Detected
NA - Not Analyzed
LT - Present, but lower than the detection limit for low hazard analyses
LM - Present, but lower than the detection limit for medium hazard analyses
NR - Total PCBs not reported.

SAUGET Analytical Data
Site Q

SOIL SAMPLES
Organics (µg/kg)
Collected by Ecology & Environment, Inc. (7/83)

	Sample Number	B17B	B18A	B18B	BLANK 1	BLANK 2	Maximum
	Sample Depth(ft)	24.0-26.0	22.0-24.0	24.0-26.0	NA	NA	Concentration
Organics							
2, 3, 7, 8-TCDD		ND	ND	ND	ND	ND	**3.31**
2, 4, 6-trichlorophenol		ND	ND	ND	ND	ND	ND
2-chlorophenol		ND	ND	ND	ND	ND	ND
2, 4-dichlorophenol		ND	ND	ND	ND	ND	ND
2, 4-dimethylphenol		**3800**	ND	ND	ND	ND	**72000**
4, 6-dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND
pentachlorophenol		ND	ND	ND	ND	ND	ND
phenol		ND	ND	ND	ND	ND	ND
2-methylphenol		ND	ND	ND	ND	ND	**1400**
4-methylphenol		ND	ND	ND	ND	ND	ND
2, 4, 5-trichlorophenol		ND	ND	ND	ND	ND	ND
acenaphthene		ND	ND	ND	ND	ND	**2800**
1, 2, 4-trichlorobenzene		ND	ND	ND	ND	ND	ND
1, 2-dichlorobenzene		ND	ND	ND	ND	ND	ND
1, 4-dichlorobenzene		**550**	ND	LT	ND	ND	**1200000**
fluoranthene		ND	ND	ND	ND	**1000**	**1200**
isophorone		ND	ND	ND	ND	ND	**17000**
naphthalene		ND	ND	ND	ND	ND	ND
nitrobenzene		ND	ND	ND	ND	ND	**56000**
N-nitrosodiphenylamine		ND	ND	ND	ND	ND	**400**
bis(2-ethylhexyl)phthalate		**580**	**910**	**1400**	LT	ND	**1100000**
butyl benzyl phthalate		ND	ND	ND	ND	ND	ND
di-n-butyl phthalate		ND	ND	LT	ND	ND	**900000**
di-n-octyl phthalate		ND	LT	ND	ND	ND	ND
diethyl phthalate		ND	ND	ND	ND	ND	**840**
benzo(a)anthracene		ND	**520**	ND	ND	**600**	**600**
benzo(a)pyrene		ND	ND	ND	ND	LT	ND
benzo(b)fluoranthene		ND	LT	ND	ND	LT	**1000**
benzo(k)fluoranthene		ND	LT	ND	ND	LT	**1000**
chrysene		ND	**640**	ND	ND	**560**	**6400**
anthracene		ND	ND	ND	ND	ND	**400**
benzo(ghi)perylene		ND	ND	ND	ND	ND	**880**
fluorene		ND	ND	ND	ND	ND	**2000**
phenanthrene		ND	ND	ND	ND	**720**	**5200**
dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND
indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND
pyrene		ND	LT	ND	ND	**800**	**5600**
aniline		**51000**	**1700**	ND	ND	ND	**51000**
4-chloroaniline		ND	**960**	ND	ND	ND	**9600**
dibenzofuran		ND	ND	ND	ND	ND	**3000**
2-methylnaphthalene		ND	ND	ND	ND	ND	**10000**
3-nitroaniline		ND	ND	ND	ND	ND	**4600**
benzene		ND	ND	ND	ND	ND	**44000**

µg/kg - Micrograms per kilogram

ND - Not Detected

LT - Present, but lower than the detection limit for low hazard analyses

recycled paper

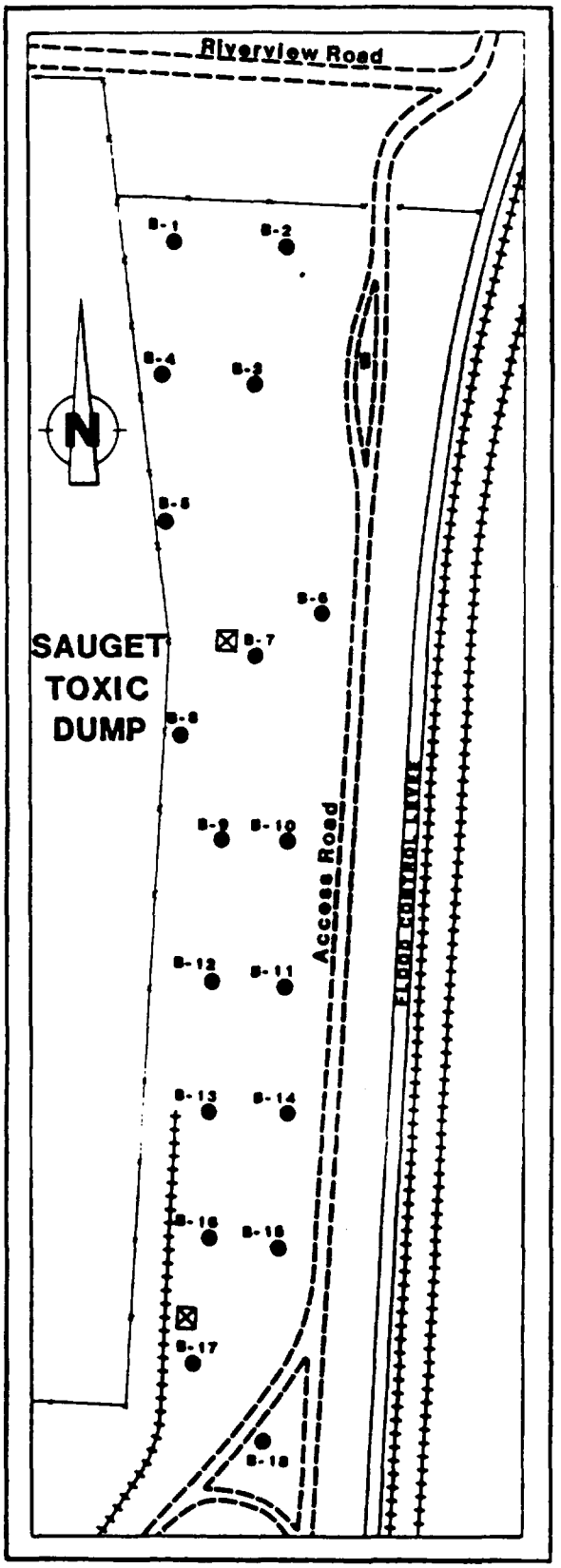
ecology and environment

SAUGET Analytical Data
Site 9

SOIL SAMPLES
Organics (µg/kg)
Collected by Ecology & Environment, Inc. (7/83)

	Sample Number	B17B	B18A	B18B	BLANK 1	BLANK 2	Maximum
	Sample Depth(ft)	24.0-26.0	22.0-24.0	24.0-26.0	NA	NA	Concentration
Organics							
chlorobenzene		4.1	ND	ND	ND	ND	100000
1,2-dichloroethane		ND	ND	ND	ND	ND	12000
1,1-dichloroethane		ND	ND	ND	ND	ND	19000
1,1,2,2-tetrachloroethane		ND	ND	ND	ND	ND	5700
1,2-trans-dichloroethene		ND	ND	ND	ND	ND	11000
ethylbenzene		7.7	ND	ND	ND	ND	790000
methylene chloride		6.1	19	47	LM	6.9	8700
tetrachloroethane		ND	ND	ND	ND	ND	12000
toluene		ND	ND	ND	ND	ND	2400000
trichloroethane		ND	ND	ND	ND	ND	55000
acetone		2000	ND	260	ND	ND	14000
2-butanone		ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone		ND	ND	ND	ND	ND	250000
styrene		ND	ND	ND	ND	ND	64000
o-xylene		23	ND	ND	ND	ND	2300000
PCB-1242		ND	--	ND	ND	ND	ND
PCB-1254		ND	--	ND	ND	ND	360000
PCB-1248		ND	--	ND	ND	ND	70000
PCB-1260		160	--	2400	ND	260	16000000
PCB-1016		ND	--	ND	ND	ND	ND
Total PCB		NR	670	NR	NR	NR	1000000

µg/kg - Micrograms per kilogram.
ND - Not Detected
LM - Present, but lower than the detection limit for medium hazard analyses
NR - Total PCBs not reported.
-- Only PCB Total was reported



SCALE

0 100 200 300 400 500 600 700 800 FEET

FIGURE Q-2

USEPA - FIT SUBSURFACE SOIL SAMPLING LOCATIONS AT SITE Q

LOCATION MAP - Borings B-1 through B-18

recycled paper

Source: "Description of Current Situation at the Dead Creek Project Sites", E&E, 1986

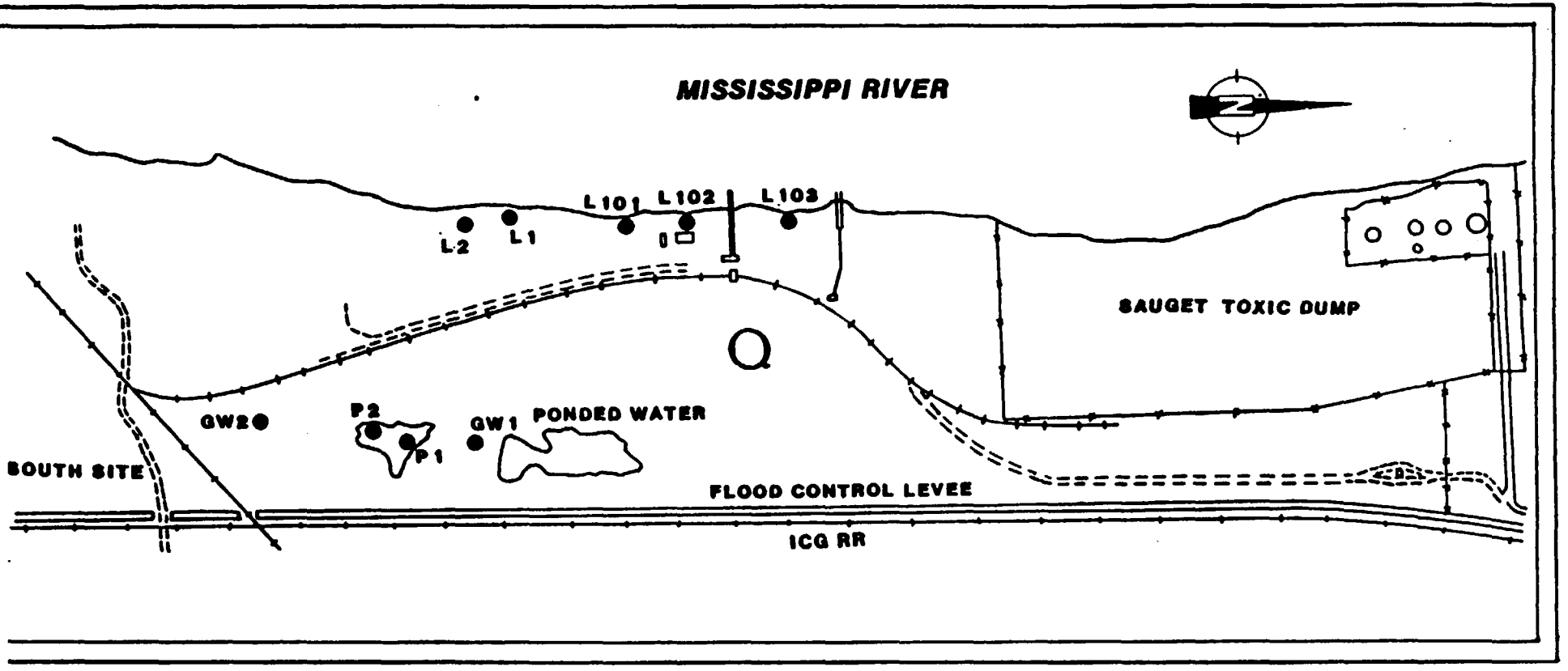
SAUGET Analytical Data
Site Q

SURFACE WATER, LEACHATE, GROUNDWATER SAMPLES
Total Metals and Misc.(mg/L unless otherwise noted)
Collected by IEPA

	Sample Number	P-1	L-1	GW-1	GW-2	P-2	P-3	Maximum
	Sample Type	Pond water	Leachate	Groundwater	Groundwater	Pond water	Pond water	Concentration
	Date Collected	10/17/72	10/17/72	1/17/73	1/17/73	4/10/73	4/26/73	Detected
Metals								
Calcium		80	56	310	137	250	280	310
Magnesium		8	26	57	205	42	44	205
Sodium		23	169	275	13	230	205	275
Potassium		6	30	10	4	85	70	85
Ammonia		0.19	21	NA	NA	32	36	36
Boron		7	6.5	NA	NA	2.6	2.8	7
Cadmium		ND	ND	0.02	ND	NA	0.02	0.02
Chromium (total)		ND	ND	ND	ND	NA	0.03	0.03
Copper		ND	0.01	ND	ND	0.02	ND	0.02
Iron		ND	46	ND	ND	60	67	67
Lead		ND	0.02	ND	ND	0.07	0.07	0.07
Manganese		ND	ND	ND	ND	6	6.5	6.5
Mercury (µg/L A28)		0.5	0.5	ND	ND	0.4	0.6	0.6
Nickel		ND	ND	ND	ND	0.3	0.2	0.3
Silver		ND	ND	0.01	ND	ND	ND	0.01
Zinc		ND	0.2	ND	0.1	4.2	5	5
Alkalinity		46	810	645	375	420	ND	810
Chloride		19	4	310	24	210	205	310
Nitrate		NA	NA	NA	NA	NA	ND	ND
Phosphate		NA	NA	NA	NA	3.7	5	5
Sulfate		230	18	325	25	350	270	350
Hardness		240	560	NA	NA	970	930	970
Phenols		NA	NA	0.02	ND	NA	NA	0.02

mg/L - Milligrams per liter.
NA - Parameter not analyzed.
ND - Not detected.
µg/L - Micrograms per liter.

recycled paper



LEGEND

GW1	IEPA GROUNDWATER SAMPLING LOCATION
P1	IEPA SURFACE WATER SAMPLING LOCATION
L1	IEPA LEACHATE SAMPLING LOCATION

FIGURE Q-1
DEAD CREEK SITE AREA Q WITH SAMPLING LOCATIONS

LOCATION MAP - Samples P-1, P-2, and P-3

Source: "Description of Current Situation at the Dead Creek Project Sites", E&E, 1986

recycled paper
ecology and environment

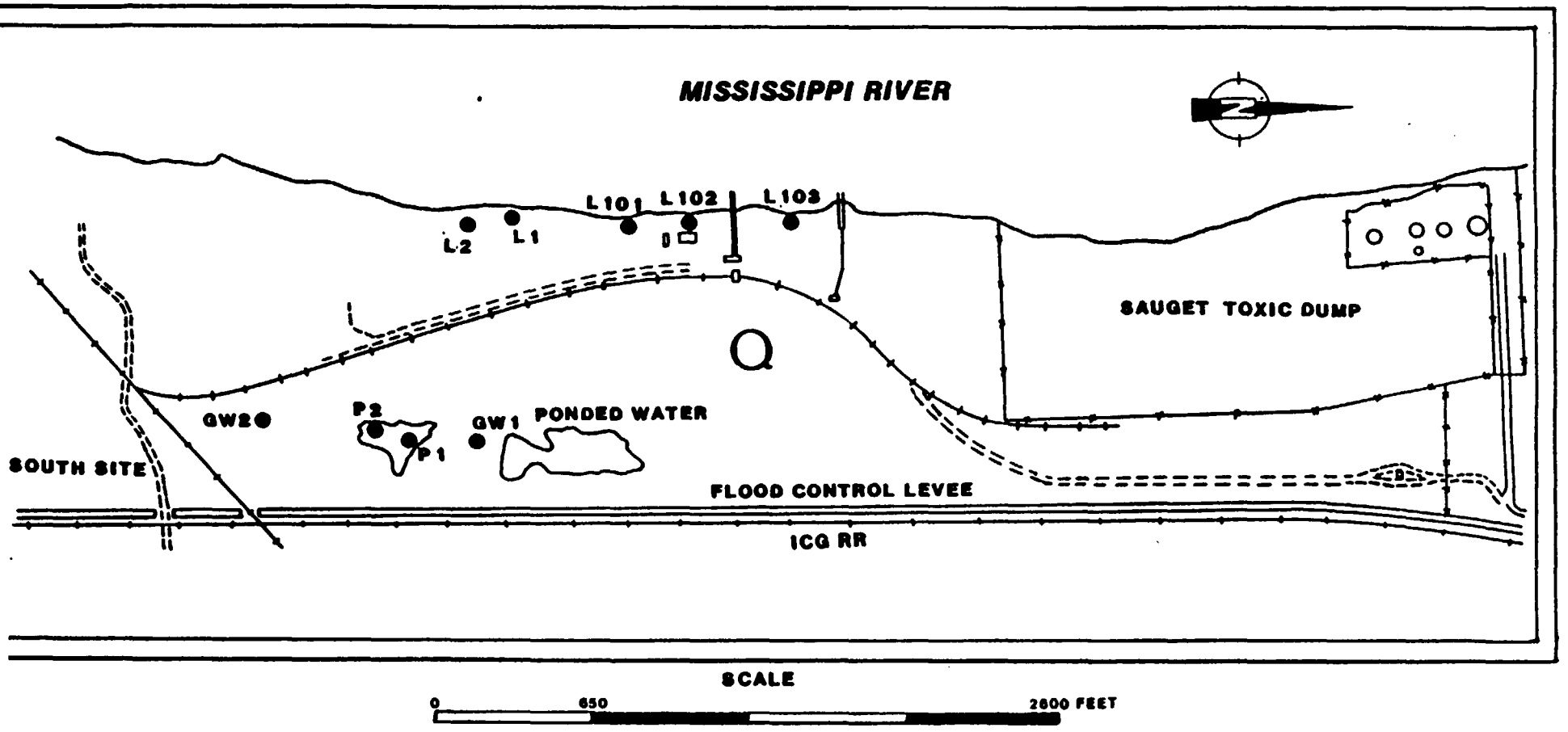
SAUGET Analytical Data
Site Q

LEACHATE SAMPLES
Total Metals, PCB and Misc.(mg/L unless otherwise noted)
Collected by IEPA

	Sample Number	L-1	L-2	L101	L012	L103	Maximum
	Date Collected	10/28/81	10/28/81	9/29/83	9/29/83	9/29/83	Concentration
Metals, PCB and Misc.							Detected
Alkalinity		255	293	191	158	242	293
Ammonia		3.8	2.8	6.5	4	3.7	6.5
Arsenic		0.057	0.022	0.11	0.034	0.012	0.11
Barium		0.8	0.2	0.5	0.4	0.3	0.8
Boron		5.8	5.6	37.5	42	23	42
Cadmium		ND	ND	ND	ND	ND	ND
COD		445	35	87	94	71	445
Chloride		15	17	23	22	31	31
Chromium (total)		0.08	ND	0.03	0.01	ND	0.08
Copper		0.2	0.04	1.2	0.06	ND	1.2
Cyanide		ND	ND	ND	0.01	0.01	0.01
Hardness		1330	1220	1225	1360	1045	1360
Iron		207	17.5	86	36	6.4	207
Lead		0.26	ND	0.13	0.08	0.02	0.26
Magnesium		145	67	81	73	44.5	145
Manganese		7.7	34	6.7	6.8	2.7	34
Mercury		ND	ND	ND	ND	ND	ND
Nickel		0.3	ND	0.1	0.1	ND	0.3
Nitrate		0.24	0.4	0.21	6.1	1.8	6.1
Phosphorus		6.1	0.74	3.1	1.3	0.86	6.1
Potassium		16.5	9.5	13.4	13.5	17	17
R.O.E.		1980	1829	1880	2118	1563	2118
Silver		0.02	0.01	0.01	ND	ND	0.02
Sodium		55.7	53.3	56	70	51	70
Sulfate		1196	1059	1200	1350	900	1350
Zinc		1.2	0.2	0.3	0.2	ND	1.2
Phenol		0.005	0.005	ND	ND	ND	0.005
PCBs (µg/L)		0.7	1	0.5	ND	0.1	1
2,3-D (µg/L)		ND	ND	ND	ND	ND	ND

mg/L - Milligrams per liter.
ND - Not detected.
µg/L - Micrograms per liter.

recycled paper
ecology and environment



LEGEND

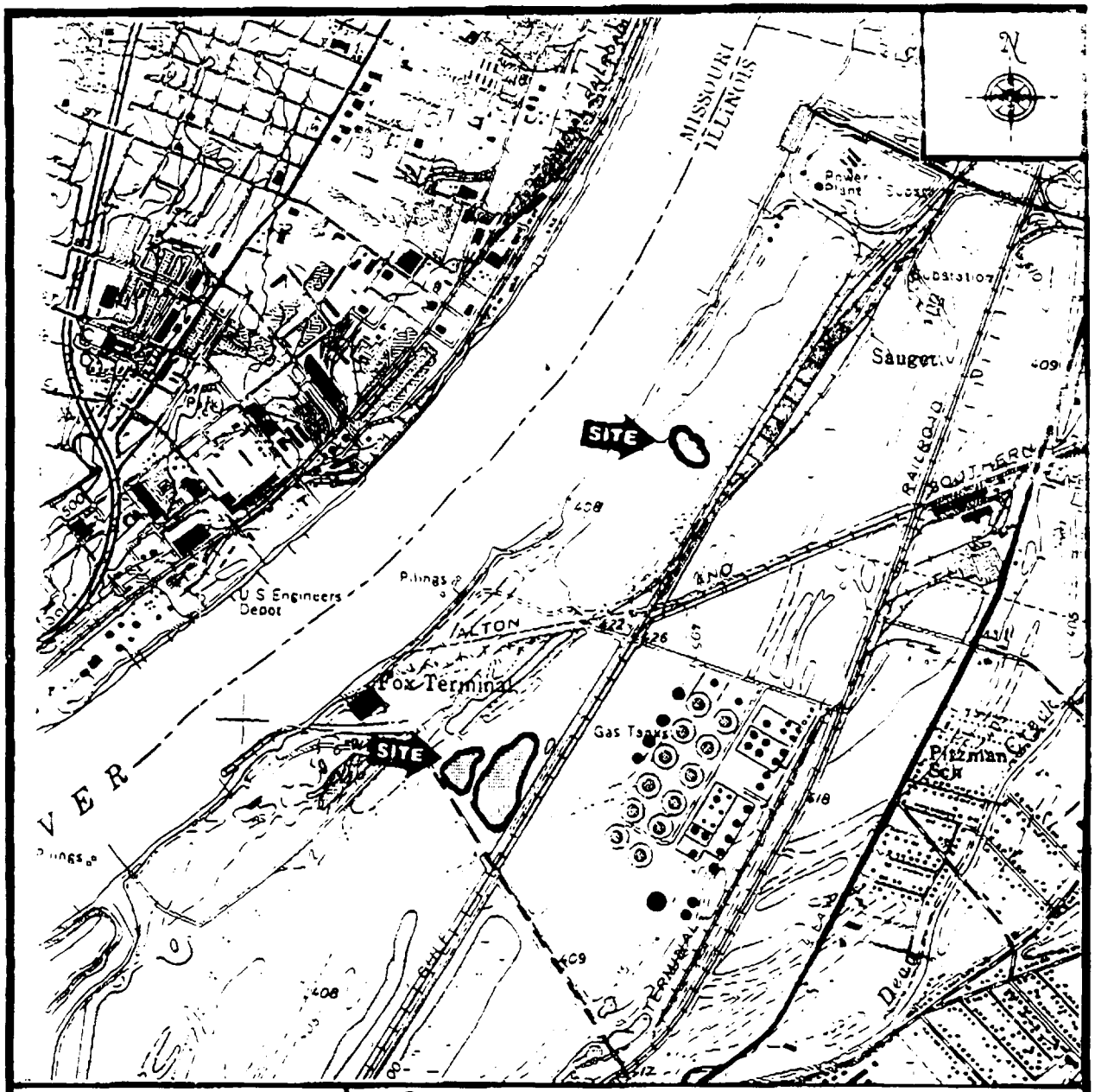
GW1	IEPA GROUNDWATER SAMPLING LOCATION
P1	IEPA SURFACE WATER SAMPLING LOCATION
L1	IEPA LEACHATE SAMPLING LOCATION

FIGURE Q-1
DEAD CREEK SITE AREA Q WITH SAMPLING LOCATIONS

LOCATION MAP - Samples L-1, L-2, and L 101 - L 103

Source: "Description of Current Situation at the Dead Creek Project Sites", E&E, 1986

recycled paper
ecology and environment

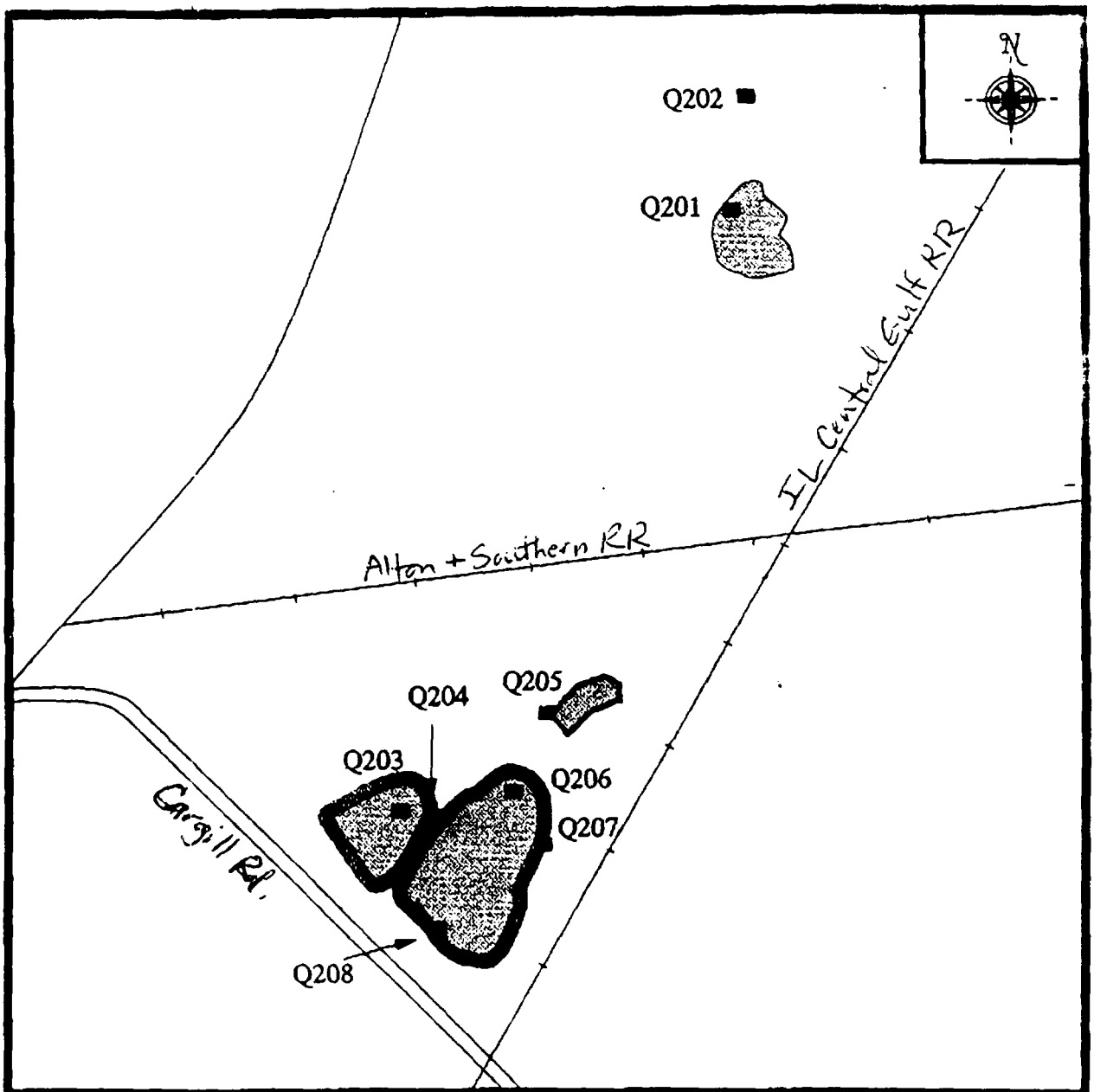


Quadrangle Location

ecology and environment, inc.
Superfund Technical Assessment and Response Team
Region 5
33 North Dearborn Street, Chicago, Illinois 60602

TITLE: Site Location Map	FIGURE #: 2-1
SITE: Sauget Area 2	SCALE: 1:24000
CITY: Sauget STATE: Illinois	TDD: S05-9703-013
SOURCE: USGS Topographical Map, 7.5' Series Quadrangle: Cahokia, Illinois	DATE: 1980

recycled paper



Legend

■ Sample Location

ecology and environment, inc.
Superfund Technical Assessment and Response Team
Region 5
33 North Dearborn Street, Chicago, Illinois 60602

TITLE: Sample Location Map	FIGURE #: 2-3
SITE: Sauget Area 2	SCALE: Not to scale
CITY: Sauget STATE: Illinois	TDD: S05-9703-013
SOURCE: Ecology and Environment, Inc.	DATE: 1997

recycled paper

ecology and environment

SAUGET Analytical Data
Site Q

SOIL/SEDIMENT SAMPLES
Metals (mg/kg)
Collected by START (1997)

Metal	Sample Number	Q201	Q202	Q203	Q204	Q205	Q206	Q207	Q208	Maximum Concentration
Arsenic		6.9	9.4	4.7	32.0	4.8	3.4	7.3	0.19	32
Barium		191	232	135	969	128	70.6	169	416	969
Cadmium		0.15	4.4	1.2	20.8	5.0	3.1	0.67	130	130
Chromium (total)		10.3	15.9	11.0	125	304	13.3	17.4	3900	3900
Lead		28.7	92.4	128	2450	102	139	47.8	2300	2450
Mercury		0.18	1.6	0.08	0.42	0.15	0.28	0.16	12.2	12.2
Selenium		1.0	1.9	1.1	0.62	1.3	0.76	1.4	8.1	8.1
Silver		0.36	0.71	1.4	18.7	0.40	0.37	0.32	0.80	18.7

mg/kg - Milligrams per kilogram.

recycled paper

ecology and environment

SAUGET Analytical Data
Site Q

SOIL/SEDIMENT SAMPLES
PCB (mg/kg)
Collected by START (1997)

	Sample Number	Q201	Q202	Q203	Q204	Q205	Q206	Q207	Q208	Maximum
PCB										Concentration
1254		0.72	1.7	0.88	1.8	0.034	4.2	1.6	ND	4.2
1248		0.48	1.6	ND	0.92	ND	2.6	ND	120	120
1260		0.61	0.76	0.11	1.1	0.028	1.9	1.8	ND	1.9

mg/kg - Milligrams per kilogram
ND - Not detected.

Site R Data
(Pre-1992)

SAUGET Analytical Data
Site R

MISSISSIPPI RIVER WATER SAMPLES
Dioxins (ng/l)
Collected by IEPA

	Sample Number	Up River #1	Up River #2	Up River #3	Up River #4	Down River #1	Down River #2	Down River #3	Down River #4	Maximum
	Date Collected	1981	1981	1981	1981	1981	1981	1981	1981	Detected
Dioxin										
CL_1		ND	ND	ND	ND	ND	ND	ND	ND	ND
CL_2		ND	ND	ND	ND	ND	ND	ND	ND	ND
CL_3		ND	ND	ND	ND	ND	ND	ND	ND	ND
CL_4		ND	ND	ND	ND	ND	ND	ND	ND	ND
CL_5		ND	ND	ND	ND	ND	ND	ND	ND	ND
CL_6		ND	ND	ND	ND	ND	ND	ND	ND	ND
CL_7		ND	ND	ND	ND	ND	ND	ND	ND	ND
CL_8		ND	ND	ND	ND	ND	ND	ND	ND	ND

ng/L - Nanograms per liter.
ND - Not detected.

recycled paper

ecology and environment

SAUGET Analytical Data
Site R

LEACHATE SAMPLES
Dioxins (ng/l)
Collected by U.S. EPA

	Sample Number	CWS-1	CWS-2	CWS-3	CWS-4	CWS-5	Maximum
	Date Collected	11/12/81	11/12/81	11/12/81	11/12/81	11/12/81	Detected
Dioxin							
TCDDs		0(1)	0(1)	0(1)	0(1)	0(1)	ND
TCDFs		0(1)	0(1)	0(1)	0(1)	0(1)	ND
PCDDs		0(2)	0(1)	0(2)	0(2)	0(2)	ND
PCDFs		0(2)	0(1)	0(2)	0(2)	0(2)	ND
HxCDDs		**4.5**	**6.3**	**5.8**	0(3)	0(3)	**6.3**
HxCDFs		**6.3**	**10**	**6.3**	0(3)	0(3)	**10**
HpCDDs		**85**	**181**	**162**	0(4)	0(3)	**181**
HpCDFs		**74**	**182**	**112**	0(4)	0(3)	**182**
OCDD		**323**	**575**	**2693**	0(6)	0(6)	**2693**

ng/L - Nanograms per liter.
ND - Not detected
( ) - Field Blank

recycled paper

ecology and environment

SAUGET Analytical Data
Site R

LEACHATE SAMPLES
PCDD/PCDF Analysis (ppt)
Collected by IEPA

	Sample Number	X101D	X103D	X104D	X104DUP	S101D	S103D	S104D	S103D	X103D	Maximum
	Date Collected	2/89	2/89	2/89	2/89	3/89	3/89	3/89	3/89	3/89	Detected
PCDD/PCDF									Blank	Blank	
2378-TCDD		ND	ND	ND	ND	ND	ND	ND	0.058	ND	0.058
12378-PeCDD		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
123478-HxCDD		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
123678-HxCDD		ND	6.395	ND	ND	ND	ND	ND	ND	4.992	6.395
123789-HxCDD		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1234678-HpCDD		72.233	285.252	ND	27.53	ND	ND	ND	0.208	443.859	443.859
OCDD		1654.809	6697.077	1248.585	1113.124	1.84	4.104	ND	9.43	5356.575	6697.077
2378-TCDF		ND	6.263	1.279	1.57	ND	ND	ND	0.079	1.405	6.263
12378-PeCDF		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23478-PeCDF		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
123478-HxCDF		ND	ND	ND	ND	ND	ND	ND	ND	1.692	1.692
123678-HxCDF		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
234678-HxCDF		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
123789-HxCDF		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1234678-HpCDF		10.672	60.557	ND	ND	0.029	0.024	ND	ND	ND	60.557
1234789-HpCDF		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OCDF		71.346	485.469	45.672	17.48	0.169	ND	ND	0.321	1059.558	1059.558
TOTAL TCDD		4.835	443.101	ND	2.184	ND	0.062	0.06	0.086	31.017	443.101
TOTAL PeCDD		4.687	ND	ND	ND	ND	ND	ND	ND	3.47	4.687
TOTAL HxCDD		4.779	19.808	8.648	4.016	ND	0.006	ND	0.014	39.805	39.805
TOTAL HpCDD		151.344	586.262	41.824	64.855	ND	ND	ND	0.424	1182.05	1182.05
TOTAL TCDF		ND	12.942	2.355	1.57	0.587	0.114	0.023	0.79	5.69	12.942
TOTAL PeCDF		0.997	5.858	ND	ND	ND	ND	ND	ND	ND	5.858
TOTAL HxCDF		9.693	18.805	ND	ND	ND	ND	ND	0.033	74.038	74.038
TOTAL HpCDF		50.168	278.338	20.412	ND	0.095	0.074	ND	0.114	587.395	587.395

ppt - Parts per trillion
ND - Not detected

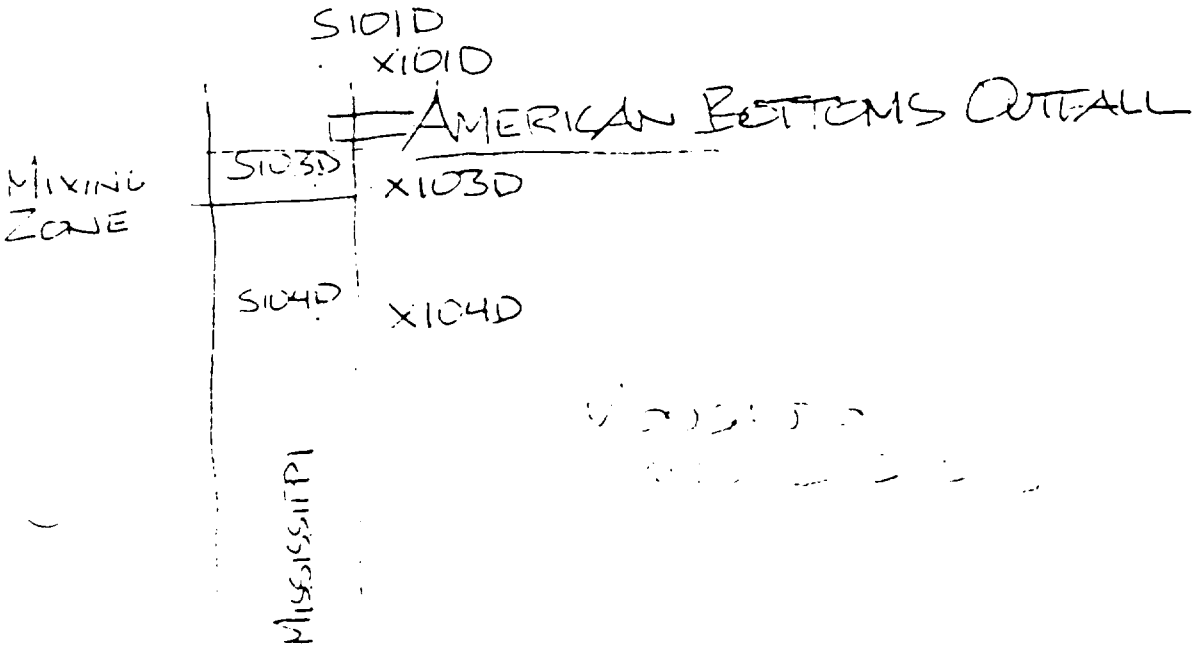
recycled paper
ecology and environment

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

ALLIED SITES (AREA 2, SITE K)

ALL LAKACS 19 JAN 90

SAMPLING LOCATION MAP



S SERIES - WATER SAMPLES

X103D, X104D - LEACHATE SAMPLES

X101D - BACKGROUND SEDIMENTS

SAUGET Analytical Data
Site R

SEDIMENT SAMPLES
MISC. (µg/kg)
Collected by IEPA

	Sample ID	SOIL SAMPLE A	SOIL SAMPLE B	SOIL SAMPLE C	Maximum
	Sample Number	DO22690	DO22692	DO22692	Concentration
	Date Collected	10/2/81	10/2/81	10/2/81	Detected
Misc.					
PCB		48	ND	230	230
Toluene		ND	ND	ND	ND
Chlorobenzene		ND	ND	ND	ND
Chloroaniline		1700	190	6900	6900
Chloronitrobenzene		ND	130	ND	130
2, 4 - D		53	< 5	< 5	53
2, 4, 5 - T		< 5	< 5	< 5	ND
Dichloronitrobenzene		ND	ND	ND	ND
Dichloroaniline		ND	ND	190	190
Chloronitroaniline		ND	ND	ND	ND
Nitroaniline		ND	ND	ND	ND
Chlorophenol		ND	ND	290	290
Phenol		ND	ND	ND	ND
Methylphenol		ND	ND	ND	ND
Dichlorophenol		40	ND	ND	40
Nitrophenol		ND	ND	ND	ND
Biphenyldiol		ND	ND	ND	ND
Aniline		ND	ND	ND	ND
Methylbenzene		ND	ND	ND	ND
Sucponamide		ND	ND	ND	ND
4-Methyl -2-pentanol		ND	ND	ND	ND
2-Methyl cyclopentanol		ND	ND	ND	ND
Biphenyl 2-01		ND	ND	310	310
Benzenesulfonamide		ND	ND	ND	ND
Dichlorobenzene		ND	ND	ND	ND
Benzoic acid / derivatives		ND	ND	ND	ND
Hydroxybenzoic acid / derivatives		ND	ND	ND	ND
2, 4 - D Isomer		ND	ND	ND	ND
2, 4, 5 - T Isomer		ND	ND	ND	ND

µg/kg - Micrograms per kilogram
ND - Not detected

recycled paper

ecology and environment

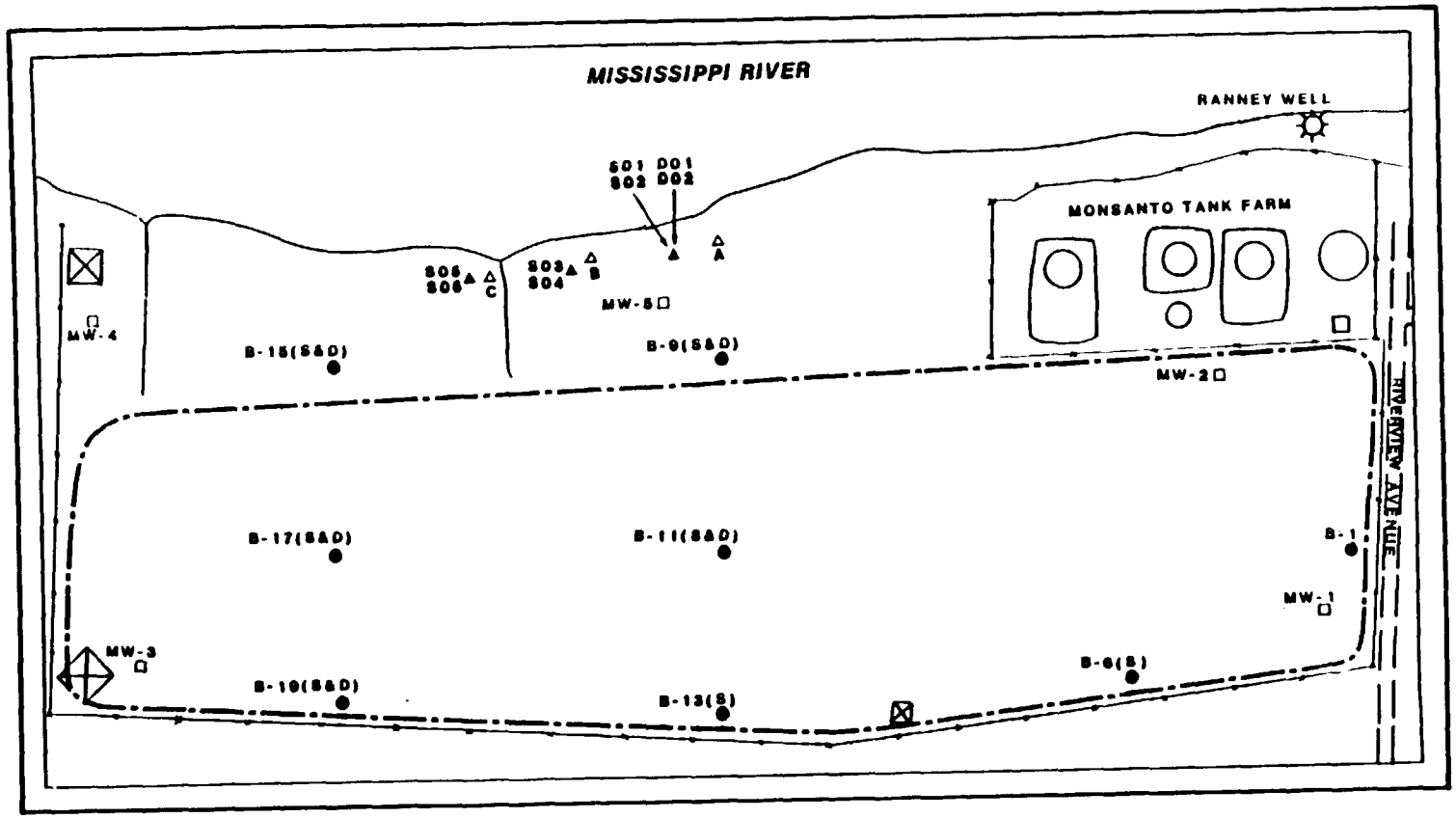
SAUGET Analytical Data
Site R

LEACHATE SAMPLES
Misc. (µg/L)
Collected by IEPA 10/2/81

	Sample Number		SAMPLE A	SAMPLE B	SAMPLE C	Maximum
	Well Number		DO22687	DO22688	DO22689	Concentration
	Date Collected		10/2/81	10/2/81	10/2/81	Detected
Misc.						
PCB			ND	ND	2.6	2.6
Toluene			11	40	150	150
Chlorobenzene			160	390	1600	1600
Chloroaniline			24000	22000	38000	38000
Chloronitrobenzene			21000	9600	820	21000
2, 4 - D			16000	17000	7800	17000
2, 4, 5 - T			ND	ND	ND	ND
Dichloronitrobenzene			740	590	790	790
Dichloroaniline			870	820	2800	2800
Chloronitroaniline			84	33	ND	84
Nitroaniline			100	23	ND	100
Chlorophenol			15000	30000	27000	30000
Phenol			22000	17000	12000	22000
Methylphenol			570	220	110	570
Dichlorophenol			32000	7200	2100	32000
Nitrophenol			600	ND	ND	600
Biphenyldiol			1700	ND	ND	1700
Aniline			550	120	35	550
Methylbenzene			180	2000	140	2000
Sucponamide			ND	ND	ND	ND
4-Methyl -2-pentanol			26	ND	ND	26
2-Methyl cyclopentanol			93	ND	ND	93
Biphenyl 2-01			300	300	280	300
Benzenesulfonamide			76	630	ND	630
Dichlorobenzene			ND	110	250	250
Benzoic acid / derivatives			12000	6600	2000	12000
Hydroxybenzoic acid / derivatives			12000	ND	ND	12000
2, 4 - D Isomer			38000	48000	29000	48000
2, 4, 5 - T Isomer			10000	12000	6500	12000

µg/L - Micrograms per liter

ND - Not detected



LEGEND

A	IEPA LEACHATE & SEDIMENT SAMPLING LOCATION
S01	USEPA - FIT LEACHATE & SEDIMENT SAMPLING LOCATION
D01	DUPLICATE SAMPLE
MW-1	IEPA MONITORING WELL SAMPLING LOCATION (PRIOR TO 1979)
B-1	IEPA MONITORING WELL SAMPLING LOCATION (1979-1981)

SCALE
0 100 400 800 FEET

FIGURE R-1
STATE AND USEPA SAMPLING LOCATIONS AT SITE R.

recycled paper

ecology and environment

SAUGET Analytical Data
Site R

SEDIMENT SAMPLES
BNA's/Pesticides/PCBs (ug/kg)
Collected by E&E

	Sample Number	S02	M02	S04	M04	S06	M06	Maximum
	Date Collected	11/12/81	11/12/81	11/12/81	11/12/81	11/12/81	11/12/81	Concentration
BNA's/Pest./PCBs								Detected
2-Chlorophenol		0.26	ND	0.2	200	0.4	ND	200
2, 4-Dichlorophenol		ND	ND	0.42	ND	0.56	ND	0.56
Phenol		ND	ND	0.5	300	0.42	300	300
2, 4, 6-Trichlorophenol		ND	ND	ND	ND	0.32	ND	0.32
1, 4-Dichlorobenzene		ND	200	ND	400	ND	600	600
1, 2-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND
Bis(2 ethylhexyl) Phthalate		ND	400	ND	300	ND	400	400
Chlorobenzene		ND	ND	ND	ND	ND	ND	ND
Aniline		ND	ND	ND	ND	ND	ND	ND
Chloroanilines		ND	ND	ND	ND	ND	ND	ND
Dichloroanilines		ND	ND	ND	ND	ND	200	200
Chloronitrobenzenes		ND	ND	ND	ND	ND	ND	ND
2, 4-D		ND	ND	ND	ND	ND	ND	ND
PCBs		ND	0.014	ND	0.034	ND	0.192	0.192

µg/kg - Micrograms per kilogram.
ND - Not detected

recycled paper

ecology and environment

SAUGET Analytical Data
Site R

LEACHATE SAMPLES
Dioxins and Furans (ng/L)
Collected by E&E

	Sample Number	S01	S03	S05	S07	R01	Maximum
	Date Collected	11/2/81	11/2/81	11/2/81	11/2/81	11/2/81	Concentration
Dioxins and Furans					BLANK	BLANK	Detected
TCDDs		ND	ND	ND	ND	ND	ND
TCDFs		ND	ND	ND	ND	ND	ND
PCDDs		ND	ND	ND	ND	ND	ND
PCDFs		ND	ND	ND	ND	ND	ND
HXCDDs		4.5	6.3	5.8	ND	ND	6.3
HXCDFs		6.3	10	6.3	ND	ND	10
HPCDDs		86	181	152	ND	ND	181
HPCDFs		74	182	112	ND	ND	182
OCDDs		323	675	2693	ND	ND	2693
OCDFs		30	103	53	ND	ND	103

ng/L - Nanograms per liter

ND - Not detected

SAUGET Analytical Data
Site R

LEACHATE SAMPLES
Total Metals(mg/L)
Collected by E&E

	Sample Number	S01	M01	D01	S03	M03	S05	M05	R01	Maximum
	Date Collected	11/12/81	11/12/81	11/12/81	11/12/81	11/12/81	11/12/81	11/12/81	11/12/81	Concentration
Metals									BLANK	Detected
Arsenic		0.034	0.02	0.031	0.016	0.025	0.029	0.065	ND	0.065
Mercury		0.0002	ND	0.0002	0.0002	0.0014	0.0008	0.001	ND	0.0014
Selenium		0.038	ND	0.032	0.026	ND	0.031	ND	ND	0.038
Thallium		ND	ND	ND	ND	ND	ND	ND	ND	ND
Antimony		ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium		ND	0.008	ND	ND	0.005	ND	0.008	ND	0.008
Cadmium		ND	0.006	ND	ND	0.007	ND	0.008	ND	0.008
Chromium		0.04	0.086	0.02	0.015	0.075	0.02	0.07	0.01	0.086
Copper		ND	0.073	ND	ND	0.092	ND	0.08	ND	0.092
Lead		0.005	ND	0.008	ND	ND	ND	ND	ND	0.008
Nickel		0.04	0.155	ND	ND	0.124	ND	0.144	ND	0.155
Silver		ND	ND	ND	ND	ND	0.01	ND	ND	0.01
Zinc		0.048	0.216	0.024	0.01	0.216	0.049	0.062	0.031	0.216
Aluminum		ND	26.8	ND	ND	30.5	ND	3.22	ND	30.5
Barium		ND	0.5	ND	ND	0.5	ND	0.36	ND	0.5
Boron		19.7	18	17.1	15.35	13.6	21.6	19.1	ND	21.6
Calcium		NA	368	NA	NA	257	NA	257	NA	368
Cobalt		ND	0.03	ND	ND	0.019	ND	0.031	ND	0.031
Iron		0.06	25.5	0.06	ND	30.8	0.63	27.4	ND	30.8
Magnesium		NA	43.2	NA	NA	48.2	NA	39.8	NA	48.2
Manganese		0.02	6.27	0.32	1.99	2.1	5.4	8.82	0.03	8.82
Molybdenum		NA	0.53	NA	NA	0.403	NA	0.439	NA	0.53
Phosphorus		NA	0.9	NA	NA	0.907	NA	2.06	NA	2.06
Sodium		NA	40.4	NA	NA	41.8	NA	44.2	NA	44.2
Tin		ND	ND	ND	ND	ND	0.02	1.4	ND	1.4
Vanadium		ND	0.18	ND	ND	0.138	ND	0.17	ND	0.18
Cyanide		0.071	NA	0.057	NA	NA	NA	NA	0.13	0.13

mg/L - Milligrams per liter
NA - Parameter not analyzed
ND - Not detected

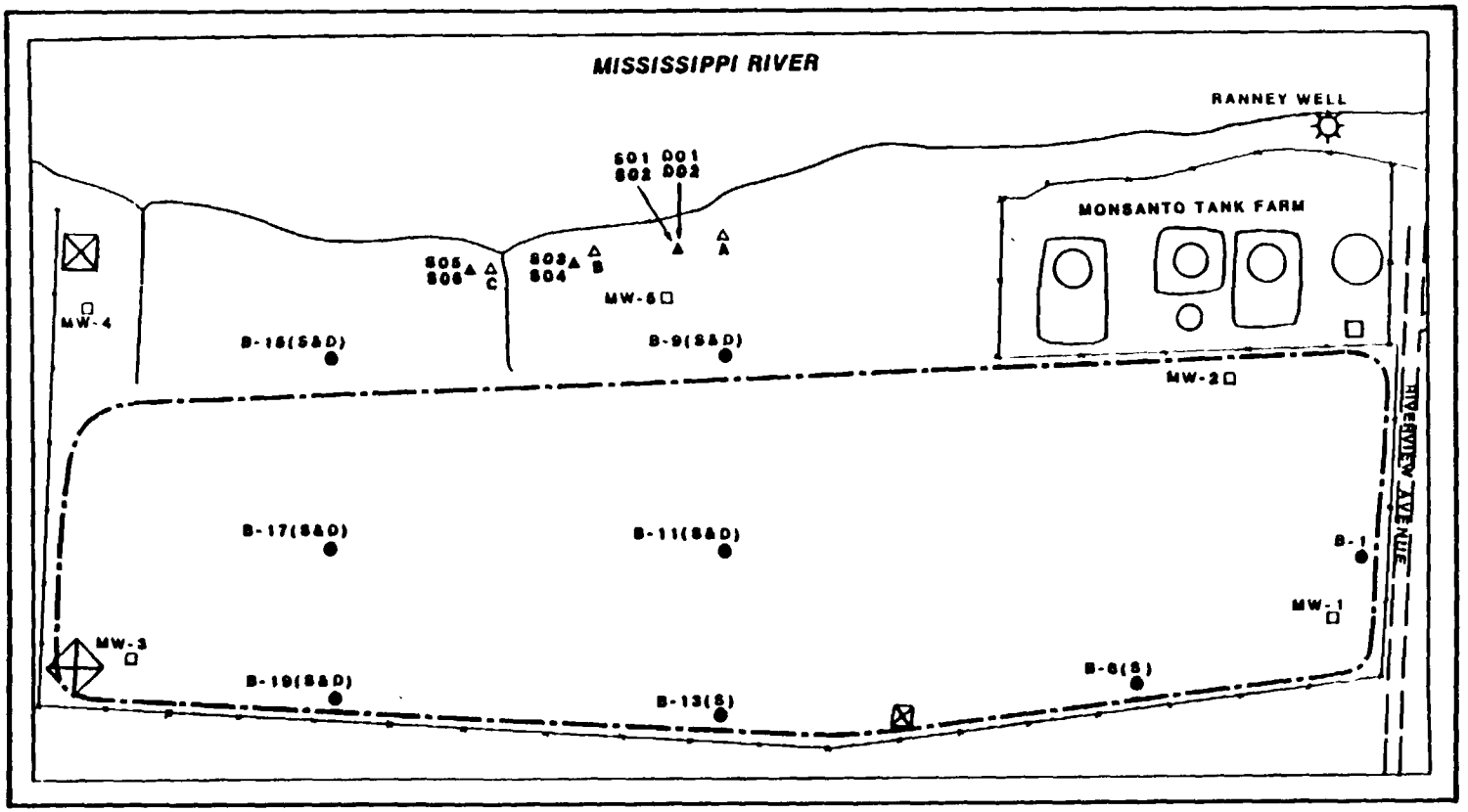
recycled paper
ecology and environment

SAUGET Analytical Data
Site R

SEDIMENT SAMPLES
Total Metals (mg/kg)
Collected by E&E

	Sample Number	S02	S03	M02	S04	M04	S06	M06	Maximum
	Date Collected	11/12/81	11/12/81	11/12/81	11/12/81	11/12/81	11/12/81	11/12/81	Concentration
Total Metals									Detected
Arsenic		1.1	2.9	5.3	1.25	9.6	1.8	8.2	9.6
Mercury		ND	ND	ND	ND	ND	ND	ND	ND
Selenium		1.1	1.8	ND	1.5	ND	1.6	ND	1.8
Thallium		ND	ND	ND	ND	ND	ND	ND	ND
Antimony		ND	ND	ND	4	ND	ND	ND	4
Beryllium		ND	ND	0.412	ND	0.489	ND	1.08	1.08
Cadmium		ND	ND	0.747	0.61	1.04	ND	2.49	2.49
Chromium		ND	ND	10.7	ND	10.4	ND	28.7	28.7
Copper		ND	ND	7.17	ND	7.89	ND	25.5	25.5
Lead		2.4	2.9	ND	2.45	ND	1.7	ND	2.9
Nickel		ND	ND	17.4	ND	18.6	ND	33.8	33.8
Zinc		9.5	10	29.5	6.8	36.3	9.2	69.4	69.4
Aluminum		150	190	3870	155	4380	170	13900	13900
Barium		ND	ND	75.4	ND	130	20	7.79	130
Boron		ND	25	53	17	28.7	26	30.3	53
Calcium		NA	NA	3660	NA	4010	NA	6590	6590
Cobalt		ND	ND	4.7	ND	4.8	ND	9.45	9.45
Iron		580	660	5870	425	8660	580	12600	12600
Magnesium		NA	NA	1780	NA	2090	NA	4080	4080
Manganese		76	46	79.7	42	119	47	273	273
Molybdenum		NA	NA	10.6	NA	12.5	NA	22.4	22.4
Phosphorus		NA	NA	154	NA	270	NA	366	366
Sodium		NA	NA	1840	NA	1270	NA	4720	4720
Tin		ND	ND	ND	ND	ND	ND	ND	ND
Vanadium		ND	ND	14.4	ND	17	ND	43.9	43.9
Cyanide		28	13	NA	6.8	NA	90	NA	90

mg/kg - Milligrams per kilogram
NA - Parameter not analyzed
ND - Not detected



LEGEND

A	IEPA LEACHATE & SEDIMENT SAMPLING LOCATION
S01	USEPA - FIT LEACHATE & SEDIMENT SAMPLING LOCATION
D01	DUPLICATE SAMPLE
MW-1	IEPA MONITORING WELL SAMPLING LOCATION (PRIOR TO 1979)
B-1	IEPA MONITORING WELL SAMPLING LOCATION (1979-1981)

SCALE
0 100 400 800 FEET

FIGURE R-1
STATE AND USEPA SAMPLING LOCATIONS AT SITE R.

recycled paper

ecology and environment

SAUGET Analytical Data
Site R

SOIL SAMPLES
Volatile Organic Compounds (µg/kg)
Collected by IEPA

	Sample Number		x112	x113	Maximum
	Date Collected		11/11/94	11/11/94	Detected
VOC					
Chloromethane			DM	ND	ND
Bromomethane			DM	ND	ND
Vinyl chloride			DM	ND	ND
Chloroethane			DM	ND	ND
Methylene chloride			DM	28	28
Acetone			DM	33	33
Carbon Disulfide			DM	ND	ND
1,1-Dichloroethene			DM	ND	ND
1,1-Dichloroethane			DM	ND	ND
trans-1,2-Dichloroethene			DM	ND	ND
Chloroform			DM	ND	ND
1,2-Dichloroethane			DM	ND	ND
2-Butanone (MEK)			DM	ND	ND
1,1,1-Trichloroethane			DM	ND	ND
Carbon Tetrachloride			DM	ND	ND
Vinyl Acetate			DM	ND	ND
Bromodichloromethane			DM	ND	ND
1,2-Dichloropropane			DM	ND	ND
trans-1,3-Dichloropropene			DM	ND	ND
Trichloroethene			DM	ND	ND
Dibromochloromethane			DM	ND	ND
1,1,2-Trichloroethane			DM	ND	ND
Benzene			DM	ND	ND
cis-1,3-Dichloropropene			DM	ND	ND
2-Chloroethyl Vinyl Ether			DM	ND	ND
Bromoform			DM	ND	ND
4-Methyl-2-pentanone			DM	ND	ND
2-Hexanone			DM	ND	ND
Tetrachloroethene			DM	ND	ND
1,1,2,2-Tetrachloroethane			DM	ND	ND
Toluene			DM	ND	ND
Chlorobenzene			DM	ND	ND
Ethylbenzene			DM	ND	ND
Styrene			DM	ND	ND
Total Xylenes			DM	ND	ND

µg/kg - Micrograms per kilogram.
DM - Data missing.
ND - Not detected.

recycled paper

ecology and environment

SAUGET Analytical Data
Site R

SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by IEPA

	Sample Number		x112	x113	Maximum
	Date Collected		11/11/94	11/11/94	Detected
BNAs					
Phenol			ND	ND	ND
bis(2-Chloroethyl)ether			ND	ND	ND
2-Chlorophenol			ND	ND	ND
1,3-Dichlorobenzene			ND	ND	ND
1,4-Dichlorobenzene			ND	ND	ND
Benzyl Alcohol			ND	ND	ND
1,2-Dichlorobenzene			ND	ND	ND
2-Methylphenol			ND	ND	ND
bis(2-Chloroisopropyl)ether			ND	ND	ND
4-Methylphenol			ND	ND	ND
N-Nitroso-n-Dipropylamine			ND	ND	ND
Hexachloroethane			ND	ND	ND
Nitrobenzene			ND	ND	ND
Isophorone			ND	ND	ND
2-Nitrophenol			ND	ND	ND
2,4-Dimethylphenol			ND	ND	ND
Benzoic Acid			ND	ND	ND
bis-(2-Chloroethoxy)methane			ND	ND	ND
2,4-Dichlorophenol			ND	ND	ND
1,2,4-Trichlorophenol			ND	ND	ND
Naphthalene			810	240 J	810
4-Chloroaniline			ND	ND	ND
Hexachlorobutadiene			ND	ND	ND
4-Chloro-3-methylphenol			ND	ND	ND
2-Methylnaphathalene			300 J	70 J	300 J
Hexachlorocyclopentadiene			ND	ND	ND
2,4,6-Trichlorophenol			ND	ND	ND
2,4,5-Trichlorophenol			ND	ND	ND
2-Chloronaphthalene			ND	ND	ND
2-Nitroaniline			ND	ND	ND
Dimethyl Phthalate			ND	ND	ND
Acenaphthylene			42 J	ND	42 J
3-Nitroaniline			ND	ND	ND
Acenaphthene			2200	340 J	2200

µg/kg - Micrograms per kilogram.
J - Estimated value.
ND - Not detected.

SAUGET Analytical Data
Site R

SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by IEPA

	Sample Number		x112	x113	Maximum
	Date Collected		11/11/94	11/11/94	Detected
BNAs					
2,4-Dinitrophenol			ND	ND	ND
4-Nitrophenol			ND	ND	ND
Dibenzofuran			1600	220 J	1600
2,4-Dinitrotoluene			ND	ND	ND
2,6-Dinitrotoluene			ND	ND	ND
Diethylphthalate			ND	ND	ND
4-Chlorophenyl-Phenylether			ND	ND	ND
Fluorene			2500	230 J	2500
4-Nitroaniline			ND	ND	ND
4,6-Dinitro-2-methylphenol			ND	ND	ND
N-Nitrosodiphenylamine			ND	ND	ND
4-Bromophenyl-phenylether			ND	ND	ND
Hexachlorobenzene			ND	ND	ND
Pentachlorophenol			ND	ND	ND
Phenanthrene			15000 D	1100	15000 D
Anthracene			3900 JD	250 J	3900 JD
Carbazole			1600	150 J	1600
Di-n-butly phthalate			ND	72 J	72 J
Fluoranthene			14000 D	740	14000 D
Pyrene			12000 D	700	12000 D
Butyl Benzyl phthalate			ND	ND	ND
3,3'-Dichlorobenzidine			ND	ND	ND
Benzo (a)anthracene			4300 D	230 J	4300 D
bis(2-ethylhexyl)phthalate			ND	240 J	240 J
Di-n-octyl phthalate			ND	28 JB	28 JB
Chrysene			4300 D	ND	4300 D
Benzo(b)fluoranthene			2900 JD	160 J	2900 JD
Benzo(k)fluoranthene			1700	160 J	1700
Benzo (a)pyrene			3100 JD	200 J	3100 JD
Indeno(1,2,3-cd)pyrene			2100	150 J	2100
Benzo(g,h,i)perylene			790	51 J	790
Dibenzo(a,h)anthracene			1500	150 J	1500

µg/kg - Micrograms per kilogram.
B - Compound detected in blank sample.
D - Diluted Compound
J - Estimated value.
ND - Not Detecetd

recycled paper

ecology and environment

SAUGET Analytical Data
Site R

SOIL SAMPLES
Pesticides/PCBs (µg/kg)
Collected by IEPA

	Sample Number		x112	x113	Maximum
	Date Collected		11/11/94	11/11/94	Detected
Pesticides/PCBs					
Alpha-BHC			ND	ND	ND
Beta-BHC			ND	ND	ND
Delta-BHC			ND	ND	ND
Gamma-BHC (Lindane)			ND	ND	ND
Heptachlor			ND	ND	ND
Aldrin			ND	ND	ND
Heptachlor Epoxide			ND	ND	ND
Endosulfan I			ND	ND	ND
Dieldrin			ND	ND	ND
4,4'-DDE			ND	ND	ND
Endrin			ND	ND	ND
Endosulfan II			ND	ND	ND
4,4'-DDD			ND	ND	ND
Endosulfan sulfate			ND	ND	ND
4,4'-DDT			ND	ND	ND
Methoxychlor			ND	ND	ND
Endrin Ketone			ND	ND	ND
Chlordane			ND	ND	ND
Toxaphene			ND	ND	ND
Aroclor-1016			ND	ND	ND
Aroclor-1221			ND	ND	ND
Aroclor-1232			ND	ND	ND
Aroclor-1242			ND	ND	ND
Aroclor-1248			ND	ND	ND
Aroclor-1254			ND	ND	ND
Aroclor-1260			ND	**39 J**	**39 J**

µg/kg - Micrograms per kilogram.
J - Estimated value.
ND - Not detected.

State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

MEMORANDUM

Date: December 30, 1994

From: Paul E. Takács, IEPA/BOL/NPL

To: Monica Rebbe, IDPH

Subject: L1630200005 -- St. Clair County
Sauget Sites (Area 1, Area 2) -- Sauget
Superfund/Technical Reports

The primary purpose of this memorandum is to present and interpret the results from a sampling event that IEPA was tasked to perform on November 9 and 10, 1994 at the Sauget Area 1 and Area 2 Sites. This sampling entailed the collection of sixteen surface soil samples within Site Q and near Site G (see Attachment A).

As outlined in the September 6 proposal to the Illinois Department of Public Health (IDPH) (see Attachment B), the objective of the sampling event was to gather data on areas in the Sauget and Cahokia area that were impacted by last year's flooding. This project represents a cooperative effort between IEPA and IDPH. All analytical costs were paid for by IDPH.

Actual field sampling was performed by Tom Miller and Doug Hayward of IEPA's Collinsville office with Monica Rebbe (IDPH) and Paul Takacs (IEPA) providing general oversight and assistance. The sixteen soil samples were sent to Applied Research and Development Laboratory (ARDL) in Mt. Vernon for analysis. ARDL was picked because of its proximity to the site.

Each sample was collected with a stainless steel spoon, sealed in a glass jar and packed with blue ice before shipping as per normal IEPA guidelines. One trip blank was sent to ARDL along with each group of samples that were taken on both days. All samples arrived at ARDL on the same day they were taken. Analyses were then run for volatile and semivolatile organic compounds, pesticides, PCBs and inorganics. As per the Health and Safety Plan (Attachment C), the sampling was performed in Level C protection.

Inorganics

In general, the samples ranged from very low to high levels of contamination. The first group of samples were taken in the east borrow pit of Site Q. Previous site visits have noted two large mounded areas near the west-central portion of this pit. Two soil samples each were taken around the edges of both mounds where drums and waste piles were exposed. Sample X101 was a grayish waste

recycled paper

ecology and environment

Printed on Recycled Paper

SCREENED BF

material that had fairly high levels of antimony (157ppm), cadmium (2,260ppm), chromium (3,650ppm), lead (7,690ppm), mercury (4.9ppm), nickel (153ppm), selenium (59.9ppm) and cyanide (3.3ppm). Sample X102 was a white crumbly waste. It had only low levels of inorganic contamination with magnesium (4,259ppm) being most significant. The next sample, X103 was a bluish-grey waste that had high levels of antimony (17,900ppm), arsenic (216ppm), copper (1,630ppm), lead (195,000ppm) and silver (30.2ppm). Sample X104, similar to X102, contained the white crumbly substance that had similar contaminants (magnesium @ 4,600ppm). Samples X105 and X106 were both located in waste piles near the northern portion of the borrow pit along the west boundary. X105 was a grayish crystalline substance, which did not appear to have inorganic contamination (although the sample did have a pH of 2.6). X106 was a light blue flaky material that also did not appear to have significant inorganic contamination. Samples X107 and X108 were also taken at the northern portion of the pit. X107 was taken on a ridge of what appeared to be waste material, although the reddish material resembling clay in this sample did not appear to have significant inorganic contamination. X108 was the northernmost sample taken in the east borrow pit. It was dark grey in color and had rather significant concentrations of lead (571ppm).

Samples X109, X110 and X111 were collected along the east bank of the west borrow pit with X109 and X110 taken from one waste pile that resembled the one X105 and X106 came from in the other borrow pit. X109 was a reddish grey waste that did not contain high levels of organics, while X110 contained antimony (47.6ppm), arsenic (19.3ppm), copper (226ppm), lead (5,320ppm), nickel (371ppm), and silver (28.9ppm). Both samples also had pH's (3.6 and 3.7, respectively). Sample X111 was a grayish-white material collected south of the above-mentioned samples and contained nickel (25.9ppm) and vanadium (23.1ppm).

Samples X112 and X113 were taken along the river bank, just south of Site R. Both samples contained a hard blackish substance that appeared to have been disposed of in drums. X112 contained notable levels of cadmium (56.2ppm) and zinc (10,300ppm), while X113 was found to contain magnesium (4,710ppm).

The remaining samples (X114, X115 and X116) were collected around Site G. Both X114 and X115 were soil samples collected in lower elevation areas to the south of the southern Site G fence that could have received runoff from Site G. These samples showed rather high levels of copper (675ppm in X114 and 1,150ppm in X115), lead (172ppm in X114), nickel (32.7ppm in X114 and 38.5ppm in X115) and vanadium (23.3ppm in X114 and 22.7ppm in X115). The last sample (X116) was located in a ridge off of the southwest corner of Site G. X116 which was a brownish waste material containing significant levels of copper (515ppm), mercury (4.7ppm) and high levels of zinc (38,200ppm).

Volatile Organic Contaminants

Only X101, X106, X115 and X116 showed any significant measurable

recycled paper

ecology and environment

SUMMARY OF SAMPLES COLLECTED AT THE RIVER'S EDGE LANDFILL, MARCH 13-16, 1989

DYNAMAC SAMPLE NUMBER	RMA SAMPLE NUMBER	LOCATION	ANALYTES	SAMPLE DEPTH (FEET)*	CHAIN OF CUSTODY NUMBER	TRIP BLANK
D-1-3	003918-0001-SA	BORING 1	VOA	2-4	9348	1
D-1-7	003918-0002-SA	BORING 1	VOA	6-8	9348	1
D-1-13	003918-0003-SA	BORING 1	TCL	0-16, 12-14	9348	1
D-2-7	003918-0004-SA	BORING 2	VOA	6-8	9348	1
D-2-11	003918-0005-SA	BORING 2	VOA	10-12	9348	1
D-2-15	003918-0006-SA	BORING 2	VOA	14-16	9348	1
D-2-17	003918-0007-SA	BORING 2	TCL	0-18, 16-18	9348	1
D-8-5	003918-0008-SA	BORING 8	VOA	4-6	9348	1
D-8-9	003918-0009-SA	BORING 8	VOA	8-10	9348	1
D-8-25	003918-0010-SA	BORING 8	TCL	0-28, 24-26	9348	1
D-7-5	003919-0001-SA	BORING 7	VOA	6-8	9349	1
D-7-15	003919-0002-SA	BORING 7	VOA	14-16	9349	1
R-7-15	003919-0003-SA	BORING 7	VOA	14-16	9349	1
D-7-23	003919-0004-SA	BORING 7	TCL	0-24, 22-24	9349	1
D-6-5	003919-0005-SA	BORING 6	VOA	4-6	9349	1
D-6-15	003919-0006-SA	BORING 6	VOA	14-16	9349	1
D-6-27	003919-0007-SA	BORING 6	TCL	0-30, 26-28	9349	1
P-1	003919-0008-SA	PERIMETER	VOA	0.5-1	9349	1
P-2	003919-0009-SA	PERIMETER	TCL	0.5-1	9349	1
P-3	003919-0010-SA	PERIMETER	TCL	0.5-1	9349	1
P-4	003919-0011-SA	PERIMETER	VOA	0.5-1	9351	1
P-5	003919-0012-SA	PERIMETER	TCL	0.5-1	9351	1
P-6	003919-0013-SA	PERIMETER	VOA	0.5-1	9351	1

recycled paper

ecology and environment

TRIP BLANK	003919-0014-SA	-	VOA	-	9351	-
D-5-7	003950-0001-SA	BORING 5	VOA	6-8	9330	2
D-5-13	003950-0002-SA	BORING 5	VOA	12-14	9330	2
D-5-23	003950-0003-SA	BORING 5	TCL	0-30, 22-24	9330	2
D-4-5	003950-0004-SA	BORING 4	VOA	4-6	9330	2
D-4-17	003950-0005-SA	BORING 4	VOA	16-18	9330	2
D-4-23	003950-0006-SA	BORING 4	TCL	0-26, 22-24	9330	2
D-3-5	003950-0007-SA	BORING 3	VOA	4-6	9330	2
R-3-5	003950-0008-SA	BORING 3	VOA	4-6	9330	2
D-3-13	003950-0009-SA	BORING 3	VOA	12-14	9330	2
D-3-29	003950-0010-SA	BORING 3	TCL	0-30, 28-30	9330	2
R-3-29	003951-0001-SA	BORING 3	TCL	0-30, 28-30	9331	2
D-3-21	003951-0002-SA	BORING 3	VOA	20-22	9331	2
C-7	003951-0003-SA	CENTER	VOA	0.5-1	9331	2
C-8	003951-0004-SA	CENTER	VOA	0.5-1	9331	2
C-5	003951-0005-SA	CENTER	VOA	0.5-1	9331	2
C-6	003951-0006-SA	CENTER	VOA	0.5-1	9331	2
C-3	003951-0007-SA	CENTER	TCL	0.5-1	9331	2
RC-3	003951-0008-SA	CENTER	TCL	0.5-1	9331	2
C-4	003951-0009-SA	CENTER	VOA	0.5-1	9331	2
C-1	003951-0010-SA	CENTER	VOA	0.5-1	9331	2
C-2	003951-0011-SA	CENTER	VOA	0.5-1	9331	2
P-7	003951-0012-SA	PERIMETER	VOA	0.5-1	9331	2
PR-7	003951-0013-SA	PERIMETER	VOA	0.5-1	9331	2
P-8	003951-0014-SA	PERIMETER	VOA	0.5-1	9331	2
P-9	003951-0015-SA	PERIMETER	TCL	0.5-1	9331	2
P-10	003951-0016-SA	PERIMETER	VOA	0.5-1	9331	2
RC-6	003951-0017-SA	PERIMETER	VOA	0.5-1	9331	2
TRIP BLANK	NONE	-	VOA	-	9331	-

---

*1ST NUMBER IS COMPOSITE FOR NON-VOLATILE FRACTIONS OF THE TCL ANALYSIS

recycled paper

ecology and environment

NOTE: THE DATA PRESENTED IN THIS SECTION IS PRESENTED IN THE ORIGINAL REPORT FORMAT.

SOURCE: "REMEDIAL INVESTIGATION AT SAUGET SITE R"
Geraghty & Miller, 1994

APPENDIX K

DYNAMAC SOIL BORING REPORT - 1989

ATTACHMENT B

Analytical Data for Surface and

Subsurface Soil Samples

TABLE 1: Summary of TCL Volatile Organics in Surface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget IL
(concentrations in ug/kg; sample depth in ft)

CAP/PERIM	CAP	CAP	CAP	CAP	CAP	CAP	CAP	CAP	CAP	CAP
SAMPLE NUMBER	C-1	C-2	C-3	RC-3	C-4	C-5	C-6	RC-6	C-7	C-8
SAMPLE DEPTH	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
Acrolein	< 10000	< 10000	< 100000	< 100000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000
Acrylonitrile	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000
Trichlorofluoromethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Dichlorodifluoromethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Methyl Isoamyl Ketone	--	--	--	--	--	--	--	--	--	--
Chloromethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Bromomethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Vinyl chloride	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Chloroethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Methylene chloride	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Acetone	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Carbon disulfide	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,1-Dichloroethene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,1-Dichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,2-Dichloroethene (cis/trans)	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chloroform	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,2-Dichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
2-Butanone	< 2500	< 2500	< 2500	< 2500	3300	< 2500	< 2500	< 2500	< 2500	< 2500
1,1,1-Trichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Carbon tetrachloride	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Vinyl acetate	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Bromodichloromethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,2-Dichloropropane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
cis-1,3-Dichloropropene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Trichloroethene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chlorodibromomethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,1,2-Trichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Benzene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
trans-1,3-Dichloropropene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
2-Chloroethyl vinyl ether	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Bromoform	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
4-Methyl-2-pentanone	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Hexanone	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
1,1,2,2-Tetrachloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Tetrachloroethene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Toluene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chlorobenzene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Ethyl benzene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Styrene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Total xylenes	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

recycled paper

ecology and environment

TABLE 1 (continued)

CAP/PERIM	PERIM	PERIM	PERIM	PERIM	PERIM	PERIM	PERIM	PERIM	PERIM	PERIM	PERIM
SAMPLE NUMBER	P-1	P-2	P-3	P-4	P-5	P-6	P-7	PR-7	P-8	P-9	P-10
SAMPLE DEPTH	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
Acrolein	< 10000	< 10000	< 10000	< 10000	< 10000	< 2500	< 10000	< 10000	< 10000	100000	< 10000
Acrylonitrile	< 10000	< 10000	< 10000	< 10000	< 10000	< 2500	< 10000	< 10000	< 10000	< 10000	< 10000
Trichlorofluoromethane	< 500	< 500	< 500	< 500	< 500	< 2500	< 500	< 500	< 500	< 500	< 500
Dichlorodifluoromethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 2500	< 1000	< 1000	< 1000	< 1000	< 1000
Methyl Isoamyl Ketone	--	--	--	--	--	2500	--	--	--	--	--
Chloromethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 2500	< 1000	< 1000	< 1000	< 1000	< 1000
Bromomethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 2500	< 1000	< 1000	< 1000	< 1000	< 1000
Vinyl chloride	< 1000	< 1000	< 1000	< 1000	< 1000	< 2500	< 1000	< 1000	< 1000	< 1000	< 1000
Chloroethane	< 1000	< 1000	< 1000	< 1000	< 1000	< 2500	< 1000	< 1000	< 1000	< 1000	< 1000
Methylene chloride	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
Acetone	< 2500	< 2500	< 2500	< 2500	< 2500	4900	< 2500	< 2500	4600	3400	3100
Carbon disulfide	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,1-Dichloroethene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,1-Dichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,2-Dichloroethene (cis/trans)	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chloroform	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,2-Dichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
2-Butanone	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500
1,1,1-Trichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Carbon tetrachloride	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Vinyl acetate	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Bromodichloromethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,2-Dichloropropane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
cis-1,3-Dichloropropene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Trichloroethene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chlorodibromomethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
1,1,2-Trichloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Benzene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
trans-1,3-Dichloropropene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
2-Chloroethyl vinyl ether	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Bromoform	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
4-Methyl-2-pentanone	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Hexanone	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
1,1,2,2-Tetrachloroethane	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Tetrachloroethene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Toluene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chlorobenzene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Ethyl benzene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Styrene	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Total xylenes	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500

REPLICATE SAMPLES NUMBERS ARE UNDERLINED

TABLE 2: Summary of TCL Semivolatile Organics in Surface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in ug/kg; sample depth in ft)

CAP/PERIM	CAP	CAP	PERIM	PERIM	PERIM	PERIM
SAMPLE NUMBER	C-3	RC-3	P-2	P-3	P-5	P-9
SAMPLE DEPTH	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
1,2-Diphenylhydrazine	--	--	< 330	< 330	< 330	--
Benzidine	--	--	< 330	< 330	< 330	--
N-Nitrosodimethylamine	< 330	< 330	< 330	< 330	< 330	< 330
Aniline	< 330	< 330	< 330	< 330	< 330	< 330
4-Chlorophenol	--	--	--	--	--	--
Triphenyl Phosphate	--	--	--	--	--	--
4-Nitrodiphenylamine	--	--	--	360	--	--
2-Nitrobiphenyl	--	--	--	--	--	--
3-Nitrobiphenyl	--	--	--	--	--	--
2-Nitrochlorobenzene	--	--	--	--	--	--
4-Nitrochlorobenzene	--	--	--	360	--	--
Total Dinitrochlorobenzene	--	--	--	--	--	--
Phenol	< 330	< 330	< 330	< 330	< 330	< 330
bis(2-Chloroethyl)ether	< 330	< 330	< 330	< 330	< 330	< 330
2-Chlorophenol	< 330	< 330	< 330	< 330	< 330	< 330
1,3-Dichlorobenzene	< 330	< 330	< 330	< 330	< 330	< 330
1,4-Dichlorobenzene	< 330	< 330	< 330	< 330	< 330	< 330
Benzyl alcohol	< 330	< 330	< 330	< 330	< 330	< 330
1,2-Dichlorobenzene	< 330	< 330	< 330	< 330	< 330	< 330
2-Methylphenol	< 330	< 330	< 330	< 330	< 330	< 330
bis(2-Chloroisopropyl)ether	< 330	< 330	< 330	< 330	< 330	< 330
4-Methylphenol	< 330	< 330	< 330	< 330	< 330	< 330
N-Nitroso-di-n-propylamine	< 330	< 330	< 330	< 330	< 330	< 330
Hexachloroethane	< 330	< 330	< 330	< 330	< 330	< 330
Nitrobenzene	< 330	< 330	< 330	< 330	< 330	< 330
Isophorone	< 330	< 330	< 330	< 330	< 330	< 330
2-Nitrophenol	< 330	< 330	< 330	< 330	< 330	< 330
2,4-Dimethylphenol	< 330	< 330	< 330	< 330	< 330	< 330
Benzoic acid	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
bis(2-Chloroethoxy) methane	< 330	< 330	< 330	< 330	< 330	< 330
2,4-Dichlorophenol	< 330	< 330	< 330	< 330	< 330	< 330
1,2,4-Trichlorobenzene	< 330	< 330	< 330	< 330	< 330	< 330
Naphthalene	< 330	< 330	< 330	< 330	< 330	< 330
4-Chloroaniline	< 330	< 330	< 330	< 330	< 330	< 330
Hexachlorobutadiene	< 330	< 330	< 330	< 330	< 330	< 330
4-Chloro-3-methylphenol	< 330	< 330	< 330	< 330	< 330	< 330
2-Methylnaphthalene	< 330	< 330	< 330	< 330	< 330	< 330
Hexachlorocyclopentadiene	< 330	< 330	< 330	< 330	< 330	< 330

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

recycled paper

ecology and environment

TABLE 2 (continued)

CAP/PERIM	CAP	CAP	PERIM	PERIM	PERIM	PERIM
SAMPLE NUMBER	C-3	RC-3	P-2	P-3	P-5	P-9
SAMPLE DEPTH	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
2,4-Dinitrophenol	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
4-Nitrophenol	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
Dibenzofuran	< 330	< 330	< 330	< 330	< 330	< 330
2-4-Dinitrotoluene	< 330	< 330	< 330	< 330	< 330	< 330
2,6-Dinitrotoluene	< 330	< 330	< 330	< 330	< 330	< 330
Diethyl phthalate	< 330	< 330	< 330	< 330	< 330	< 330
4-Chlorophenyl phenyl ether	< 330	< 330	< 330	< 330	< 330	< 330
Fluorene	< 330	< 330	< 330	< 330	< 330	< 330
4-Nitroaniline	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
4,6-Dinitro-2-methylphenol	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
N-Nitrosodiphenylamine	< 330	< 330	< 330	< 330	< 330	< 330
4-Bromophenyl phenyl ether	< 330	< 330	< 330	< 330	< 330	< 330
Hexachlorobenzene	< 330	< 330	< 330	< 330	< 330	< 330
Pentachlorophenol	< 1600	< 1600	< 1600	< 1600	< 1600	< 1600
Phenanthrene	< 330	< 330	< 330	< 330	< 330	< 330
Anthracene	< 330	< 330	< 330	< 330	< 330	< 330
Di-n-butyl phthalate	< 330	< 330	< 330	< 330	< 330	< 330
Fluoranthene	< 330	< 330	< 330	< 330	< 330	< 330
Pyrene	< 330	< 330	< 330	< 330	< 330	< 330
Butyl benzyl phthalate	< 330	< 330	< 330	< 330	< 330	< 330
3,3'-Dichlorobenzidine	< 660	< 660	< 660	< 660	< 660	< 660
Benzo(a)anthracene	< 330	< 330	< 330	< 330	< 330	< 330
bis(2-Ethylhexyl) phthalate	< 330	< 330	< 330	< 330	< 330	< 330
Chrysene	< 330	< 330	< 330	< 330	< 330	< 330
Di-n-octyl phthalate	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(b)fluoroanthene	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(k)fluoroanthene	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)pyrene	< 330	< 330	< 330	< 330	< 330	< 330
Indeno(1,2,3-c,d)pyrene	< 330	< 330	< 330	< 330	< 330	< 330
Dibenz(a,h)anthracene	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	< 330	< 330	< 330	< 330	< 330	< 330

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

TABLE 3: Summary of PP Organochlorine Pesticides/PCBs in Surface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in ug/kg; sample depth in ft)

CAP/PERIM	CAP	CAP	CAP	PERIM	PERIM	PERIM	PERIM
SAMPLE NUMBER	C-1	C-3	RC-3	P-2	P-3	P-5	P-9
SAMPLE DEPTH	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
alpha-BHC	< 8	< 8	< 8	< 8	< 8	< 8	< 8
beta-BHC	< 8	< 8	< 8	< 8	< 8	< 8	< 8
delta-BHC	< 8	< 8	< 8	< 8	< 8	< 8	< 8
gamma-BHC (Lindane)	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Heptachlor	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Aldrin	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Heptachlor epoxide	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Endosulfan I	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Dieldrin	< 16	< 16	< 16	< 16	< 16	< 16	< 16
4,4'-DDE	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Endrin	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Endosulfan II	< 16	< 16	< 16	< 16	< 16	< 16	< 16
4,4'-DDT	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Endosulfan sulfate	< 16	< 16	< 16	< 16	< 16	< 16	< 16
4,4'-DDT	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Endrin aldehyde	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Methoxychlor	< 80	< 80	< 80	< 80	< 80	< 80	< 80
Chlordane	< 80	< 80	< 80	< 80	< 80	< 80	< 80
Toxaphene	< 160	< 160	< 160	< 160	< 160	< 160	< 160
Arochlor-1016	< 80	< 80	< 80	< 80	< 80	< 80	< 80
Arochlor-1221	< 80	< 80	< 80	< 80	< 80	< 80	< 80
Arochlor-1232	< 80	< 80	< 80	< 80	< 80	< 80	< 80
Arochlor-1242	< 80	< 80	< 80	< 80	< 80	< 80	< 80
Arochlor-1248	< 80	< 80	< 80	< 80	680	< 80	< 80
Arochlor-1254	< 160	< 160	< 160	< 160	630	< 160	< 160
Arochlor-1260	< 160	< 160	< 160	< 160	< 160	< 160	< 160

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

recycled paper

ecology and environment

TABLE 4: Summary of Metals and Miscellaneous Compounds in Surface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in mg/kg; sample depth in ft)

CAP/PERIM	CAP	CAP	PERIM	PERIM	PERIM	PERIM
SAMPLE NUMBER	C-3	RC-3	P-2	P-3	P-5	P-9
SAMPLE DEPTH	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
Antimony	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 0.50
Beryllium	0.40	0.40	0.40	0.40	0.40	0.50
Cadmium	< 0.50	< 0.50	< 0.50	< 0.50	1.00	< 1.00
Chromium	9.00	8.00	8.00	9.00	9.00	8.00
Copper	12.00	11.00	9.40	9.70	14.00	13.00
Nickel	13.00	14.00	11.00	11.00	11.00	13.00
Silver	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc	30.00	27.00	27.00	27.00	75.00	43.00
Aluminum	7600.00	6700.00	6800.00	7500.00	7400.00	8100.00
Barium	93.00	87.00	74.00	78.00	86.00	100.00
Boron	< 2.00	< 2.00	11.00	2.00	11.00	4.00
Cobalt	6.00	7.00	5.00	6.00	5.00	7.00
Iron	13500.00	12100.00	11400.00	12400.00	12300.00	13900.00
Lead	10.00	8.00	8.00	9.00	16.00	15.00
Manganese	470.00	560.00	400.00	430.00	400.00	550.00
Tin	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Vanadium	22.00	21.00	23.00	25.00	24.00	23.00
Arsenic	3.90	4.10	3.10	3.60	3.70	5.70
Mercury	< 0.05	< 0.05	< 0.05	0.24	< 0.05	< 0.05
Selenium	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Thallium	< 0.80	< 0.80	< 0.40	< 0.40	< 0.40	0.40
2,3,7,8-TCDD (ng/g)	< 0.045	< 0.064	< 0.036	< 0.059	< 0.037	< 0.04

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

TABLE 5: Summary of TCL Volatile Organics in Subsurface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in ug/kg)

BORING	D-1	D-1	D-1	D-2	D-2	D-2	D-2	D-3	D-3
SAMPLE NUMBER	D-1-3	D-1-7	D-1-13	D-2-7	D-2-11	D-2-15	D-2-17	D-3-5	R-3-5
SAMPLE DEPTH *	2-4	6-8	12-14	6-8	10-12	14-16	16-18	4-6	4-6
Acrolein	< 200000	< 100000	< 200000	< 2000000	< 50000	< 20000	< 50000	< 10000	< 10000
Acrylonitrile	< 200000	< 100000	< 200000	< 2000000	< 50000	< 20000	< 50000	< 10000	< 10000
Trichlorofluoromethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Dichlorodifluoromethane	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Methyl Isoamyl Ketone	--	--	--	--	--	--	--	--	--
Chloromethane	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Bromomethane	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Vinyl chloride	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Chloroethane	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Methylene chloride	< 50000	< 25000	< 50000	< 500000	< 12500	< 5000	< 12500	< 2500	< 2500
Acetone	< 50000	< 25000	< 50000	1200000	< 12500	12000	< 12500	< 2500	< 2500
Carbon disulfide	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
1,1-Dichloroethene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
1,1-Dichloroethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
1,2-Dichloroethene (cis/trans)	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Chloroform	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
1,2-Dichloroethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
2-Butanone	< 50000	< 25000	< 50000	770000	< 12500	< 5000	< 12500	< 2500	< 2500
1,1,1-Trichloroethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Carbon tetrachloride	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Vinyl acetate	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Bromodichloromethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
1,2-Dichloropropane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
cis-1,3-Dichloropropene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Trichloroethene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Chlorodibromomethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
1,1,2-Trichloroethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Benzene	< 10000	< 5000	< 10000	1200000	5800000	2900	6800	< 500	< 500
trans-1,3-Dichloropropene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
2-Chloroethyl vinyl ether	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
Bromoform	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
4-Methyl-2-pentanone	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
2-Hexanone	< 20000	< 10000	< 20000	< 200000	< 5000	< 2000	< 5000	< 1000	< 1000
1,1,2,2-Tetrachloroethane	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Tetrachloroethene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Toluene	< 10000	< 5000	< 10000	< 100000	13000	< 1000	< 2500	510	< 500
Chlorobenzene	< 10000	< 5000	48000	1900000	540000	24000	39000	< 500	< 500
Ethyl benzene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Styrene	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500
Total xylenes	< 10000	< 5000	< 10000	< 100000	< 2500	< 1000	< 2500	< 500	< 500

TABLE 5 (continued)

BORING	D-3	D-3	D-3	D-3	D-4	D-4	D-4	D-5	D-5
SAMPLE NUMBER	D-3-13	D-3-21	D-3-29	R-3-29	D-4-5	D-4-17	D-4-23	D-5-7	D-5-13
SAMPLE DEPTH *	12-14	20-22	28-30	28-30	4-6	16-18	22-24	6-8	12-14
Acrolein	< 1000000	< 200000	< 1000000	< 10000000	< 67000	< 10000	< 100000	< 13000	< 200000
Acrylonitrile	< 1000000	< 200000	< 1000000	< 1000000	< 67000	< 10000	< 10000	< 13000	< 200000
Trichlorofluoromethane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Dichlorodifluoromethane	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
Methyl Isoamyl Ketone	--	--	--	--	--	--	--	--	--
Chloromethane	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
Bromomethane	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
Vinyl chloride	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
Chloroethane	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
Methylene chloride	< 250000	< 50000	< 250000	< 250000	< 16750	< 2500	< 2500	< 3250	< 50000
Acetone	< 250000	< 50000	< 250000	< 250000	33000	< 2500	< 2500	14000	130000
Carbon disulfide	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
1,1-Dichloroethene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
1,1-Dichloroethane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
1,2-Dichloroethene (cis/trans)	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Chloroform	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
1,2-Dichloroethane	< 50000	170000	< 50000	270000	< 3350	< 500	< 500	< 650	< 10000
2-Butanone	670000	< 50000	280000	< 250000	18000	< 2500	< 2500	< 3250	< 50000
1,1,1-Trichloroethane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Carbon tetrachloride	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Vinyl acetate	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
Bromodichloromethane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
1,2-Dichloropropane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
cis-1,3-Dichloropropene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Trichloroethene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Chlorodibromomethane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
1,1,2-Trichloroethane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Benzene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	870	< 10000
trans-1,3-Dichloropropene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
2-Chloroethyl vinyl ether	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
Bromoform	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
4-Methyl-2-pentanone	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
2-Hexanone	< 100000	< 20000	< 100000	< 100000	< 6700	< 1000	< 1000	< 1300	< 20000
1,1,2,2-Tetrachloroethane	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Tetrachloroethene	380000	46000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Toluene	190000	25000	80000	86000	< 3350	< 500	< 500	730	< 10000
Chlorobenzene	260000	230000	1200000	1500000	< 3350	< 500	< 500	< 650	< 10000
Ethyl benzene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Styrene	< 50000	< 10000	< 50000	< 50000	< 3350	< 500	< 500	< 650	< 10000
Total xylenes	180000	18000	< 50000	52000	< 3350	< 500	< 500	< 650	< 10000

TABLE 5 (continued)

BORING	D-5	D-6	D-6	D-6	D-7	D-7	D-7	D-7	D-8	D-8
SAMPLE NUMBER	D-5-23	D-6-5	D-6-15	D-6-27	D-7-5	D-7-15	R-7-15	D-7-23	D-8-5	D-8-9
SAMPLE DEPTH *	22-24	4-6	14-16	26-28	6-8	14-16	14-16	22-24	4-6	8-10
Acrolein	< 200000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 200000	< 50000
Acrylonitrile	< 20000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 200000	< 50000
Trichlorofluoromethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Dichlorodifluoromethane	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
Methyl Isoamyl Ketone	--	--	--	--	--	--	--	--	--	--
Chloromethane	< 2000	< 1000	< 1000	< 1000	< 1000	5500	< 1000	< 1000	< 20000	< 5000
Bromomethane	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
Vinyl chloride	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
Chloroethane	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
Methylene chloride	< 5000	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 50000	< 12500
Acetone	16000	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 50000	26000
Carbon disulfide	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
1,1-Dichloroethene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
1,1-Dichloroethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
1,2-Dichloroethene (cis/trans)	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Chloroform	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
1,2-Dichloroethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
2-Butanone	< 5000	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	< 50000	< 12500
1,1,1-Trichloroethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Carbon tetrachloride	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Vinyl acetate	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
Bromodichloromethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
1,2-Dichloropropane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
cis-1,3-Dichloropropene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Trichloroethene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Chlorodibromomethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
1,1,2-Trichloroethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Benzene	3100	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
trans-1,3-Dichloropropene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
2-Chloroethyl vinyl ether	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
Bromoform	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
4-Methyl-2-pentanone	14000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
2-Hexanone	< 2000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 20000	< 5000
1,1,2,2-Tetrachloroethane	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Tetrachloroethene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Toluene	3400	< 500	< 500	< 500	< 500	< 500	< 500	500	210000	48000
Chlorobenzene	1200	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Ethylbenzene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Styrene	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500
Total xylenes	< 1000	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 10000	< 2500

* ALL SAMPLE DEPTHS ARE GIVEN IN FEET BELOW LAND SURFACE

REPLICATE SAMPLE NUMBERS UNDERLINED

VOC FRACTION SAMPLES ARE COMPOSITES OF ONE SPLIT SPOON SAMPLE FROM THE STATED DEPTH INTERVAL

NON-VOC SAMPLES ARE COMPOSITES OF ALIQUOTS FROM CONTINUOUS SPLIT SPOON SAMPLES COLLECTED FROM OVER THE STATED DEPTH INTERVAL

TABLE 6: Summary of TCL Semivolatile Organics in Subsurface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in ug/kg)

BORING	D-1	D-2	D-3	D-3	D-4	D-5	D-6	D-7	D-8
SAMPLE NUMBER	D-1-13	D-2-17	D-3-29	R-3-29	D-4-23	D-5-23	D-6-27	D-7-23	D-8-25
SAMPLE DEPTH *	0-16	0-18	0-30	0-30	0-26	0-30	0-30	0-24	0-28
1,2-Diphenylhydrazine	< 16000000	< 159984	--	--	--	--	< 330	< 330	< 33000
Benzidine	< 16000000	< 159984	--	--	--	--	< 330	< 330	< 33000
N-Nitrosodimethylamine	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Aniline	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
4-Chlorophenol	--	--	--	--	14000	120000	--	--	--
Triphenyl Phosphate	--	--	--	--	360000	800000	--	--	--
4-Nitrodiphenylamine	--	--	--	--	17000	440000	--	--	--
2-Nitrobiphenyl	--	--	--	--	--	--	--	--	--
3-Nitrobiphenyl	--	--	--	--	--	--	--	--	--
2-Nitrochlorobenzene	8000000	5400000	8000000	19000000	57000	840000	--	--	--
4-Nitrochlorobenzene	--	2100000	6800000	8400000	14000	320000	--	--	--
Total Dinitrochlorobenzene	--	--	--	--	--	--	--	--	--
Phenol	< 1600005	330000	< 660000	< 660000	21000	140000	< 330	< 330	< 33000
bis(2-Chloroethyl)ether	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2-Chlorophenol	< 1600005	< 159984	< 660000	< 660000	26000	220000	< 330	< 330	< 33000
1,3-Dichlorobenzene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
1,4-Dichlorobenzene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Benzyl alcohol	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
1,2-Dichlorobenzene	< 1600005	< 159984	< 660000	< 660000	7300	680000	< 330	< 330	< 33000
2-Methylphenol	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
bis(2-Cloroisopropyl) ether	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
4-Methylphenol	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
N-Nitroso-di-n-propylamine	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Hexachloroethane	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Nitrobenzene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Isophorone	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2-Nitrophenol	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2,4-Dimethylphenol	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Benzoic acid	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
bis(2-Chloroethoxy) methane	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2,4-Dichlorophenol	2100000	980000	3900000	4200000	16000	1100000	< 330	< 330	< 33000
1,2,4-Trichlorobenzene	< 1600005	< 159984	< 660000	< 660000	< 6600	210000	< 330	< 330	< 33000
Naphthalene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	410	< 330	< 33000
4-Chloroaniline	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Hexachlorobutadiene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
4-Chloro-3-methylphenol	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2-Methylnaphthalene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Hexachlorocyclopentadiene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2,4,6-Trichlorophenol	< 1600005	< 159984	< 660000	980000	< 6600	240000	< 330	< 330	< 33000
2,4,5-Trichlorophenol	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
2-Chloronaphthalene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2-Nitroaniline	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
Dimethyl phthalate	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< [illegible]000

TABLE 6 (continued)

BORING	D-1	D-2	D-3	D-3	D-4	D-5	D-6	D-7	D-8
SAMPLE NUMBER	D-1-13	D-2-17	D-3-29	R-3-29	D-4-23	D-5-23	D-6-27	D-7-23	D-8-25
SAMPLE DEPTH *	0-16	0-18	0-30	0-30	0-26	0-30	0-30	0-24	0-28
Acenaphthylene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
3-Nitroaniline	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
Acenaphthene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2,4-Dinitrophenol	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
4-Nitrophenol	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
Dibenzofuran	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2-4-Dinitrotoluene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
2,6-Dinitrotoluene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Diethyl phthalate	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
4-Chlorophenyl phenyl ether	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Fluorene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
4-Nitroaniline	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
4,6-Dinitro-2-methylphenol	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
N-Nitrosodiphenylamine	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
4-Bromophenyl phenyl ether	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Hexachlorobenzene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Pentachlorophenol	< 7757600	< 775680	< 3200000	< 3200000	< 32000	< 160000	< 1600	< 1600	< 160000
Phenanthrene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Anthracene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Di-n-butyl phthalate	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Fluoranthene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	600	< 330	< 33000
Pyrene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	570	< 330	< 33000
Butyl benzyl phthalate	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
3,3'-Dichlorobenzidine	< 3200010	< 319968	< 1320000	< 1320000	< 13200	< 66000	< 660	< 660	< 66000
Benzo(a)anthracene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
bis(2-Ethylhexyl) phthalate	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Chrysene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	410	< 330	< 33000
Di-n-octyl phthalate	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Benzo(b)fluoroanthene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Benzo(k)fluoroanthene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	580	< 330	< 33000
Benzo(a)pyrene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Indeno(1,2,3-c,d)pyrene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Dibenz(a,h)anthracene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000
Benzo(g,h,i)perylene	< 1600005	< 159984	< 660000	< 660000	< 6600	< 33000	< 330	< 330	< 33000

* ALL SAMPLE DEPTHS ARE GIVEN IN FEET BELOW LAND SURFACE

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

VOC FRACTION SAMPLES ARE COMPOSITES OF ONE SPLIT SPOON SAMPLE FROM THE STATED DEPTH INTERVAL

NON-VOC SAMPLES ARE COMPOSITES OF ALIQUOTS FROM CONTINUOUS SPLIT SPOON SAMPLES COLLECTED OVER THE STATED DEPTH INTERVAL

recycled paper

ecology and environment

TABLE 7: Summary of PP Organochlorine Pesticides/PCBs in Subsurface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in ug/kg)

BORING	D-1	D-2	D-3	D-3	D-4	D-5	D-6	D-7	D-8
SAMPLE NUMBER	D-1-13	D-2-17	D-3-29	R-3-29	D-4-23	D-5-23	D-6-27	D-7-23	D-8-25
SAMPLE DEPTH *	0-16	0-18	0-30	0-30	0-26	0-30	0-30	0-24	0-28
alpha-BHC	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
beta-BHC	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
delta-BHC	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
gamma-BHC (Lindane)	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
Heptachlor	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
Aldrin	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
Heptachlor epoxide	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
Endosulfan I	< 800	< 800	< 4000	< 1600	< 80	< 800	< 8	< 8	< 80
Dieldrin	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
4,4'-DDE	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
Endrin	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
Endosulfan II	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
4,4'-DDT	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
Endosulfan sulfate	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
4,4'-DDT	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
Endrin aldehyde	< 1600	< 1600	< 8000	< 3200	< 160	< 1600	< 16	< 16	< 160
Methoxychlor	< 8000	< 8000	< 40000	< 16000	< 800	< 8000	< 80	< 80	< 800
Chlordane	< 8000	< 8000	< 40000	< 16000	< 800	< 8000	< 80	< 80	< 800
Toxaphene	< 16000	< 16000	< 80000	< 32000	< 1600	< 16000	< 160	< 160	< 1600
Arochlor-1016	< 8000	< 8000	< 40000	49000	< 800	< 8000	< 80	< 80	< 800
Arochlor-1221	< 8000	< 8000	< 40000	< 16000	< 800	< 8000	< 80	< 80	< 800
Arochlor-1232	< 8000	< 8000	< 40000	< 16000	< 800	< 8000	< 80	< 80	< 800
Arochlor-1242	< 8000	< 8000	< 40000	< 16000	< 800	< 8000	< 80	< 80	< 800
Arochlor-1248	< 8000	< 8000	< 40000	< 16000	< 800	< 8000	< 80	< 80	< 800
Arochlor-1254	< 16000	< 16000	< 80000	< 32000	< 1600	< 16000	160	< 160	< 1600
Arochlor-1260	< 16000	20000	< 80000	< 32000	< 1600	< 16000	< 160	< 160	< 1600

* ALL SAMPLE DEPTHS ARE GIVEN IN FEET BELOW LAND SURFACE

REPLICATED SAMPLE NUMBERS ARE UNDERLINED

VOC FRACTION SAMPLES ARE COMPOSITES OF ONE SPLIT SPOON SAMPLE FROM THE STATED DEPTH INTERVAL

NON-VOC SAMPLES ARE COMPOSITES OF ALIQUOTS FROM CONTINUOUS SPLIT SPOON SAMPLES COLLECTED OVER THE STATED DEPTH INTERVAL

TABLE 8: Summary of Metals and Miscellaneous Compounds in Subsurface Soil Samples
River's Edge Landfill (Sauget Site R), Monsanto Company, Sauget, IL
(concentrations in mg/kg)

BORING	D-1	D-2	D-3	D-3	D-4	D-5	D-6	D-7	D-8
SAMPLE NUMBER	D-1-13	D-2-17	D-3-29	R-3-29	D-4-23	D-5-23	D-6-27	D-7-23	D-8-25
SAMPLE DEPTH *	0-16	0-18	0-30	0-30	0-26	0-30	0-30	0-24	0-28
Antimony	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Beryllium	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.6	0.6
Cadmium	< 0.5	< 0.5	0.6	0.7	< 0.5	< 0.5	< 0.5	0.7	< 0.5
Chromium	5	8	13	13	5	7	4	8	8
Copper	11	23	18	36	11	14	7.4	9.3	12
Nickel	9	19	9	10	11	9	9	12	13
Silver	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	43	79	110	46	70	35	40	79	68
Aluminum	10	24	3100	3500	4700	4800	4500	5100	16
Barium	4000	3700	150	160	110	90	110	100	5800
Boron	83	170	9	9	9	15	10	60	110
Cobalt	5	12	6	8	5	3	3	4	28
Iron	7	12	7900	11000	9100	10500	8400	10400	5
Lead	5300	8100	13	16	14	15	10	19	11400
Manganese	200	180	180	170	250	190	180	210	250
Tin	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vanadium	14	13	13	14	16	16	13	22	20
Arsenic	3.5	3.1	2.1	3.1	2.3	3	2.9	13	16
Mercury	< 0.05	< 0.05	0.15	0.29	0.26	0.53	< 0.05	< 0.05	0.06
Selenium	< 0.2	< 0.3	< 0.2	< 0.2	0.2	< 0.2	0.3	0.5	0.6
Thallium	< 0.8	< 2	< 0.8	2	< 0.8	2	0.8	0.4	0.4
2,3,7,8-TCDD (ng/g)	< 0.24	< 0.27	0.66	2.6	0.04	< 0.04	< 0.2	< 0.17	< 0.17

* ALL SAMPLE DEPTHS ARE GIVEN IN FEET BELOW LAND SURFACE

REPLICATE SAMPLE NUMBERS ARE UNDERLINED

VOC FRACTION SAMPLES ARE COMPOSITES OF ONE SPLIT SPOON SAMPLE FROM THE STATED DEPTH INTERVAL

NON-VOC SAMPLES ARE COMPOSITES OF ALIQUOTS FROM CONTINUOUS SPLIT SPOON SAMPLES COLLECTED OVER THE STATED DEPTH INTERVAL

recycled paper

ecology and environment

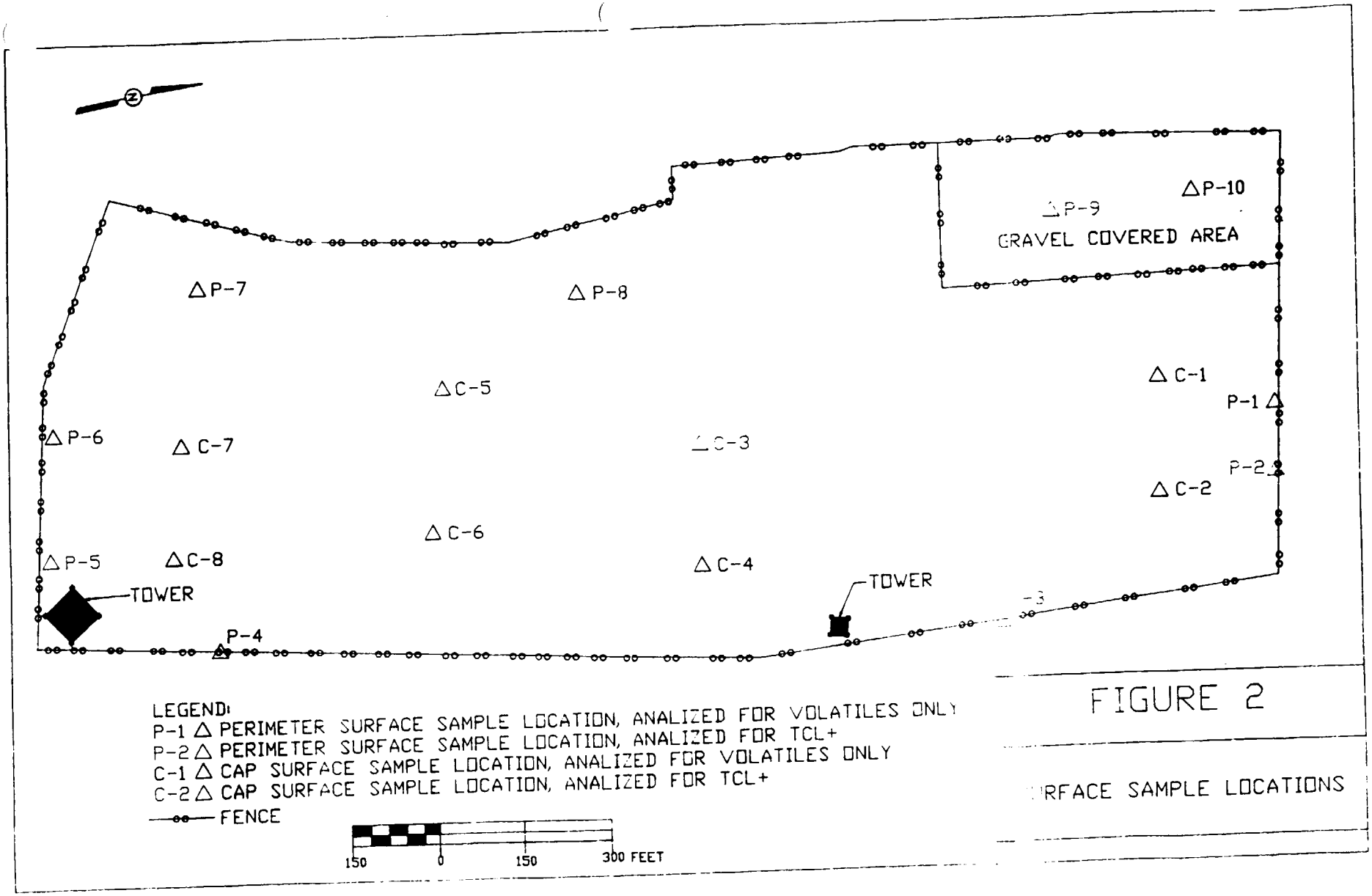


FIGURE 2

RFACE SAMPLE LOCATIONS

recycled paper

ecology and environment

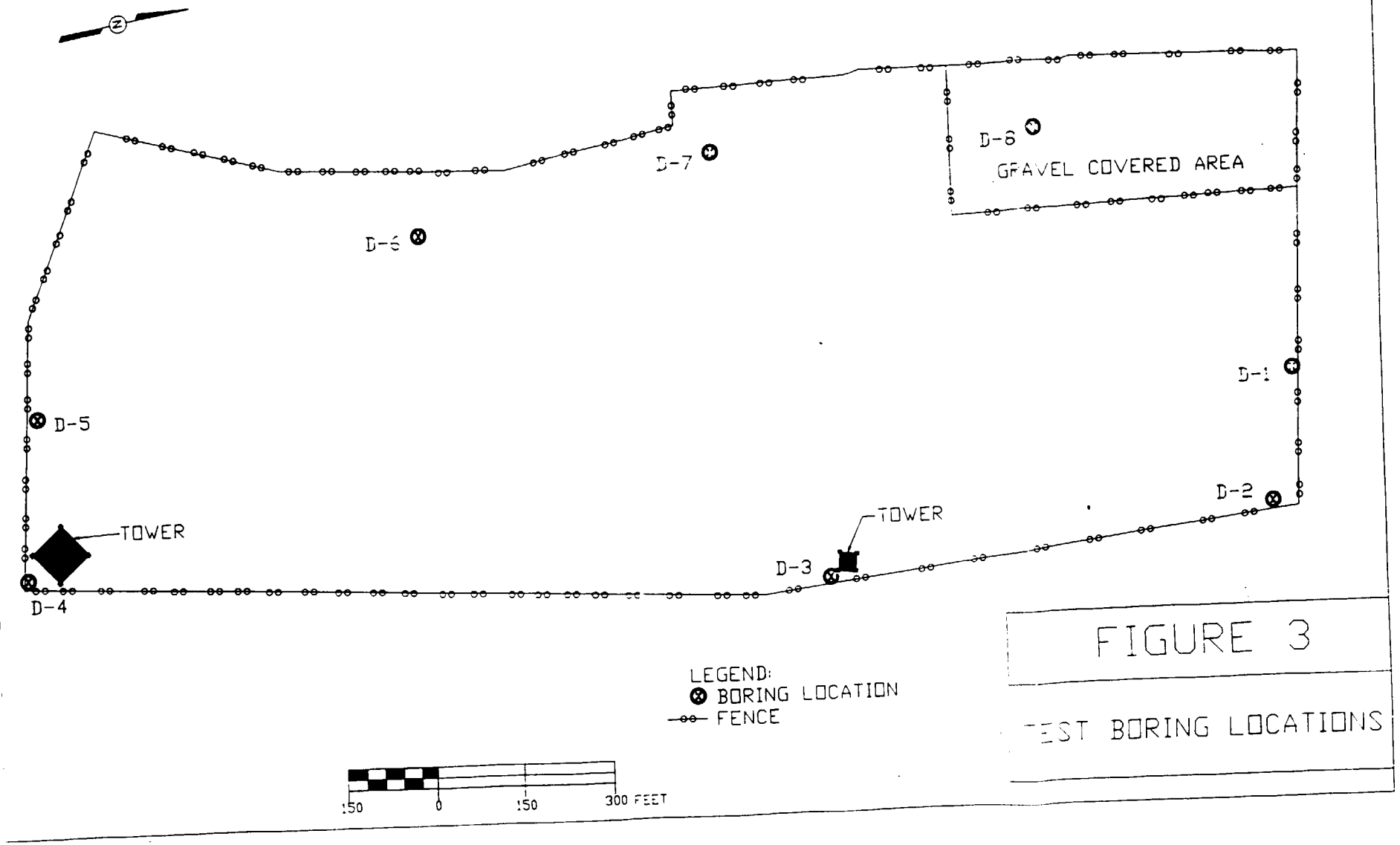


FIGURE 3

TEST BORING LOCATIONS

recycled paper

ecology and environment

Site R Data
(Post-1992)

Site S Data

NOTE: THE DATA PRESENTED IN THIS SECTION IS PRESENTED IN THE ORIGINAL REPORT FORMAT.

SOURCE: "REMEDIAL INVESTIGATION AT SAUGET SITE R"
Geraghty & Miller, 1994

VOLUME I
REMEDIAL INVESTIGATION
AT SAUGET SITE R
MONSANTO COMPANY, SAUGET, ILLINOIS

RECEIVED
JUL 31 1997
IEPA/BOL

August 1994

Prepared for

Monsanto Company
800 North Lindbergh Boulevard
St. Louis, Missouri 63167

Prepared by

Geraghty & Miller, Inc.
125 East Bethpage Road
Plainview, New York 11803
(516) 249-7600

SCREENED
M M

ORIGINAL

Table 5-4. Summary of Target Compound List Volatile Organic Compounds Detected in Sediment Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	Trip Blank	Equipment Blank
	Sample Date:	6/30/92	6/30/92	6/30/92	6/30/92	6/30/92	6/30/92	6/30/92	6/30/92	6/30/92	6/30/92
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L	ug/L
Methylene chloride		–	4 J	4 BJ	3 BJ	14 J	16 J	–	5 J	–	–
1,1,1-Trichloroethane		–	–	–	–	4 J	2 J	–	6 J	–	–
Trichloroethene		–	–	5 J	–	–	–	–	–	–	–
Tetrachloroethene		–	10 J	11 J	6 J	23 J	19 J	7 J	9 J	–	–
Toluene		–	3 J	7 J	7 J	10 J	11 J	5 J	9 J	–	–
Ethylbenzene		–	2 J	–	–	7 J	5 J	–	4 J	–	–
Xylenes		–	17 J	–	–	35 J	22 J	–	–	–	–
Total VOCs		–	36	27	16	93	75	12	33	–	–

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
– Not detected.
J Estimated value.
B Compound detected in blank.
VOCs Volatile organic compounds.

Only those compounds detected are listed.

recycled paper

ecology and environment

Table 5-5. Summary of Target Compound List Semivolatile Organic Compounds Detected in Sediment Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location: / Sample Date: / Units:	SS-1 6/30/92 ug/kg	SS-2 6/30/92 ug/kg	SS-3 6/30/92 ug/kg	SS-4 6/30/92 ug/kg	SS-5 6/30/92 ug/kg	SS-6 6/30/92 ug/kg	SS-7 6/30/92 ug/kg	SS-8 6/30/92 ug/kg	Equipment Blank 6/30/92 ug/L
2-Methylphenol (o-cresol)		--	--	--	--	--	--	45 J	--	--
2,4-Dimethylphenol		--	--	--	--	--	--	29 J	--	--
Naphthalene		--	--	--	--	--	--	230 J	200 J	--
2-Methylnaphthalene		--	--	--	--	--	--	410	360	--
Acenaphthene		--	--	--	--	--	--	20 J	--	--
Dibenzofuran		--	--	--	--	--	--	51 J	66 J	--
Diethylphthalate		22 J	28 J	19 J	17 J	--	--	14 J	--	--
Fluorene		--	--	--	--	--	--	31 J	15 J	--
Phenanthrene		--	--	--	--	--	--	370	270 J	--
Anthracene		--	--	--	--	--	--	91 J	44 J	--
Carbazole		--	--	--	--	--	--	31 J	32 J	--
Di-n-butylphthalate		--	--	9 J	--	--	--	13 J	--	--
Fluoranthene		--	--	54 J	--	160 J	--	170 J	130 J	--
Pyrene		9 J	23 J	48 J	19 J	150 J	25 J	380	180 J	--
Butylbenzylphthalate		11 J	11 J	--	9 J	--	--	25 J	25 J	--
Benzo(a)anthracene		--	--	--	--	130 J	--	450	180 J	--
Chrysene		--	--	44 J	--	140 J	34 J	470	190 J	--
bis(2-Ethylhexyl)phthalate		--	--	53 J	--	--	--	--	54 J	--
Di-n-octylphthalate		37 J	--	22 J	--	--	--	--	32 J	--
Benzo(b)fluoranthene		--	--	--	--	120 J	--	280 J	97 J	--
Benzo(k)fluoranthene		--	--	--	--	110 J	--	130 J	--	--
Benzo(a)pyrene		--	--	--	--	120 J	--	490	210 J	--
Indeno(1,2,3-cd)pyrene		--	--	--	--	38 J	--	100 J	--	--
Benzo(g,h,i)perylene		--	--	--	--	38 J	--	160 J	--	--
Total SVOCs		79	62	249	45	1006	59	3990	2085	--

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
J Estimated value.
-- Not detected.
SVOCs Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-6. Summary of Target Compound List Pesticides and PCBs Detected in Sediment Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location: / Sample Date: / Units:	SS-1 6/30/92 ug/kg	SS-2 6/30/92 ug/kg	SS-3 6/30/92 ug/kg	SS-4 6/30/92 ug/kg	SS-5 6/30/92 ug/kg	SS-6 6/30/92 ug/kg	SS-7 6/30/92 ug/kg	SS-8 6/30/92 ug/kg	Equipment Blank 6/30/92 ug/L
Pesticides/PCBs										
4,4'-DDE		8.8	--	--	--	--	--	--	--	--
4,4'-DDT		87	--	--	--	--	--	--	--	--
Aroclor-1248		--	--	570 J	--	--	--	79 J	220 J	--
Aroclor-1254		--	--	520 J	64 J	52 J	--	110 J	220 J	--
Aroclor-1260		80	320 J	410 J	92 J	89 J	--	120 J	230 J	--

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
J Estimated value.
-- Not detected.
PCB Polychlorinated biphenyls.

Only those compounds detected are listed.

recycled paper

ecology and environment

Table 5-7. Summary of Target Analyte List Parameters Detected in Sediment Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	Equipment Blank
Sample Date:	6/30/92	6/30/92	6/30/92	6/30/92	6/30/92	6/30/92	6/30/92	6/30/92	6/30/92
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/L
Parameter									
Aluminum	10100	10000	11200	10500	11900	11100	11400	7870	–
Antimony	R	R	R	R	R	R	R	R	–
Arsenic	4.3	9.6	3.8	6.3	7.7	4.5	7.3	5.3	–
Barium	92.8	123	107	118	124	111	111	111	–
Calcium	7160	7020	3440	6470	5850	4470	4490	8110	271 B
Chromium	16.2	17.8	18.4	15.8	18.4	18.2	20.1	13.7	–
Cobalt	8.2 B	9.6 B	9.9 B	9.7 B	10.0 B	9.4 B	9.0 B	9.1 B	–
Copper	19.1	22.2	20.6	17.7	20.1	15.5	20.0	19.1	–
Iron	15700	19100	17700	17400	19200	17700	18700	14800	–
Lead	15.1	20.5	12.3	22.6	21.9	13.2	20.2	16.8	–
Magnesium	4950	4610	3090	4150	4120	3790	3810	5450	–
Manganese	473	594	592	549	566	616	461	513	–
Mercury	0.05	0.11	–	0.13	0.06	–	0.05	0.06	–
Nickel	19.0	23.6	21.0	20.6	22.2	20.7	27.9	22.7	–
Potassium	1270	1250	1290	976 B	1290	1110	1300	919 B	–
Sodium	–	–	–	–	–	–	–	–	561 B
Vanadium	31.9	31.7	36.8	29.5	33.4	33.4	55.2	29.2	–
Zinc	99.4	117	116	85.9	128	82.2	171	105	–
Cyanide	–	–	–	–	–	–	–	–	–

–	Not detected.
ug/L	Micrograms per liter.
mg/kg	Milligrams per kilogram.
B	Compound is between the contract required detection limit and the instrument detection limit.
R	Data were unusable.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-1	SB-1	SB-1	SB-2	SB-2	SB-2
Sample Depth:	12-14 ft	26-28 ft	32-34 ft	12-14 ft	14-16 ft	28-30 ft
Sample Date:	4/9/92	4/9/92	4/9/92	4/10/92	4/10/92	4/13/92
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameter						
Methylene chloride	–	–	–	–	250 J	–
Acetone	–	9800	11000	81000	5300 J	9000 J
1,1-Dichloroethene	–	–	–	–	–	–
1,2-Dichloroethene (total)	–	–	–	–	–	–
Chloroform	–	–	–	–	670 J	–
1,2-Dichloroethane	220000	–	–	–	–	–
2-Butanone (MEK)	–	–	–	–	–	–
1,1,1-Trichloroethane	–	–	–	–	–	–
Bromodichloroethane	–	–	–	–	–	–
Trichloroethene	–	–	–	–	–	–
Dibromochloroethane	–	–	–	–	–	–
Benzene	210000	1400 J	1700	26000 J	200000 D	3900 J
4-Methyl-2-pentanone	–	–	–	–	–	–
Tetrachloroethene	3700 J	–	–	–	1800 J	–
Toluene	16000 J	880 J	1100 J	38000 J	74000 J	830 J
Chlorobenzene	890000	18000	9200	650000	2400000 D	33000
Ethylbenzene	43000 J	760 J	750 J	–	680 J	–
Xylenes	110000	2200 J	1500 J	–	2600 J	350 J
Total VOCs	1492700	33040	25250	795000	2685300	47080

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
–	Not detected.
E	Concentration is above the calibration range of the instrument.
J	Estimated value.
B	Compound detected in blank.
D	Concentration determined at a secondary dilution factor.
VOCs	Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	SB-3	SB-3	SB-3	SB-4	SB-4	SB-4
	Sample Depth:	12 - 14 ft	14 - 16 ft	32 - 24 ft	10-12 ft	12-14 ft	30-32 ft
	Sample Date:	4/16/92	4/16/92	4/16/92	4/14/92	4/14/92	4/14/92
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Methylene chloride		–	–	–	–	–	–
Acetone		500000	320000	–	17000	2500	34000 J
1,1-Dichloroethene		–	–	–	–	–	–
1,2-Dichloroethene (total)		–	–	–	–	–	–
Chloroform		–	–	–	–	150 J	–
1,2-Dichloroethane		–	–	–	–	–	–
2-Butanone (MEK)		–	–	–	–	2400	–
1,1,1-Trichloroethane		–	–	–	–	190 J	–
Bromodichloroethane		–	–	–	–	–	–
Trichloroethene		–	–	–	–	–	–
Dibromochloroethane		–	–	–	–	–	–
Benzene		–	–	6300 J	–	7700	31000 J
4-Methyl-2-pentanone		–	–	–	–	–	–
Tetrachloroethene		90000	6600 J	2600 J	660 J	–	–
Toluene		450000	160000	14000 J	43000	24000	110000
Chlorobenzene		420000	160000	120000	29000	14000	350000
Ethylbenzene		970000	63000	–	3800 J	6800	38000 J
Xylenes		1500000	100000	9200 J	25000	43000 J	160000
Total VOCs		3930000	809600	152100	118460	100740	723000

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
– Not detected.
E Concentration is above the calibration range of the instrument.
J Estimated value.
B Compound detected in blank.
D Concentration determined at a secondary dilution factor.
VOCs Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-5	SB-5	SB-5	SB-6	SB-6	SB-6
Sample Depth:	12-14 ft	20-22 ft	28-30 ft	18-20 ft	20-22 ft	28-30 ft
Sample Date:	5/4/92	5/4/92	5/4/92	5/5/92	5/5/92	5/6/92
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameter						
Methylene chloride	–	–	–	–	–	–
Acetone	–	–	14000 B	–	–	–
1,1-Dichloroethene	–	–	–	–	–	–
1,2-Dichloroethene (total)	–	–	–	–	–	–
Chloroform	–	–	–	–	–	–
1,2-Dichloroethane	–	–	–	–	–	–
2-Butanone (MEK)	–	–	–	–	–	–
1,1,1-Trichloroethane	–	–	–	–	–	–
Bromodichloroethane	–	–	–	–	–	–
Trichloroethene	–	–	–	–	–	–
Dibromochloroethane	–	–	–	–	–	–
Benzene	13000 J	2000 J	4900 J	–	–	1200 J
4-Methyl-2-pentanone	–	–	–	–	–	–
Tetrachloroethene	–	–	8600	–	–	–
Toluene	32000 J	22000 J	8700	55000	89000	5100 J
Chlorobenzene	460000	270000	130000	140000	200000	33000
Ethylbenzene	–	–	–	18000	27000	1900 J
Xylenes	9700 J	–	–	96000	150000	11000
Total VOCs	514700	294000	166200	309000	466000	52200

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
–	Not detected.
E	Concentration is above the calibration range of the instrument.
J	Estimated value.
B	Compound detected in blank.
D	Concentration determined at a secondary dilution factor.
VOCs	Volatile organic compounds.

Only those compounds detected are listed.

recycled paper

ecology and environment

GERAGHTY & MILLER, INC.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	SB-7	SB-7	SB-7	SB-8	SB-9	SB-9
	Sample Depth:	16-18 ft	20-22 ft	24-26 ft	6-8 ft	18-20 ft	20-22 ft
	Sample Date:	5/7/92	5/7/92	5/7/92	5/8/92	5/13/92	5/13/92
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Methylene chloride		–	–	–	–	–	–
Acetone		–	–	–	–	–	150000 EJ
1,1-Dichloroethene		–	–	–	–	–	–
1,2-Dichloroethene (total)		–	–	–	–	–	–
Chloroform		5400 J	–	–	–	–	–
1,2-Dichloroethane		–	–	–	3000 J	–	–
2-Butanone (MEK)		–	–	–	–	8600 J	8600
1,1,1-Trichloroethane		–	–	–	–	–	–
Bromodichloroethane		–	–	–	–	–	–
Trichloroethene		–	–	–	2000 J	–	–
Dibromochloroethane		–	–	–	–	–	–
Benzene		3900 J	–	2900 J	20000	1600 J	–
4-Methyl-2-pentanone		77000 J	22000 J	67000 J	–	–	–
Tetrachloroethene		–	–	–	–	8300	–
Toluene		3200 J	14000 J	22000	5900 J	–	–
Chlorobenzene		190000 J	100000	110000	5500 J	6000 J	12000
Ethylbenzene		–	–	–	–	7600 J	1700 J
Xylenes		–	–	–	3900 J	26000 J	9200
Total VOCs		279500	136000	201900	40300	58100	181500

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
– Not detected.
E Concentration is above the calibration range of the instrument.
J Estimated value.
B Compound detected in blank.
D Concentration determined at a secondary dilution factor.
VOCs Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-9	SB-9	SB-10	SB-10	SB-10	SB-11
Sample Depth:	28-30 ft	30-32 ft	6-8 ft	18-20 ft	24-26 ft	14-16 ft
Sample Date:	5/13/92	5/13/92	5/14/92	5/14/92	5/14/92	5/19/92
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameter						
Methylene chloride	1400 J	13000 J	27000 J	–	1100 J	–
Acetone	–	–	–	–	19000 J	8000
1,1-Dichloroethene	–	–	–	–	–	–
1,2-Dichloroethene (total)	–	–	59000 J	–	–	–
Chloroform	–	–	38000 J	–	–	–
1,2-Dichloroethane	–	–	130000 J	–	3200 J	–
2-Butanone (MEK)	10000 J	–	–	–	10000 J	–
1,1,1-Trichloroethane	–	–	–	–	–	–
Bromodichloroethane	–	–	–	–	–	–
Trichloroethene	–	–	750000	480000	33000 J	–
Dibromochloroethane	–	–	–	–	–	–
Benzene	6400 J	47000 J	97000 J	30000 J	1500 J	–
4-Methyl-2-pentanone	29000 J	110000 J	–	–	–	–
Tetrachloroethene	7500 J	37000 J	–	–	–	–
Toluene	–	240000	3800000	1200000	60000 J	1800
Chlorobenzene	110000	620000	370000	180000	17000 J	220 J
Ethylbenzene	6000 J	28000 J	–	–	–	–
Xylenes	39000	180000	100000 J	50000 J	3500 J	–
Total VOCs	209300	1275000	5371000	1940000	148300	10020

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
– Not detected.
E Concentration is above the calibration range of the instrument.
J Estimated value.
B Compound detected in blank.
D Concentration determined at a secondary dilution factor.
VOCs Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	SB-11	SB-11	SB-12	SB-12	SB-12	SB-13
	Sample Depth:	16-18 ft	30-32 ft	8-10 ft	22-24 ft	32-34 ft	16-18 ft
	Sample Date:	5/19/92	5/20/92	5/15/92	5/18/92	5/18/92	5/21/92
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Methylene chloride		–	–	–	–	–	–
Acetone		18000 J	–	–	21000 J	3000	–
1,1-Dichloroethene		–	–	290 J	–	–	–
1,2-Dichloroethene (total)		–	–	–	–	–	–
Chloroform		–	–	–	–	–	360 J
1,2-Dichloroethane		–	–	–	–	–	–
2-Butanone (MEK)		–	–	2300 J	9000 J	–	2800
1,1,1-Trichloroethane		–	–	–	–	–	–
Bromodichloroethane		–	–	–	–	–	350 J
Trichloroethene		–	–	360 J	–	–	–
Dibromochloroethane		–	–	–	–	–	300 J
Benzene		–	–	320 J	1300 J	–	2200
4-Methyl-2-pentanone		–	–	–	–	–	–
Tetrachloroethene		–	37000	340 J	1800 J	–	–
Toluene		8700 J	26000	3600 J	9400 J	–	–
Chlorobenzene		–	190000	210 J	41000 J	7900	–
Ethylbenzene		–	9000 J	–	46000 J	3800	–
Xylenes		–	61000	–	230000 EJ	23000	–
Total VOCs		26700	323000	7420	359500	37700	6010

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
–	Not detected.
E	Concentration is above the calibration range of the instrument.
J	Estimated value.
B	Compound detected in blank.
D	Concentration determined at a secondary dilution factor.
VOCs	Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	SB-13	SB-13	SB-14	SB-14	SB-14	SB-15
	Sample Depth:	18-20 ft	30-32 ft	10-12 ft	20-22 ft	30-32 ft	16-18 ft
	Sample Date:	5/21/92	5/21/92	5/22/92	5/26/92	5/26/92	5/27/92
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Methylene chloride		–	–	–	–	10000 J	–
Acetone		2900	6600	–	–	–	200000 J
1,1-Dichloroethene		–	–	–	–	–	–
1,2-Dichloroethene (total)		–	–	–	–	–	–
Chloroform		–	–	–	–	–	–
1,2-Dichloroethane		–	–	–	–	–	–
2-Butanone (MEK)		2700 J	2400	3200	–	–	–
1,1,1-Trichloroethane		–	–	–	–	–	–
Bromodichloroethane		–	–	–	–	–	–
Trichloroethene		–	–	370 J	–	–	–
Dibromochloroethane		–	–	–	–	–	–
Benzene		420 J	9700	7200	1100 J	–	–
4-Methyl-2-pentanone		–	–	–	–	–	2800000
Tetrachloroethene		–	–	–	–	–	–
Toluene		–	270 J	540 J	2700 J	–	–
Chlorobenzene		360 J	6900	26000	23000	360000	390000
Ethylbenzene		–	–	–	–	–	510000
Xylenes		–	–	–	2900 J	–	4100000
Total VOCs		6380	25870	37310	29700	370000	8000000

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
–	Not detected.
E	Concentration is above the calibration range of the instrument.
J	Estimated value.
B	Compound detected in blank.
D	Concentration determined at a secondary dilution factor.
VOCs	Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-15	SB-15	SB-16	SB-16	SB-16	SB-16
Sample Depth:	18-20 ft	26-28 ft	6-8 ft	16-18 ft	28-30 ft	30-32 ft
Sample Date:	5/28/92	5/28/92	5/29/92	5/29/92	5/29/92	5/29/92
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameter						
Methylene chloride	10000 J	–	–	–	–	–
Acetone	–	15000 B	20000 B	–	–	–
1,1-Dichloroethene	–	–	–	–	–	–
1,2-Dichloroethene (total)	–	–	–	–	–	–
Chloroform	–	–	–	–	–	–
1,2-Dichloroethane	–	–	–	–	–	–
2-Butanone (MEK)	–	–	1300 J	1600	–	1800
1,1,1-Trichloroethane	–	–	–	–	–	–
Bromodichloroethane	–	–	–	–	–	–
Trichloroethene	–	–	–	–	–	–
Dibromochloroethane	–	–	–	–	–	–
Benzene	–	–	–	–	320 J	390 J
4-Methyl-2-pentanone	470000	16000	–	–	–	–
Tetrachloroethene	–	–	–	–	–	–
Toluene	–	–	–	–	–	–
Chlorobenzene	120000	–	750 J	6900	5100	4200
Ethylbenzene	65000	–	–	–	–	–
Xylenes	460000	–	–	–	–	–
Total VOCs	1125000	31000	22050	8500	5420	6390

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
– Not detected.
E Concentration is above the calibration range of the instrument.
J Estimated value.
B Compound detected in blank.
D Concentration determined at a secondary dilution factor.
VOCs Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Depth:						
	Sample Date:	4/9/92	4/10/92	4/13/92	4/14/92	4/16/92	4/21/92
	Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Methylene chloride		–	–	–	–	–	–
Acetone		–	–	–	–	–	–
1,1-Dichloroethene		–	–	–	–	–	–
1,2-Dichloroethene (total)		–	–	–	–	–	–
Chloroform		–	–	–	–	–	–
1,2-Dichloroethane		–	–	–	–	–	–
2-Butanone (MEK)		–	–	–	–	–	–
1,1,1-Trichloroethane		–	–	–	–	–	–
Bromodichloroethane		–	–	–	–	–	–
Trichloroethene		–	–	–	–	–	–
Dibromochloroethane		–	–	–	–	–	–
Benzene		–	–	–	–	–	–
4-Methyl-2-pentanone		–	–	–	–	–	–
Tetrachloroethene		–	–	–	–	–	–
Toluene		–	–	–	–	–	–
Chlorobenzene		–	–	–	–	–	–
Ethylbenzene		–	–	–	–	–	–
Xylenes		–	–	–	–	–	–
Total VOCs		–	–	–	–	–	–

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
– Not detected.
E Concentration is above the calibration range of the instrument.
J Estimated value.
B Compound detected in blank.
D Concentration determined at a secondary dilution factor.
VOCs Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Depth:						
	Sample Date:	4/23/92	4/27/92	5/4/92	5/5/92	5/6/92	5/7/92
	Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Methylene chloride		–	–	–	–	–	–
Acetone		21 J	4 J	–	–	–	–
1,1-Dichloroethene		–	–	–	–	–	–
1,2-Dichloroethene (total)		–	–	–	–	–	–
Chloroform		–	–	–	–	–	–
1,2-Dichloroethane		–	–	–	–	–	–
2-Butanone (MEK)		–	–	–	–	–	–
1,1,1-Trichloroethane		–	–	–	–	–	–
Bromodichloroethane		4 J	–	–	–	–	–
Trichloroethene		–	–	–	–	–	–
Dibromochloroethane		–	–	–	–	–	–
Benzene		–	–	–	–	–	–
4-Methyl-2-pentanone		–	–	–	–	–	–
Tetrachloroethene		–	–	–	–	–	–
Toluene		–	–	–	–	–	–
Chlorobenzene		–	–	–	–	–	–
Ethylbenzene		–	–	–	–	–	–
Xylenes		–	–	–	–	–	–
Total VOCs		25	4	–	–	–	–

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
– Not detected.
E Concentration is above the calibration range of the instrument.
J Estimated value.
B Compound detected in blank.
D Concentration determined at a secondary dilution factor.
VOCs Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Sample Depth:						
Sample Date:	5/8/92	5/13/92	5/14/92	5/15/92	5/18/92	5/19/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter						
Methylene chloride	–	–	–	–	–	–
Acetone	–	–	–	–	–	–
1,1-Dichloroethene	–	–	–	–	–	–
1,2-Dichloroethene (total)	–	–	–	–	–	–
Chloroform	–	–	–	–	–	–
1,2-Dichloroethane	–	–	–	–	–	–
2-Butanone (MEK)	–	–	–	–	–	–
1,1,1-Trichloroethane	–	–	–	–	–	–
Bromodichloroethane	–	–	–	–	–	1 J
Trichloroethene	–	3 J	–	–	–	1 J
Dibromochloroethane	–	–	–	–	–	2 J
Benzene	–	–	–	–	–	–
4-Methyl-2-pentanone	–	–	–	–	–	–
Tetrachloroethene	–	–	–	–	–	–
Toluene	–	7 J	–	–	–	–
Chlorobenzene	–	1 J	–	–	–	–
Ethylbenzene	–	–	–	–	–	–
Xylenes	–	–	–	–	–	–
Total VOCs	–	11	–	–	–	4

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
–	Not detected.
E	Concentration is above the calibration range of the instrument.
J	Estimated value.
B	Compound detected in blank.
D	Concentration determined at a secondary dilution factor.
VOCs	Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Sample Depth:						
Sample Date:	5/20/92	5/21/92	5/22/92	5/26/92	5/27/92	5/28/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter						
Methylene chloride	–	–	–	–	–	–
Acetone	–	–	–	–	–	–
1,1-Dichloroethene	–	–	–	–	–	–
1,2-Dichloroethene (total)	–	–	–	–	–	–
Chloroform	–	–	–	–	–	–
1,2-Dichloroethane	–	–	–	–	–	–
2-Butanone (MEK)	–	–	–	–	–	–
1,1,1-Trichloroethane	–	–	–	–	–	–
Bromodichloroethane	–	–	–	–	–	–
Trichloroethene	–	–	–	–	–	–
Dibromochloroethane	–	–	–	–	–	–
Benzene	–	–	–	–	–	–
4-Methyl-2-pentanone	–	–	–	–	–	–
Tetrachloroethene	–	–	–	–	–	–
Toluene	–	–	–	–	–	–
Chlorobenzene	–	–	–	–	–	–
Ethylbenzene	–	–	–	–	–	–
Xylenes	–	–	–	–	–	–
Total VOCs	–	–	–	–	–	–

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
–	Not detected.
E	Concentration is above the calibration range of the instrument.
J	Estimated value.
B	Compound detected in blank.
D	Concentration determined at a secondary dilution factor.
VOCs	Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

	Sample Location:	Trip Blank
	Sample Depth:	
	Sample Date:	5/29/92
	Units:	ug/L
Parameter		
Methylene chloride		–
Acetone		–
1,1-Dichloroethene		–
1,2-Dichloroethene (total)		–
Chloroform		–
1,2-Dichloroethane		–
2-Butanone (MEK)		–
1,1,1-Trichloroethane		–
Bromodichloroethane		–
Trichloroethene		–
Dibromochloroethane		–
Benzene		–
4-Methyl-2-pentanone		–
Tetrachloroethene		–
Toluene		–
Chlorobenzene		–
Ethylbenzene		–
Xylenes		–
Total VOCs		–

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
–	Not detected.
E	Concentration is above the calibration range of the instrument.
J	Estimated value.
B	Compound detected in blank.
D	Concentration determined at a secondary dilution factor.
VOCs	Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
	Sample Depth:						
	Sample Date:	4/9/92	4/10/92	4/13/92	4/14/92	4/16/92	4/21/92
	Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Methylene chloride		–	–	–	–	–	–
Acetone		–	–	–	–	–	6 J
1,1-Dichloroethene		–	–	–	–	–	–
1,2-Dichloroethene (total)		–	–	–	–	–	–
Chloroform		–	–	–	–	–	–
1,2-Dichloroethane		–	–	–	–	–	–
2-Butanone (MEK)		–	–	–	–	–	–
1,1,1-Trichloroethane		–	–	–	–	–	–
Bromodichloroethane		–	–	–	–	–	–
Trichloroethene		–	–	–	2 J	–	–
Dibromochloroethane		–	–	–	–	–	–
Benzene		–	–	–	0.9 J	–	–
4-Methyl-2-pentanone		–	–	–	–	–	–
Tetrachloroethene		–	–	–	–	–	–
Toluene		–	–	–	–	–	–
Chlorobenzene		–	–	–	1 J	–	–
Ethylbenzene		–	–	–	–	–	–
Xylenes		–	–	–	–	–	–
Total VOCs		–	–	–	3.9	–	6

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
–	Not detected.
E	Concentration is above the calibration range of the instrument.
J	Estimated value.
B	Compound detected in blank.
D	Concentration determined at a secondary dilution factor.
VOCs	Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Depth:						
Sample Date:	4/23/92	4/27/92	5/4/92	5/5/92	5/6/92	5/7/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter						
Methylene chloride	–	–	–	–	–	–
Acetone	–	–	–	–	9 J	–
1,1-Dichloroethene	–	–	–	–	–	–
1,2-Dichloroethene (total)	–	–	–	–	–	–
Chloroform	–	–	–	–	–	–
1,2-Dichloroethane	–	–	–	–	–	–
2-Butanone (MEK)	–	–	–	–	–	–
1,1,1-Trichloroethane	–	–	–	–	–	–
Bromodichloroethane	–	–	–	–	–	–
Trichloroethene	–	–	–	–	–	–
Dibromochloroethane	–	–	–	–	–	–
Benzene	–	–	–	–	–	–
4-Methyl-2-pentanone	–	–	–	–	–	–
Tetrachloroethene	–	–	–	–	–	–
Toluene	–	–	–	–	–	–
Chlorobenzene	–	–	–	–	–	–
Ethylbenzene	–	–	–	–	–	–
Xylenes	–	–	–	–	–	–
Total VOCs	–	–	–	–	9	–

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
–	Not detected.
E	Concentration is above the calibration range of the instrument.
J	Estimated value.
B	Compound detected in blank.
D	Concentration determined at a secondary dilution factor.
VOCs	Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
	Sample Depth:						
	Sample Date:	5/8/92	5/13/92	5/14/92	5/15/92	5/18/92	5/19/92
	Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Methylene chloride		–	–	–	–	–	–
Acetone		–	16	–	–	–	–
1,1-Dichloroethene		–	–	–	–	–	–
1,2-Dichloroethene (total)		–	–	–	–	–	–
Chloroform		–	–	–	–	–	–
1,2-Dichloroethane		–	–	–	–	–	–
2-Butanone (MEK)		–	–	–	–	–	–
1,1,1-Trichloroethane		–	–	–	–	–	–
Bromodichloroethane		–	–	–	–	–	–
Trichloroethene		–	–	–	–	–	–
Dibromochloroethane		–	–	–	–	–	–
Benzene		–	–	–	–	–	–
4-Methyl-2-pentanone		–	–	–	–	–	–
Tetrachloroethene		–	–	–	–	–	–
Toluene		–	–	–	–	–	–
Chlorobenzene		–	–	–	–	–	–
Ethylbenzene		–	–	–	–	–	–
Xylenes		–	–	–	–	–	–
Total VOCs		–	16	–	–	–	–

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
– Not detected.
E Concentration is above the calibration range of the instrument.
J Estimated value.
B Compound detected in blank.
D Concentration determined at a secondary dilution factor.
VOCs Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Depth:						
Sample Date:	5/20/92	5/21/92	5/22/92	5/26/92	5/27/92	5/28/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter						
Methylene chloride	–	–	–	–	–	–
Acetone	–	–	–	–	–	–
1,1-Dichloroethene	–	–	–	–	–	–
1,2-Dichloroethene (total)	–	–	–	–	–	–
Chloroform	–	–	–	–	–	–
1,2-Dichloroethane	–	–	–	–	–	–
2-Butanone (MEK)	–	–	–	–	–	–
1,1,1-Trichloroethane	–	–	–	–	–	–
Bromodichloroethane	–	–	–	–	–	–
Trichloroethene	–	–	–	–	–	–
Dibromochloroethane	–	–	–	–	–	–
Benzene	–	–	–	–	–	–
4-Methyl-2-pentanone	–	–	–	–	–	–
Tetrachloroethene	–	–	–	–	–	–
Toluene	–	–	–	–	–	–
Chlorobenzene	–	–	–	–	–	–
Ethylbenzene	–	–	–	–	–	–
Xylenes	–	–	–	–	–	–
Total VOCs	–	–	–	–	–	–

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
–	Not detected.
E	Concentration is above the calibration range of the instrument.
J	Estimated value.
B	Compound detected in blank.
D	Concentration determined at a secondary dilution factor.
VOCs	Volatile organic compounds.

Only those compounds detected are listed.

Table 5-8. Summary of Target Compound List Volatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

	Equipment
Sample Location:	Blank
Sample Depth:	
Sample Date:	5/29/92
Units:	ug/L
Parameter	
Methylene chloride	–
Acetone	–
1,1-Dichloroethene	–
1,2-Dichloroethene (total)	–
Chloroform	–
1,2-Dichloroethane	–
2-Butanone (MEK)	–
1,1,1-Trichloroethane	–
Bromodichloroethane	–
Trichloroethene	–
Dibromochloroethane	–
Benzene	–
4-Methyl-2-pentanone	–
Tetrachloroethene	–
Toluene	–
Chlorobenzene	–
Ethylbenzene	–
Xylenes	–
Total VOCs	–

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
–	Not detected.
E	Concentration is above the calibration range of the instrument.
J	Estimated value.
B	Compound detected in blank.
D	Concentration determined at a secondary dilution factor.
VOCs	Volatile organic compounds.

Only those compounds detected are listed.

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location: SB-1 Sample Depth: 12-14 ft Sample Date: 4/9/92 Units: ug/kg	SB-1 26-28 ft 4/9/92 ug/kg	SB-1 32-34 ft 4/9/92 ug/kg	SB-2 12-14 ft 4/10/92 ug/kg	SB-2 14-16 ft 4/10/92 ug/kg	SB-2 28-30 ft 4/13/92 ug/kg
Phenol	2100000	520000	490000	120000 J	390000	720000 D
bis(2-Chloroethyl)ether	–	–	–	–	–	–
2-Chlorophenol	–	200000	64000 J	94000 J	160000	51000 J
1,3-Dichlorobenzene	–	–	–	–	8000 J	–
1,4-Dichlorobenzene	410000	59000 J	12000 J	410000	800000	37000 J
1,2-Dichlorobenzene	260000 J	180000	34000 J	280000	540000	26000 J
2-Methylphenol (o-cresol)	–	–	–	–	–	–
4-Methylphenol (p-cresol)	–	–	–	–	–	–
Nitrobenzene	38000 J	120000 J	22000 J	540000 D	650000	90000
2,4-Dimethylphenol	–	–	–	–	–	–
2,4-Dichlorophenol	1700000	300000	80000	610000 D	630000	93000
1,2,4-Trichlorobenzene	6700 J	75000 J	10000 J	5000 J	8700 J	–
Naphthalene	–	–	720 J	–	–	–
4-Chloroaniline	–	–	–	–	–	–
2-Methylnaphthalene	–	–	–	–	–	–
2,4,6-Trichlorophenol	1200000	110000 J	19000 J	260000 J	400000	81000
2,4,5-Trichlorophenol	–	–	–	–	–	–
2-Nitroaniline	–	–	–	–	–	–
Dimethylphthalate	–	–	–	–	–	–
Acenaphthene	–	–	–	–	–	–
Dibenzofuran	–	–	–	–	–	–
Diethylphthalate	–	–	–	–	–	–
Fluorene	–	–	–	–	–	–
4-Nitroaniline	120000 J	15000 J	–	33000 J	–	–
N-Nitrosodiphenylamine	–	10000 J	–	9100 J	7100 J	–
Pentachlorophenol	–	–	–	–	–	–
Phenanthrene	–	–	–	–	–	–
Anthracene	–	–	–	–	–	–
Carbazole	–	–	–	–	–	–
Di-n-butylphthalate	–	–	–	–	–	–
Fluoranthene	–	–	–	–	–	–
Pyrene	–	–	–	–	–	–
Butylbenzylphthalate	–	–	–	–	–	–
3,3'-Dichlorobenzidine	–	–	–	–	–	–
Benzo(a)anthracene	–	–	–	–	–	–
Chrysene	–	–	–	–	–	–
bis(2-Ethylhexyl)phthalate	960000	32000 J	–	–	–	–
Di-n-octylphthalate	–	–	–	–	–	2100 J
Benzo(b)fluoranthene	–	–	–	–	–	–
Benzo(k)fluoranthene	–	–	–	–	–	–
Benzo(a)pyrene	–	–	–	–	–	–
Indeno(1,2,3-cd)pyrene	–	–	–	–	–	–
Benzo(g,h,i)perylene	–	–	–	–	–	–
Aniline	–	–	–	–	–	–
2-Chloroaniline	170000 J	530000	210000	240000	480000	230000
3-Chloroaniline	–	–	3200 J	–	–	9000 J
Total SVOCs	6964700	2151000	944920	2601100	4073800	1339100

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated value.
D	Concentration determined at a secondary dilution factor.
R	Unusable value.
E	Exceeded the instrument calibration range.
–	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-3	SB-3	SB-3	SB-4	SB-4	SB-4
Sample Depth:	12-14 ft	14-16 ft	32-34 ft	10-12 ft	12-14 ft	30-32 ft
Sample Date:	4/16/92	4/16/92	4/16/92	4/14/92	4/14/92	4/14/92
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameter						
Phenol	1300000	1600000	1100000 D	830000	190000	320000 J
bis(2-Chloroethyl)ether	–	–	–	–	–	–
2-Chlorophenol	960000	1100000	490000	590000	270000	150000 J
1,3-Dichlorobenzene	–	–	–	–	–	–
1,4-Dichlorobenzene	–	96000 J	76000 J	55000 J	51000 J	22000 J
1,2-Dichlorobenzene	96000 J	170000 J	280000	470000	58000 J	75000 J
2-Methylphenol (o-cresol)	–	–	–	54000 J	–	–
4-Methylphenol (p-cresol)	–	–	–	–	–	7300 J
Nitrobenzene	450000 J	420000	110000 J	86000 J	69000	15000 J
2,4-Dimethylphenol	–	–	2700 J	–	–	3500 J
2,4-Dichlorophenol	3200000	3500000 D	950000	11000000 D	4200000 D	110000 J
1,2,4-Trichlorobenzene	–	–	200000	100000 J	72000	32000 J
Naphthalene	530000 J	800000	–	–	–	–
4-Chloroaniline	–	40000 J	34000 DJ	–	–	–
2-Methylnaphthalene	–	–	–	–	–	–
2,4,6-Trichlorophenol	3600000	3900000 D	290000	3700000 D	1700000 D	49000 J
2,4,5-Trichlorophenol	–	–	–	–	–	–
2-Nitroaniline	–	–	–	–	1900 J	–
Dimethylphthalate	–	–	–	–	–	3000 J
Acenaphthene	–	–	–	–	–	–
Dibenzofuran	–	–	–	–	–	–
Diethylphthalate	–	–	–	–	–	–
Fluorene	–	–	–	–	–	–
4-Nitroaniline	320000 J	400000 J	25000 J	52000 J	–	–
N-Nitrosodiphenylamine	–	–	–	–	7900 J	–
Pentachlorophenol	–	–	–	–	–	–
Phenanthrene	–	–	–	–	–	–
Anthracene	–	–	–	–	–	–
Carbazole	–	–	–	–	–	–
Di-n-butylphthalate	–	–	–	–	–	–
Fluoranthene	–	–	–	–	–	–
Pyrene	–	–	–	–	–	–
Butylbenzylphthalate	–	10000 J	7000 J	–	9200 J	–
3,3'-Dichlorobenzidine	–	–	–	–	–	–
Benzo(a)anthracene	–	–	–	–	–	–
Chrysene	–	–	–	–	–	–
bis(2-Ethylhexyl)phthalate	–	–	–	–	–	–
Di-n-octylphthalate	–	–	8800 J	–	–	–
Benzo(b)fluoranthene	–	–	–	–	–	–
Benzo(k)fluoranthene	–	–	–	–	–	–
Benzo(a)pyrene	–	–	–	–	–	–
Indeno(1,2,3-cd)pyrene	–	–	–	–	–	–
Benzo(g,h,i)perylene	–	–	–	–	–	–
Aniline	–	–	–	1100000	19000 J	–
2-Chloroaniline	1700000	3500000 D	1500000 D	220000 J	110000	73000 J
3-Chloroaniline	–	–	–	–	–	–
Total SVOCs	12156000	15536000	5073500	18257000	6758000	859800

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated value.
D	Concentration determined at a secondary dilution factor.
R	Unusable value.
E	Exceeded the instrument calibration range.
–	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location: SB-5 Sample Depth: 12-14 ft Sample Date: 5/4/92 Units: ug/kg	SB-5 20-22 ft 5/4/92 ug/kg	SB-5 28-30 ft 5/4/92 ug/kg	SB-6 18-20 ft 5/5/92 ug/kg	SB-6 20-22 ft 5/5/92 ug/kg	SB-6 28-30 ft 5/6/92 ug/kg
Phenol	260000 J	300000	590000	3300000	5800000 D	1500000
bis(2-Chloroethyl)ether	–	–	–	–	–	–
2-Chlorophenol	230000 J	61000 J	80000 J	4200000	6900000 D	3600000 D
1,3-Dichlorobenzene	–	1300 J	–	–	–	–
1,4-Dichlorobenzene	120000 J	43000 J	27000 J	–	20000 J	12000 J
1,2-Dichlorobenzene	2100000	200000	57000 J	570000 J	1100000	120000 J
2-Methylphenol (o-cresol)	–	–	–	–	–	–
4-Methylphenol (p-cresol)	–	–	–	500000 J	640000	290000
Nitrobenzene	–	100000	–	–	160000 J	110000 J
2,4-Dimethylphenol	–	–	–	120000 J	150000 J	100000 J
2,4-Dichlorophenol	11000000 D	950000 D	370000	4100000	9600000 D	1200000
1,2,4-Trichlorobenzene	1800000	140000	23000 J	260000 J	520000	69000 J
Naphthalene	–	–	–	670000	–	–
4-Chloroaniline	–	–	–	–	–	–
2-Methylnaphthalene	–	–	–	–	–	–
2,4,6-Trichlorophenol	1800000	190000	76000 J	1300000	300000	700000
2,4,5-Trichlorophenol	–	–	–	–	1600000	–
2-Nitroaniline	–	–	–	–	38000 J	–
Dimethylphthalate	–	–	–	–	–	–
Acenaphthene	–	–	–	–	–	–
Dibenzofuran	–	–	–	–	–	–
Diethylphthalate	–	–	–	–	–	–
Fluorene	–	–	–	–	–	–
4-Nitroaniline	–	–	–	–	–	–
N-Nitrosodiphenylamine	–	–	–	–	–	–
Pentachlorophenol	–	–	43000 J	150000 J	–	260000 J
Phenanthrene	–	–	–	–	–	–
Anthracene	–	–	–	–	–	–
Carbazole	–	–	–	–	–	–
Di-n-butylphthalate	–	–	–	–	–	–
Fluoranthene	–	–	–	–	–	–
Pyrene	–	–	–	–	–	–
Butylbenzylphthalate	–	–	–	–	–	–
3,3'-Dichlorobenzidine	–	–	–	R	R	–
Benzo(a)anthracene	–	–	–	–	–	–
Chrysene	–	–	–	–	–	–
bis(2-Ethylhexyl)phthalate	–	–	–	–	22000 J	–
Di-n-octylphthalate	–	–	–	–	–	–
Benzo(b)fluoranthene	–	–	–	–	–	–
Benzo(k)fluoranthene	–	–	–	–	–	–
Benzo(a)pyrene	–	–	–	–	–	–
Indeno(1,2,3-cd)pyrene	–	–	–	–	–	–
Benzo(g,h,i)perylene	–	–	–	–	–	–
Aniline	–	–	–	–	10000 J	–
2-Chloroaniline	33000 J	970000 D	500000 J	370000 J	790000	140000 J
3-Chloroaniline	–	–	–	–	–	–
Total SVOCs	17343000	2955300	1766000	15540000	27650000	8101000

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
J Estimated value.
D Concentration determined at a secondary dilution factor.
R Unusable value.
E Exceeded the instrument calibration range.
– Not detected.
SVOCs Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	SB-7	SB-7	SB-7	SB-8	SB-9	SB-9
	Sample Depth:	16-18 ft	20-22 ft	24-26 ft	6-8 ft	18-20 ft	20-22 ft
	Sample Date:	5/7/92	5/7/92	5/7/92	5/8/92	5/13/92	5/13/92
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol		33000 J	120000 J	140000 J	–	1200000 J	270000 J
bis(2-Chloroethyl)ether		–	–	–	–	–	–
2-Chlorophenol		180000 J	100000 J	33000 J	–	–	4500 J
1,3-Dichlorobenzene		–	–	–	–	–	–
1,4-Dichlorobenzene		41000 J	21000 J	33000 J	–	–	–
1,2-Dichlorobenzene		78000 J	35000 J	37000 J	–	–	–
2-Methylphenol (o-cresol)		–	–	–	–	–	–
4-Methylphenol (p-cresol)		–	–	–	–	–	–
Nitrobenzene		370000 J	190000 J	130000 J	–	–	–
2,4-Dimethylphenol		–	–	–	–	–	–
2,4-Dichlorophenol		–	–	–	–	52000 J	13000 J
1,2,4-Trichlorobenzene		–	–	–	–	–	–
Naphthalene		–	–	–	–	–	–
4-Chloroaniline		–	–	–	–	–	20000 J
2-Methylnaphthalene		–	–	–	–	–	–
2,4,6-Trichlorophenol		–	–	–	–	–	11000 J
2,4,5-Trichlorophenol		–	–	–	–	–	–
2-Nitroaniline		–	–	–	–	–	–
Dimethylphthalate		–	–	–	–	14000 J	–
Acenaphthene		–	–	–	–	–	–
Dibenzofuran		–	–	–	–	–	–
Diethylphthalate		–	–	–	–	–	–
Fluorene		–	–	–	–	–	–
4-Nitroaniline		–	–	–	–	–	–
N-Nitrosodiphenylamine		–	–	–	–	–	–
Pentachlorophenol		–	–	–	–	–	–
Phenanthrene		–	–	–	–	–	–
Anthracene		–	–	–	–	–	–
Carbazole		–	–	–	–	–	–
Di-n-butylphthalate		–	–	–	–	–	–
Fluoranthene		–	–	–	–	–	–
Pyrene		–	–	–	–	–	–
Butylbenzylphthalate		–	–	–	–	39000 J	3300 J
3,3'-Dichlorobenzidine		–	–	–	–	–	–
Benzo(a)anthracene		–	–	–	–	–	–
Chrysene		–	–	–	–	–	–
bis(2-Ethylhexyl)phthalate		–	–	–	–	–	–
Di-n-octylphthalate		–	–	–	–	–	–
Benzo(b)fluoranthene		–	–	–	–	–	–
Benzo(k)fluoranthene		–	–	–	–	–	–
Benzo(a)pyrene		–	–	–	–	–	–
Indeno(1,2,3-cd)pyrene		–	–	–	–	–	–
Benzo(g,h,i)perylene		–	–	–	–	–	–
Aniline		–	–	–	–	–	4100 J
2-Chloroaniline		110000 J	280000 J	140000 J	–	170000 J	41000 J
3-Chloroaniline		–	–	–	–	–	5200 J
Total SVOCs		812000	746000	513000	–	1475000	372100

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated value.
D	Concentration determined at a secondary dilution factor.
R	Unusable value.
E	Exceeded the instrument calibration range.
–	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location: SB-9 / Sample Depth: 28-30 ft / Sample Date: 5/13/92 / Units: ug/kg	SB-9 / 30-32 ft / 5/13/92 / ug/kg	SB-10 / 6-8 ft / 5/14/92 / ug/kg	SB-10 / 18-20 ft / 5/14/92 / ug/kg	SB-10 / 24-26 ft / 5/14/92 / ug/kg	SB-11 / 14-16 ft / 5/19/92 / ug/kg
Phenol	680000	2100000	280000 J	1300000 J	230000	470000
bis(2-Chloroethyl)ether	–	–	–	–	–	–
2-Chlorophenol	140000 J	670000	–	–	12000 J	–
1,3-Dichlorobenzene	–	–	–	–	–	–
1,4-Dichlorobenzene	24000 J	86000 J	–	–	–	–
1,2-Dichlorobenzene	46000 J	200000 J	–	100000 J	–	–
2-Methylphenol (o-cresol)	–	–	–	–	–	–
4-Methylphenol (p-cresol)	–	–	–	440000 J	18000 J	–
Nitrobenzene	52000 J	250000 J	–	–	2900 J	–
2,4-Dimethylphenol	–	–	–	150000 J	2800 J	–
2,4-Dichlorophenol	530000 J	2900000	–	200000 J	34000 J	160000 J
1,2,4-Trichlorobenzene	41000 J	200000 J	–	–	–	41000 J
Naphthalene	–	–	–	–	–	–
4-Chloroaniline	32000 J	–	130000 J	2000000 J	23000 J	–
2-Methylnaphthalene	–	–	–	–	–	–
2,4,6-Trichlorophenol	–	–	–	–	8600 J	130000 J
2,4,5-Trichlorophenol	–	–	–	–	–	–
2-Nitroaniline	–	–	–	1000000 J	13000 J	–
Dimethylphthalate	–	–	–	–	–	–
Acenaphthene	–	–	–	–	–	–
Dibenzofuran	–	–	–	–	–	–
Diethylphthalate	–	–	–	–	–	–
Fluorene	–	–	–	–	–	–
4-Nitroaniline	–	–	–	–	–	41000 J
N-Nitrosodiphenylamine	–	–	–	–	–	–
Pentachlorophenol	–	–	–	–	–	–
Phenanthrene	–	–	–	–	–	–
Anthracene	–	–	–	–	–	–
Carbazole	–	–	–	–	–	–
Di-n-butylphthalate	–	–	–	–	–	–
Fluoranthene	–	–	–	–	–	–
Pyrene	–	–	–	–	–	–
Butylbenzylphthalate	–	–	–	–	–	–
3,3'-Dichlorobenzidine	–	–	–	–	–	–
Benzo(a)anthracene	–	–	–	–	–	–
Chrysene	–	–	–	–	–	–
bis(2-Ethylhexyl)phthalate	–	–	370000 J	–	–	–
Di-n-octylphthalate	–	–	–	–	–	–
Benzo(b)fluoranthene	–	–	–	–	–	–
Benzo(k)fluoranthene	–	–	–	–	–	–
Benzo(a)pyrene	–	–	–	–	–	–
Indeno(1,2,3-cd)pyrene	–	–	–	–	–	–
Benzo(g,h,i)perylene	–	–	–	–	–	–
Aniline	23000 J	70000 J	–	100000 J	7800 J	–
2-Chloroaniline	590000 J	2500000	200000 J	4900000	110000	–
3-Chloroaniline	15000 J	–	–	190000 J	–	–
Total SVOCs	2173000	8976000	980000	10380000	462100	842000

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
J Estimated value.
D Concentration determined at a secondary dilution factor.
R Unusable value.
E Exceeded the instrument calibration range.
– Not detected.
SVOCs Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	SB-11	SB-11	SB-12	SB-12	SB-12	SB-12
	Sample Depth:	16-18 ft	30-32 ft	8-10 ft	22-24 ft	32-34 ft	32-34 ft
	Sample Date:	5/19/92	5/20/92	5/15/92	5/18/92	5/18/92	5/18/92
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol		480000 J	9700 J	1800 J	5100000	1200000 E	710000 D
bis(2-Chloroethyl)ether		–	–	–	–	–	–
2-Chlorophenol		–	–	–	470000 J	130000	130000
1,3-Dichlorobenzene		–	–	–	–	–	–
1,4-Dichlorobenzene		–	–	–	–	3000 J	3000 J
1,2-Dichlorobenzene		–	–	–	610000 J	390000	390000
2-Methylphenol (o-cresol)		–	–	–	–	–	–
4-Methylphenol (p-cresol)		–	–	–	–	21000 J	21000 J
Nitrobenzene		–	–	–	–	16000 J	16000 J
2,4-Dimethylphenol		–	–	–	–	5000 J	5000 J
2,4-Dichlorophenol		–	19000 J	480 J	2800000	580000 E	370000 D
1,2,4-Trichlorobenzene		–	–	–	230000 J	84000	84000
Naphthalene		–	–	–	–	–	–
4-Chloroaniline		–	23000 J	–	–	–	–
2-Methylnaphthalene		–	–	–	–	–	–
2,4,6-Trichlorophenol		–	–	–	630000 J	93000	93000
2,4,5-Trichlorophenol		–	–	–	–	–	–
2-Nitroaniline		–	–	–	–	–	–
Dimethylphthalate		–	–	–	–	–	–
Acenaphthene		–	–	–	–	–	–
Dibenzofuran		–	–	–	–	–	–
Diethylphthalate		–	–	350 J	–	–	–
Fluorene		–	–	–	–	–	–
4-Nitroaniline		–	–	–	–	–	–
N-Nitrosodiphenylamine		–	–	–	–	–	–
Pentachlorophenol		–	–	–	–	25000 J	25000 J
Phenanthrene		–	–	–	–	–	–
Anthracene		–	–	–	–	–	–
Carbazole		–	–	–	–	–	–
Di-n-butylphthalate		–	–	–	–	–	–
Fluoranthene		–	–	–	–	–	–
Pyrene		–	–	–	–	–	–
Butylbenzylphthalate		–	–	–	–	–	–
3,3'-Dichlorobenzidine		–	–	–	–	–	–
Benzo(a)anthracene		–	–	–	–	–	–
Chrysene		–	–	–	–	–	–
bis(2-Ethylhexyl)phthalate		–	–	–	–	–	–
Di-n-octylphthalate		–	–	–	–	–	–
Benzo(b)fluoranthene		–	–	–	–	–	–
Benzo(k)fluoranthene		–	–	–	–	–	–
Benzo(a)pyrene		–	–	–	–	–	–
Indeno(1,2,3-cd)pyrene		–	–	–	–	–	–
Benzo(g,h,i)perylene		–	–	–	–	–	–
Aniline		–	–	440 J	990000 J	–	120000 DJ
2-Chloroaniline		–	230000 J	590 J	–	170000	170000 J
3-Chloroaniline		–	8200 J	–	–	19000 J	19000 J
Total SVOCs		480000	289900	3660	10830000	2736000	2156000

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated value.
D	Concentration determined at a secondary dilution factor.
R	Unusable value.
E	Exceeded the instrument calibration range.
–	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location: SB-13 Sample Depth: 16-18 ft Sample Date: 5/21/92 Units: ug/kg	Sample Location: SB-13 Sample Depth: 18-20 ft Sample Date: 5/21/92 Units: ug/kg	Sample Location: SB-13 Sample Depth: 30-32 ft Sample Date: 5/21/92 Units: ug/kg	Sample Location: SB-14 Sample Depth: 10-12 ft Sample Date: 5/22/92 Units: ug/kg	Sample Location: SB-14 Sample Depth: 20-22 ft Sample Date: 5/26/92 Units: ug/kg	Sample Location: SB-14 Sample Depth: 30-32 ft Sample Date: 5/26/92 Units: ug/kg
Phenol	140 J	21000 J	460000	6500 J	2800000	890000
bis(2-Chloroethyl)ether	31 J	–	–	–	–	–
2-Chlorophenol	430 J	260000 EJ	120000	–	840000 J	220000 J
1,3-Dichlorobenzene	–	–	–	–	–	–
1,4-Dichlorobenzene	–	–	–	15000	–	–
1,2-Dichlorobenzene	–	–	–	9600 J	9100 J	440000
2-Methylphenol (o-cresol)	–	990 J	–	–	–	–
4-Methylphenol (p-cresol)	–	–	33000 J	4800 J	59000 J	59000 J
Nitrobenzene	–	–	–	–	5700 J	87000 J
2,4-Dimethylphenol	–	–	–	660 J	–	–
2,4-Dichlorophenol	39 J	230000 EJ	150000	1800 J	120000 J	690000
1,2,4-Trichlorobenzene	–	–	–	940 J	–	170000 J
Naphthalene	24 J	27000	23000 J	1500 J	–	–
4-Chloroaniline	–	85000 DJ	–	9700 J	–	–
2-Methylnaphthalene	20 J	–	–	–	–	–
2,4,6-Trichlorophenol	–	67000	22000 J	640 J	42000 J	130000 J
2,4,5-Trichlorophenol	–	–	–	–	–	–
2-Nitroaniline	–	–	–	3000 J	–	–
Dimethylphthalate	–	–	–	–	–	–
Acenaphthene	–	–	–	–	–	–
Dibenzofuran	–	–	–	–	–	–
Diethylphthalate	–	–	–	–	–	–
Fluorene	–	–	–	–	–	–
4-Nitroaniline	–	–	–	8300000 D	–	–
N-Nitrosodiphenylamine	–	–	–	–	–	–
Pentachlorophenol	–	790000 EJ	–	–	–	–
Phenanthrene	–	–	–	–	–	–
Anthracene	–	–	–	–	–	–
Carbazole	–	–	–	–	–	–
Di-n-butylphthalate	20 J	–	–	–	–	–
Fluoranthene	–	–	–	–	–	–
Pyrene	–	–	–	–	–	–
Butylbenzylphthalate	17 J	–	–	–	–	–
3,3'-Dichlorobenzidine	–	–	–	–	–	–
Benzo(a)anthracene	–	–	–	–	–	–
Chrysene	–	–	–	–	–	–
bis(2-Ethylhexyl)phthalate	–	–	–	–	–	–
Di-n-octylphthalate	17 J	–	–	–	–	–
Benzo(b)fluoranthene	–	–	–	–	–	–
Benzo(k)fluoranthene	–	–	–	–	–	–
Benzo(a)pyrene	–	–	–	–	–	–
Indeno(1,2,3-cd)pyrene	–	–	–	–	–	–
Benzo(g,h,i)perylene	–	–	–	–	–	–
Aniline	–	–	–	–	–	–
2-Chloroaniline	–	39000 DJ	–	8000 J	29000 J	43000 J
3-Chloroaniline	–	28000 DJ	–	9400 J	–	–
Total SVOCs	738	1547990	808000	8371540	3904800	2729000

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated value.
D	Concentration determined at a secondary dilution factor.
R	Unusable value.
E	Exceeded the instrument calibration range.
–	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	SB-15	SB-15	SB-15	SB-16	SB-16	SB-16
	Sample Depth:	16-18 ft	18-20 ft	26-28 ft	6-8 ft	16-18 ft	28-30 ft
	Sample Date:	5/27/92	5/28/92	5/28/92	5/29/92	5/29/92	5/29/92
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol		640000 J	150000 J	7300 J	R	–	–
bis(2-Chloroethyl)ether		–	–	–	–	–	–
2-Chlorophenol		1100000 J	220000 J	–	R	230000 D	950000
1,3-Dichlorobenzene		–	–	–	–	–	–
1,4-Dichlorobenzene		–	–	–	–	–	–
1,2-Dichlorobenzene		–	30000 J	–	12000 J	6200 J	–
2-Methylphenol (o-cresol)		–	–	–	–	–	–
4-Methylphenol (p-cresol)		–	–	–	R	–	–
Nitrobenzene		580000 J	97000 J	–	1900 J	8500 J	–
2,4-Dimethylphenol		–	–	–	16000 J	–	–
2,4-Dichlorophenol		16000000 D	2600000 D	19000 J	46000	58000	240000 J
1,2,4-Trichlorobenzene		–	–	–	5800 J	3300 J	–
Naphthalene		–	–	–	–	–	–
4-Chloroaniline		–	–	–	–	40000	–
2-Methylnaphthalene		–	–	–	–	–	–
2,4,6-Trichlorophenol		1900000	540000	–	23000	9800 J	51000 J
2,4,5-Trichlorophenol		–	–	–	–	–	–
2-Nitroaniline		–	–	–	–	–	–
Dimethylphthalate		–	–	–	–	–	–
Acenaphthene		–	–	–	–	–	–
Dibenzofuran		–	–	–	–	–	–
Diethylphthalate		–	–	–	–	–	–
Fluorene		–	–	–	–	–	–
4-Nitroaniline		–	–	–	350000 DJ	–	–
N-Nitrosodiphenylamine		–	–	–	–	–	–
Pentachlorophenol		–	–	–	86000	–	–
Phenanthrene		–	–	–	–	–	–
Anthracene		–	–	–	–	–	–
Carbazole		–	–	–	–	–	–
Di-n-butylphthalate		–	–	–	–	–	–
Fluoranthene		–	–	–	–	–	–
Pyrene		–	–	–	–	–	–
Butylbenzylphthalate		–	–	–	–	160 J	–
3,3'-Dichlorobenzidine		–	–	–	–	–	–
Benzo(a)anthracene		–	–	–	–	–	–
Chrysene		–	–	–	–	–	–
bis(2-Ethylhexyl)phthalate		–	–	–	–	–	–
Di-n-octylphthalate		–	–	–	–	–	–
Benzo(b)fluoranthene		–	–	–	–	–	–
Benzo(k)fluoranthene		–	–	–	–	–	–
Benzo(a)pyrene		–	–	–	–	–	–
Indeno(1,2,3-cd)pyrene		–	–	–	–	–	–
Benzo(g,h,i)perylene		–	–	–	–	–	–
Aniline		–	–	–	–	–	–
2-Chloroaniline		720000 J	190000 J	–	8600 J	190000 D	160000 J
3-Chloroaniline		–	–	–	–	44000 DJ	–
Total SVOCs		20940000	3827000	26300	549300	589960	1401000

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
J Estimated value.
D Concentration determined at a secondary dilution factor.
R Unusable value.
E Exceeded the instrument calibration range.
– Not detected.
SVOCs Semivolatile organic compounds.

Only those compounds detected are listed.

SUBSEM.XLS

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location: SB-16 Sample Depth: 30-32 ft Sample Date: 5/29/92 Units: ug/kg
Phenol	420000 EJ
bis(2-Chloroethyl)ether	–
2-Chlorophenol	460000 EJ
1,3-Dichlorobenzene	–
1,4-Dichlorobenzene	–
1,2-Dichlorobenzene	–
2-Methylphenol (o-cresol)	–
4-Methylphenol (p-cresol)	36000 J
Nitrobenzene	690 J
2,4-Dimethylphenol	–
2,4-Dichlorophenol	420000 DJ
1,2,4-Trichlorobenzene	–
Naphthalene	–
4-Chloroaniline	–
2-Methylnaphthalene	–
2,4,6-Trichlorophenol	51000 J
2,4,5-Trichlorophenol	–
2-Nitroaniline	–
Dimethylphthalate	–
Acenaphthene	–
Dibenzofuran	–
Diethylphthalate	–
Fluorene	–
4-Nitroaniline	–
N-Nitrosodiphenylamine	–
Pentachlorophenol	–
Phenanthrene	–
Anthracene	–
Carbazole	–
Di-n-butylphthalate	–
Fluoranthene	–
Pyrene	–
Butylbenzylphthalate	–
3,3'-Dichlorobenzidine	–
Benzo(a)anthracene	–
Chrysene	–
bis(2-Ethylhexyl)phthalate	–
Di-n-octylphthalate	–
Benzo(b)fluoranthene	–
Benzo(k)fluoranthene	–
Benzo(a)pyrene	–
Indeno(1,2,3-cd)pyrene	–
Benzo(g,h,i)perylene	–
Aniline	–
2-Chloroaniline	49000
3-Chloroaniline	–
Total SVOCs	1436690

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated value.
D	Concentration determined at a secondary dilution factor.
R	Unusable value.
E	Exceeded the instrument calibration range.
–	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
	Sample Depth:						
	Sample Date:	4/9/92	4/10/92	4/13/92	4/14/92	4/16/92	4/21/92
	Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Phenol		–	–	–	–	–	–
bis(2-Chloroethyl)ether		–	–	–	–	–	–
2-Chlorophenol		–	–	–	–	–	–
1,3-Dichlorobenzene		–	–	–	–	–	–
1,4-Dichlorobenzene		–	–	–	–	–	–
1,2-Dichlorobenzene		–	–	–	–	–	–
2-Methylphenol (o-cresol)		–	–	–	–	–	–
4-Methylphenol (p-cresol)		–	–	–	–	–	–
Nitrobenzene		–	–	–	–	–	–
2,4-Dimethylphenol		–	–	–	–	–	–
2,4-Dichlorophenol		–	–	–	–	–	–
1,2,4-Trichlorobenzene		–	–	–	–	–	–
Naphthalene		–	–	–	–	–	–
4-Chloroaniline		–	–	–	–	–	–
2-Methylnaphthalene		–	–	–	–	–	–
2,4,6-Trichlorophenol		–	–	–	–	–	–
2,4,5-Trichlorophenol		–	–	–	–	–	–
2-Nitroaniline		–	–	–	–	–	–
Dimethylphthalate		–	–	–	–	–	–
Acenaphthene		–	–	–	–	–	–
Dibenzofuran		–	–	–	–	–	–
Diethylphthalate		–	–	–	–	–	–
Fluorene		–	–	–	–	–	–
4-Nitroaniline		–	–	–	–	–	–
N-Nitrosodiphenylamine		–	–	–	–	–	–
Pentachlorophenol		–	–	–	–	–	–
Phenanthrene		–	–	–	–	–	–
Anthracene		–	–	–	–	–	–
Carbazole		–	0.3 J	–	–	–	–
Di-n-butylphthalate		–	–	–	–	–	–
Fluoranthene		–	–	–	–	–	–
Pyrene		–	1 J	–	–	–	–
Butylbenzylphthalate		–	–	–	–	–	–
3,3'-Dichlorobenzidine		–	–	–	–	–	–
Benzo(a)anthracene		–	–	–	–	–	–
Chrysene		0.8 J	360 D	0.7 J	–	4 J	6 J
bis(2-Ethylhexyl)phthalate		–	–	–	–	–	–
Di-n-octylphthalate		–	–	–	–	–	–
Benzo(b)fluoranthene		–	–	–	–	–	–
Benzo(k)fluoranthene		–	–	–	–	–	–
Benzo(a)pyrene		–	–	–	–	–	–
Indeno(1,2,3-cd)pyrene		–	–	–	–	–	–
Benzo(g,h,i)perylene		–	–	–	–	–	–
2-Chloroaniline		–	–	–	–	–	–
3-Chloroaniline		–	–	–	–	–	–
Total SVOCs		0.8	361.3	0.7	–	4	6

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
J Estimated value.
D Concentration determined at a secondary dilution factor.
R Unusable value.
E Exceeded the instrument calibration range.
– Not detected.
SVOCs Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Depth:						
Sample Date:	4/23/92	4/27/92	5/4/92	5/5/92	5/6/92	5/7/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter						
Phenol	–	0.4 J	–	–	–	–
bis(2-Chloroethyl)ether	–	–	–	–	–	–
2-Chlorophenol	–	–	–	–	–	–
1,3-Dichlorobenzene	–	–	–	–	–	–
1,4-Dichlorobenzene	–	–	–	–	–	–
1,2-Dichlorobenzene	–	–	–	–	–	–
2-Methylphenol (o-cresol)	–	–	–	–	–	–
4-Methylphenol (p-cresol)	–	–	–	–	–	–
Nitrobenzene	–	–	2 J	1 J	–	–
2,4-Dimethylphenol	–	–	–	–	–	–
2,4-Dichlorophenol	–	–	–	–	–	–
1,2,4-Trichlorobenzene	–	–	–	–	–	–
Naphthalene	–	0.7 J	–	–	6 J	0.3 J
4-Chloroaniline	–	–	–	–	–	–
2-Methylnaphthalene	–	–	–	–	–	–
2,4,6-Trichlorophenol	–	–	–	–	–	–
2,4,5-Trichlorophenol	–	–	–	–	–	–
2-Nitroaniline	–	–	–	–	–	–
Dimethylphthalate	–	–	–	–	–	–
Acenaphthene	–	–	–	–	–	–
Dibenzofuran	–	–	–	–	–	–
Diethylphthalate	–	–	–	–	–	–
Fluorene	–	–	–	–	–	–
4-Nitroaniline	–	–	–	–	–	–
N-Nitrosodiphenylamine	–	–	–	–	–	–
Pentachlorophenol	–	–	–	–	–	–
Phenanthrene	–	–	–	–	–	–
Anthracene	–	–	–	–	–	–
Carbazole	–	–	–	–	–	–
Di-n-butylphthalate	–	–	–	–	–	–
Fluoranthene	–	–	–	–	–	–
Pyrene	–	–	–	–	–	–
Butylbenzylphthalate	–	–	–	–	–	–
3,3'-Dichlorobenzidine	–	–	–	–	–	–
Benzo(a)anthracene	–	–	–	–	–	–
Chrysene	13 J	–	–	–	–	–
bis(2-Ethylhexyl)phthalate	–	–	–	–	–	–
Di-n-octylphthalate	–	–	–	–	–	–
Benzo(b)fluoranthene	–	–	–	–	–	–
Benzo(k)fluoranthene	–	–	–	–	–	–
Benzo(a)pyrene	–	–	–	–	–	–
Indeno(1,2,3-cd)pyrene	–	–	–	–	–	–
Benzo(g,h,i)perylene	–	–	–	–	–	–
2-Chloroaniline	–	–	–	–	–	–
3-Chloroaniline	–	–	–	–	–	–
Total SVOCs	13	1.1	2	1	6	0.3

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated value.
D	Concentration determined at a secondary dilution factor.
R	Unusable value.
E	Exceeded the instrument calibration range.
–	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Depth:						
Sample Date:	5/8/92	5/13/92	5/14/92	5/15/92	5/18/92	5/19/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter						
Phenol	–	–	–	–	–	–
bis(2-Chloroethyl)ether	–	–	–	–	–	–
2-Chlorophenol	–	–	–	–	–	–
1,3-Dichlorobenzene	–	–	–	–	–	–
1,4-Dichlorobenzene	–	–	–	–	–	–
1,2-Dichlorobenzene	–	–	–	–	–	–
2-Methylphenol (o-cresol)	–	–	–	–	–	–
4-Methylphenol (p-cresol)	–	–	–	–	–	–
Nitrobenzene	–	–	–	–	–	–
2,4-Dimethylphenol	–	–	–	–	–	–
2,4-Dichlorophenol	–	–	–	–	–	–
1,2,4-Trichlorobenzene	–	–	–	–	–	–
Naphthalene	–	–	–	–	–	–
4-Chloroaniline	–	–	–	–	–	–
2-Methylnaphthalene	–	–	–	–	–	–
2,4,6-Trichlorophenol	–	–	–	–	–	–
2,4,5-Trichlorophenol	–	–	–	–	–	–
2-Nitroaniline	–	–	–	–	–	–
Dimethylphthalate	–	–	–	–	–	–
Acenaphthene	–	–	–	–	–	–
Dibenzofuran	–	–	–	–	–	–
Diethylphthalate	–	–	–	–	–	–
Fluorene	–	–	–	–	–	–
4-Nitroaniline	–	–	–	–	–	–
N-Nitrosodiphenylamine	–	–	–	–	–	–
Pentachlorophenol	–	–	–	–	–	–
Phenanthrene	–	–	–	–	–	–
Anthracene	–	–	–	–	–	–
Carbazole	–	–	–	–	–	–
Di-n-butylphthalate	–	–	–	–	–	–
Fluoranthene	–	–	–	–	–	–
Pyrene	–	–	–	–	–	–
Butylbenzylphthalate	–	–	–	–	–	R
3,3'-Dichlorobenzidine	–	–	–	–	–	–
Benzo(a)anthracene	–	–	–	–	–	–
Chrysene	–	–	–	–	–	–
bis(2-Ethylhexyl)phthalate	–	–	–	–	–	–
Di-n-octylphthalate	–	–	–	–	–	–
Benzo(b)fluoranthene	–	–	–	–	–	–
Benzo(k)fluoranthene	–	–	–	–	–	–
Benzo(a)pyrene	–	–	–	–	–	–
Indeno(1,2,3-cd)pyrene	–	–	–	–	–	–
Benzo(g,h,i)perylene	–	–	–	–	–	–
2-Chloroaniline	–	–	–	–	–	–
3-Chloroaniline	–	–	–	–	–	–
Total SVOCs	–	–	–	–	–	–

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated value.
D	Concentration determined at a secondary dilution factor.
R	Unusable value.
E	Exceeded the instrument calibration range.
–	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Depth:						
Sample Date:	5/20/92	5/21/92	5/22/92	5/26/92	5/27/92	5/28/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter						
Phenol	–	–	–	–	–	–
bis(2-Chloroethyl)ether	–	–	–	–	–	–
2-Chlorophenol	–	–	–	–	–	–
1,3-Dichlorobenzene	–	–	–	–	–	–
1,4-Dichlorobenzene	–	–	–	–	–	–
1,2-Dichlorobenzene	–	–	–	–	–	–
2-Methylphenol (o-cresol)	–	–	–	–	–	–
4-Methylphenol (p-cresol)	–	–	–	–	–	–
Nitrobenzene	–	–	–	–	–	–
2,4-Dimethylphenol	–	–	–	–	–	–
2,4-Dichlorophenol	–	–	–	1 J	–	–
1,2,4-Trichlorobenzene	–	–	–	–	–	–
Naphthalene	–	–	–	–	–	–
4-Chloroaniline	–	–	–	–	–	–
2-Methylnaphthalene	–	–	–	–	–	–
2,4,6-Trichlorophenol	–	–	–	–	–	–
2,4,5-Trichlorophenol	–	–	–	–	–	–
2-Nitroaniline	–	–	–	–	–	–
Dimethylphthalate	–	–	–	–	–	–
Acenaphthene	–	–	–	–	–	–
Dibenzofuran	–	–	–	–	–	–
Diethylphthalate	–	–	–	–	–	–
Fluorene	–	–	–	–	–	–
4-Nitroaniline	–	–	–	–	–	–
N-Nitrosodiphenylamine	–	–	–	–	–	–
Pentachlorophenol	–	–	–	–	–	–
Phenanthrene	–	–	–	–	–	–
Anthracene	–	–	–	–	–	–
Carbazole	–	–	–	–	–	–
Di-n-butylphthalate	–	–	–	–	–	–
Fluoranthene	–	–	–	–	–	–
Pyrene	–	–	–	–	–	–
Butylbenzylphthalate	R	R	–	–	–	–
3,3'-Dichlorobenzidine	–	–	–	–	–	–
Benzo(a)anthracene	–	–	–	–	–	–
Chrysene	–	–	–	–	–	–
bis(2-Ethylhexyl)phthalate	–	–	–	–	–	–
Di-n-octylphthalate	–	–	–	–	–	–
Benzo(b)fluoranthene	–	–	–	–	–	–
Benzo(k)fluoranthene	–	–	–	–	–	–
Benzo(a)pyrene	–	–	–	–	–	–
Indeno(1,2,3-cd)pyrene	–	–	–	–	–	–
Benzo(g,h,i)perylene	–	–	–	–	–	–
2-Chloroaniline	–	–	–	–	–	–
3-Chloroaniline	–	–	–	–	–	–
Total SVOCs	–	–	–	1	–	–

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated value.
D	Concentration determined at a secondary dilution factor.
R	Unusable value.
E	Exceeded the instrument calibration range.
–	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-9. Summary of Target Compound List Semivolatile Organic Compounds Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameter	Sample Location:	Equipment Blank
	Sample Depth:	
	Sample Date:	5/29/92
	Units:	ug/L
Phenol		5 J
bis(2-Chloroethyl)ether		–
2-Chlorophenol		–
1,3-Dichlorobenzene		–
1,4-Dichlorobenzene		–
1,2-Dichlorobenzene		–
2-Methylphenol (o-cresol)		1 J
4-Methylphenol (p-cresol)		3 J
Nitrobenzene		–
2,4-Dimethylphenol		–
2,4-Dichlorophenol		–
1,2,4-Trichlorobenzene		–
Naphthalene		8 J
4-Chloroaniline		–
2-Methylnaphthalene		2 J
2,4,6-Trichlorophenol		–
2,4,5-Trichlorophenol		–
2-Nitroaniline		–
Dimethylphthalate		–
Acenaphthene		–
Dibenzofuran		–
Diethylphthalate		–
Fluorene		–
4-Nitroaniline		–
N-Nitrosodiphenylamine		–
Pentachlorophenol		–
Phenanthrene		–
Anthracene		–
Carbazole		–
Di-n-butylphthalate		–
Fluoranthene		–
Pyrene		–
Butylbenzylphthalate		–
3,3'-Dichlorobenzidine		–
Benzo(a)anthracene		–
Chrysene		6 J
bis(2-Ethylhexyl)phthalate		–
Di-n-octylphthalate		–
Benzo(b)fluoranthene		–
Benzo(k)fluoranthene		–
Benzo(a)pyrene		–
Indeno(1,2,3-cd)pyrene		–
Benzo(g,h,i)perylene		–
2-Chloroaniline		–
3-Chloroaniline		–
Total SVOCs		25

ug/L	Micrograms per liter.
ug/kg	Micrograms per kilogram.
J	Estimated value.
D	Concentration determined at a secondary dilution factor.
R	Unusable value.
E	Exceeded the instrument calibration range.
–	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-10. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-1	SB-1	SB-1	SB-2	SB-2	SB-2	SB-3
Sample Depth:	12-14 ft	26-28 ft	32-34 ft	12-14 ft	14-16 ft	28-30 ft	12-14 ft
Sample Date:	4/9/92	4/9/92	4/9/92	4/10/92	4/10/92	4/13/92	4/16/92
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameter							
Pesticides/PCBs							
beta-BHC	–	–	–	–	–	–	–
delta-BHC	–	–	–	–	–	–	–
Heptachlor epoxide	–	–	–	–	–	–	–
Endosulfan I	–	–	–	–	3000 JN	R	–
4,4'-DDE	–	–	–	–	–	–	22000 J
Endrin	–	R	R	–	–	–	4600 J
Endosulfan II	R	–	–	–	R	–	–
4,4'-DDD	–	–	–	–	–	–	–
4,4'-DDT	–	–	–	1400	–	–	–
Methoxychlor	–	–	–	–	–	–	–
Endrin ketone	R	R	R	–	R	R	R
Endrin aldehyde	–	–	–	–	–	–	5900 JN
alpha-Chlordane	–	–	–	–	–	–	–
gamma-Chlordane	–	–	–	–	–	–	–
Aroclor-1248	–	–	–	–	–	–	4800000 J
Aroclor-1254	–	–	–	–	–	–	–
Aroclor-1260	–	–	–	–	–	–	–
Herbicides							
2,4-D	NA	NA	NA	NA	NA	NA	NA

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
D Concentration determined at a secondary dilution factor.
NA Not analyzed.
J Estimated value.
R Unusable value.
N Presumptive evidence of the compound present.
– Not detected.
PCBs Polychlorinated biphenyls.

Only those compounds detected are listed.

Table 5-10. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-3	SB-3	SB-4	SB-4	SB-4	SB-5	SB-5
Sample Depth:	14-16 ft	32-34 ft	10-12 ft	12-14 ft	30-32 ft	12-14 ft	20-22 ft
Sample Date:	4/16/92	4/16/92	4/14/92	4/14/92	4/14/92	5/4/92	5/4/92
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameter							
Pesticides/PCBs							
beta-BHC	–	–	7600 JN	–	–	–	–
delta-BHC	–	–	–	–	–	–	–
Heptachlor epoxide	–	–	–	–	–	–	–
Endosulfan I	–	–	–	–	–	–	–
4,4'-DDE	–	–	–	–	–	–	–
Endrin	–	–	–	–	–	–	–
Endosulfan II	–	3300	R	–	–	–	–
4,4'-DDD	720	–	–	–	–	–	–
4,4'-DDT	–	–	52000	–	–	–	–
Methoxychlor	–	–	–	–	–	–	–
Endrin ketone	R	15000	4600	–	99000 JN	11000	–
Endrin aldehyde	2000 J	–	–	–	–	–	–
alpha-Chlordane	–	420	–	–	–	–	–
gamma-Chlordane	–	–	–	–	–	–	–
Aroclor-1248	900000 J	–	–	–	–	470000 J	62000 J
Aroclor-1254	–	–	–	–	–	1100000 J	120000 JN
Aroclor-1260	–	–	–	100000	–	–	–
Herbicides							
2,4-D	NA	NA	NA	NA	NA	NA	NA

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
D Concentration determined at a secondary dilution factor.
NA Not analyzed.
J Estimated value.
R Unusable value.
N Presumptive evidence of the compound present.
– Not detected.
PCBs Polychlorinated biphenyls.

Only those compounds detected are listed.

Table 5-10. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-5	SB-6	SB-6	SB-6	SB-7	SB-7	SB-7
Sample Depth:	28-30 ft	18-20 ft	20-22 ft	28-30 ft	16-18 ft	20-22 ft	24-26 ft
Sample Date:	5/4/92	5/5/92	5/5/92	5/6/92	5/7/92	5/7/92	5/7/92
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameter							
Pesticides/PCBs							
beta-BHC	–	–	–	–	–	–	–
delta-BHC	–	–	–	–	–	–	–
Heptachlor epoxide	–	600 DJ	–	–	–	–	–
Endosulfan I	–	–	–	–	–	–	–
4,4'-DDE	–	–	–	–	–	–	–
Endrin	–	–	–	–	–	–	–
Endosulfan II	–	–	45000 DJ	–	–	–	–
4,4'-DDD	–	–	–	–	–	–	–
4,4'-DDT	–	–	–	–	–	–	–
Methoxychlor	–	–	–	–	–	–	–
Endrin ketone	–	–	–	–	–	–	–
Endrin aldehyde	–	–	29000 DJ	–	–	–	–
alpha-Chlordane	–	1700 DJ	–	–	–	–	–
gamma-Chlordane	–	300 J	–	–	–	–	–
Aroclor-1248	12000 J	–	1200000 DJ	26000 J	–	–	–
Aroclor-1254	22000 J	–	–	–	–	–	–
Aroclor-1260	–	–	–	–	–	–	–
Herbicides							
2,4-D	NA	NA	NA	NA	NA	NA	NA

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
D Concentration determined at a secondary dilution factor.
NA Not analyzed.
J Estimated value.
R Unusable value.
N Presumptive evidence of the compound present.
– Not detected.
PCBs Polychlorinated biphenyls.

Only those compounds detected are listed.

Table 5-10. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-8	SB-9	SB-9	SB-9	SB-9	SB-10	SB-10
Sample Depth:	6-8 ft	18-20 ft	20-22 ft	28-30 ft	30-32 ft	6-8 ft	18-20 ft
Sample Date:	5/8/92	5/13/92	5/13/92	5/13/92	5/13/92	5/14/92	5/14/92
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameter							
Pesticides/PCBs							
beta-BHC	–	–	–	–	–	–	–
delta-BHC	–	–	–	–	–	–	330 J
Heptachlor epoxide	–	–	–	–	–	440 J	R
Endosulfan I	–	–	–	–	–	–	–
4,4'-DDE	–	–	–	–	–	–	–
Endrin	–	–	–	–	–	–	–
Endosulfan II	3500 J	–	–	–	–	1100 J	–
4,4'-DDD	–	–	–	–	–	–	–
4,4'-DDT	–	–	–	–	–	–	–
Methoxychlor	–	–	–	–	R	–	–
Endrin ketone	–	–	–	–	–	–	–
Endrin aldehyde	R	–	–	–	–	–	–
alpha-Chlordane	–	–	–	–	–	–	290 J
gamma-Chlordane	–	–	–	–	–	450 J	620 J
Aroclor-1248	270000 J	16000 J	7200 J	7000 J	160000 JN	130000 J	130000 J
Aroclor-1254	–	–	–	–	–	–	–
Aroclor-1260	–	3700 J	1000 J	14000 J	100000 J	9500 J	34000 J
Herbicides							
2,4-D	NA	NA	NA	NA	NA	970 J	NA

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
D Concentration determined at a secondary dilution factor.
NA Not analyzed.
J Estimated value.
R Unusable value.
N Presumptive evidence of the compound present.
– Not detected.
PCBs Polychlorinated biphenyls.

Only those compounds detected are listed.

Table 5-10. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-10	SB-11	SB-11	SB-11	SB-12	SB-12	SB-12
Sample Depth:	24-26 ft	14-16 ft	16-18 ft	30-32 ft	8-10 ft	22-24 ft	32-34 ft
Sample Date:	5/14/92	5/19/92	5/19/92	5/20/92	5/15/92	5/18/92	5/18/92
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameter							
Pesticides/PCBs							
beta-BHC	–	–	–	–	–	–	–
delta-BHC	–	–	–	–	–	–	–
Heptachlor epoxide	–	–	–	–	–	–	–
Endosulfan I	–	–	–	–	–	–	–
4,4'-DDE	–	–	–	–	–	–	–
Endrin	–	–	–	–	–	–	–
Endosulfan II	–	R	–	–	–	6100 J	–
4,4'-DDD	–	–	–	–	–	–	–
4,4'-DDT	–	–	–	–	–	–	–
Methoxychlor	–	–	–	–	–	–	–
Endrin ketone	–	–	–	–	–	–	–
Endrin aldehyde	–	–	–	–	–	–	–
alpha-Chlordane	–	–	–	–	–	–	–
gamma-Chlordane	–	–	–	–	–	3500 J	–
Aroclor-1248	49000 J	25000 J	19000 J	8400 J	–	800000 J	75 J
Aroclor-1254	–	–	11000 J	–	–	–	–
Aroclor-1260	24000 J	–	–	–	–	–	–
Herbicides							
2,4-D	2600	NA	1700	–	7.5 J	NA	3200

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
D Concentration determined at a secondary dilution factor.
NA Not analyzed.
J Estimated value.
R Unusable value.
N Presumptive evidence of the compound present.
– Not detected.
PCBs Polychlorinated biphenyls.

Only those compounds detected are listed.

Recycled paper

Table 5-10. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-13	SB-13	SB-13	SB-14	SB-14	SB-14	SB-15
Sample Depth:	16-18 ft	18-20 ft	30-32 ft	10-12 ft	20-22 ft	30-32 ft	16-18 ft
Sample Date:	5/21/92	5/21/92	5/21/92	5/22/92	5/26/92	5/26/92	5/27/92
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameter							
Pesticides/PCBs							
beta-BHC	–	–	–	–	–	–	–
delta-BHC	–	–	–	–	–	–	–
Heptachlor epoxide	–	–	–	–	–	–	–
Endosulfan I	–	–	–	–	–	–	–
4,4'-DDE	–	–	–	–	–	–	–
Endrin	–	–	–	–	–	–	–
Endosulfan II	–	–	–	–	–	–	–
4,4'-DDD	–	–	–	–	–	–	–
4,4'-DDT	–	–	–	–	–	–	R
Methoxychlor	–	–	–	–	–	–	–
Endrin ketone	–	–	–	–	–	–	–
Endrin aldehyde	–	–	–	–	–	–	–
alpha-Chlordane	–	–	–	–	–	–	–
gamma-Chlordane	–	–	–	–	–	–	–
Aroclor-1248	–	–	–	–	–	–	–
Aroclor-1254	–	–	–	–	–	–	–
Aroclor-1260	–	–	–	–	–	–	–
Herbicides							
2,4-D	110	NA	96	NA	23000	130000	720000

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
D Concentration determined at a secondary dilution factor.
NA Not analyzed.
J Estimated value.
R Unusable value.
N Presumptive evidence of the compound present.
– Not detected.
PCBs Polychlorinated biphenyls.

Only those compounds detected are listed.

Table 5-10. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-15	SB-15	SB-16	SB-16	SB-16	SB-16
Sample Depth:	18-20 ft	26-28 ft	6-8 ft	16-18 ft	28-30 ft	30-32 ft
Sample Date:	5/28/92	5/28/92	5/29/92	5/29/92	5/29/92	5/29/92
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Parameter						
Pesticides/PCBs						
beta-BHC	–	–	–	–	–	–
delta-BHC	–	–	–	–	–	–
Heptachlor epoxide	–	–	–	–	–	–
Endosulfan I	–	–	–	–	–	–
4,4'-DDE	–	–	–	240 J	–	–
Endrin	–	–	–	–	–	19
Endosulfan II	–	–	–	–	–	–
4,4'-DDD	–	–	–	–	–	–
4,4'-DDT	–	–	420	–	11 J	–
Methoxychlor	–	–	–	–	–	–
Endrin ketone	–	–	–	–	–	–
Endrin aldehyde	–	–	R	–	–	–
alpha-Chlordane	–	–	–	–	–	–
gamma-Chlordane	–	–	–	–	–	–
Aroclor-1248	–	–	–	–	–	–
Aroclor-1254	–	–	–	–	–	–
Aroclor-1260	–	–	–	–	–	–
Herbicides						
2,4-D	NA	5200	NA	310	8900	NA

ug/kg	Micrograms per kilogram.
ug/L	Micrograms per liter.
D	Concentration determined at a secondary dilution factor.
NA	Not analyzed.
J	Estimated value.
R	Unusable value.
N	Presumptive evidence of the compound present.
–	Not detected.
PCBs	Polychlorinated biphenyls.

Only those compounds detected are listed.

recycled paper

Table 5-10. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Depth:							
Sample Date:	4/9/92	4/10/92	4/13/92	4/14/92	4/16/92	4/23/92	4/27/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter							
Pesticides/PCBs							
beta-BHC	–	–	–	–	–	–	–
delta-BHC	–	–	–	–	–	–	–
Heptachlor epoxide	–	–	–	–	–	–	–
Endosulfan I	–	–	–	–	–	–	–
4,4'-DDE	–	–	–	–	–	–	–
Endrin	–	–	–	–	–	–	–
Endosulfan II	–	–	–	–	–	–	–
4,4'-DDD	–	–	–	–	–	–	–
4,4'-DDT	–	–	–	–	–	–	–
Methoxychlor	–	–	–	–	–	–	–
Endrin ketone	–	–	–	–	–	–	–
Endrin aldehyde	–	–	–	–	–	–	–
alpha-Chlordane	–	–	–	–	–	–	–
gamma-Chlordane	–	–	–	–	–	–	–
Aroclor-1248	–	–	–	–	–	–	–
Aroclor-1254	–	–	–	–	–	–	–
Aroclor-1260	–	–	–	–	–	–	–
Herbicides							
2,4-D	NA	NA	NA	NA	NA	NA	NA

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
D Concentration determined at a secondary dilution factor.
NA Not analyzed.
J Estimated value.
R Unusable value.
N Presumptive evidence of the compound present.
– Not detected.
PCBs Polychlorinated biphenyls.

Only those compounds detected are listed.

Table 5-10. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Depth:							
Sample Date:	5/4/92	5/5/92	5/6/92	5/7/92	5/8/92	5/13/92	5/14/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter							
Pesticides/PCBs							
beta-BHC	–	–	–	–	–	–	–
delta-BHC	–	–	–	–	–	–	–
Heptachlor epoxide	–	–	–	–	–	–	–
Endosulfan I	–	–	–	–	–	–	–
4,4'-DDE	–	–	–	–	–	–	–
Endrin	–	–	–	–	–	–	–
Endosulfan II	–	–	–	–	–	–	–
4,4'-DDD	–	–	–	–	–	–	–
4,4'-DDT	–	–	–	–	–	–	–
Methoxychlor	–	–	–	–	–	–	–
Endrin ketone	–	–	–	–	–	–	–
Endrin aldehyde	–	–	–	–	–	–	–
alpha-Chlordane	–	–	–	–	–	–	–
gamma-Chlordane	–	–	–	–	–	–	–
Aroclor-1248	–	–	–	–	–	–	–
Aroclor-1254	–	–	–	–	–	–	–
Aroclor-1260	–	–	–	–	–	–	–
Herbicides							
2,4-D	NA	NA	NA	NA	NA	NA	NA

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
D Concentration determined at a secondary dilution factor.
NA Not analyzed.
J Estimated value.
R Unusable value.
N Presumptive evidence of the compound present.
– Not detected.
PCBs Polychlorinated biphenyls.

Only those compounds detected are listed.

Recycled paper

Table 5-10. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Depth:							
Sample Date:	5/15/92	5/18/92	5/19/92	5/20/92	5/21/92	5/22/92	5/26/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter							
Pesticides/PCBs							
beta-BHC	–	–	–	–	–	–	–
delta-BHC	–	–	–	–	–	–	–
Heptachlor epoxide	–	–	–	–	–	–	–
Endosulfan I	–	–	–	–	–	–	–
4,4'-DDE	–	–	–	–	–	–	–
Endrin	–	–	–	–	–	–	–
Endosulfan II	–	–	–	–	–	–	–
4,4'-DDD	–	–	–	–	–	–	–
4,4'-DDT	–	–	–	–	–	–	–
Methoxychlor	–	–	–	–	–	–	–
Endrin ketone	–	–	–	–	–	–	–
Endrin aldehyde	–	–	–	–	–	–	–
alpha-Chlordane	–	–	–	–	–	–	–
gamma-Chlordane	–	–	–	–	–	–	–
Aroclor-1248	–	–	–	–	–	–	–
Aroclor-1254	–	–	–	–	–	–	–
Aroclor-1260	–	–	–	–	–	–	–
Herbicides							
2,4-D	NA	NA	NA	NA	NA	NA	NA

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
D Concentration determined at a secondary dilution factor.
NA Not analyzed.
J Estimated value.
R Unusable value.
N Presumptive evidence of the compound present.
– Not detected.
PCBs Polychlorinated biphenyls.

Only those compounds detected are listed.

Table 5-10. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank
Sample Depth:			
Sample Date:	5/27/92	5/28/92	5/29/92
Units:	ug/L	ug/L	ug/L
Parameter			
Pesticides/PCBs			
beta-BHC	–	–	–
delta-BHC	–	–	–
Heptachlor epoxide	–	–	–
Endosulfan I	–	–	–
4,4'-DDE	–	–	–
Endrin	–	–	–
Endosulfan II	–	–	–
4,4'-DDD	–	–	–
4,4'-DDT	–	–	–
Methoxychlor	–	–	–
Endrin ketone	–	–	–
Endrin aldehyde	–	–	–
alpha-Chlordane	–	–	–
gamma-Chlordane	–	–	–
Aroclor-1248	–	–	–
Aroclor-1254	–	–	–
Aroclor-1260	–	–	–
Herbicides			
2,4-D	NA	NA	NA

ug/kg	Micrograms per kilogram.
ug/L	Micrograms per liter.
D	Concentration determined at a secondary dilution factor.
NA	Not analyzed.
J	Estimated value.
R	Unusable value.
N	Presumptive evidence of the compound present.
–	Not detected.
PCBs	Polychlorinated biphenyls.

Only those compounds detected are listed.

Recycled paper

Table 5-11. Summary of Target Analyte List Parameters Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-1	SB-1	SB-1	SB-2	SB-2	SB-2	SB-3
Sample Depth:	12-14 ft	26-28 ft	32-34 ft	12-14 ft	14-16 ft	28-30 ft	12-14 ft
Sample Date:	4/9/92	4/9/92	4/9/92	4/10/92	4/10/92	4/13/92	4/16/92
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Parameter							
Aluminum	7890	6350	8660	4080	3280	10100	3870 J
Antimony	–	–	–	–	–	–	–
Arsenic	6.6	–	4.5	3.7	–	4.7	–
Barium	71.1	180	237	62.8	62.2	117	70.8
Beryllium	–	–	–	–	–	–	–
Cadmium	–	–	–	–	–	–	–
Calcium	11500	12700	15600	7580	4670	7620	5860
Chromium	20.4 J	11.6 J	14.7 J	13.0 J	11.4 J	14.7 J	19.6
Cobalt	27.1	18.6	17.9	81.5	43.6	10.9	16.5 B
Copper	78.8 J	13.4 J	15.2 J	183 J	120 J	16.6 J	219 J
Iron	12100	10100	14600	10100	11000	13900	13500
Lead	16.8 J	6.8 J	10.3 J	8.1 J	3.6 J	10.6 J	6.0 J
Magnesium	858 B	5360	5930	540 B	291 B	4700	335 B
Manganese	59.8	209	734	73.8	38.3	623	29.9
Mercury	0.44	–	–	–	–	–	–
Nickel	65.5	21.9	28.8	20.4	26.1	24.0	40.2
Potassium	580	1360	1730	501	432	1670	495 B
Selenium	–	–	–	–	–	–	–
Sodium	423 B	573 B	2050	606 B	250 B	3190	339 B
Vanadium	183 J	21.1 J	25.4 J	17.5 J	13.3 J	27.3 J	13.6 B
Zinc	167 J	39.6 J	52.9 J	61.5 J	53.9 J	R	79.7
Cyanide	–	–	–	–	–	–	–

– Not detected.
ug/L Micrograms per liter.
mg/kg Milligrams per kilogram.
J Estimated value.
R Unusable value.
B Compound is between the contract required detection limit and the instrument detection limit.

Only those compounds detected are listed.

Table 5-11. Summary of Target Analyte List Parameters Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-3	SB-3	SB-4	SB-4	SB-4	SB-5	SB-5
Sample Depth:	14-16 ft	32-34 ft	10-12 ft	12-14 ft	30-32 ft	12-14 ft	20-22 ft
Sample Date:	4/16/92	4/16/92	4/14/92	4/14/92	4/14/92	5/4/92	5/4/92
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Parameter							
Aluminum	4980 J	8480 J	3630	3740	6630	861	8220
Antimony	–	–	–	–	–	–	–
Arsenic	3.2	5.2	–	4.1	–	–	8.6
Barium	197	155	247	162	129	68.2	167
Beryllium	–	–	–	–	–	–	–
Cadmium	–	–	–	–	–	–	–
Calcium	7520	8720	8690	8090	12700	13900	13800
Chromium	27.0	14.5	15.9	10.0	24.0	18.7	23.4
Cobalt	59.0	19.8	83.2	71.2	10.4 B	2.4 B	69
Copper	82.8 J	14.8 J	77.6	129	12.4	18.9	320
Iron	16300	13600	12600	13000	8540	4250	27200
Lead	17.2 J	13.4 J	6.3 J	7.2 J	3.2 J	2.1 J	9.1 J
Magnesium	577 B	4080	337 B	320 B	2110	71.8 B	1890
Manganese	43.6	543	58.1	65.3	81.7	6.0	94.2
Mercury	0.95	–	0.08	–	–	–	0.12
Nickel	44.4	17.4	52.6	69.3	12.5	–	24.3
Potassium	528 B	1280	461 B	496 B	1100 B	–	1050 B
Selenium	–	–	–	–	–	R	R
Sodium	765 B	1690	405 B	278 B	1260	164 B	1270
Vanadium	16.5	21.7	16.9	17.3	18.5	6.0 B	26.4
Zinc	64.6	52.9	125 J	114 J	–	–	–
Cyanide	–	–	–	–	–	–	–

– Not detected.
ug/L Micrograms per liter.
mg/kg Milligrams per kilogram.
J Estimated value.
R Unusable value.
B Compound is between the contract required detection limit and the instrument detection limit.

Only those compounds detected are listed.

Recycled paper

Table 5-11. Summary of Target Analyte List Parameters Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-5	SB-6	SB-6	SB-6	SB-7	SB-7	SB-7
Sample Depth:	28-20 ft	18-20 ft	20-22 ft	28-30 ft	16-18 ft	20-22 ft	24-26 ft
Sample Date:	5/4/92	5/5/92	5/5/92	5/7/92	5/7/92	5/7/92	5/7/92
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Parameter							
Aluminum	11600	1360	1870	7190	4410	4620	3330
Antimony	–	–	–	–	–	–	–
Arsenic	9.4	–	–	6.4	5.7	5.7	3.7
Barium	255	300	293	132	170	158	154
Beryllium	–	–	–	–	–	–	–
Cadmium	–	–	–	–	–	–	–
Calcium	15000	15600	13000	8920	8430	9540	11500
Chromium	16.8	6.8 J	6.7 J	13.0	10.9	23.0	9.1
Cobalt	23.6	23.1	27.4	11.1 B	69.2	51.3	21.5
Copper	54.6	12.9	27.0	16.0	137	126	58.0
Iron	18100	3300	1760	9050	9640	11400	8010
Lead	11.7 J	21.1	24.4	8.2 J	5.5 J	5.5 J	5.8 J
Magnesium	7050	726 B	677 B	2180	4410	5220	5320
Manganese	787	4.8	2.9	132	93.5	92.3	114
Mercury	–	1.5	0.27	0.16	0.27	0.43	–
Nickel	26.7	–	14.0	14.4	11.1	14.9	10.2
Potassium	2250	795 B	821 B	1180 B	1060 B	1190 B	746 B
Selenium	R	–	–	R	R	R	R
Sodium	6610	1700	1810	2050	269 B	564 B	1130 B
Vanadium	27.8	–	–	22.7	47.9	32.4	19.4
Zinc	–	18.6	19.3	36.5	132	66.8	36.1
Cyanide	–	–	–	–	–	–	–

–	Not detected.
ug/L	Micrograms per liter.
mg/kg	Milligrams per kilogram.
J	Estimated value.
R	Unusable value.
B	Compound is between the contract required detection limit and the instrument detection limit.

Only those compounds detected are listed.

Table 5-11. Summary of Target Analyte List Parameters Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-8	SB-9	SB-9	SB-9	SB-9	SB-10	SB-10
Sample Depth:	6-8 ft	18-20 ft	20-22 ft	28-30 ft	30-32 ft	6-8 ft	18-20 ft
Sample Date:	5/8/92	5/13/92	5/13/92	5/13/92	5/13/92	5/14/92	5/14/92
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Parameter							
Aluminum	8000	4720 J	4540 J	2350 J	17000 J	6290 J	7380 J
Antimony	–	R	R	R	R	R	R
Arsenic	5.0	3.8	5.8	3.9	5.3	147	14.9
Barium	331	210	195	61.3	198	114	111
Beryllium	–	–	–	–	–	1.7	–
Cadmium	1.2	1.2	–	–	–	4.3	1.2
Calcium	8620	10800	19500	7390	9060	14800	14700
Chromium	20.4	21.6	21.9	6.6	23.1	32.0	41.0
Cobalt	6.1 B	25.5	3.5 B	6.3 B	15.2	9.6 B	25.0
Copper	40.6	31.4	20.4	10.9	21.0	40.7	51.7
Iron	15900	42400	12300	6230	21200	42500	34600
Lead	15.1 J	19.5	8.6	4.4	12.9	15.6	26.8
Magnesium	3810	3050	1710	2550	4810	1290	561 B
Manganese	297	125	96.1	134	822	134	102
Mercury	0.80	0.24	1.1	–	–	1.5	0.51
Nickel	16.6	24.0	9.9	11.9	25.7	38.4	67.7
Potassium	671 B	1330	1450	458 B	2530	1620	1690
Selenium	R	–	–	–	–	2.8 J	4.2 J
Sodium	–	1140	1760	2150	4640	2870	1140 B
Vanadium	24.5	36.8	27.1	24.9	35.5	645	90.2
Zinc	336	175	43.1	33.1	72.7	718	2620
Cyanide	–	–	–	–	–	–	–

– Not detected.
ug/L Micrograms per liter.
mg/kg Milligrams per kilogram.
J Estimated value.
R Unusable value.
B Compound is between the contract required detection limit and the instrument detection limit.

Only those compounds detected are listed.

Recycled paper

Table 5-11. Summary of Target Analyte List Parameters Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-10	SB-11	SB-11	SB-11	SB-12	SB-12	SB-12
Sample Depth:	24-26 ft	14-16 ft	16-18 ft	30-32 ft	8-10 ft	22-24 ft	32-34 ft
Sample Date:	5/14/92	5/19/92	5/19/92	5/20/92	5/15/92	5/18/92	5/18/92
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Parameter							
Aluminum	2250 J	3450	3430	10200	5710 J	1660 J	11900 J
Antimony	R	–	–	–	R	R	R
Arsenic	–	6.2	4.0	5.9	9.3	–	–
Barium	85.8	89.6	73.0	173	86.4	49.6	260
Beryllium	–	–	–	–	–	–	–
Cadmium	–	–	–	–	1.5	–	–
Calcium	6950	21600	12200	7540	31100	3130	9990
Chromium	6.3	29.2	13.3	14.9	27.5	3.5	18.5
Cobalt	4.2 B	4.1 B	4.4 B	8.2 B	8.4 B	2.5 B	9.4 B
Copper	–	24.9	12.5	16.4	20.6	–	15.7
Iron	6220	16900	11600	16200	33900	3870	14400
Lead	4.1	13.7	9.2	10.6	12.1	3.2	12.4
Magnesium	2620	679 B	635 B	3670	785 B	1490	5410
Manganese	78.9	119	97.8	703	125	80.0	325
Mercury	–	43.0	1.3	–	19.4	0.33	–
Nickel	–	18.6	11.6	17.8	27.6	–	21.2
Potassium	562 B	759 B	578 B	1690	791 B	314 B	1720
Selenium	–	–	–	–	–	–	–
Sodium	409 B	3480	2180	–	485 B	1240	5090
Vanadium	9.1 B	17.4	15.5	24.4	36.5	5.5 B	27.9
Zinc	32.5	81.9	106	–	148	–	65.8
Cyanide	–	–	–	–	–	–	0.33

–	Not detected.
ug/L	Micrograms per liter.
mg/kg	Milligrams per kilogram.
J	Estimated value.
R	Unusable value.
B	Compound is between the contract required detection limit and the instrument detection limit.

Only those compounds detected are listed.

Table 5-11. Summary of Target Analyte List Parameters Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-13	SB-13	SB-13	SB-14	SB-14	SB-14	SB-15
Sample Depth:	16-18 ft	18-20 ft	30-32 ft	10-12 ft	20-22 ft	30-32 ft	16-18 ft
Sample Date:	5/21/92	5/21/92	5/21/92	5/22/92	5/26/92	5/26/92	5/27/92
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Parameter							
Aluminum	12200	12600	9010	3820	8410	6030	6470
Antimony	–	–	–	–	–	–	–
Arsenic	81.7	89.6	5.3	11.9	9.1	4.8	–
Barium	114	129	209	70.8	181	180	40.0 B
Beryllium	3.1	2.8	–	1.7	–	–	–
Cadmium	5.5	7.0	–	–	1.5	–	–
Calcium	28300	21300	11400	14800	13700	12800	12000
Chromium	39.5	40.9	14.0	11.7	17.6	11.5	18.9
Cobalt	11.1 B	11.5 B	7.0 B	7.9 B	9.4 B	6.3 B	3.3 B
Copper	29.5	31.7	13.3	22.7	19.3	9.9	13.2
Iron	21000	17400	13000	–	16800	11800	16700
Lead	59.4	64.7	9.1	14.1	45.0 J	8.2 J	5.0 J
Magnesium	2570	3160	6610	1110 B	4350	5380	546 B
Manganese	262	206	312	57.7	144	471	61.4
Mercury	0.14	–	–	4.8	6.1	–	3.1
Nickel	37.9	40.3	17.5	19.8	17.9	16.1	18.1
Potassium	1570 B	1950	1550	538 B	1930	1160 B	556 B
Selenium	2.4 J	1.9 J	–	1.7 J	–	–	–
Sodium	591 B	1500 B	1530	–	679 B	2260	–
Vanadium	77.9	82.7	24.2	21.5	26.4	18.5	28.6
Zinc	491	602	53.2	52.9	94.2	37.8	84.5
Cyanide	–	–	–	–	–	–	–

–	Not detected.
ug/L	Micrograms per liter.
mg/kg	Milligrams per kilogram.
J	Estimated value.
R	Unusable value.
B	Compound is between the contract required detection limit and the instrument detection limit.

Only those compounds detected are listed.

Recycled paper

Table 5-11. Summary of Target Analyte List Parameters Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	SB-15	SB-15	SB-16	SB-16	SB-16	SB-16
Sample Depth:	18-20 ft	26-28 ft	6-8 ft	16-18 ft	28-30 ft	30-32 ft
Sample Date:	5/28/92	5/28/92	5/29/92	5/29/92	5/29/92	5/29/92
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Parameter						
Aluminum	5240	230	7100	5290	6240	11400
Antimony	–	–	–	–	–	–
Arsenic	4.3	–	8.1	6.5	3.6	12.8
Barium	76.2	32.0 B	117	169	147	219
Beryllium	–	–	–	–	–	–
Cadmium	–	–	–	–	–	–
Calcium	9040	2050	85600	8690	9970	14900
Chromium	25.4	–	21.1	11.1	9.8	16.9
Cobalt	3.8 B	–	6.6 B	5.4 B	7.6 B	9.0 B
Copper	76.4	–	21.9	12.8	7.1	14.6
Iron	9500	–	17400	12200	13900	17300
Lead	8.8 J	2.4 J	14.3 J	15.5 J	7.4 J	14.5 J
Magnesium	1110 B	73.5 B	6570	3420	4980	6630
Manganese	65.0	7.1	457	269	266	619
Mercury	5.2	0.08	9.0	0.08	–	–
Nickel	16.8	–	22.9	15.6	19.4	22.5
Potassium	652 B	–	780 B	1060 B	1290	2100
Selenium	–	–	–	–	–	–
Sodium	–	–	–	988 B	10300	16600
Vanadium	30.0	–	22.5	19.6	18.6	31.8
Zinc	83.3	–	96.1	102	37.0	63.4
Cyanide	–	–	–	–	–	–

– Not detected.
ug/L Micrograms per liter.
mg/kg Milligrams per kilogram.
J Estimated value.
R Unusable value.
B Compound is between the contract required detection limit and the instrument detection limit.

Only those compounds detected are listed.

Table 5-11. Summary of Target Analyte List Parameters Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Depth:							
Sample Date:	4/9/92	4/10/92	4/13/92	4/14/92	4/16/92	4/21/92	4/23/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter							
Aluminum	–	–	–	–	–	–	–
Antimony	–	–	–	–	–	–	–
Arsenic	–	–	–	–	–	–	–
Barium	–	–	–	–	–	–	11.8
Beryllium	–	–	–	–	–	–	–
Cadmium	–	–	–	–	–	–	–
Calcium	66.0 B	80.6 B	92.9 B	84.9 B	113 B	138 B	–
Chromium	–	–	–	–	–	–	–
Cobalt	–	–	–	–	–	–	–
Copper	–	–	–	–	–	–	–
Iron	–	–	–	–	–	–	–
Lead	R	R	R	–	–	–	–
Magnesium	–	–	–	–	–	–	–
Manganese	–	–	–	–	–	–	–
Mercury	–	–	–	–	–	–	–
Nickel	–	–	–	–	–	–	–
Potassium	–	–	–	–	–	–	2180 B
Selenium	–	–	–	–	–	–	–
Sodium	–	–	–	–	–	–	–
Vanadium	–	–	–	–	–	–	–
Zinc	22.7 J	R	133 J	40.1	–	–	R
Cyanide	–	–	–	–	–	–	–

–	Not detected.
ug/L	Micrograms per liter.
mg/kg	Milligrams per kilogram.
J	Estimated value.
R	Unusable value.
B	Compound is between the contract required detection limit and the instrument detection limit.

Only those compounds detected are listed.

recycled paper

Table 5-11. Summary of Target Analyte List Parameters Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Depth:							
Sample Date:	4/27/92	5/4/92	5/5/92	5/6/92	5/7/92	5/8/92	5/13/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter							
Aluminum	–	–	–	–	–	–	–
Antimony	–	–	–	–	–	–	R
Arsenic	–	–	–	–	–	–	–
Barium	–	–	–	–	–	–	–
Beryllium	–	–	–	–	–	–	–
Cadmium	–	–	–	–	–	–	–
Calcium	18500	169 B	114 B	122 B	114 B	139 B	166 B
Chromium	–	–	–	–	–	–	–
Cobalt	–	–	–	–	–	–	–
Copper	–	–	–	–	–	–	–
Iron	–	–	–	–	–	–	–
Lead	–	–	–	–	–	–	–
Magnesium	6170	–	–	–	–	–	–
Manganese	–	–	–	–	–	–	–
Mercury	–	–	–	–	–	–	–
Nickel	–	–	–	–	–	–	–
Potassium	1690 B	–	–	–	–	–	–
Selenium	–	–	–	–	–	–	–
Sodium	9900	–	–	–	–	–	–
Vanadium	–	–	–	–	–	–	–
Zinc	539	34.9	–	–	–	23.9	–
Cyanide	–	–	–	–	–	–	–

–	Not detected.
ug/L	Micrograms per liter.
mg/kg	Milligrams per kilogram.
J	Estimated value.
R	Unusable value.
B	Compound is between the contract required detection limit and the instrument detection limit.

Only those compounds detected are listed.

Table 5-11. Summary of Target Analyte List Parameters Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Depth:							
Sample Date:	5/14/92	5/15/92	5/18/92	5/19/92	5/20/92	5/21/92	5/22/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter							
Aluminum	–	–	–	–	–	–	–
Antimony	R	R	R	–	–	–	–
Arsenic	–	–	–	–	–	–	–
Barium	–	–	–	–	–	–	–
Beryllium	–	–	–	–	–	–	–
Cadmium	–	–	–	–	–	–	–
Calcium	192 B	165 B	252 B	226 B	251 B	230 B	271 B
Chromium	–	–	–	–	–	–	–
Cobalt	–	–	–	–	–	–	–
Copper	–	–	–	–	–	–	–
Iron	–	–	–	–	–	–	327
Lead	–	–	–	–	–	–	–
Magnesium	–	–	–	–	–	–	–
Manganese	–	–	–	–	–	–	–
Mercury	–	–	–	–	–	–	–
Nickel	–	–	–	–	–	–	–
Potassium	–	–	–	–	–	–	–
Selenium	–	–	–	–	–	–	–
Sodium	–	–	525 B	–	512 B	–	547 B
Vanadium	–	–	–	–	–	–	–
Zinc	–	–	21.6	–	39.6	–	–
Cyanide	–	–	–	–	–	–	–

– Not detected.
ug/L Micrograms per liter.
mg/kg Milligrams per kilogram.
J Estimated value.
R Unusable value.
B Compound is between the contract required detection limit and the instrument detection limit.

Only those compounds detected are listed.

Table 5-11. Summary of Target Analyte List Parameters Detected in Subsurface Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location:	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Depth:				
Sample Date:	5/26/92	5/27/92	5/28/92	5/29/92
Units:	ug/L	ug/L	ug/L	ug/L
Parameter				
Aluminum	–	–	–	–
Antimony	–	–	–	–
Arsenic	–	–	–	–
Barium	–	–	–	–
Beryllium	–	–	–	–
Cadmium	–	–	–	–
Calcium	281 B	336 B	237 B	316 B
Chromium	–	–	–	–
Cobalt	–	–	–	–
Copper	–	–	–	–
Iron	145	2040	211	73.2 B
Lead	–	–	–	–
Magnesium	–	–	–	–
Manganese	–	10.6 B	–	–
Mercury	–	–	–	–
Nickel	–	–	–	–
Potassium	–	–	–	–
Selenium	–	–	–	–
Sodium	537 B	562 B	535 B	677 B
Vanadium	–	–	–	–
Zinc	–	20.8	–	–
Cyanide	–	–	–	–

–	Not detected.
ug/L	Micrograms per liter.
mg/kg	Milligrams per kilogram.
J	Estimated value.
R	Unusable value.
B	Compound is between the contract required detection limit and the instrument detection limit.

Only those compounds detected are listed.

Table 5-12. Concentrations of Total Extractable, Chromatographable, Semivolatile Organic Compounds in Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Boring Number	Depth (feet below land surface)	Concentration (mg/kg)
SB-1	10-12	13,400
SB-1	14-16	14,700
SB-1	24-26	890/790*
SB-2	8-10	64.0
SB-2	10-12	9,980
SB-2	34-35	320
SB-3	6-8	2,040/880*
SB-3	6-8 Clay	87.0
SB-3	10-12	4,850
SB-3	24-26 Clay	96.3
SB-3	24-26 Sand	115
SB-4	6-8	1,020
SB-4	18-20	7,010
SB-4	26-28 Clay	563
SB-4	26-28 Sand	454
SB-5	10-12	11,500
SB-5	14-16	4,840
SB-5	26-28	619
SB-6	14-16	2,490
SB-6	16-18	4,930/4,220*
SB-6	22-24	4,660
SB-7	10-12	1,700
SB-7	18-20	5,440
SB-7	22-24	4,920
SB-8	10-12	981/1,670*
SB-9	14-16	8,160
SB-9	14-16 Clay	4,770
SB-9	16-18	834
SB-9	24-26	42.5
SB-10	4-6	2.20
SB-10	4-6 Clay	ND
SB-10	16-18	994
SB-10	26-28	205
SB-11	12-14	2,080
SB-11	20-22	31.1/2.80*
SB-11	28-30	4.00
SB-12	12-14	17,400
SB-12	16-18	9,850
SB-12	24-26	1,260
SB-13	14-16	ND
SB-13	20-22	1.90
SB-13	28-30	ND

See footnotes on page 2.

Recycled paper

Table 5-12. Concentrations of Total Extractable, Chromatographable, Semivolatile Organic Compounds in Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Boring Number	Depth (feet below land surface)	Concentration (mg/kg)
SB-14	6-8	ND
SB-14	22-24	1060
SB-14	28-30	1520
SB-15	14-16	58.9
SB-15	20-22	969
SB-15	28-30	1.00/ND*
SB-16	14-16	136.8
SB-16	18-20	413
SB-16	26-28	108

mg/kg Milligrams per kilogram.
ND Not detected.
* Duplicate analysis.

Table 5-13. Concentrations of Carbon and Chlorine Detected in Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location	Sample Depth	Sample Date	Total Organic Carbon	Total Halogens Calculated as Chlorine	Total Halides Calculated as Chloride	Total Organic Halogens Calculated as Chlorine (by difference)
SB-1	0-2 ft	4/9/92	16,200	19	<3	19
SB-1	2-4 ft	4/9/92	1,400	19	5	14
SB-1	4-6 ft	4/9/92	189,600	3,500	10	3,500
SB-1	6-8 ft	4/9/92	185,200	22,600	27	22,600
SB-1	16-18 ft	4/9/92	18,800	2,400	65	2,400
SB-1	18-20 ft	4/9/92	21,700	4,300	41	4,300
SB-1	22-24 ft	4/9/92	23,800	3,800	42	3,800
SB-1	28-30 ft	4/9/92	5,500	657	74	583
SB-1	30-32 ft	4/9/92	8,800	3,100	76	3,100
SB-1	34-36 ft	4/9/92	11,300	2,100	279	1,800
SB-2	0-2 ft	4/10/92	2,200	24	<4	24
SB-2	2-4 ft	4/10/92	1,800	26	10	16
SB-2	4-6 ft	4/10/92	2,700	44	18	26
SB-2	6-8 ft	4/10/92	123,400	133	26	107
SB-2	16-18 ft	4/10/92	124,800	26,400	32	26,400
SB-2	18-20 ft	4/13/92	55,800	8,100	38	8,100
SB-2	20-22 ft	4/13/92	18,900	4,700	53	4,600
SB-2	22-24 ft	4/13/92	14,200	5,200	63	5,100
SB-2	24-26 ft	4/13/92	16,100	2,000	65	1,900
SB-2	26-28 ft	4/13/92	23,100	9,200	69	9,100
SB-2	30-32 ft	4/13/92	25,700	6,700	85	6,600
SB-2	32-34 ft	4/13/92	12,300	3,200	43	3,200
SB-3	0-2 ft	4/16/92	1,200	15	<4	15
SB-3	2-4 ft	4/16/92	2,100	20	6	14
SB-3	4-6 ft	4/16/92	1,300	67	7	60
SB-3	8-10 ft	4/16/92	182,400	71,700	11	71,700
SB-3	16-18 ft	4/16/92	227,500	80,600	61	80,600
SB-3	18-20 ft	4/16/92	19,800	2,800	120	2,700
SB-3	20-22 ft	4/16/92	2,000	1,800	37	1,800
SB-3	22-24 ft	4/16/92	2,200	217	22	195
SB-3	26-28 ft	4/16/92	3,800	339	61	278

Concentrations are in milligrams per kilogram (mg/kg) for soil samples and milligrams per liter (mg/L) for water samples.

ft Feet.

Table 5-13. Concentrations of Carbon and Chlorine Detected in Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location	Sample Depth	Sample Date	Total Organic Carbon	Total Halogens Calculated as Chlorine	Total Halides Calculated as Chloride	Total Organic Halogens Calculated as Chlorine (by difference)
SB-3	28-30 ft	4/16/92	7,400	1,000	140	900
SB-3	30-32 ft	4/16/92	19,900	5,200	200	5,000
SB-3	34-35 ft	4/16/92	12,000	5,700	63	5,700
SB-4	0-2 ft	4/14/92	1,600	22	8	15
SB-4	2-4 ft	4/14/92	2,000	29	13	16
SB-4	4-6 ft	4/14/92	7,500	109	67	42
SB-4	8-10 ft	4/14/92	90,100	13,100	96	13,100
SB-4	14-16 ft	4/14/92	458,800	7,100	99	7,100
SB-4	16-18 ft	4/14/92	209,800	40,900	250	40,700
SB-4	20-22 ft	4/14/92	45,300	9,000	200	8,800
SB-4	22-24 ft	4/14/92	34,200	5,500	250	5,300
SB-4	24-26 ft	4/14/92	3,600	1,400	150	1,300
SB-4	28-30 ft	4/14/92	18,700	1,300	330	1,000
SB-4	32-34 ft	4/14/92	44,800	8,200	560	7,600
SB-4	34-35 ft	4/14/92	41,200	11,400	460	10,900
SB-5	0-2 ft	5/4/92	1,900	177.0	134.0	43.0
SB-5	2-4 ft	5/4/92	1,500	198.0	10	98.0
SB-5	4-6 ft	5/4/92	226,900	251	50	201
SB-5	6-8 ft	5/4/92	128,800	3,000	290	2,700
SB-5	8-10 ft	5/4/92	167,300	27,000	155	26,700
SB-5	16-18 ft	5/4/92	141,700	24,700	104	24,600
SB-5	18-20 ft	5/4/92	39,600	24,700	157	24,500
SB-5	22-24 ft	5/4/92	64,300	53,500	355	53,100
SB-5	24-26 ft	5/4/92	27,200	11,200	940	10,300
SB-5	30-32 ft	5/4/92	11,500	2,400	741	1,600
SB-5	32-34 ft	5/4/92	6,600	6,300	692	5,600
SB-5	34-36 ft	5/4/92	22,100	8,300	509	7,800
SB-6	0-2 ft	5/5/92	21,100	320	106	309
SB-6	2-4 ft	5/5/92	1,000	129	7.0	59
SB-6	4-6 ft	5/5/92	2,600	217	10.0	117
SB-6	6-8 ft	5/5/92	67,800	3,200	766	3,100

Concentrations are in milligrams per kilogram (mg/kg) for soil samples and milligrams per liter (mg/L) for water samples.

ft Feet.

Table 5-13. Concentrations of Carbon and Chlorine Detected in Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location	Sample Depth	Sample Date	Total Organic Carbon	Total Halogens Calculated as Chlorine	Total Halides Calculated as Chloride	Total Organic Halogens Calculated as Chlorine (by difference)
SB-6	8-10 ft	5/5/92	233,300	11,500	382	11,500
SB-6	10-12 ft	5/5/92	144,600	18,700	449.0	18,600
SB-6	12-14 ft	5/5/92	220,600	15,600	121	15,500
SB-6	24-26 ft	5/6/92	25,700	10,200	130	10,100
SB-6	26-28 ft	5/6/92	26,800	12,500	300	12,200
SB-6	30-32 ft	5/6/92	30,200	6,900	310	6,600
SB-6	32-34 ft	5/6/92	22,300	6,000	820	5,200
SB-6	34-35 ft	5/6/92	19,700	3,300	810	2,500
SB-7	0-2 ft	5/7/92	6,000	21	5	16
SB-7	2-4 ft	5/7/92	1,400	21	13	8
SB-7	4-6 ft	5/7/92	112,000	2,300	26	2,300
SB-7	6-8 ft	5/7/92	108,500	168	23	145
SB-7	8-10 ft	5/7/92	341,000	1,100	21	1,100
SB-7	12-14 ft	5/7/92	121,400	14,700	31	14,700
SB-7	14-16 ft	5/7/92	200,000	51,000	32	51,000
SB-7	26-28 ft	5/7/92	21,700	11,700	420	11,300
SB-7	28-30 ft	5/7/92	28,900	8,500	230	8,300
SB-7	30-32 ft	5/7/92	16,400	10,400	190	10,300
SB-7	32-34 ft	5/7/92	73,100	32,100	440	31,700
SB-7	34-35 ft	5/7/92	21,400	15,100	780	14,300
SB-8	0-2 ft	5/8/92	4,500	178	89	89
SB-8	2-4 ft	5/8/92	<100	132	78	54
SB-8	4-6 ft	5/8/92	1,700	226	77	149
SB-8	8-10 ft	5/8/92	621,300	19,200	467.0	19,200
SB-9	0-2 ft	5/12/92	4,100	56	47	9
SB-9	2-4 ft	5/12/92	131,300	672	190	482
SB-9	4-6 ft	5/12/92	700	1,900	649	1,200
SB-9	6-8 ft	5/12/92	2,900	3,000	857	2,100
SB-9	8-10 ft	5/12/92	365,100	11,400	111	11,300
SB-9	12-14 ft	5/12/92	250,600	2,700	411	2,300
SB-9	26-28 ft	5/12/92	7,500	1,800	626	1,200

Concentrations are in milligrams per kilogram (mg/kg) for soil samples and milligrams per liter (mg/L) for water samples.

ft Feet.

Recycled paper

Table 5-13. Concentrations of Carbon and Chlorine Detected in Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location	Sample Depth	Sample Date	Total Organic Carbon	Total Halogens Calculated as Chlorine	Total Halides Calculated as Chloride	Total Organic Halogens Calculated as Chlorine (by difference)
SB-9	32-34 ft	5/12/92	20,200	5,900	789	5,200
SB-9	34-35 ft	5/12/92	11,800	3,100	1,000	2,100
SB-10	0-2 ft	5/14/92	21,700	26	9	17
SB-10	2-4 ft	5/14/92	7,500	30	28	2
SB-10	8-10 ft	5/14/92	178,500	6,200	1,400	4,800
SB-10	10-12 ft	5/14/92	260,400	5,300	1,600	3,700
SB-10	12-14 ft	5/14/92	179,300	5,000	2,200	2,800
SB-10	14-16 ft	5/14/92	198,500	4,500	414	4,100
SB-10	20-22 ft	5/14/92	21,400	6,300	133	6,200
SB-10	22-24 ft	5/14/92	12,300	1,300	238	1,100
SB-10	28-30 ft	5/14/92	2,800	2,200	244	2,000
SB-10	30-32 ft	5/14/92	8,100	1,100	357	735
SB-10	32-34 ft	5/14/92	11,100	2,100	910	1,200
SB-10	34-35 ft	5/14/92	15,000	4,200	1,200	3,000
SB-11	0-2 ft	5/19/92	3,800	19	5	1
SB-11	2-4 ft	5/19/92	38,600	188	111	77
SB-11	4-6 ft	5/19/92	100,500	297	167	130
SB-11	6-8 ft	5/19/92	334,600	181	97	84
SB-11	8-10 ft	5/19/92	137,000	1,200	270	900
SB-11	10-12 ft	5/19/92	146,500	999	322	677
SB-11	18-20 ft	5/19/92	18,100	1,600	1,900	<100
SB-11	22-24 ft	5/19/92	3,200	3,500	3,000	500
SB-11	24-26 ft	5/20/92	3,700	3,200	2,900	300
SB-11	26-28 ft	5/20/92	1,600	1,900	1,600	300
SB-11	32-34 ft	5/20/92	5,100	649	442	207
SB-11	34-35 ft	5/20/92	1,800	503	471	32
SB-12	0-2 ft	5/15/92	18,100	25	4	21
SB-12	2-4 ft	5/15/92	1,700	19	8	11
SB-12	4-6 ft	5/15/92	1,450	17	6	11
SB-	6-8 ft	5/15/92	159,500	48	13	35
SB-12	10-12 ft	5/15/92	152,300	468	125	343

Concentrations are in milligrams per kilogram (mg/kg) for soil samples and milligrams per liter (mg/L) for water samples.

ft Feet.

Table 5-13. Concentrations of Carbon and Chlorine Detected in Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location	Sample Depth	Sample Date	Total Organic Carbon	Total Halogens Calculated as Chlorine	Total Halides Calculated as Chloride	Total Organic Halogens Calculated as Chlorine (by difference)
SB-12	14-16 ft	5/15/92	119,900	546	261	285
SB-12	18-20 ft	5/18/92	509,900	11,000	4,700	6,300
SB-12	20-22 ft	5/18/92	48,100	11,200	7,000	4,200
SB-12	26-28 ft	5/18/92	43,100	3,000	1,900	1,100
SB-12	28-30 ft	5/18/92	16,500	2,200	550	1,600
SB-12	30-32 ft	5/18/92	17,200	2,100	1,400	700
SB-12	34-35 ft	5/18/92	33,100	3,600	2,400	1,200
SB-13	0-2 ft	5/21/92	2,700	184.0	<3	18
SB-13	2-4 ft	5/21/92	1,300	15	5	10
SB-13	4-6 ft	5/21/92	5,800	19	6	13
SB-13	6-8 ft	5/21/92	84,200	27	6	21
SB-13	8-10 ft	5/21/92	40,000	<15	14	<1
SB-13	10-12 ft	5/21/92	41,500	12	15	<1
SB-13	12-14 ft	5/21/92	54,500	36	40	<1
SB-13	22-24 ft	5/21/92	2,900	121	57	64
SB-13	24-26 ft	5/21/92	100	20	11	9
SB-13	26-28 ft	5/21/92	250	20	6	14
SB-13	32-34 ft	5/21/92	6,300	420	472	<1
SB-13	34-35 ft	5/21/92	2,000	487	298	189
SB-14	0-2 ft	5/22/92	3,500	903.0	202.0	701.0
SB-14	2-4 ft	5/22/92	2,400	144	212.0	123
SB-14	4-6 ft	5/22/92	14,900	651	140	511
SB-14	8-10 ft	5/22/92	255,100	696	698	<5
SB-14	12-14 ft	5/26/92	129,000	1,300	1,000	300
SB-14	14-16 ft	5/26/92	126,500	4,200	3,000	1,200
SB-14	16-18 ft	5/26/92	175,800	1,100	920	180
SB-14	18-20 ft	5/26/92	206,500	650	362	288
SB-14	24-26 ft	5/26/92	20,500	5,900	420	5,500
SB-14	26-28 ft	5/26/92	37,700	2,900	420	2,500
SB-14	32-34 ft	5/26/92	16,500	3,200	1,100	2,100
SB-14	34-35 ft	5/26/92	35,900	3,800	890	2,900

Concentrations are in milligrams per kilogram (mg/kg) for soil samples and milligrams per liter (mg/L) for water samples.

ft Feet.

Recycled paper

Table 5-13. Concentrations of Carbon and Chlorine Detected in Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location	Sample Depth	Sample Date	Total Organic Carbon	Total Halogens Calculated as Chlorine	Total Halides Calculated as Chloride	Total Organic Halogens Calculated as Chlorine (by difference)
SB-15	0-2 ft	5/27/92	2,200	17	<3	17
SB-15	2-4 ft	5/27/92	3,800	22	6	16
SB-15	4-6 ft	5/27/92	5,400	26	21	5
SB-15	6-8 ft	5/27/92	26,300	467	86	381
SB-15	8-10 ft	5/27/92	32,200	138	61	77
SB-15	10-12 ft	5/27/92	19,500	207	75	132
SB-15	12-14 ft	5/27/92	46,100	114	38	76
SB-15	22-24 ft	5/28/92	8,500	877	331	546
SB-15	24-26 ft	5/28/92	1,900	408	191	217
SB-15	30-32 ft	5/28/92	4,900	677	272	405
SB-15	32-34 ft	5/28/92	10,100	3,200	1,200	2,000
SB-16	0-2 ft	5/29/92	5,800	189.0	<4	<189
SB-16	2-4 ft	5/29/92	8,500	207.0	53.0	154.0
SB-16	4-6 ft	5/29/92	2,200	477.0	402.0	75.0
SB-16	8-10 ft	5/29/92	152,800	3,300	45	3,200
SB-16	10-12 ft	5/29/92	229,200	1,100	66	1,000
SB-16	12-14 ft	5/29/92	85,600	920	68	850
SB-16	20-22 ft	5/29/92	9,300	740	230	510
SB-16	22-24 ft	5/29/92	600	797.0	603.0	194.0
SB-16	24-26 ft	5/29/92	3,000	405	277	128
SB-16	32-34 ft	5/29/92	12,100	3,700	1,600	2,100
SB-16	34-35 ft	5/29/92	15,900	444	484	<5
Field Blank		4/9/92	8	<5	<5	<5
Field Blank		4/10/92	10	<5	<5	<5
Field Blank		4/13/92	6	41.0	39.0	2.0
Field Blank		4/14/92	<5	<5	<5	<5
Field Blank		4/16/92	6	<5	<5	<5
Field Blank		5/4/92	<1	<8	<8	<8

Concentrations are in milligrams per kilogram (mg/kg) for soil samples and milligrams per liter (mg/L) for water samples.

ft Feet.

Table 5-13. Concentrations of Carbon and Chlorine Detected in Soil Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Sample Location	Sample Depth	Sample Date	Total Organic Carbon	Total Halogens Calculated as Chlorine	Total Halides Calculated as Chloride	Total Organic Halogens Calculated as Chlorine (by difference)
Field Blank		5/5/92	<1	57.0	44.0	13.0
Field Blank		5/6/92	<1	<5	<5	<5
Field Blank		5/7/92	<1	<5	<5	<5
Field Blank		5/8/92	<1	<5	<5	<5
Field Blank		5/12/92	<1	10	5	5
Field Blank		5/14/92	<1	<5	<5	<5
Field Blank		5/15/92	<1	<5	<5	<5
Field Blank		5/19/92	<1	5	<5	5
Field Blank		5/20/92	<1	<5	<5	<5
Field Blank		5/21/92	<1	<5	<5	<5
Field Blank		5/22/92	<1	<5	<5	<5
Field Blank		5/26/92	<1	<5	<5	<5
Field Blank		5/27/92	<1	5	<5	5
Field Blank		5/28/92	<1	<5	<5	<5
Field Blank		5/29/92	<1	<5	<5	<5

Concentrations are in milligrams per kilogram (mg/kg) for soil samples and milligrams per liter (mg/L) for water samples.

ft Feet.

NOTE: THE DATA PRESENTED IN THIS SECTION IS PRESENTED IN THE ORIGINAL REPORT FORMAT.

SOURCE: "REMEDIAL INVESTIGATION AT SAUGET SITE R"
Geraghty & Miller, 1994

REMEDIAL INVESTIGATION FOR THE EXPANDED STUDY AREA SAUGET, ILLINOIS

August 1994

RECEIVED
JUL 3 1 1996
IEPA/BOL

Prepared for

Monsanto Company
800 North Lindbergh Boulevard
St. Louis, Missouri 63167

Prepared by

Geraghty & Miller, Inc.
125 East Bethpage Road
Plainview, New York 11801

recycled paper
recycled paper

ORIGINAL
ecology and environment
SCREENED

Table 5-4 Summary of Target Compound List Volatile Organic Compounds Detected in Soil Samples, Expanded Study Area, Sauget, Illinois

Parameter	Sample Location	SB-17	SB-17	SB-17	SB-18	SB-18	SB-18	SB-18	SB-18	SB-19	SB-19
	Sample Depth	14-16 ft	18-20 ft	34-36 ft	16-18 ft	18-20 ft	24-26 ft	28-30 ft	30-32 ft	22-24 ft	24-26 ft
	Sample Date	4/27/92	4/27/92	4/27/92	4/23/92	4/23/92	4/23/92	4/23/92	4/23/92	4/21/92	4/21/92
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Methylene chloride		--	560 J	--	--	--	--	--	--	--	--
Acetone		310 EJ	1800 EJ	--	--	--	--	--	--	--	--
2-Butanone (MEK)		9 J	2100	1800	--	--	12 J	9 J	3 J	--	--
Benzene		--	--	--	--	--	--	--	--	--	300 J
4-Methyl-2-pentanone		--	--	--	--	--	--	--	--	--	--
Tetrachloroethene		2 J	7 J	--	2 J	--	--	2 J	--	--	--
Toluene		--	4 J	--	--	--	--	--	--	--	--
Chlorobenzene		--	--	--	8 J	2 J	19	29	9 J	4400 J	670 J
Ethylbenzene		--	--	--	--	--	--	--	--	--	880 J
Xylenes		4 J	23	--	--	--	--	--	--	3500 J	4500
Total VOCs		325	4494	1800	10	2	31	40	12	7900	6350

ug/L Micrograms per liter
ug/kg Micrograms per kilogram.
ft Feet.
-- Not detected.
E Concentration is above the calibration range of the instrument.
J Estimated value.
VOCs Volatile organic compounds

Only those compounds detected are listed.

Table 5-4. Summary of Target Compound List Volatile Organic Compounds Detected in Soil Samples, Expanded Study Area, Sauget, Illinois

Parameter	Sample Location: SB-19 Sample Depth: 32-34 ft Sample Date: 4/21/92 Units: ug/kg	Trip Blank 4/23/92 ug/L	Trip Blank 4/27/92 ug/L	Equipment Blank 4/23/92 ug/L	Equipment Blank 4/27/92 ug/L
Methylene chloride	--	--	--	--	--
Acetone	--	21 J	4 J	--	--
2-Butanone (MEK)	--	--	--	--	--
Benzene	--	--	--	--	--
4-Methyl-2-pentanone	240000 J	--	--	--	--
Tetrachloroethene	1400000 J	--	--	--	--
Toluene	--	--	--	--	--
Chlorobenzene	--	--	--	--	--
Ethylbenzene	--	--	--	--	--
Xylenes	--	--	--	--	--
Total VOCs	1640000	21	4	--	--

ug/L Micrograms per liter.
ug/kg Micrograms per kilogram.
ft Feet.
-- Not detected.
E Concentration is above the calibration range of the instrument.
J Estimated value.
VOCs Volatile organic compounds

Only those compounds detected are listed.

Table 5-5. Summary of Target Compound List Semivolatile Organic Compounds Detected in Soil Samples, Expanded Study Area, Sauget, Illinois.

Parameter	Sample Location:	SB-17	SB-17	SB-17	SB-18	SB-18	SB-18
	Sample Depth:	14-16 ft	18-20 ft	34-36 ft	16-18 ft	18-20 ft	24-26 ft
	Sample Date:	4/27/92	4/27/92	4/27/92	4/23/92	4/23/92	4/23/92
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Phenol		–	–	–	540	–	–
2-Chlorophenol		–	–	–	–	–	–
1,3-Dichlorobenzene		–	–	–	–	–	–
1,4-Dichlorobenzene		55 J	–	18 J	–	–	–
1,2-Dichlorobenzene		18 J	–	–	–	44 J	44 J
2-Methylphenol (o-cresol)		–	–	–	290 J	–	–
4-Methylphenol (p-cresol)		–	–	–	540	–	–
2,4-Dimethylphenol		–	–	–	37 J	–	–
2,4-Dichlorophenol		–	–	–	–	–	–
1,2,4-Trichlorobenzene		17 J	–	–	–	–	–
Naphthalene		–	–	–	–	29 J	–
2-Methylnaphthalene		14 J	–	9 J	–	15 J	–
2,4,6-Trichlorophenol		–	–	–	–	–	27 J
Acenaphthene		–	–	–	–	14 J	–
Dibenzofuran		–	–	–	–	11 J	–
Fluorene		–	–	–	–	14 J	8 J
Pentachlorophenol		–	240 J	–	–	–	–
Phenanthrene		–	–	–	–	140 J	76 J
Anthracene		–	–	–	–	30 J	17 J
Carbazole		–	–	–	–	–	8 J
Di-n-butylphthalate		–	–	–	–	–	–
Fluoranthene		30 J	13 J	–	21 J	180 J	110 J
Pyrene		31 J	15 J	–	21 J	140 J	82 J
Butylbenzylphthalate		–	–	–	–	–	–
Benzo(a)anthracene		–	–	–	–	68 J	41 J
Chrysene		–	–	–	–	70 J	44 J
bis(2-Ethylhexyl)phthalate		1200	–	–	–	–	–
Di-n-octylphthalate		95 J	80 J	14 J	–	73 J	41 J
Benzo(b)fluoranthene		–	–	–	–	49 J	34 J
Benzo(k)fluoranthene		–	–	–	–	45 J	27 J
Benzo(a)pyrene		–	–	–	10 J	50 J	31 J
Indeno(1,2,3-cd)pyrene		–	–	–	–	29 J	9 J
Dibenzo(a,h)anthracene		–	–	–	–	–	–
Benzo(g,h,i)perylene		–	–	–	–	30 J	18 J
2-Chloroaniline		17 J	–	–	–	9 J	350 J
Total SVOCs		1477	348	41	1459	1040	967

ug/L Micrograms per liter.
J Estimated value.
ug/kg Micrograms per kilogram.
D Compound determined at a secondary dilution value.
ft Feet.
– Not detected.
SVOCs Semivolatile organic compounds.

Only those compounds detected are listed.

Recycled paper

Table 5-5. Summary of Target Compound List Semivolatile Organic Compounds Detected in Soil Samples, Expanded Study Area, Sauget, Illinois.

Parameter	Sample Location:	SB-18	SB-18	SB-19	SB-19	SB-19	Equipment Blank
	Sample Depth:	28-30 ft	30-32 ft	22-24 ft	24-26 ft	32-34 ft	
	Sample Date:	4/23/92	4/23/92	4/21/92	4/21/92	4/21/92	4/23/92
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L
Phenol		–	–	–	1400 J	430 DJ	–
2-Chlorophenol		–	–	–	200 J	–	–
1,3-Dichlorobenzene		–	–	33 J	240 J	17 J	–
1,4-Dichlorobenzene		–	–	530	4700	320 J	–
1,2-Dichlorobenzene		76 J	–	510	2100 J	140 J	–
2-Methylphenol (o-cresol)		–	–	–	–	–	–
4-Methylphenol (p-cresol)		–	–	–	–	57 J	–
2,4-Dimethylphenol		–	–	–	–	–	–
2,4-Dichlorophenol		–	–	630	3300 J	800	–
1,2,4-Trichlorobenzene		–	–	–	960 J	63 J	–
Naphthalene		–	–	290 J	1300 J	120 DJ	–
2-Methylnaphthalene		–	–	–	4100 J	330 J	–
2,4,6-Trichlorophenol		–	–	–	–	–	–
Acenaphthene		–	–	110 J	–	–	–
Dibenzofuran		–	–	–	–	–	–
Fluorene		–	–	–	1400 DJ	57 DJ	–
Pentachlorophenol		–	48 J	–	–	–	–
Phenanthrene		–	–	500	5300	410 J	–
Anthracene		–	–	–	2600 DJ	100 DJ	–
Carbazole		–	–	–	–	–	–
Di-n-butylphthalate		–	–	190 J	3400 J	230 J	–
Fluoranthene		10 J	–	98 J	1800 J	–	–
Pyrene		9 J	–	490	11000	530	–
Butylbenzylphthalate		–	–	–	–	120 J	–
Benzo(a)anthracene		–	–	250 J	5400	320 DJ	–
Chrysene		–	–	410	9000	440 J	–
bis(2-Ethylhexyl)phthalate		–	–	4200 D	110000 D	5000 D	13 J
Di-n-octylphthalate		–	31 J	150 J	–	95 DJ	–
Benzo(b)fluoranthene		–	–	140 J	–	150 J	–
Benzo(k)fluoranthene		–	–	– J	3800 J	–	–
Benzo(a)pyrene		–	–	140 J	3700 J	330 J	–
Indeno(1,2,3-cd)pyrene		–	–	14 J	310 J	–	–
Dibenzo(a,h)anthracene		–	–	52 J	1500 J	54 J	–
Benzo(g,h,i)perylene		–	–	140 J	2700 J	150 J	–
2-Chloroaniline		16 J	–	1300	4800	1100	–
Total SVOCs		111	79	10177	185010	11363	13

ug/L	Micrograms per liter.
J	Estimated value.
ug/kg	Micrograms per kilogram.
D	Compound determined at a secondary dilution value.
ft	Feet.
–	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-5. Summary of Target Compound List Semivolatile Organic Compounds Detected in Soil Samples, Expanded Study Area, Sauget, Illinois.

Parameter	Sample Location: Equipment Blank Sample Depth: Sample Date: 4/27/92 Units: ug/L
Phenol	0.4 J
2-Chlorophenol	–
1,3-Dichlorobenzene	–
1,4-Dichlorobenzene	–
1,2-Dichlorobenzene	–
2-Methylphenol (o-cresol)	–
4-Methylphenol (p-cresol)	–
2,4-Dimethylphenol	–
2,4-Dichlorophenol	–
1,2,4-Trichlorobenzene	–
Naphthalene	0.7 J
2-Methylnaphthalene	–
2,4,6-Trichlorophenol	–
Acenaphthene	–
Dibenzofuran	–
Fluorene	–
Pentachlorophenol	–
Phenanthrene	–
Anthracene	–
Carbazole	–
Di-n-butylphthalate	–
Fluoranthene	–
Pyrene	–
Butylbenzylphthalate	–
Benzo(a)anthracene	–
Chrysene	–
bis(2-Ethylhexyl)phthalate	–
Di-n-octylphthalate	–
Benzo(b)fluoranthene	–
Benzo(k)fluoranthene	–
Benzo(a)pyrene	–
Indeno(1,2,3-cd)pyrene	–
Dibenzo(a,h)anthracene	–
Benzo(g,h,i)perylene	–
2-Chloroaniline	–
Total SVOCs	1.1

ug/L	Micrograms per liter.
J	Estimated value.
ug/kg	Micrograms per kilogram.
D	Compound determined at a secondary dilution value.
ft	Feet.
–	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

Table 5-6 Summary of Target Compound List Pesticides and PCBs Detected in Soil Samples, Expanded Study Area, Sauget, Illinois

Sample Location:	SB-17	SB-17	SB-17	SB-18	SB-18	SB-18	SB-18	SB-18	SB-19	SB-19	SB-19	Equipment Blank	Equipment Blank
Sample Depth:	14-16 ft	18-20 ft	34-36 ft	16-18 ft	18-20 ft	24-26 ft	28-30 ft	30-32 ft	22-24 ft	24-26 ft	32-34 ft		
Sample Date:	4/27/92	4/27/92	4/27/92	4/23/92	4/23/92	4/23/92	4/23/92	4/23/92	4/21/92	4/21/92	4/21/92	4/23/92	4/27/92
Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L	ug/L
Parameter													
delta-BHC	--	R	--	--	--	--	--	--	R	26 J	--	--	--
4,4'-DDE	180	R	--	--	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	--	R	--	--	--	--	--	--	--	16 J	--	--	--
Aroclor-1248	2400 JN	R	--	--	--	--	--	--	1100 J	2400 JN	1200 J	--	--
Aroclor-1254	--	R	--	--	--	--	--	--	730	1700 J	760	--	--
Aroclor-1260	6600	R	--	--	--	--	--	--	360	1500 JN	370	--	--

ug/kg Micrograms per kilogram.
ug/L Micrograms per liter.
ft Feet.
J Estimated value.
R Unusable value.
N Presumptive evidence of the compound present.
-- Not detected.

Only those compounds detected are listed.

Table 5-7 Summary of Target Analyte List Parameters Detected in Soil Samples, Expanded Study Area, Sauget, Illinois.

Sample Location:	SB-17	SB-17	SB-17	SB-18	SB-18	SB-18	SB-18
Sample Depth:	14-16 ft	18-20 ft	34-36 ft	16-18 ft	18-20 ft	24-26 ft	28-30 ft
Sample Date:	4/27/92	4/27/92	4/27/92	4/23/92	4/23/92	4/23/92	4/23/92
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Parameter							
Aluminum	7270	10800	1380	4940	2400	5450	6660
Arsenic	4.2	6.0	–	2.8	–	–	3.3
Barium	185	207	32.9 B	196	63.9	142	268
Cadmium	–	–	–	–	–	–	–
Calcium	–	–	–	–	–	–	–
Chromium	18.9 J	18.2 J	11.8 J	13.2	8.2	11.5	12.5
Cobalt	6.6 B	7.4 B	–	5.4 B	3.4 B	5.8 B	6.5 B
Copper	25.1	19.5	–	11.5	–	9.2	9.6
Iron	9630	16000	3960	8700	6210	11600	13600
Lead	14.0	11.1	2.3	6.6	4.3	5.7	6.6
Magnesium	–	–	–	–	–	–	–
Manganese	209	384	49.6	147	75.7	289	264
Mercury	0.15	0.07	–	–	–	–	–
Nickel	19.3	19.1	–	14.0	8.7	13.4	16.0
Potassium	–	1830	–	–	–	–	–
Sodium	–	–	–	–	–	–	–
Vanadium	27.4	28.7	5.3 B	25.0	11.1	16.3	21.1
Zinc	–	–	–	R	R	R	R

–	Not detected.
ug/L	Micrograms per liter.
mg/kg	Milligrams per kilogram.
ft	Feet.
J	Estimated value.
R	Unusable value.
B	Compound is between the contract required detection limit and the instrument detection limit.
N	Presumptive evidence of the compound present.

Only those compounds detected are listed.

Table 5-7. Summary of Target Analyte List Parameters Detected in Soil Samples, Expanded Study Area, Sauget, Illinois.

Sample Location:	SB-18	SB-19	SB-19	SB-19	Equipment Blank	Equipment Blank
Sample Depth:	30-32 ft	22-24 ft	24-26 ft	32-34 ft		
Sample Date:	4/23/92	4/22/92	4/22/92	4/22/92	4/23/92	4/27/92
Units:	mg/kg	mg/kg	mg/kg	mg/kg	ug/L	ug/L
Parameter						
Aluminum	1980	4050	5270	6200	–	–
Arsenic	2.3	5.4 JN	4.1 JN	5.5 JN	–	–
Barium	64.9	320 JN	211 JN	201 JN	11.8	–
Cadmium	–	1.2 JN	–	–	–	–
Calcium	–	10700	15200	16700	–	18500
Chromium	6.0	124 JN	18.5 JN	12.3 JN	–	–
Cobalt	2.4	5.1 B	6.2 B	6.8 B	–	–
Copper	–	28.3	15.2	12.1	–	–
Iron	5360	11800	12700	13400	–	–
Lead	2.3	16.6 JN	12.6 JN	9.8 JN	–	–
Magnesium	–	4140	6210	6590	–	6170
Manganese	83.7	162 J	375 J	364 J	–	–
Mercury	–	0.07	–	–	–	–
Nickel	–	14.4	16.5	16.7	–	–
Potassium	–	1020 B	1510	1420	2180 B	1690 B
Sodium	–	178 B	302 B	838 B	–	9900
Vanadium	7.8	21.0	19.1	21.0	–	–
Zinc	R	273 JN	144 JN	49.3 JN	R	539

–	Not detected.
ug/L	Micrograms per liter.
mg/kg	Milligrams per kilogram.
ft	Feet.
J	Estimated value.
R	Unusable value.
B	Compound is between the contract required detection limit and the instrument detection limit.
N	Presumptive evidence of the compound present.

Only those compounds detected are listed.

Table 5-8. Concentrations of Total Extractable, Chromatographable, Semivolatile Organic Compounds in Soil Samples, Expanded Study Area, Sauget, Illinois.

Boring Number	Depth	Concentration (mg/kg)
SB-17	2-4	ND
SB-17	12-14	ND
SB-17	22-24	ND
SB-18	2-4	2.60
SB-18	14-16	ND
SB-18	22-24	ND/ND*
SB-19	4-6	4.20
SB-19	20-22 Clay	8.50
SB-19	20-22 Paper	188
SB-19	20-22 Sand	127
SB-19	30-32	ND

mg/kg Milligrams per kilogram.
* Duplicate analysis.
ND Not detected.

Depths in feet below land surface.

Table 5-9 Concentrations of Carbon and Chlorine Detected in Soil Samples, Expanded Study Area, Sauget, Illinois.

Sample Location	Sample Depth	Sample Date	Total Organic Carbon	Total Halogens Calculated as Chlorine	Total Halides Calculated as Chloride	Total Organic Halogens Calculated as Chlorine (by difference)
SB-17	0-2 ft	4/27/92	591,000	593	7	586
SB-17	4-6 ft	4/27/92	371,700	30	8	22
SB-17	18-10 ft	4/27/92	41,500	30	<3	30
SB-17	10-12 ft	4/27/92	23,100	24	14	10
SB-17	16-18 ft	4/27/92	10,400	24	16	8
SB-17	20-22 ft	4/27/92	20,400	18	17	1
SB-17	24-26 ft	4/27/92	8,200	174	84	90
SB-17	26-28 ft	4/27/92	2,200	216	52	164
SB-17	28-30 ft	4/27/92	9,600	107	46	61
SB-17	30-32 ft	4/27/92	1,800	97	98	<1
SB-17	32-34 ft	4/27/92	1,100	31	26	5
SB-17	36-38	4/27/92	1,800	82	9	73
SB-18	0-2 ft	4/23/92	241,300	171	80	91
SB-18	4-6 ft	4/23/92	188,100	149	50	99
SB-18	6-8 ft	4/23/92	25,800	105	74	31
SB-18	8-10 ft	4/23/92	55,200	93	78	1
SB-18	10-12 ft	4/23/92	25,400	90	58	32
SB-18	12-14 ft	4/23/92	45,900	75	64	11
SB-18	20-22 ft	4/23/92	10,100	13	5	8
SB-18	26-28 ft	4/23/92	8,200	119	119	<1
SB-18	32-34 ft	4/23/92	560	51	37	14
SB-19	0-2 ft	4/21/92	12,900	92	39	53
SB-19	2-4 ft	4/21/92	608,900	77	60	17
SB-19	6-8 ft	4/21/92	115,500	120	45	75
SB-19	8-10 ft	4/21/92	117,800	49	48	1
SB-19	10-12 ft	4/21/92	220,800	159	76	83
SB-19	16-18 ft	4/21/92	183,500	292	83	209
SB-19	18-20 ft	4/23/92	166,900	411	151	260
SB-19	26-28 ft	4/23/92	9,400	30	27	3
SB-19	28-30 ft	4/21/92	7,400	63	30	33
SB-19	34-35 ft	4/21/92	46,100	80	46	34

Concentrations are in milligrams per kilogram (mg/kg) for soil samples and milligrams per liter (mg/L) for water samples.

ft Feet.

EXCHLOR.XLS

Table 5-9 Concentrations of Carbon and Chlorine Detected in Soil Samples, Expanded Study Area, Sauget, Illinois.

Sample Location	Sample Depth	Sample Date	Total Organic Carbon	Total Halogens Calculated as Chlorine	Total Halides Calculated as Chloride	Total Organic Halogens Calculated as Chlorine (by difference)
Field Blank		4/21/92	5	<5	<5	<5
Field Blank		4/23/92	6	5	<5	5
Field Blank		4/27/92	32	<5	<5	<5

Concentrations are in milligrams per kilogram (mg/kg) for soil samples and milligrams per liter (mg/L) for water samples.

ft Feet.

recycled paper

Table 5-10 Summary of Target Compound List Volatile Organic Compounds Detected in Groundwater Samples, Expanded Study Area, Sauget, Illinois

	Shallow Zone			Intermediate Zone			Deep Zone		
Sample Identification	GM-62A	GM-65A	GM-66A	GM-62B	GM-62B-DUP	GM-66B	GM-62C	GM-66C	GM-66C-DUP
Sample Date	6/10/92	6/10/92	6/11/92	6/9/92	6/9/92	6/11/92	6/9/92	6/10/92	6/10/92
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameters									
Acetone	--	--	--	--	--	--	--	--	--
Carbon disulfide	--	--	--	4 J	3 J	--	--	--	--
1,1-Dichloroethane	--	--	--	4 J	4 J	31	--	4 J	4 J
1,2-Dichloroethene (total)	--	--	--	2 J	2 J	5 J	--	--	--
2-Butanone (MEK)	--	--	--	--	--	21	--	7 J	--
1,1,1-Trichloroethane	0 8 J	--	--	--	--	--	--	--	--
Benzene	--	660	--	1 J	1 J	12	20	--	--
4-Methyl-2-pentanone	--	5100	--	--	--	--	--	4 J	--
Toluene	--	--	--	--	--	51	--	2 J	2 J
Chlorobenzene	--	--	--	19	19	54	130	--	--
Total VOCs	0 8	5760	--	30	29	174	150	17	6

ug/L Micrograms per liter.
J Estimated value.
-- Not detected.
VOCs Volatile organic compounds.

Only those compounds detected are listed

Table 5-10. Summary of Target Compound List Volatile Organic Compounds Detected in Groundwater Samples, Expanded Study Area, Sauget, Illinois

Parameters	Sample Identification: Trip Blank Sample Date: 6/10/92 Units: ug/L	Trip Blank 6/11/92 ug/L	Equipment Blank 6/10/92 ug/L	Equipment Blank 6/11/92 ug/L
Acetone	--	17	15 J	--
Carbon disulfide	--	--	--	--
1,1-Dichloroethane	--	--	--	--
1,2-Dichloroethene (total)	--	--	--	--
2-Butanone (MEK)	--	--	--	--
1,1,1-Trichloroethane	--	--	--	--
Benzene	--	--	--	--
4-Methyl-2-pentanone	--	--	--	--
Toluene	--	--	--	--
Chlorobenzene	3 J	--	--	--
Total VOCs	3	17	15	--

ug/L	Micrograms per liter.
J	Estimated value.
--	Not detected.
VOCs	Volatile organic compounds.

Only those compounds detected are listed.

recycled paper

Table 5-11 Summary of Target Compound List Semivolatile Organic Compounds Detected in Groundwater Samples, Expanded Study Area, Sauget, Illinois

	Shallow Zone			Intermediate Zone			Deep Zone	
Sample Identification	GM-62A	GM-65A	GM-66A	GM-62B	GM-62B-DUP	GM-66B	GM-62C	GM-66C
Sample Date	6/10/92	6/10/92	6/11/92	6/9/92	6/9/92	6/11/92	6/9/92	6/10/92
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameters								
Aniline	--	41 J	--	30 J	14 J	--	6 J	--
Phenol	--	13000 DJ	5 J	--	--	5 J	--	3 J
2-Chlorophenol	--	2300 J	--	--	--	--	--	1 J
1,3-Dichlorobenzene	--	--	--	--	--	1 J	--	2 J
1,4-Dichlorobenzene	--	--	--	3 J	2 J	8 J	2 J	13 J
1,2-Dichlorobenzene	--	--	--	9 J	1 J	5 J	2 J	7 J
2-Methylphenol	--	--	--	--	--	1 J	--	--
4-Methylphenol	--	280 J	--	--	--	3 J	--	--
2-Chloroaniline	--	220 J	--	--	--	11 J	--	15 J
2,4-Dimethylphenol	--	74 J	--	--	--	--	--	--
2,4-Dichlorophenol	--	530 J	--	1 J	1 J	4 J	2 J	3 J
3-Chloroaniline	--	--	--	16 J	--	--	5 J	--
4-Chloroaniline	--	--	--	19 J	5 J	--	--	--
2,4,6-Trichlorophenol	--	64 J	--	--	0 6 J	2 J	--	1 J
Dimethylphthalate	--	23 J	--	--	--	420 DJ	--	12 J
Diethylphthalate	--	--	--	--	--	--	--	0 3 J
Di-n-butylphthalate	--	--	--	--	--	0 5 J	--	13 J
Fluoranthene	--	--	--	--	--	0 5 J	--	--
Pyrene	--	--	--	--	--	0 4 J	--	--
Butylbenzylphthalate	--	--	--	--	0 2 J	0 5 J	--	--
bis(2-Ethylhexyl)phthalate	3 J	--	6 J	17 J	29 J	14 J	7 J	190 DJ
Di-n-octylphthalate	--	--	--	--	--	--	--	--
Total SVOCs	3	16491	11	95	52 8	475.9	24	260 3

ug/L	Micrograms per liter.
J	Estimated Value.
E	Compound exceeded the calibration range.
D	Compound determined at a secondary dilution factor.
--	Not detected.
SVOCs	Semivolatile organic compounds.

Only compounds detected are listed.

Table 5-11 Summary of Target Compound List Semivolatile Organic Compounds Detected in Groundwater Samples, Expanded Study Area, Sauget, Illinois

Parameters	Sample Identification: -Deep Zone- M-66C-DUP	Sample Date: 6/10/92	Units: ug/L	Equipment Blank 6/10/92 ug/L	Equipment Blank 6/11/92 ug/L
Aniline	--			--	--
Phenol	--			--	--
2-Chlorophenol	1	J		--	--
1,3-Dichlorobenzene	1	J		--	--
1,4-Dichlorobenzene	10	J		--	--
1,2-Dichlorobenzene	6	J		--	--
2-Methylphenol	--			--	--
4-Methylphenol	--			--	--
2-Chloroaniline	24	J		--	--
2,4-Dimethylphenol	--			--	--
2,4-Dichlorophenol	3	J		--	--
3-Chloroaniline	--			--	--
4-Chloroaniline	--			--	--
2,4,6-Trichlorophenol	1	J		--	--
Dimethylphthalate	10	J		--	0.3 J
Diethylphthalate	--			--	--
Di-n-butylphthalate	16	J		--	--
Fluoranthene	0.3	J		--	--
Pyrene	0.2	J		--	--
Butylbenzylphthalate	--			--	--
bis(2-Ethylhexyl)phthalate	220	DJ		3 J	0.6 J
Di-n-octylphthalate	0.6	J		--	--
Total SVOCs	293.1			3	0.9

ug/L	Micrograms per liter.
J	Estimated Value.
E	Compound exceeded the calibration range.
D	Compound determined at a secondary dilution factor.
--	Not detected.
SVOCs	Semivolatile organic compounds.

Only compounds detected are listed.

recycled paper

Table 5-12. Summary of Target Compound List Pesticide and PCBs Detected in Groundwater Samples, Expanded Study Area, Sauget, Illinois.

	Shallow Zone			Intermediate Zone			Deep Zone				
Sample Location:	GM-62A	GM-65A	GM-66A	GM-62B	GM-62B-DUP	GM-66B	GM-62C	GM-66C	GM-66C-DUP	Equipment Blank	Equipment Blank
Sample Date:	6/10/92	6/10/92	6/11/92	6/9/92	6/9/92	6/11/92	6/9/92	6/10/92	6/10/92	6/10/92	6/11/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter											
4,4'-DDT	--	--	--	--	--	--	--	--	0.12 J	--	--

ug/L Micrograms per liter.
-- Not detected.

Only those compounds detected are listed. No polychlorinated biphenyls (PCBs) were detected.

Table 5-13 Summary of Target Analyte List Parameters Detected in Groundwater Samples, Expanded Study Area, Sauget, Illinois

	Shallow Zone			Intermediate Zone			Deep Zone				
Sample Location	GM-62A	GM-65A	GM-66A	GM-62B	GM-62B-DUP	GM-66B	GM-62C	GM-66C	GM-66C-DUP	Equipment Blank	Equipment Blank
Sample Date	6/10/92	6/10/92	6/11/92	6/9/92	6/9/92	6/11/92	6/9/92	6/10/92	6/10/92	6/10/92	6/11/92
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved
Parameter											
Antimony	--	72.3	--	--	--	--	--	--	--	--	--
Arsenic	--	--	27.7	--	--	--	--	--	--	--	--
Barium	170 B	42.4 B	176 B	403	401	96.7 B	84.0 B	206	210	--	--
Calcium	181000	636000	934000	192000	195000	162000	66100	201000	206000	176 B	151 B
Iron	368	576000	13000	22100	22400	37100	3710	29200	28200	--	--
Magnesium	32900	599000	41500	50500	50400	33000	57500	40400	43400	--	--
Manganese	846	20400	3590	1760	1760	1330	19300	1880	2030	--	--
Potassium	5510	71000	33100	10000	10000	12900	19300	8970	10100	--	--
Sodium	37100	494000	64100	106000	106000	77000	67900	34600	37500	--	--
Zinc	--	66.7	87.8	--	--	40.7	--	--	--	--	--

ug/L Micrograms per liter.
-- Not detected.
B Analyte detected between the contract required detection limit and the instrument detection limit.

Only those compounds detected are listed.

SAUGET Analytical Data
Site S

SURFACE SOIL SAMPLES
Pesticides/PCBs/Herbicides (µg/kg)
Collected by IEPA (3/22/95)

	Sample Number	X101	X102	X103	X104	X105	X106	Maximum Detected
Pesticides/PCBs								
Alpha-BHC		ND	ND	ND	ND	ND	ND	ND
Beta-BHC		ND	11 P	ND	ND	13 JP	ND	13 JP
Delta-BHC		ND	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)		ND	ND	ND	ND	ND	ND	ND
Heptachlor		ND	ND	ND	ND	ND	ND	ND
Aldrin		ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide		ND	ND	ND	ND	ND	ND	ND
Endosulfan I		ND	8.1 P	1.4 JP	0.44 JP	26 P	ND	26 P
Dieldrin		0.1 JP	ND	4.8 P	0.9 JP	ND	ND	4.8 P
4,4'-DDE		ND	ND	ND	ND	ND	ND	ND
Endrin		0.9 JP	ND	24 P	5.7	ND	ND	24 P
Endosulfan II		ND	ND	ND	ND	120 P	ND	120 P
4,4'-DDD		1 JP	ND	ND	1.8 JP	ND	ND	1.8 JP
Endosulfan sulfate		0.77 JP	ND	ND	ND	7.8 JP	ND	7.8 JP
4,4'-DDT		2.6 JP	ND	ND	ND	ND	ND	2.6 JP
Methoxychlor		ND	ND	ND	ND	ND	ND	ND
Endrin Ketone		ND	ND	ND	ND	ND	ND	ND
Endrin Aldehyde		ND	ND	2.7 JP	ND	ND	ND	2.7 JP
alpha-Chlordane		ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane		0.24 JP	31 P	1.5 JP	0.35 JP	35 P	ND	35 P
Toxaphene		ND	ND	ND	ND	ND	ND	ND
Aroclor-1016		ND	ND	ND	ND	ND	ND	ND
Aroclor-1221		ND	ND	ND	ND	ND	ND	ND
Aroclor-1232		ND	ND	ND	ND	ND	ND	ND
Aroclor-1242		ND	ND	ND	ND	ND	ND	ND
Aroclor-1248		16 JP	1300	420	74 P	4200 PC	85000 PC	85000 PC
Aroclor-1254		ND	3300	230	45	6800 C	69000 C	69000 C
Aroclor-1260		27 J	1900 P	160	56 P	4000 PC	41000 PC	41000 PC

µg/kg - Micrograms per kilogram.
C - Result confirmed by GC/MS.
J - Estimated value.
P - Greater than 25% difference exists for the detected concentrations between the two GC columns. The lower of the results is reported.
ND - Not detected.

SAUGET Analytical Data
Site S

SURFACE SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by IEPA (3/22/95)

Sample Number	X101	X102	X103	X104	X105	X106	Maximum Detected
BNAs							
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	R	R	R	ND	R	R	R
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenylether	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	R	R	R	ND	R	R	R
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	110 J	ND	ND	ND	81000 J	81000 J
Anthracene	ND	ND	ND	ND	ND	ND	ND
Carbazole	ND	ND	ND	ND	ND	ND	ND
Di-n-butly phthalate	370 J	ND	ND	ND	230000	1500000 J	1500000 J
Fluoranthene	ND	170 J	ND	ND	ND	ND	170 J
Pyrene	ND	230 J	ND	ND	ND	31000 J	31000 J
Butyl Benzyl phthalate	ND	760 J	4600 J	ND	37000 J	490000 J	490000 J
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND
Benzo (a)anthracene	ND	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	ND	19000 J	64000 J	12000 J	2200000 J	20000000 J	20000000 J
Chrysene	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	2700 J	ND	ND	310000 J	310000 J
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo (a)pyrene	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,l)perylene	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND

µg/kg - Micrograms per kilogram.
J - Estimated value.
ND - Not detected.
R - Data is unusable.

recycled paper
printed with vegetable oil based inks

SAUGET Analytical Data
Site S

SURFACE SOIL SAMPLES
Base Neutrals/Acids (µg/kg)
Collected by IEPA (3/22/95)

	Sample Number	X101	X102	X103	X104	X105	X106	Maximum Detected
BNAs								
Phenol		ND	ND	ND	ND	ND	R	ND
bis(2-Chloroethyl)ether		ND	ND	ND	ND	ND	R	ND
2-Chlorophenol		ND	ND	ND	ND	ND	R	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	R	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND	R	ND
Benzyl Alcohol		ND	ND	ND	ND	ND	R	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND	R	ND
2-Methylphenol		ND	ND	ND	ND	ND	R	ND
bis(2-Chloroisopropyl)ether		ND	ND	ND	ND	ND	R	ND
4-Methylphenol		ND	ND	ND	ND	ND	R	ND
N-Nitroso-n-Dipropylamine		ND	ND	ND	ND	ND	R	ND
Hexachloroethane		ND	ND	ND	ND	ND	R	ND
Nitrobenzene		ND	ND	ND	ND	ND	R	ND
Isophorone		ND	340 J	ND	ND	ND	R	340 J
2-Nitrophenol		ND	ND	ND	ND	ND	R	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND	R	ND
Benzoic Acid		ND	ND	ND	ND	ND	R	ND
bis-(2-Chloroethoxy)methane		ND	ND	ND	ND	ND	R	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND	R	ND
1,2,4-Trichlorophenol		ND	ND	ND	ND	ND	R	ND
Naphthalene		ND	82 J	10000 J	3600 J	200000	R	200000
4-Chloroaniline		ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	R	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	R	ND
2-Methylnaphathalene		ND	ND	ND	ND	50000 J	R	50000 J
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	R	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	R	ND
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	R	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	R	ND
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate		ND	ND	ND	ND	ND	R	ND
Acenaphthylene		ND	ND	ND	ND	ND	R	ND
3-Nitroaniline		ND	ND	ND	ND	ND	R	ND
Acenaphthene		ND	ND	ND	ND	ND	R	ND

µg/kg - Micrograms per kilogram.
J - Estimated value.
ND - Not detected.
R - Data rejected.

SAUGET Analytical Data
Site S

SURFACE SOIL SAMPLES
Volatile Organic Compounds (µg/kg)
Collected by IEPA (3/22/95)

Sample Number	X101	X102	X103	X104	X105	X106	Maximum Detected
VOC							
Chloromethane	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	1400	ND	1400
Chloroethane	ND	ND	ND	ND	1200 J	ND	1200 J
Methylene chloride	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	6500	670 J	6500
1,2-Dichloroethene (total)	ND	ND	ND	ND	310 J	550 J	550 J
Chloroform	ND	ND	ND	ND	550 J	ND	550 J
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	7 J	4 J	ND	ND	8100	12000	12000
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	350 J	2800	2800
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	1800	ND	1800
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	4800	4500	93000	ND	93000
2-Hexanone	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	8600	720 J	8600
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	4 J	7800	8100	990000	51000 DJ	990000
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	4500	3300	450000	19000	450000
Styrene	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	ND	3 J	27000	21000	620000	170000 DJ	620000

µg/kg - Micrograms per kilogram.
D - Compound concentration is at a secondary dilution factor.
J - Estimated value.
ND - Not detected.

recycled paper

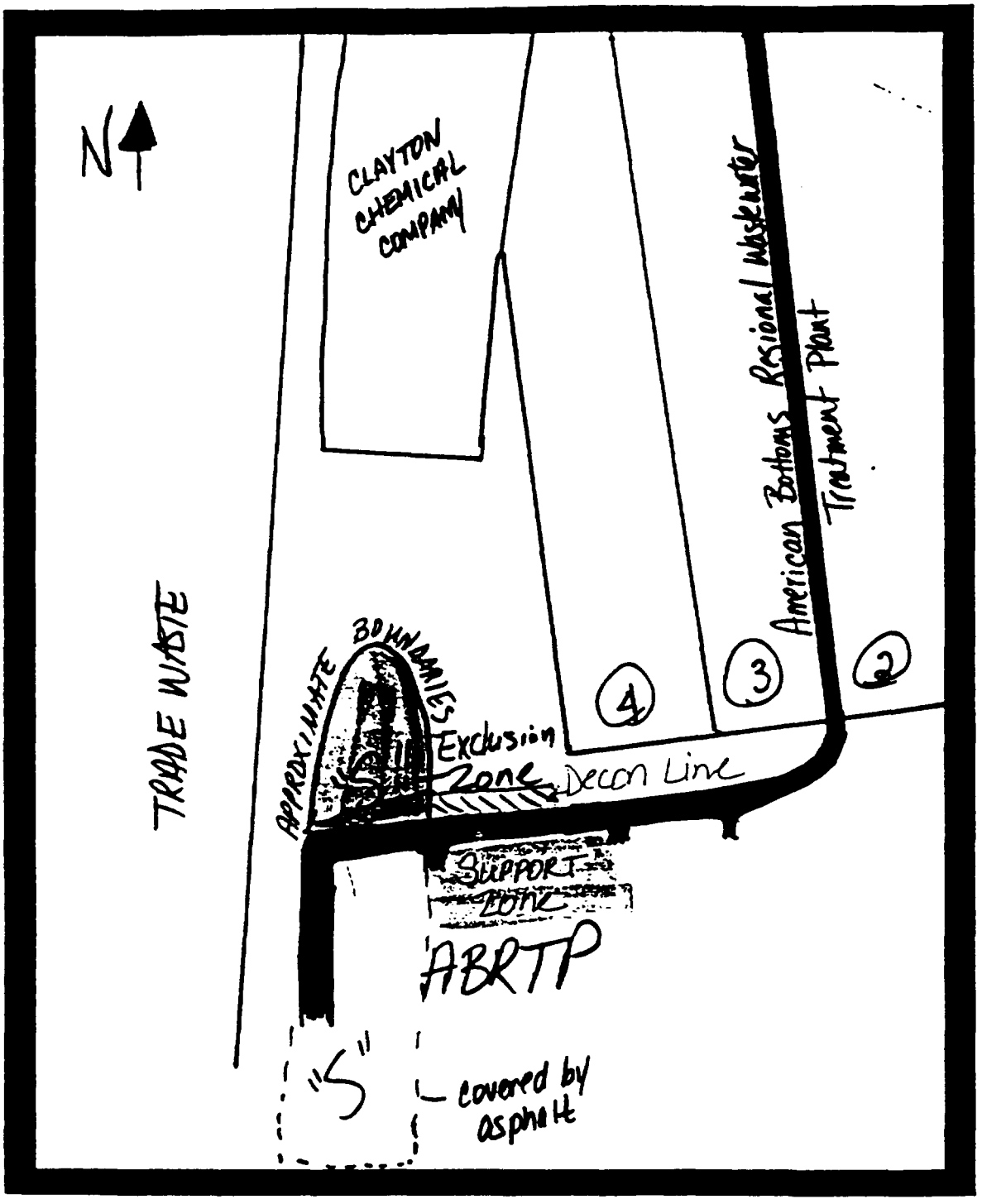
SAUGET Analytical Data
Site S

SURFACE SOIL SAMPLES
Total Metals (mg/kg)
Collected by IEPA (3/22/95)

Sample Number	X101	X102	X103	X104	X105	X106	Maximum Detected
Total Metals							
Aluminum	6420	6700	8540	9390	6710	327	9390
Antimony	ND	ND	ND	ND	ND	ND	ND
Arsenic	4.3	4	5.1	5	5.2 S	0.76 BW	5.2 S
Barium	150	116	179	193	137	34.5	193
Beryllium	0.47 B	0.41 B	0.68 B	0.62 B	0.4 B	ND	0.68
Cadmium	2.1	12.1	1.5	1	2.7	4	
Calcium	15400	12500	10500	10400	32500	9270	32500
Chromium	11.4	56.9	15.3	14.1	52.1	98	98
Cobalt	7.3 B	10.2	7.1 B	6.7 B	8.6	20.5	20.5
Copper	11.4	31.8	20.7	15.6	48	139	139
Iron	12300	12000	16800	15200	10800	888	16800
Lead	13.4	324	44	30.2	242	392	392
Magnesium	5670	5730	4570	5540	4650	1180	5730
Manganese	305	273	312	381	283	24.9	381
Mercury	ND	0.36	0.05 B	0.04 B	1.1	3.5	3.5
Nickel	18.9	17.7	18.6	18.3	11.9	5 B	18.9
Potassium	1350	867 B	1400	1560	1050	ND	1560
Selenium	ND	ND	ND	ND	ND	1.5 BN	1.5 BN
Silver	ND	ND	ND	ND	ND	ND	ND
Sodium	118 B	102 B	183 B	169 B	90.2 B	ND	183 B
Thallium	ND	ND	ND	ND	ND	ND	ND
Vanadium	20.6 B	22.4	23.1	25.5	16.3	2.3 B	25.5
Zinc	79.7	327	109	83.3	162	283	327
Cyanide	ND	1	ND	ND	ND	ND	1

mg/kg - Milligrams per kilogram.
B - Estimated value. The value is less than the CRDL, but greater than the instrument detection limit.
N - Laboratory spike recoveries were outside QC protocols.
ND - Not detected.
S - Analysis performed using the method of standard additions.
W - Laboratory post-digestion spike for furnace AA analysis exceeds QC limits.

recycled paper



Source: IEPA, 1994. Base Map: Ecology and Environment, 1986.

FIGURE 2-9

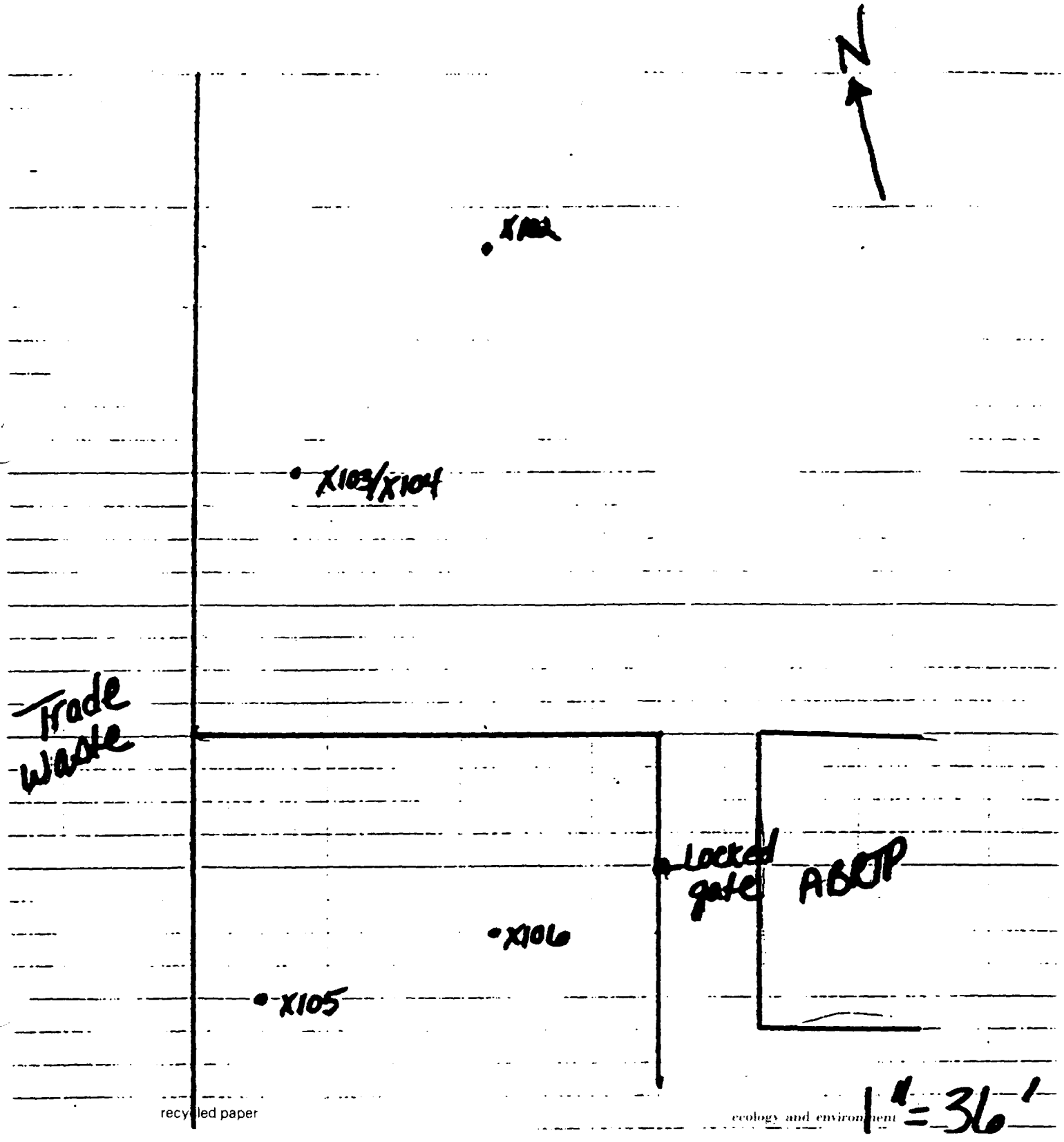
SITE S - FEATURES

Scale: 1:300

CERCLA Expanded Site Inspection - Sauget Area 2

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

Subject Sunset Site 5
Data Sampling Map - 3/22/93
Reviewed by K. Hubbert Date

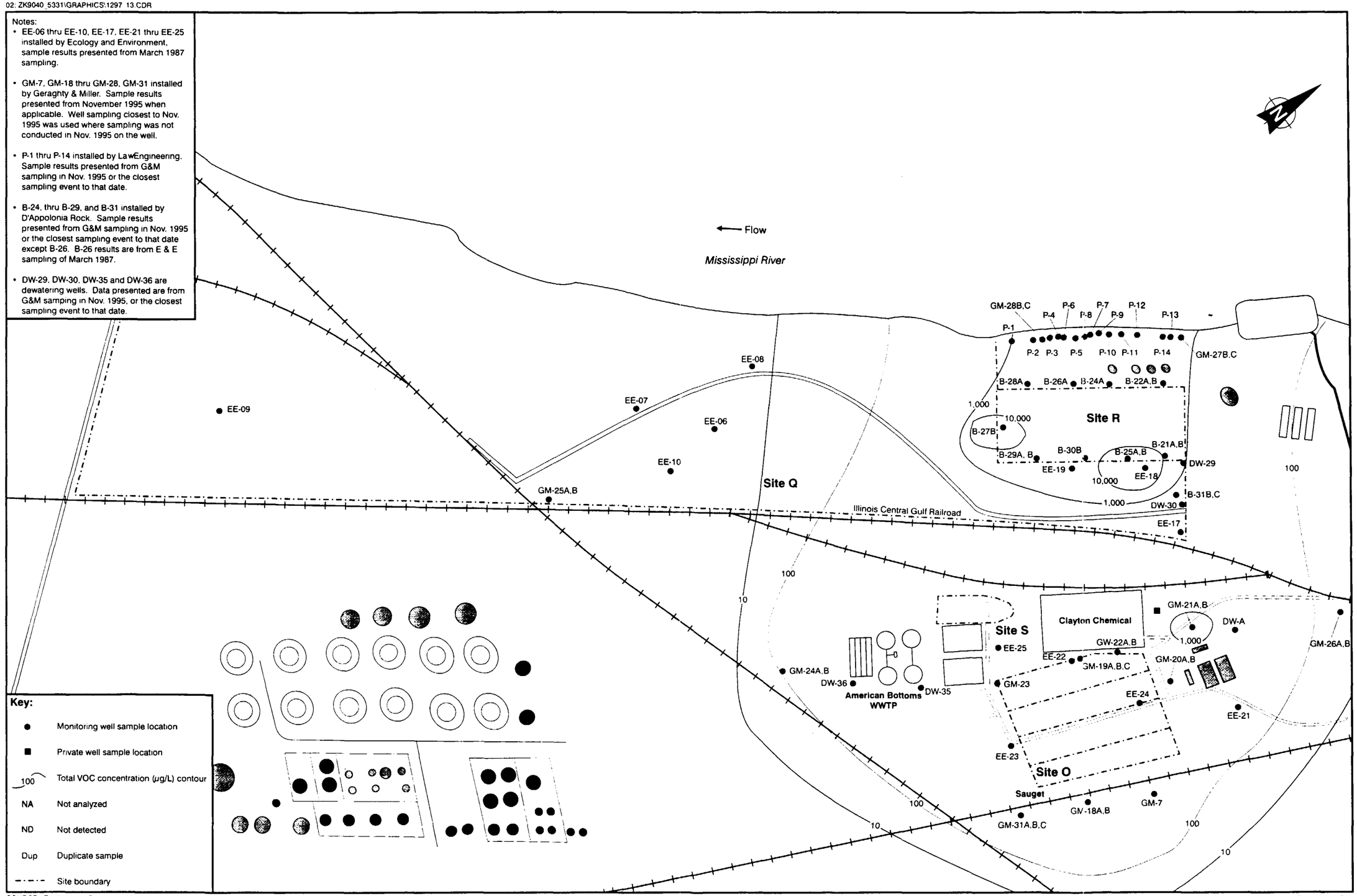


Area 2 Groundwater

02: ZK9040_5331\GRAPHICS\1297_13.CDR

Notes:

- EE-06 thru EE-10, EE-17, EE-21 thru EE-25 installed by Ecology and Environment, sample results presented from March 1987 sampling.
- GM-7, GM-18 thru GM-28, GM-31 installed by Geraghty & Miller. Sample results presented from November 1995 when applicable. Well sampling closest to Nov. 1995 was used where sampling was not conducted in Nov. 1995 on the well.
- P-1 thru P-14 installed by LawEngineering. Sample results presented from G&M sampling in Nov. 1995 or the closest sampling event to that date.
- B-24, thru B-29, and B-31 installed by D'Appolonia Rock. Sample results presented from G&M sampling in Nov. 1995 or the closest sampling event to that date except B-26. B-26 results are from E & E sampling of March 1987.
- DW-29, DW-30, DW-35 and DW-36 are dewatering wells. Data presented are from G&M sampling in Nov. 1995, or the closest sampling event to that date.



SOURCE: Ecology and Environment, Inc. 1998.

© 1998 Ecology and Environment, Inc.

APPROXIMATE SCALE

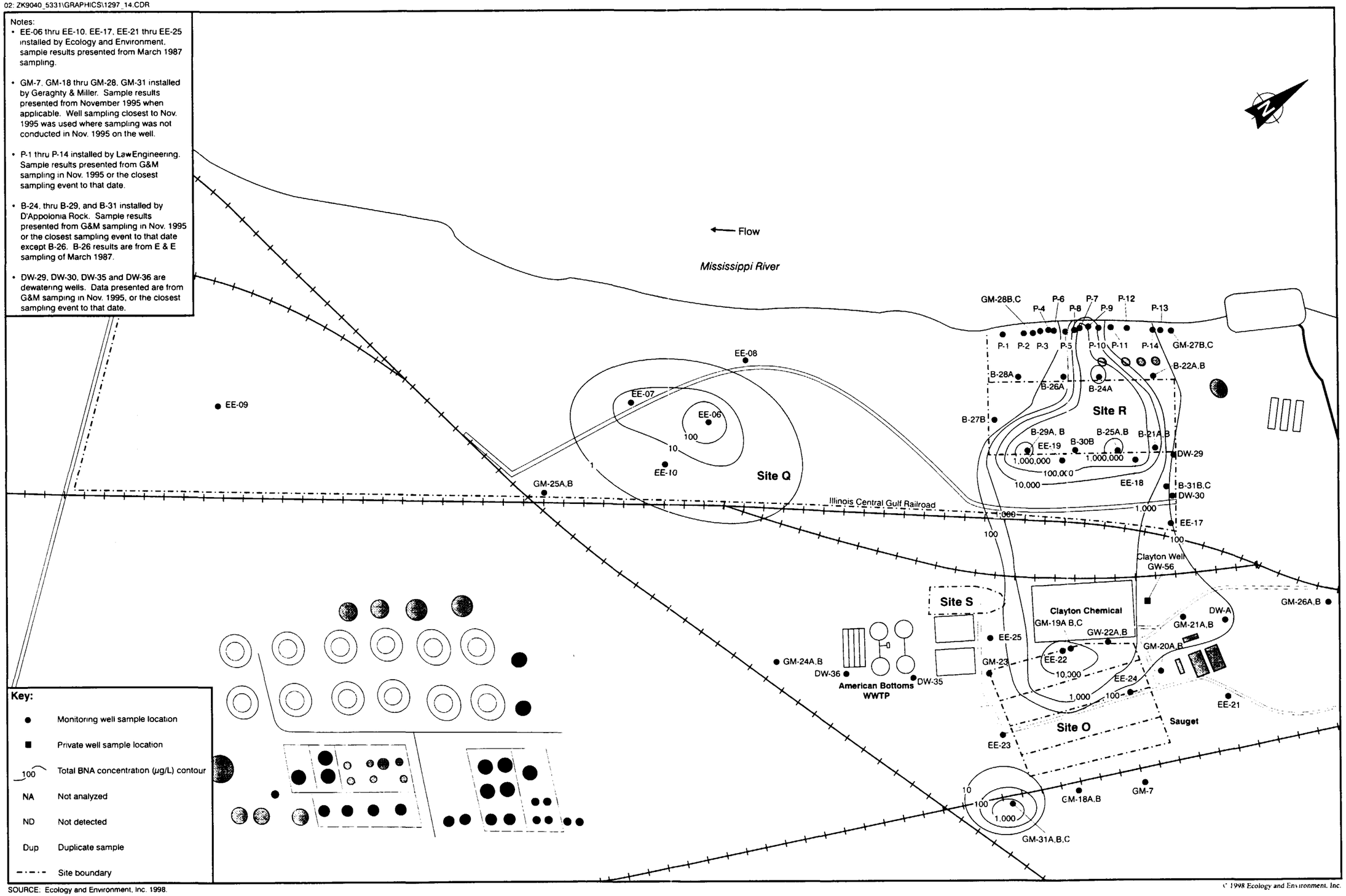
0 ¼ ½ Mile

AREA 2 GROUNDWATER TOTAL VOC CONCENTRATIONS INTERMEDIATE/DEEP WELLS

02: ZK9040_5331\GRAPHICS\1297_14.CDR

Notes:

- EE-06 thru EE-10, EE-17, EE-21 thru EE-25 installed by Ecology and Environment, sample results presented from March 1987 sampling.
- GM-7, GM-18 thru GM-28, GM-31 installed by Geraghty & Miller. Sample results presented from November 1995 when applicable. Well sampling closest to Nov. 1995 was used where sampling was not conducted in Nov. 1995 on the well.
- P-1 thru P-14 installed by LawEngineering. Sample results presented from G&M sampling in Nov. 1995 or the closest sampling event to that date.
- B-24, thru B-29, and B-31 installed by D'Appolonia Rock. Sample results presented from G&M sampling in Nov. 1995 or the closest sampling event to that date except B-26. B-26 results are from E & E sampling of March 1987.
- DW-29, DW-30, DW-35 and DW-36 are dewatering wells. Data presented are from G&M sampling in Nov. 1995, or the closest sampling event to that date.



SOURCE: Ecology and Environment, Inc. 1998.

© 1998 Ecology and Environment, Inc.

APPROXIMATE SCALE

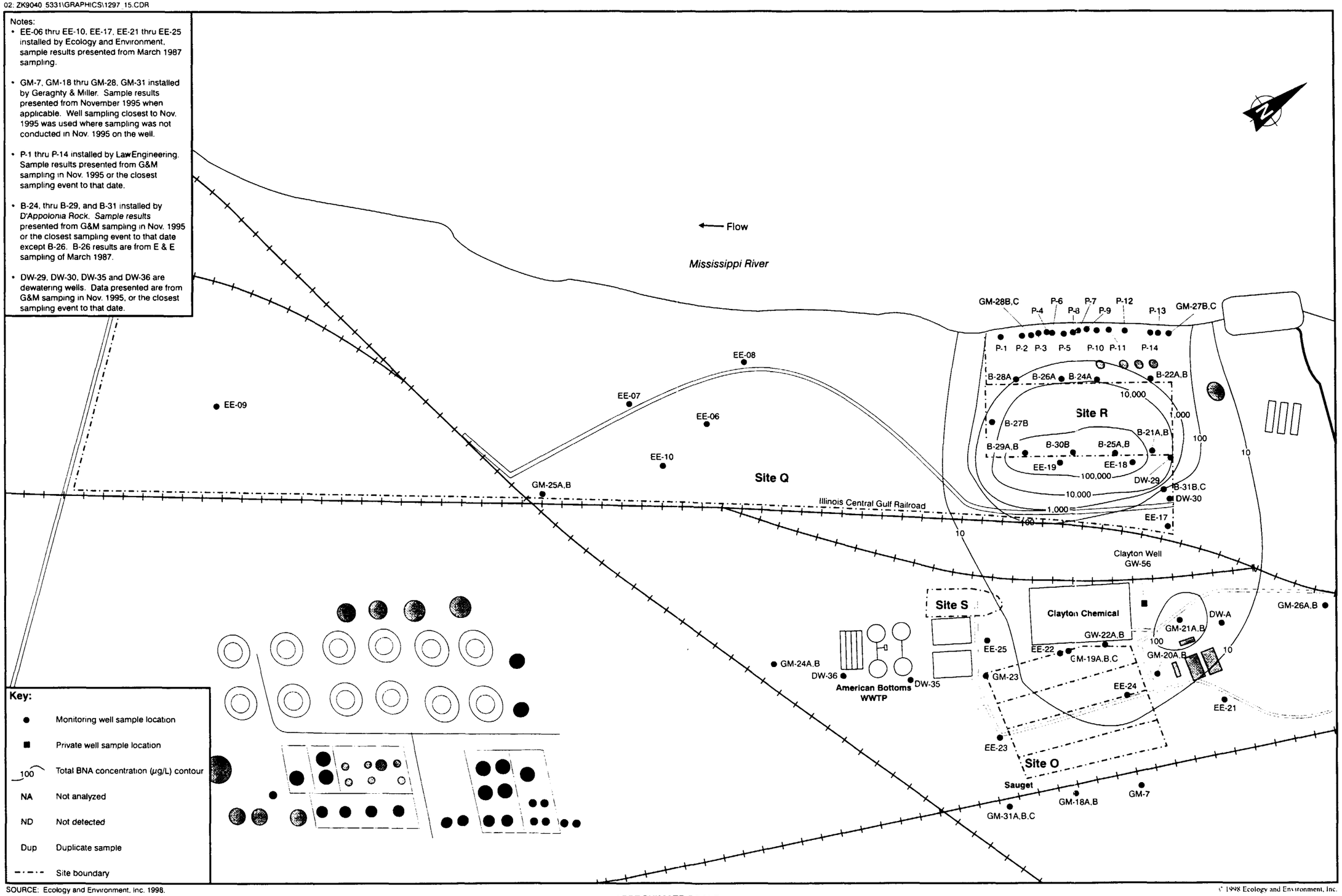
0 ¼ ½ Mile

AREA 2 GROUNDWATER TOTAL BNA CONCENTRATIONS SHALLOW WELLS

02: ZK9040 5331\GRAPHICS\1297_15.CDR

Notes:

- EE-06 thru EE-10, EE-17, EE-21 thru EE-25 installed by Ecology and Environment, sample results presented from March 1987 sampling.
- GM-7, GM-18 thru GM-28, GM-31 installed by Geraghty & Miller. Sample results presented from November 1995 when applicable. Well sampling closest to Nov. 1995 was used where sampling was not conducted in Nov. 1995 on the well.
- P-1 thru P-14 installed by LawEngineering. Sample results presented from G&M sampling in Nov. 1995 or the closest sampling event to that date.
- B-24, thru B-29, and B-31 installed by *D'Appolonia Rock*. Sample results presented from G&M sampling in Nov. 1995 or the closest sampling event to that date except B-26. B-26 results are from E & E sampling of March 1987.
- DW-29, DW-30, DW-35 and DW-36 are dewatering wells. Data presented are from G&M sampling in Nov. 1995, or the closest sampling event to that date.



SOURCE: Ecology and Environment, Inc. 1998.

APPROXIMATE SCALE

0 ¼ ½ Mile

© 1998 Ecology and Environment, Inc.

AREA 2 GROUNDWATER TOTAL BNA CONCENTRATION INTERMEDIATE/DEEP WELLS

EXPLANATION

LOCATION AND DESIGNATION OF THE FOLLOWING:

- ☼ ABANDONED RANNEY WELL
- ⊠ B-10 GERAGHTY & MILLER, INC. BORING
- ⊡ GM-55C GERAGHTY & MILLER, INC. MONITORING WELL
- □ B-105 D'APPOLONIA ROCK WELL
- ⊕ B-15(S&D) ABANDONED D'APPOLONIA MONITORING WELL (S=SHALLOW, D=DEEP, R=REPLACEMENT)
- ■ B-28AB D'APPOLONIA MONITORING WELL CLUSTER
- • P-10 LAW ENGINEERING MONITORING WELL
- ▲ TW-1 GERAGHTY & MILLER TEST WELL
- + DW-17 DEWATERING WELL
- ◪ B-100 D'APPOLONIA BORING (INTO BEDROCK)
- ◐ B-8 D'APPOLONIA BORING (INTO UNCONSOLIDATED DEPOSITS)
- ▨ STORM-WATER DRAINAGE TRENCHES

VOCs	VOLATILE ORGANIC COMPOUNDS
SVOCs	SEMIVOLATILE ORGANIC COMPOUNDS
PEST	PESTICIDES
PCBs	POLYCHLORINATED BIPHENYLS
ND	NOT DETECTED
NA	NOT ANALYZED
J	ESTIMATED VALUE

CONCENTRATIONS ARE IN MILLIGRAMS PER LITER (mg/L)

VOCs 4.05
SVOCs 241.2
PEST ND
PCBs ND
2,4-D NA

VOCs 2.25
SVOCs 117.8
PEST 0.002J
PCBs ND
2,4-D 1.1J

VOCs 1.6
SVOCs 280.8
PEST 0.003J
PCBs ND
2,4-D 0.015
2,4,5-T 0.019

VOCs 1.43
SVOCs 3,937.7
PEST ND
PCBs ND
2,4-D NA

VOCs 3.02
SVOCs 32.7
PEST ND
PCBs ND
2,4-D NA

VOCs 0.15
SVOCs 0.024
PEST ND
PCBs ND
2,4-D NA

UNION ELECTRIC

MONSANTO COMPANY PROPERTY BOUNDARY

MISSISSIPPI RIVER

FLOW

SITE R

TRADE WASTE INC.

SITE R BOUNDARY

EXPANDED STUDY AREA BOUNDARY

APPROXIMATE BOUNDARY OF EXISTING PEAVEY COAL STORAGE AREA

APPROXIMATE BOUNDARY OF FORMER UNION ELECTRIC FLY ASH POND

0 500 FT

GERAGHTY & MILLER, INC.
Environmental Services

DRAWING CONFIDENTIAL: THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS AND SHALL REMAIN THE PROPERTY OF GERAGHTY & MILLER, INC. AS AN INSTRUMENT OF PROFESSIONAL SERVICE. THIS INFORMATION SHALL NOT BE USED IN WHOLE OR IN PART WITHOUT THE FULL KNOWLEDGE AND PRIOR WRITTEN CONSENT OF GERAGHTY & MILLER, INC.

SCALE VERIFICATION
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:
USE TO VERIFY FIGURE REPRODUCTION SCALE

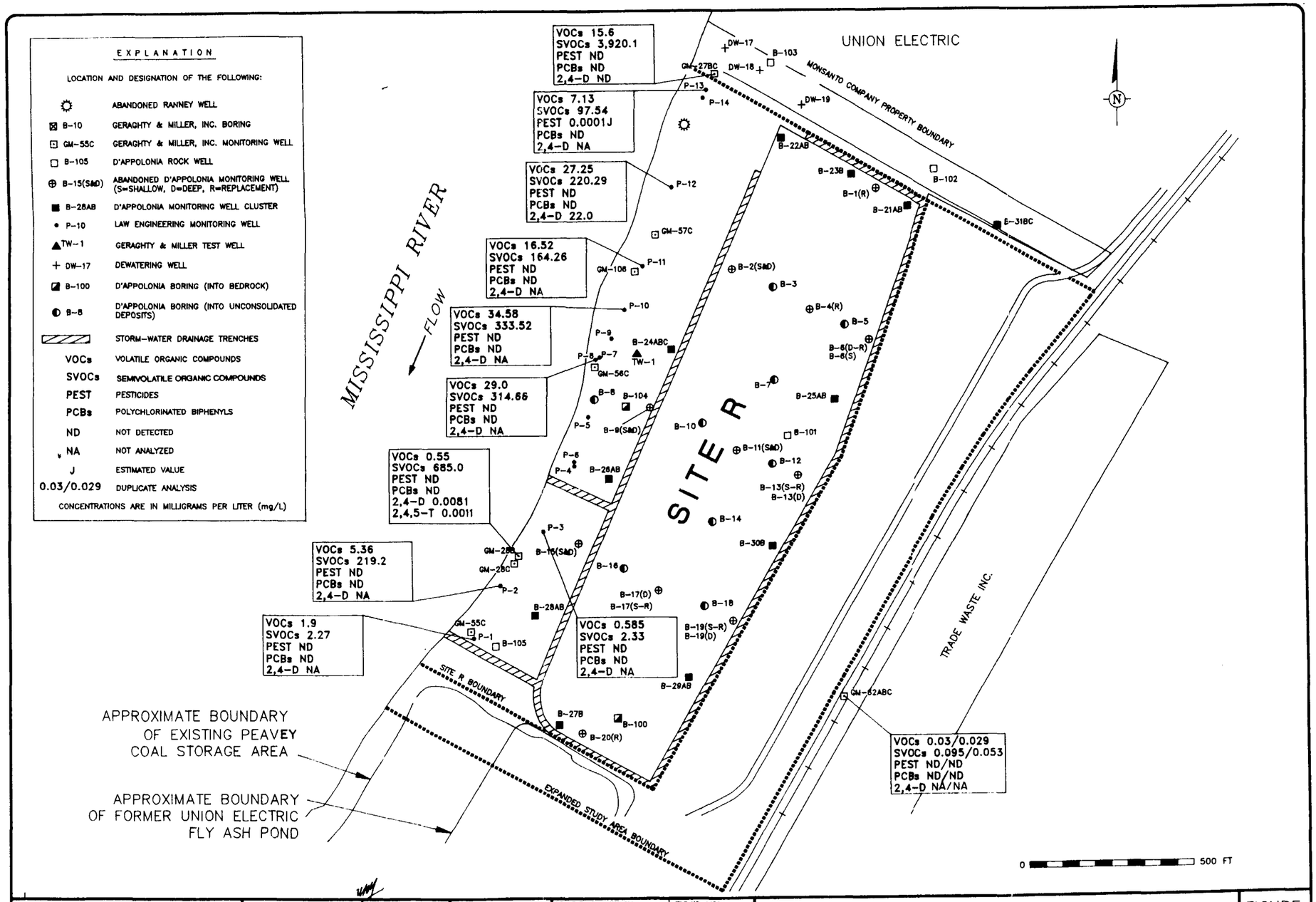
PROJECT NO.:	NY84211	FILE NO:	1558
DRAWING:	TARGDEEP	PLOT SIZE:	1"=200'
DRAFTED BY:	V. CARUNCHO	DATE:	11/13/92
CHECKED BY:	L. MUSIKER	DATE:	
APPROVED BY:	D. COLTON	DATE:	

CONCENTRATIONS OF TARGET COMPOUND LIST ORGANIC COMPOUNDS IN THE DEEP ZONE, SAUGET SITE R

MONSANTO COMPANY
SAUGET, ILLINOIS

FIGURE
5-7

SCREENED
M M



GERAGHTY & MILLER, INC.
Environmental Services

DRAWING CONFIDENTIAL: THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS AND SHALL REMAIN THE PROPERTY OF GERAGHTY & MILLER, INC. AS AN INSTRUMENT OF PROFESSIONAL SERVICE. THIS INFORMATION SHALL NOT BE USED IN WHOLE OR IN PART WITHOUT THE FULL KNOWLEDGE AND PRIOR WRITTEN CONSENT OF GERAGHTY & MILLER, INC.

SCALE VERIFICATION
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:
USE TO VERIFY FIGURE REPRODUCTION SCALE

PROJECT NO.: NY84211	FILE NO: 1688
DRAWING: TARGINT	PLOT SIZE: 1"=200'
DRAFTED BY: Y. CARUNCHO	DATE: 11/12/92
CHECKED BY: L. MUSIKER	DATE:
APPROVED BY: D. COLTON	DATE:

CONCENTRATIONS OF TARGET COMPOUND LIST ORGANIC COMPOUNDS IN THE INTERMEDIATE ZONE, SAUGET SITE R

MONSANTO COMPANY
SAUGET, ILLINOIS

FIGURE
5-6

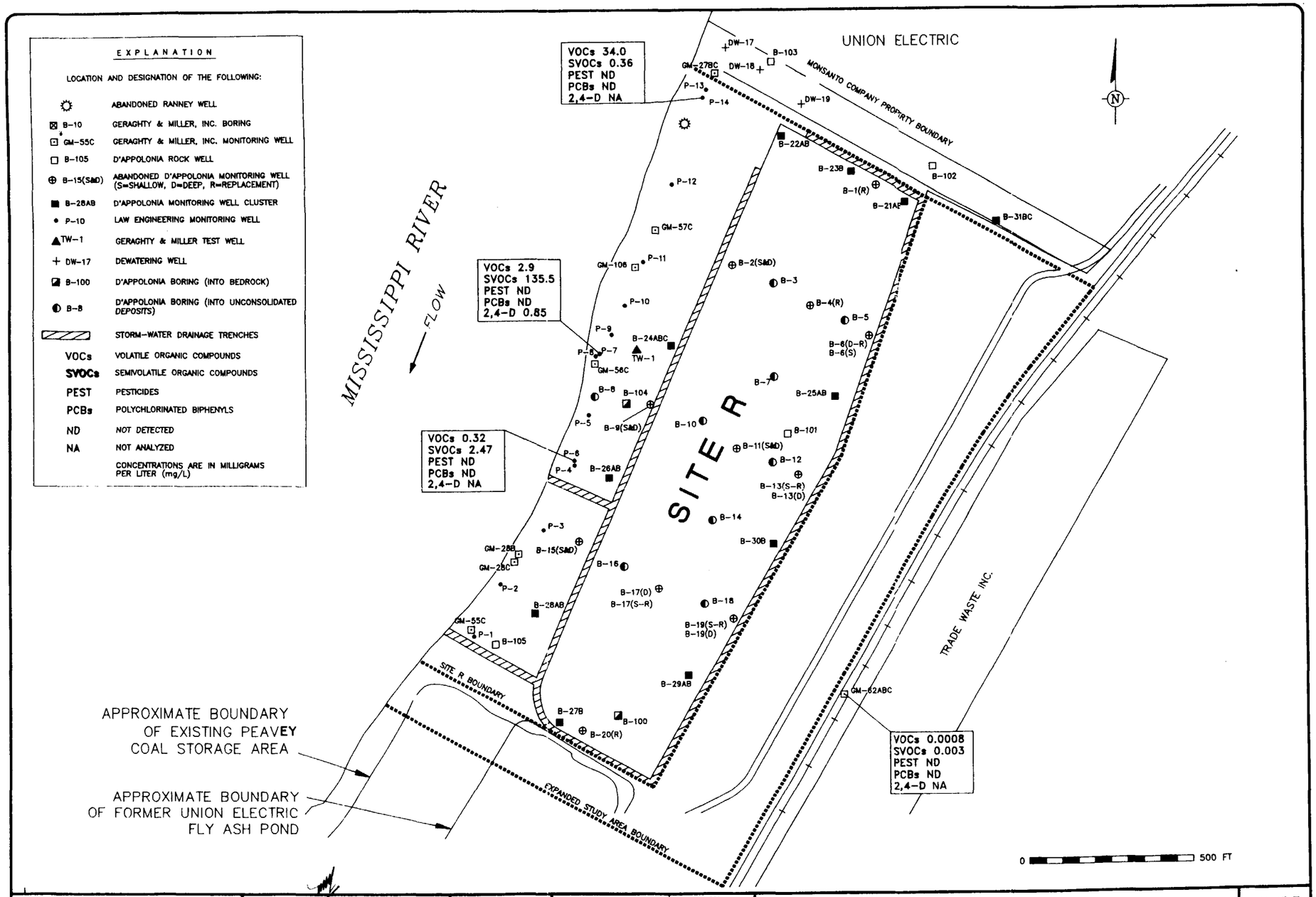
SCREENED

EXPLANATION

LOCATION AND DESIGNATION OF THE FOLLOWING:

☼	ABANDONED RANNEY WELL
⊠ B-10	GERAGHTY & MILLER, INC. BORING
⊡ GM-55C	GERAGHTY & MILLER, INC. MONITORING WELL
□ B-105	D'APPOLONIA ROCK WELL
⊕ B-15(S&D)	ABANDONED D'APPOLONIA MONITORING WELL (S=SHALLOW, D=DEEP, R=REPLACEMENT)
■ B-28AB	D'APPOLONIA MONITORING WELL CLUSTER
• P-10	LAW ENGINEERING MONITORING WELL
▲TW-1	GERAGHTY & MILLER TEST WELL
+ DW-17	DEWATERING WELL
◪ B-100	D'APPOLONIA BORING (INTO BEDROCK)
◐ B-8	D'APPOLONIA BORING (INTO UNCONSOLIDATED DEPOSITS)
▨	STORM-WATER DRAINAGE TRENCHES
VOCs	VOLATILE ORGANIC COMPOUNDS
SVOCs	SEMIVOLATILE ORGANIC COMPOUNDS
PEST	PESTICIDES
PCBs	POLYCHLORINATED BIPHENYLS
ND	NOT DETECTED
NA	NOT ANALYZED

CONCENTRATIONS ARE IN MILLIGRAMS PER LITER (mg/L)



GERAGHTY & MILLER, INC.
Environmental Services

DRAWING CONFIDENTIAL: THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS AND SHALL REMAIN THE PROPERTY OF GERAGHTY & MILLER, INC. AS AN INSTRUMENT OF PROFESSIONAL SERVICE. THIS INFORMATION SHALL NOT BE USED IN WHOLE OR IN PART WITHOUT THE FULL KNOWLEDGE AND PRIOR WRITTEN CONSENT OF GERAGHTY & MILLER, INC.

SCALE VERIFICATION

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:

USE TO VERIFY FIGURE REPRODUCTION SCALE

PROJECT NO.:	NY84211	FILE NO:	1558
DRAWING:	TARGSHAL	PLOT SIZE:	1"=200'
DRAFTED BY:	V. CARUNCHO	DATE:	11/13/92
CHECKED BY:	L. MUSIKER	DATE:	
APPROVED BY:	D. COLTON	DATE:	

CONCENTRATIONS OF TARGET COMPOUND LIST ORGANIC COMPOUNDS IN THE SHALLOW ZONE, SAUGET SITE R,

MONSANTO COMPANY
SAUGET, ILLINOIS

FIGURE
5-5

SCREENED
M M

02: ZK9040_5331\GRAPHICS\1297_12.CDR

Notes:

- EE-06 thru EE-10, EE-17, EE-21 thru EE-25 installed by Ecology and Environment, sample results presented from March 1987 sampling.
- GM-7, GM-18 thru GM-28, GM-31 installed by Geraghty & Miller. Sample results presented from November 1995 when applicable. Well sampling closest to Nov. 1995 was used where sampling was not conducted in Nov. 1995 on the well.
- P-1 thru P-14 installed by LawEngineering. Sample results presented from G&M sampling in Nov. 1995 or the closest sampling event to that date.
- B-24, thru B-29, and B-31 installed by D'Appolonia Rock. Sample results presented from G&M sampling in Nov. 1995 or the closest sampling event to that date except B-26. B-26 results are from E & E sampling of March 1987.
- DW-29, DW-30, DW-35 and DW-36 are dewatering wells. Data presented are from G&M sampling in Nov. 1995, or the closest sampling event to that date.

Flow

Mississippi River

EE-09

EE-08

EE-07

EE-06

EE-10

GM-25A,B

Site Q

Illinois Central Gulf Railroad

GM-28B,C P-4 P-6 P-8 P-7 P-9 P-12 P-13

P-1 P-2 P-3 P-5 P-10 P-11 P-14 GM-27B,C

B-28A B-26A B-24A B-22A,B

Site R

B-27B B-21A,B

B-29A, B B-30B B-25A,B

EE-19 EE-18 DW-29

B-31B,C DW-30

EE-17

Clayton Well
GW-56

Site S

Clayton Chemical
GM-19A,B,C

GM-26A,B

DW-A GM-21A,B

EE-22 GW-22A,B GM-20A,B

EE-25 GM-23

GM-24A,B DW-36 DW-35

American Bottoms WWTP

EE-24 EE-21

Site O

EE-23

Sauget

GM-31A,B,C GM 18A,B GM-7

10 100 1,000 10,000 100,000

Key:

- ● Monitoring well sample location
- ■ Private well sample location
- 100 Total VOC concentration (µg/L) contour
- NA Not analyzed
- ND Not detected
- Dup Duplicate sample
- Site boundary

SOURCE: Ecology and Environment, Inc. 1998.

© 1998 Ecology and Environment, Inc.

APPROXIMATE SCALE

0 ¼ ½ Mile

AREA 2 GROUNDWATER TOTAL VOC CONCENTRATIONS SHALLOW WELLS

SITE NARRATIVE

AREA 2 GROUNDWATER

recycled paper

SITE NARRATIVE - SAUGET AREA 2 / Groundwater				
Site*	**Sample Locations**	**Sampling Entity**	**Date Sampled**	**Data Source**
Site R	GM27,GM28,GM55-GM57,B24-B30,P1-P14	Misc.	Pre-1992	"Remedial Investigation at Sauget Site R", prepared for Monsanto Company by Geraghty & Miller, August, 1994. (Appendix A)
Site R	P1 - P14, GM27,GM28,GM55, GM57,GM62,GM106	Misc.	Post-1992	"Remedial Investigation at Sauget Site R", prepared for Monsanto Company by Geraghty & Miller, August, 1994. Tables 5-14 thru 5-17.
Site O	Clayton Well (GW-56)	E & E	3/26/87	"Expanded Site Investigation Dead Creek Project Sites" prepared for by IEPA by Ecology and Environment, Inc., May 1988
Site Q	EE-06 thru EE-10 EE-17 thru EE-19	E & E	3/16/87	"Expanded Site Investigation Dead Creek Project Sites" prepared for by IEPA by Ecology and Environment, Inc., May 1988
Site O	EE-21 thru EE-15	E & E	3/24/87 7/14/87	"Expanded Site Investigation Dead Creek Project Sites" prepared for by IEPA by Ecology and Environment, Inc., May 1988
Site R	P-1, P-7, P-11, B-25, B-26, B-28	E & E	3/25/87	"Expanded Site Investigation Dead Creek Project Sites" prepared for by IEPA by Ecology and Environment, Inc., May 1988
Area 2	GM-19 thru GM-26 DW-35, DW-36, DW-A	Geraghty & Miller	9/84 to 2/86	"Summary of Groundwater Quality Data, Sauget Sanitary Development & Research Association, Sauget Illinois" prepared for the SSDRA by Geraghty & Miller, February, 1988
Site O	GM-19 thru GM-22, GM-34, EE-21 thru EE-25	Geraghty & Miller	12/86 to 7/87	"Summary of Groundwater Quality Data, Sauget Sanitary Development & Research Association, Sauget Illinois" prepared for the SSDRA by Geraghty & Miller, February, 1988
Area 2	GM-4 thru GM-106 P-1 thru P-14 B-25, B-26, B-28	Geraghty & Miller	Various	"RCRA Part B Application" Monsanto Company, W.G. Krummrich Plant, Sauget, Illinois, December 15, 1990
Site R	MW-1 thru MW-5 Ranney Well B-1,6,9,11,13,15,17,19	IEPA	1972 thru 1981	"Expanded Site Investigation Dead Creek Project Sites" prepared for by IEPA by Ecology and Environment, Inc., May 1988 (Appendix A - Description of Current Situation)

ecology and environment

SITE NARRATIVE - SAUGET AREA 2 / Groundwater

Nature and Extent of Contamination:

Monitoring wells throughout the Sauget Area 2 sites are installed to monitor three separate zones (shallow, intermediate, and deep) within the unconsolidated aquifer system beneath the sites. Monitoring wells used to evaluate the shallow zone are set between approximately 28 feet and 50 feet BGS. Monitoring wells used to evaluate the intermediate zone are set between approximately 80 feet and 90 feet BGS. Monitoring wells used to evaluate the deep zone are set between approximately 100 feet and 115 feet BGS at the base of the sand aquifer. The brief discussion presented below breaks down the nature of contamination by groundwater zone.

Shallow Zone:
Total VOC concentrations detected in samples collected from Area 2 monitoring wells set in the shallow aquifer zone range from 8 µg/L to 557,900 µg/L. The highest total VOC concentration was detected at Site O. Total BNA concentrations in the shallow zone ranged from 7 µg/L to 1,906,170 µg/L. The highest total BNA concentration was detected at Site R. PCBs were not detected in any of the groundwater samples collected from wells set in the shallow zone. Contamination (from the late 1980's sampling presented on the figure) is primarily limited to areas directly beneath and between Sites O and R. There are isolated pockets of shallow contamination in the central and southern portion of Site Q but the contaminant concentrations in these areas are several orders of magnitude less than the concentrations detected near Sites O and R. The concentration ranges presented in this summary reflect only the monitoring well and private well data presented on the Area 2 Groundwater Figure. Additional data provided in the data summary tables section will reveal different concentration ranges, depending upon the wells sampled and the date.

Intermediate/Deep Zone:
Total VOC concentrations detected in samples collected from Area 2 monitoring wells set in the intermediate or deep aquifer zones range from 117 µg/L to 31,138 µg/L. The highest total VOC concentration was detected at Site R. Total BNA concentrations in the intermediate/deep zone ranged from 5.6 µg/L to 333,669 µg/L. The highest total BNA concentration was detected at Site R. PCBs were detected in one intemediate zone groundwater sample at a concentration of 0.9 µg/L at Site R. Contamination (from the late 1980's sampling presented on the figure) is primarily limited to areas directly beneath and between Sites O and R, although somewhat more spread out than the contamination noted in the shallow zone. Contaminants in the intermediate/deep zone, although more spread out, were also detected at concentrations significantly less than in the shallow zone. The isolated pockets of contamination detected in the central and southern portion of Site Q in the shallow zone was not detected in the intermediate/deep zones in these areas. The concentration ranges presented in this summary reflect only the monitoring well and private well data presented on the Area 2 Groundwater Figure. Additional data provided in the data summary tables section will reveal different concentration ranges, depending upon the wells sampled and the date.

recycled paper

ecology and environment

SITE NARRATIVE - SAUGET AREA 2 / Groundwater

Nature and Extent of Contamination: Cont'

The greatest volume of data exists for Sites O and R, where most of the monitoring wells for both sites have been sampled on numerous occassions. Aside from the VOC concentration detected in one shallow well at Site O, contaminants were generally higher in both the shallow and the intermediate/deep zones at Site R.

The extent of shallow groundwater contamination in Area 2 is very well defined in areas immediately adjacent to Sites O and R, including the northern portion of Q which extends between these two sites. However, because there are no wells located north and south of Site R, there is little control on contaminant concentrations or migration to these areas. The extent of shallow groundwater contamination for site Q is poorly defined due to the absence of wells in this area, and there are no wells to assess potential contamination from either Site P or Site S.

The extent of intermediate/deep groundwater contamination in Area 2 is fairly well defined in areas immediately adjacent to Sites O and R, including the northern portion of Q which extends between these two sites. However, because there are no wells located north and south of Site R, there is little control on contaminant concentrations or migration to these areas. The extent of intermediate/deep groundwater contamination for site Q is poorly defined due to a lack of wells to characterize these zones. However, intermediate or deep zone contamination associated with the central and southern portions of Site Q would be assumed to be minor due to the low levels of contaminants detected in the shallow zone in these areas.

Groundwater modeling was performed by E & E in 1988 to assess the groundwater flow regime and contaminant transport. Simulations were used to predict the future movement of groundwater contaminants and to estimate contaminant loading to the Mississippi River. Average and maximum total loading values from the shallow and intermediate zones were estimated at 47.93 lb/day and 89.3 lb/day, respectively. Including the deep zone, the average and maximum total loading values were estimated at 69.93 lb/day and 219.3 lb/day, respectively.

Containment and Integrity (if known):

There is no known containment for groundwater contamination beneath the Sauget Area 2 sites. All of the disposal sites in this area are unlined, and waste material was observed at depths below the water table in some borings conducted at Site Q. Water levels are generally below the refuse located at Site R, however, groundwater has risen to encounter the fill materials when river levels have exceeded the flood stage elevation of 410 feet MSL (the base of the fill is approximately 406 feet MSL). Sites O and R contain clay caps, which will reduce infiltration at these sites. In contrast, Sites P and Q are covered primarily with cinders and flyash which will not inhibit surface infiltration.

Other Comments: None

* - Corresponding Site if applicable

recycled paper

environment and ecology

Area 2 Groundwater Data

SAUGET Analytical Data
Site Area 2 Private Wells

GROUND WATER SAMPLES
Volatile Organic Compounds (µg/L)
Collected by Ecology & Environment, Inc. (3/87)

recycled paper

	Sample Number	DC-GW-56	Maximum
	Well Number	CLAYTON	Concentration
	Date Collected	03/26/87	Detected
VOC			
Chloromethane		ND	ND
Bromomethane		ND	ND
Vinyl chloride		17	17
Chloroethane		10	10
Methylene chloride		ND	ND
Acetone		5 J	5 J
Carbon Disulfide		ND	ND
1,1-Dichloroethene		ND	ND
1,1-Dichloroethane		ND	ND
trans-1,2-Dichloroethene		6	6
Chloroform		ND	ND
1,2-Dichloroethane		ND	ND
2-Butanone (MEK)		ND	ND
1,1,1-Trichloroethane		ND	ND
Carbon Tetrachloride		ND	ND
Vinyl Acetate		ND	ND
Bromodichloromethane		ND	ND
1,2-Dichloropropane		ND	ND
trans-1,3-Dichloropropene		ND	ND
Trichloroethene		ND	ND
Dibromochloromethane		ND	ND
1,1,2-Trichloroethane		ND	ND
Benzene		94	94
cis-1,3-Dichloropropene		ND	ND
2-Chloroethyl Vinyl Ether		ND	ND
Bromoform		ND	ND
4-Methyl-2-pentanone		9 J	9 J
2-Hexanone		ND	ND
Tetrachloroethene		ND	ND
1,1,2,2-Tetrachloroethane		ND	ND
Toluene		5	5
Chlorobenzene		120	120
Ethylbenzene		1 J	1 J
Styrene		ND	ND
Total Xylenes		ND	ND

µg/L - Micrograms per liter
J - Estimated value
ND - Not detected

SAUGET Analytical Data
Site Area 2 Private Wells

GROUND WATER SAMPLES
Base Neutrals/Acids (μg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-56	Maximum
	Well Number	CLAYTON	Concentration
	Date Collected	03/26/87	Detected
BNAs			
Phenol		ND	ND
bis(2-Chloroethyl)ether		ND	ND
2-Chlorophenol		ND	ND
1,3-Dichlorobenzene		ND	ND
1,4-Dichlorobenzene		5 J	5 J
Benzyl Alcohol		ND	ND
1,2-Dichlorobenzene		3 J	3 J
2-Methylphenol		ND	ND
bis(2-Chloroisopropyl)ether		ND	ND
4-Methylphenol		ND	ND
N-Nitroso-n-Dipropylamine		ND	ND
Hexachloroethane		ND	ND
Nitrobenzene		ND	ND
Isophorone		ND	ND
2-Nitrophenol		ND	ND
2,4-Dichlorophenol		ND	ND
Benzoic Acid		ND	ND
bis-(2-Chloroethoxy)methane		ND	ND
2,4-Dichlorophenol		ND	ND
1,2,4-Trichlorophenol		ND	ND
Naphthalene		ND	ND
4-Chloroaniline		ND	ND
Hexachlorobutadiene		ND	ND
4-Chloro-3-methylphenol		ND	ND
2-Methylnaphathalene		ND	ND
Hexachlorocyclopentadiene		ND	ND
2,4,6-Trichlorophenol		ND	ND
2,4,5-Trichlorophenol		ND	ND
2-Chloronaphthalene		ND	ND
2-Nitroaniline		ND	ND
Dimethyl Phthalate		ND	ND
Acenaphthylene		ND	ND
3-Nitroaniline		ND	ND
Acenaphthene		ND	ND

μg/L - Micrograms per liter

J - Estimated value

ND - Not detected

SAUGET Analytical Data
Site Area 2 Private Wells

GROUND WATER SAMPLES
Base Neutrals/Acids (µg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-56	Maximum
	Well Number	CLAYTON	Concentration
	Date Collected	03/26/87	Detected
BNAs			
2,4-Dinitrophenol		ND	ND
4-Nitrophenol		ND	ND
Dibenzofuran		ND	ND
2,4-Dinitrotoluene		ND	ND
2,6-Dinitrotoluene		ND	ND
Diethylphthalate		ND	ND
4-Chlorophenyl-Phenylether		ND	ND
Fluorene		ND	ND
4-Nitroaniline		ND	ND
4,6-Dinitro-2-methylphenol		ND	ND
N-Nitrosodiphenylamine		ND	ND
4-Bromophenyl-phenylether		ND	ND
Hexachlorobenzene		ND	ND
Pentachlorophenol		ND	ND
Phenanthrene		ND	ND
Anthracene		ND	ND
Di-n-butly phthalate		ND	ND
Fluoranthene		ND	ND
Pyrene		ND	ND
Butyl Benzyl phthalate		ND	ND
3,3'-Dichlorobenzidine		ND	ND
Benzo (a)anthracene		ND	ND
bis(2-ethylhexyl)phthalate		ND	ND
Chrysene		ND	ND
Di-n-octyl phthalate		6 J	6 J
Benzo(b)fluoranthene		ND	ND
Benzo(k)fluoranthene		ND	ND
Benzo (a)pyrene		ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND
Benzo(g,h,l)perylene		ND	ND
Dibenzo(a,h)anthracene		ND	ND

µg/L - Micrograms per liter
J - Estimated value
ND - Not detected

SAUGET Analytical Data
Site Area 2 Private Wells

GROUND WATER SAMPLES
Pesticides/PCBs (μg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-56	Maximum
	Well Number	CLAYTON	Concentration
	Date Collected	03/26/87	Detected
Pesticides/PCBs			
Alpha-BHC		ND	ND
Beta-BHC		ND	ND
Delta-BHC		ND	ND
Gamma-BHC (Lindane)		ND	ND
Heptachlor		ND	ND
Aldrin		ND	ND
Heptachlor Epoxide		ND	ND
Endosulfan I		ND	ND
Dieldrin		ND	ND
4,4'-DDE		ND	ND
Endrin		ND	ND
Endosulfan II		ND	ND
4,4'-DDD		ND	ND
Endosulfan sulfate		ND	ND
4,4'-DDT		ND	ND
Methoxychlor		ND	ND
Endrin Ketone		ND	ND
Chlordane		ND	ND
Toxaphene		ND	ND
Aroclor-1016		ND	ND
Aroclor-1221		ND	ND
Aroclor-1232		ND	ND
Aroclor-1242		ND	ND
Aroclor-1248		ND	ND
Aroclor-1254		ND	ND
Aroclor-1260		ND	ND

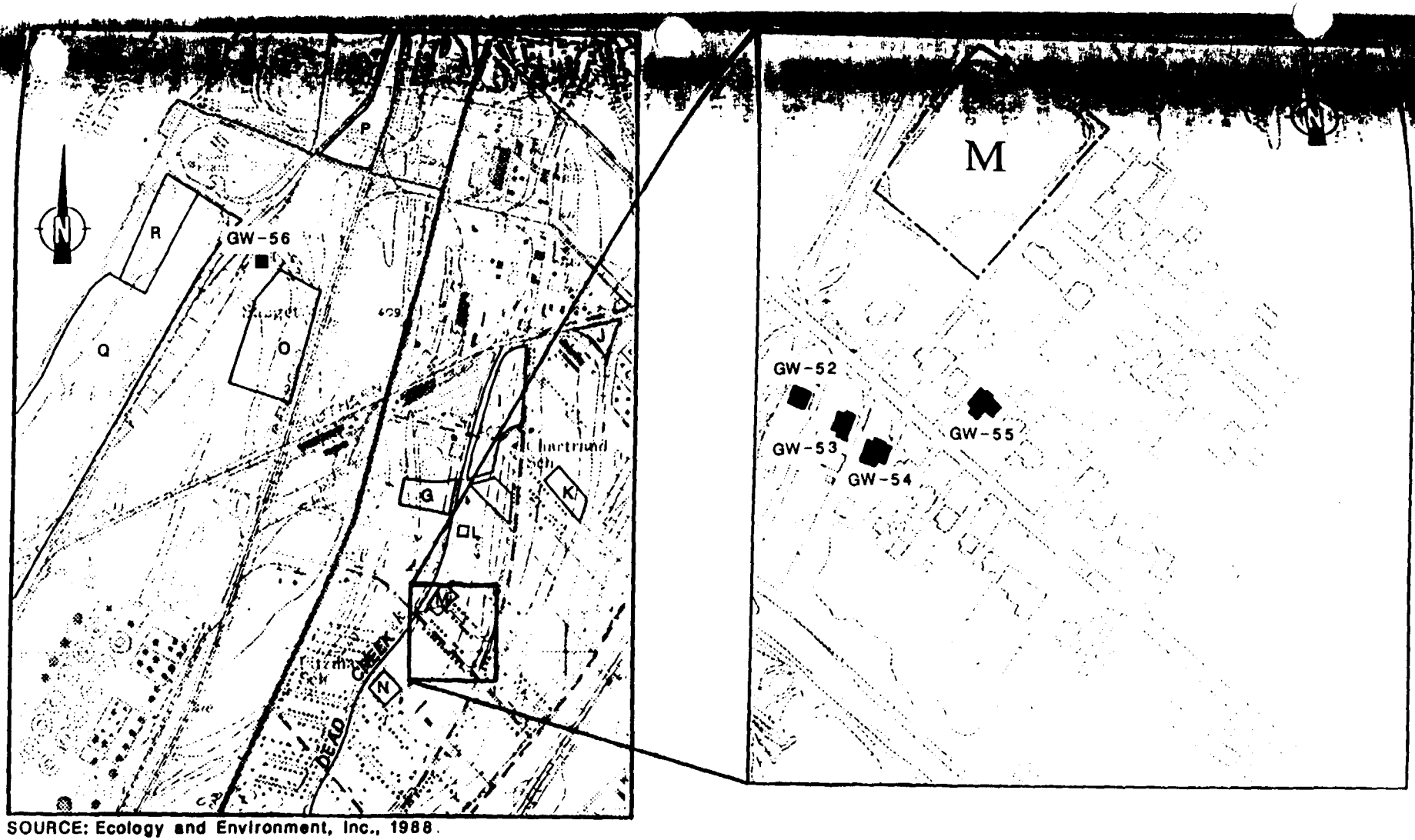
μg/L - Micrograms per liter
ND - Not detected

SAUGET Analytical Data
Site Area 2 Private Wells

GROUND WATER SAMPLES
Total Metals (µg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-56	Maximum
	Well Number	CLAYTON	Concentration
	Date Collected	03/26/87	Detected
Total Metals			
Aluminum		ND	ND
Antimony		ND	ND
Arsenic		ND	ND
Barium		**300**	**300**
Beryllium		ND	ND
Boron		ND	ND
Cadmium		ND	ND
Chromium		ND	ND
Cobalt		ND	ND
Copper		ND	ND
Iron		**17400**	**17400**
Lead		ND	ND
Manganese		**1950**	**1950**
Mercury		ND	ND
Nickel		ND	ND
Selenium		ND	ND
Silver		ND	ND
Thallium		ND	ND
Tin		ND	ND
Vanadium		ND	ND
Zinc		ND	ND
Cyanide		ND	ND

µg/L - Micrograms per liter
ND - Not detected



SOURCE: Ecology and Environment, Inc., 1988.

FIGURE 3-15 PRIVATE WELL SAMPLING LOCATIONS

SAUGET Analytical Data
Site Q

GROUND WATER SAMPLES
Volatile Organic Compounds (µg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-01	DC-GW-02	DC-GW-03	DC-GW-04	DC-GW-05	DC-GW-06	DC-GW-07	DC-GW-08	DC-GW-09	Maximum
	Well Number	EE-06	EE-07	EE-09	EE-10	EE-17	EE-08	EE-19	EE-19	EE-18	Concentration
	Date Collected	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	3/16/87	3/16/87	3/16/87	3/16/87	Detected
VOC											
Chloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	23 J	61 J	2200 BJ	2200 BJ
Acetone		15	9 BJ	10 B	14 B	12 B	13 B	400 B	210 B	7100 B	7100 BJ
Carbon Disulfide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		ND	1 J	ND	ND	4 J	ND	ND	ND	ND	4 J
Chloroform		ND	ND	ND	ND	1 J	ND	ND	ND	ND	1 J
1,2-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	3000	3000
2-Butanone (MEK)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene		ND	ND	ND	ND	2 J	ND	ND	ND	ND	2 J
Dibromochloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene		9	24	1 J	14	1 J	1 J	2000	2000	2000 J	2000 J
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone		ND	ND	ND	ND	ND	ND	250	290	2700 J	2700 J
2-Hexanone		ND	5 J	ND	ND	ND	ND	ND	ND	3500 J	3500 J
Tetrachloroethene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene		ND	4 J	ND	ND	ND	ND	450	410	1600 J	1600 J
Chlorobenzene		14	1 J	33	380 E	29	7	1500	1400	6700 J	6700 J
Ethylbenzene		ND	1 J	ND	ND	ND	ND	33 J	28 J	ND	33 J
Styrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes		2	230	ND	ND	ND	ND	180	160	ND	230

µg/L - Micrograms per liter.

B - Compound detected in blank sample.

J - Estimated value.

ND - Not detected.

Filename: Gwsiteq.xls - Table: GW VOCs

recycled paper
ecology and environment

SAUGET Analytical Data
Site Q

GROUND WATER SAMPLES
Base Neutrals/Acids (µg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-01	DC-GW-02	DC-GW-03	DC-GW-04	DC-GW-05	DC-GW-06	DC-GW-07	DC-GW-08	DC-GW-09	Maximum
	Sample Depth (ft)	EE-06	EE-07	EE-09	EE-10	EE-17	EE-08	EE-19	EE-19	EE-18	Concentration
	Date Collected	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	Detected
BNAs											
Phenol		ND	ND	ND	ND	ND	ND	110000 E	190000 E	6100 E	190000 E
bis(2-Chloroethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	4 J	ND	ND	20000 E	33000 E	2600	33000 E
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	4	ND	ND	220 J	250	70 J	250
Benzyl Alcohol		ND	ND	ND	ND	ND	ND	460	490	180	490
1,2-Dichlorobenzene		ND	ND	ND	ND	ND	ND	260	300	2000	2000
2-Methylphenol		ND	ND	ND	ND	ND	ND	190 J	350	10 J	350
bis(2-Chloroisopropyl)ether		ND	3 J	ND	ND	ND	ND	ND	ND	ND	3
4-Methylphenol		ND	ND	ND	ND	ND	ND	14000 E	23000 E	850	23000 E
N-Nitroso-n-Dipropylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND	ND	ND	100 J	820	820
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	5 J	ND	ND	ND	ND	ND	2800	62	2800
Benzoic Acid		ND	10 J	ND	ND	ND	ND	ND	ND	600	600
bis-(2-Chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND	ND	1900 E	14000 E	7600 E	14000 E
1,2,4-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	390	390
Naphthalene		ND	ND	ND	ND	ND	ND	41 J	42 J	70	70
4-Chloroaniline		120	ND	ND	ND	ND	ND	14000 E	15000 E	4400	15000 E
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphathalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	4100	6000	1800	6000
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND	ND	ND	1700	1800	2000	2000
Dimethyl Phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	ND	ND	3900	ND	460 J	3900
3-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

µg/L - Micrograms per liter.

B - Compound detected in blank sample.

E - Estimated value. Concentration detected exceeds the calibrated range.

J - Estimated value.

ND - Not Detected

SAUGET Analytical Data
Site Q

GROUND WATER SAMPLES
Base Neutrals/Acids (μg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-01	DC-GW-02	DC-GW-03	DC-GW-04	DC-GW-05	DC-GW-06	DC-GW-07	DC-GW-08	DC-GW-09	Maximum
	Sample Depth (ft)	EE-06	EE-07	EE-09	EE-10	EE-17	EE-08	EE-19	EE-19	EE-18	Concentration
	Date Collected	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	Detected
BNAs											
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	80 J	80 J
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenylether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol		ND	ND	ND	ND	ND	ND	24000 E	35000 E	310	35000 E
Phenanthrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butly phthalate		12 BJ	8 BJ	5 BJ	8 BJ	5 BJ	5 BJ	ND	ND	ND	12
Fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate		95	160	32	ND	26	ND	ND	ND	ND	160
Chrysene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	7 J	4 J	ND	ND	2 J	ND	ND	ND	7 J
Benzo(b)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

μg/L - Micrograms per liter.
B - Compound detected in blank sample.
E - Estimated value. Concentration detected exceeds the calibrated range.
J - Estimated value.
ND - Not Detected.

recycled paper
ecology and environment

SAUGET Analytical Data
Site Q

GROUND WATER SAMPLES
Pesticides/PCBs (μg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-01	DC-GW-02	DC-GW-03	DC-GW-04	DC-GW-05	DC-GW-06	DC-GW-07	DC-GW-08	DC-GW-09	Maximum
	Sample Depth (ft)	EE-06	EE-07	EE-09	EE-10	EE-17	EE-08	EE-19	EE-19	EE-18	Concentration
	Date Collected	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	Detected
Pesticides/PCBs											
Alpha-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1016		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

μg/L - Micrograms per liter.
ND - Not Detected.

SAUGET Analytical Data
Site Q

GROUND WATER SAMPLES
Total Metals (µg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-01	DC-GW-02	DC-GW-03	DC-GW-04	DC-GW-05	DC-GW-06	DC-GW-07	DC-GW-08	DC-GW-09	Maximum
	Sample Depth (ft)	EE-06	EE-07	EE-09	EE-10	EE-17	EE-08	EE-19	EE-19	EE-18	Concentration
	Date Collected	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	03/16/87	Detected
Total Metals											
Aluminum		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Antimony		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic		**64**	**82**	**18**	**100**	ND	ND	**11**	**11**	**15**	**100**
Barium		**384**	**482**	ND	**358**	ND	**336**	ND	ND	ND	**482**
Beryllium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium		ND	ND	ND	ND	ND	ND	ND	ND	**13**	**13**
Cobalt		ND	ND	ND	ND	ND	ND	ND	ND	**148**	**148**
Copper		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron		**8960**	**54000**	**16800**	**20000**	**571**	**11300**	**36700**	**36500**	**41200**	**54000**
Lead		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese		**1320**	**1600**	**522**	**1090**	**1640**	**13200**	**2660**	**2600**	**6630**	**13200**
Mercury		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel		**64**	**74**	ND	ND	ND	ND	ND	ND	**112**	**112**
Selenium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc		**25**	**326**	**26**	**22**	**313**	**48**	**172**	**171**	**4.31**	**326**
Cyanide		**1560**	ND	ND	ND	ND	ND	ND	ND	ND	**1560**

µg/L - Micrograms per liter.
ND - Not Detected.

recycled paper
ecology and environment

SAUGET Analytical Data
Site O

GROUND WATER SAMPLES
Volatile Organic Compounds (µg/L)
Collected by Ecology & Environment, Inc. (3/87, 7/87)

	Sample Number	DC-GW-38	DC-GW-38A	DC-GW-39	DC-GW-39A	DC-GW-40	DC-GW-40A	DC-GW-41	DC-GW-41A	DC-GW-42	DC-GW-43
	Well Number	EE-21	EE-21	EE-22	EE-22	EE-23	EE-23	EE-24	EE-24	EE-24	EE-25
	Date Collected	03/24/87	07/14/87	03/24/87	07/14/87	03/24/87	7/14/87	3/24/87	7/14/87	3/24/87	3/24/87
VOC											
Chloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	52000	31000	ND	ND	ND	ND	310	ND
Acetone		7 J	ND	38000 B	34000	6 J	ND	10	ND	430	5 J
Carbon Disulfide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	1700	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		ND	ND	ND	14000	ND	ND	ND	ND	94 J	ND
Chloroform		ND	ND	3000 J	1800	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		ND	ND	4000 J	2600	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)		ND	13 B	62000	54000 E	ND	11 B	ND	ND	570	ND
1,1,1-Trichloroethane		ND	ND	7800	5000	ND	ND	ND	ND	43 J	ND
Carbon Tetrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene		ND	ND	83000	64000 E	ND	ND	ND	ND	1000	ND
Dibromochloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene		ND	ND	190000	150000 E	ND	ND	10	20	1800	ND
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone		ND	ND	38000	28000	ND	ND	ND	ND	ND	ND
2-Hexanone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	10000	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	12000	ND	ND	ND	ND	ND	ND
Toluene		ND	ND	15000	1300	ND	17	1 J	ND	130	ND
Chlorobenzene		ND	ND	150000	180000 E	ND	ND	5	8	1000	ND
Ethylbenzene		ND	ND	ND	860	ND	ND	ND	ND	ND	ND
Styrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes		ND	ND	4600 J	2600	ND	ND	2 J	ND	27 J	ND

µg/L - Micrograms per liter.

B - Compound detected in blank sample.

E - Estimated value. Concentration detected exceeds the calibrated range.

J - Estimated value.

ND - Not detected.

Filename: Gwsiteo.xls - Table: GW VOCs

recycled paper

ecology and environment

SAUGET Analytical Data
Site G

GROUND WATER SAMPLES
Volatile Organic Compounds (µg/L)
Collected by Ecology & Environment, Inc. (3/87, 7/87)

	Sample Number	DC-GW-43A	DC-GW-35	DC-GW-57	Maximum
	Well Number	EE-25	NA	NA	Concentration
	Date Collected	07/14/87	03/24/87	07/14/87	Detected
VOC			BLANK	BLANK	
Chloromethane		ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND
Vinyl chloride		ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND
Methylene chloride		ND	2 J	ND	52000
Acetone		ND	13 B	ND	38000 B
Carbon Disulfide		ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	1700
trans-1,2-Dichloroethene		ND	ND	ND	14000
Chloroform		ND	1 J	ND	3000 J
1,2-Dichloroethane		ND	ND	ND	4000 J
2-Butanone (MEK)		5 BJ	ND	ND	62000
1,1,1-Trichloroethane		ND	ND	ND	7800
Carbon Tetrachloride		ND	ND	ND	ND
Vinyl Acetate		ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND
Trichloroethene		ND	ND	ND	83000
Dibromochloromethane		ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND
Benzene		ND	ND	ND	190000
cis-1,3-Dichloropropene		ND	ND	ND	ND
2-Chloroethyl Vinyl Ether		ND	ND	ND	ND
Bromoform		ND	ND	ND	ND
4-Methyl-2-pentanone		ND	ND	ND	38000
2-Hexanone		ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	10000
1,1,2,2-Tetrachloroethane		ND	ND	ND	12000
Toluene		ND	ND	ND	15000
Chlorobenzene		ND	ND	ND	180000 E
Ethylbenzene		ND	ND	ND	860
Styrene		ND	ND	ND	ND
Total Xylenes		ND	ND	ND	4600 J

µg/L - Micrograms per liter.

B - Compound detected in blank sample.

E - Estimated value. Concentration detected exceeds the calibrated range.

J - Estimated value

ND - Not detected

SAUGET Analytical Data
Site O

GROUND WATER SAMPLES
Base Neutrals/Acids (µg/L)
Collected by Ecology & Environment, Inc. (3/87, 7/87)

	Sample Number	DC-GW-38	DC-GW-38A	DC-GW-39	DC-GW-39A	DC-GW-40	DC-GW-40A	DC-GW-41	DC-GW-41A	DC-GW-42	DC-GW-43
	Well Number	EE-21	EE-21	EE-22	EE-22	EE-23	EE-23	EE-24	EE-24	EE-24	EE-25
	Date Collected	03/24/87	07/14/87	03/24/87	07/14/87	03/24/87	07/14/87	03/24/87	07/14/87	03/24/87	03/24/87
BNAs											
Phenol		ND	ND	500	1100	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether		ND	ND	ND	91 J	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	120	58 J	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	320	290	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	10000 E	15000 E	ND	ND	ND	ND	ND	ND
Benzyl Alcohol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	7800	11000 E	ND	ND	ND	ND	ND	ND
2-Methylphenol		ND	ND	78 J	120	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	820	1100	ND	ND	ND	ND	ND	ND
N-Nitroso-n-Dipropylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	350	400	ND	ND	ND	ND	ND	ND
Benzoic Acid		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis-(2-Chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	30 J	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	270	200	ND	ND	ND	ND	ND	ND
Naphthalene		ND	ND	160	100	ND	ND	ND	ND	ND	ND
4-Chloroaniline		ND	ND	780	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphathalene		ND	ND	6 J	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

µg/L - Micrograms per liter.

B - Compound detected in blank sample.

E - Estimated value. Concentration detected exceeds the calibrated range.

J - Estimated value.

ND - Not detected.

recycled paper

ecology and environment

SAUGET Analytical Data
Site O

GROUND WATER SAMPLES
Base Neutrals/Acids (µg/L)
Collected by Ecology & Environment, Inc. (3/87, 7/87)

	Sample Number	DC-GW-38	DC-GW-38A	DC-GW-39	DC-GW-39A	DC-GW-40	DC-GW-40A	DC-GW-41	DC-GW-41A	DC-GW-42	DC-GW-43
	Well Number	EE-21	EE-21	EE-22	EE-22	EE-23	EE-23	EE-24	EE-24	EE-24	EE-25
	Date Collected	03/24/87	07/14/87	03/24/87	07/14/87	03/24/87	07/14/87	03/24/87	07/14/87	03/24/87	03/24/87
BNAs											
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenylether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol		ND	ND	23 J	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butly phthalate		ND	ND	ND	ND	ND	ND	10 B	7 J	10 B	ND
Fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate		ND	ND	ND	ND	ND	ND	3 BJ	ND	ND	ND
Chrysene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	2 BJ	ND	11 B	ND
Benzo(b)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

µg/L - Micrograms per liter.

B - Compound detected in blank sample.

E - Estimated value. Concentration detected exceeds the calibrated range.

J - Estimated value.

ND - Not detected.

SAUGET Analytical Data
Site O

GROUND WATER SAMPLES
Base Neutrals/Acids (µg/L)
Collected by Ecology & Environment, Inc. (3/87, 7/87)

	Sample Number	DC-GW-43A	DC-GW-35	DC-GW-57	Maximum
	Well Number	EE-25	NA	NA	Concentration
	Date Collected	07/14/87	03/24/87	07/14/87	Detected
BNAs			BLANK	BLANK	
Phenol		ND	ND	ND	**1100**
bis(2-Chloroethyl)ether		ND	ND	ND	**91 J**
2-Chlorophenol		ND	ND	ND	**120**
1,3-Dichlorobenzene		ND	ND	ND	**320**
1,4-Dichlorobenzene		ND	ND	ND	**15000 E**
Benzyl Alcohol		ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	**11000 E**
2-Methylphenol		ND	ND	ND	**120**
bis(2-Chloroisopropyl)ether		ND	ND	ND	ND
4-Methylphenol		ND	ND	ND	**1100**
N-Nitroso-n-Dipropylamine		ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND
Nitrobenzene		ND	ND	ND	ND
Isophorone		ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	**400**
Benzoic Acid		ND	ND	ND	ND
bis-(2-Chloroethoxy)methane		ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	**30 J**
1,2,4-Trichlorophenol		ND	ND	ND	**270**
Naphthalene		ND	ND	ND	**160**
4-Chloroaniline		ND	ND	ND	**780**
Hexachlorobutadiene		ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND
2-Methylnaphathalene		ND	ND	ND	**6 J**
Hexachlorocyclopentadiene		ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND
2,4,5-Trichlorophenol		ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND
Dimethyl Phthalate		ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND
3-Nitroaniline		ND	ND	ND	ND
Acenaphthene		ND	ND	ND	ND

µg/L - Micrograms per liter.

B - Compound detected in blank sample.

E - Estimated value. Concentration detected exceeds the calibrated range.

J - Estimated value.

ND - Not detected.

recycled paper
ecology and environment

SAUGET Analytical Data
Site O

GROUND WATER SAMPLES
Base Neutrals/Acids (μg/L)
Collected by Ecology & Environment, Inc. (3/87, 7/87)

	Sample Number	DC-GW-43A	DC-GW-35	DC-GW-57	Maximum
	Well Number	EE-25	NA	NA	Concentration
	Date Collected	07/14/87	03/24/87	07/14/87	Detected
BNAs			BLANK	BLANK	
2,4-Dinitrophenol		ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND
Diethylphthalate		ND	ND	ND	ND
4-Chlorophenyl-Phenylether		ND	ND	ND	ND
Fluorene		ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND
4-Bromophenyl-phenylether		ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND
Pentachlorophenol		ND	ND	ND	23 J
Phenanthrene		ND	ND	ND	ND
Anthracene		ND	ND	ND	ND
Di-n-butly phthalate		ND	6 BJ	ND	10 B
Fluoranthene		ND	ND	ND	ND
Pyrene		ND	ND	ND	ND
Butyl Benzyl phthalate		ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND
Benzo (a)anthracene		ND	ND	ND	ND
bis(2-ethylhexyl)phthalate		ND	2 BJ	ND	3 BJ
Chrysene		ND	ND	ND	ND
Di-n-octyl phthalate		ND	3 BJ	ND	11 B
Benzo(b)fluoranthene		ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND
Benzo (a)pyrene		ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND

μg/L - Micrograms per liter.
B - Compound detected in blank sample.
E - Estimated value. Concentration detected exceeds the calibrated range.
J - Estimated value.
ND - Not detected.

SAUGET Analytical Data
Site O

GROUND WATER SAMPLES
Pesticides/PCBs (µg/L)
Collected by Ecology & Environment, Inc. (3/87, 7/87)

	Sample Number	DC-GW-38	DC-GW-38A	DC-GW-39	DC-GW-39A	DC-GW-40	DC-GW-40A	DC-GW-41	DC-GW-41A	DC-GW-42	DC-GW-43
	Well Number	EE-21	EE-21	EE-22	EE-22	EE-23	EE-23	EE-24	EE-24	EE-24	EE-25
	Date Collected	03/24/87	07/14/87	03/24/87	07/14/87	03/24/87	07/14/87	03/24/87	07/14/87	03/24/87	03/24/87
Pesticides/PCBs											
Alpha-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1016		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

µg/L - Micrograms per liter.
ND - Not detected.

recycled paper
ecology and environment

SAUGET Analytical Data
Site O

GROUND WATER SAMPLES
Pesticides/PCBs (µg/L)
Collected by Ecology & Environment, Inc. (3/87, 7/87)

	Sample Number		DC-GW-43A	DC-GW-35	DC-GW-57	Maximum
	Well Number		EE-25	NA	NA	Concentration
	Date Collected		07/14/87	03/24/87	07/14/87	Detected
Pesticides/PCBs				BLANK	BLANK	
Alpha-BHC			ND	ND	ND	ND
Beta-BHC			ND	ND	ND	ND
Delta-BHC			ND	ND	ND	ND
Gamma-BHC (Lindane)			ND	ND	ND	ND
Heptachlor			ND	ND	ND	ND
Aldrin			ND	ND	ND	ND
Heptachlor Epoxide			ND	ND	ND	ND
Endosulfan I			ND	ND	ND	ND
Dieldrin			ND	ND	ND	ND
4,4'-DDE			ND	ND	ND	ND
Endrin			ND	ND	ND	ND
Endosulfan II			ND	ND	ND	ND
4,4'-DDD			ND	ND	ND	ND
Endosulfan sulfate			ND	ND	ND	ND
4,4'-DDT			ND	ND	ND	ND
Methoxychlor			ND	ND	ND	ND
Endrin Ketone			ND	ND	ND	ND
Chlordane			ND	ND	ND	ND
Toxaphene			ND	ND	ND	ND
Aroclor-1016			ND	ND	ND	ND
Aroclor-1221			ND	ND	ND	ND
Aroclor-1232			ND	ND	ND	ND
Aroclor-1242			ND	ND	ND	ND
Aroclor-1248			ND	ND	ND	ND
Aroclor-1254			ND	ND	ND	ND
Aroclor-1260			ND	ND	ND	ND

µg/L - Micrograms per liter.

ND - Not detected.

SAUGET Analytical Data
Site O

GROUND WATER SAMPLES
Total Metals (µg/L)
Collected by Ecology & Environment, Inc. (3/87, 7/87)

	Sample Number	DC-GW-38	DC-GW-38A	DC-GW-39	DC-GW-39A	DC-GW-40	DC-GW-40A	DC-GW-41	DC-GW-41A	DC-GW-42	DC-GW-43
	Sample Depth (ft)	EE-21	EE-21	EE-22	EE-22	EE-23	EE-23	EE-24	EE-24	EE-24	EE-25
	Date Collected	03/24/87	07/14/87	03/24/87	07/14/87	03/24/87	07/14/87	03/24/87	07/14/87	03/24/87	03/24/87
Total Metals											
Aluminum		ND	200	ND	ND	ND	ND	ND	ND	ND	ND
Antimony		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic		16	ND	133	123	25	17	18	15	23	ND
Barium		159	[35]	536	500	[161]	[152]	[170]	204	[184]	141
Beryllium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium		ND	ND	8	11	ND	ND	ND	ND	ND	ND
Chromium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron		20400	15900	147000	171000	19600	16800	36400	29200	36600	3930
Lead		ND	3270	ND	6350	ND	ND	ND	ND	ND	ND
Manganese		4340	ND	5460	ND	1270	1330	4110	1520	4300	2300
Mercury		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium		ND	ND	42	55	ND	ND	504	ND	ND	ND
Zinc		41	57	101	40	95	[15]	23	24	34	26
Cyanide		20	ND	ND	ND	ND	ND	ND	ND	ND	ND

µg/L - Micrograms per liter.
ND - Not detected.

recycled paper
ecology and environment

SAUGET Analytical Data
Site O

GROUND WATER SAMPLES
Total Metals (µg/L)
Collected by Ecology & Environment, Inc. (3/87, 7/87)

	Sample Number	DC-GW-43A	DC-GW-35	DC-GW-57	Maximum
	Sample Depth (ft)	EE-25	NA	NA	Concentration
	Date Collected	07/14/87	03/24/87	07/14/87	Detected
Total Metals			BLANK	BLANK	
Aluminum		ND	ND	ND	**200**
Antimony		ND	ND	ND	ND
Arsenic		**[92]**	ND	ND	**133**
Barium		ND	ND	ND	**536**
Beryllium		ND	ND	ND	ND
Boron		ND	ND	ND	ND
Cadmium		ND	ND	ND	**11**
Chromium		ND	ND	ND	ND
Cobalt		ND	ND	ND	ND
Copper		ND	ND	ND	ND
Iron		**2360**	**111**	**[87]**	**171000**
Lead		ND	ND	ND	**6350**
Manganese		**1520**	ND	ND	**5460**
Mercury		ND	ND	ND	ND
Nickel		ND	ND	ND	ND
Selenium		ND	ND	ND	ND
Silver		ND	ND	ND	ND
Thallium		ND	ND	ND	ND
Tin		ND	ND	ND	ND
Vanadium		ND	ND	ND	**504**
Zinc		**24**	**10**	ND	**101**
Cyanide		ND	ND	ND	**20**

µg/L - Micrograms per liter.
ND - Not detected.

SAUGET Analytical Data
Site R

GROUND WATER SAMPLES
Volatile Organic Compounds (µg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-44	DC-GW-45	DC-GW-46	DC-GW-47	DC-GW-48	DC-GW-49	DC-GW-50	DC-GW-51	Maximum
	Well Number	P-1	B-28A	P-7	B-26A	B-26A	B-25A	P-11	NA	Concentration
	Date Collected	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	3/25/87	3/25/87	Detected
VOC									BLANK	
Chloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	2 J	2 J
Acetone		ND	71 B	1700 B	3 BJ	36 BJ	1600 B	26	3 BJ	1700 B
Carbon Disulfide		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	ND	7	ND	ND	ND	ND	7
1,1-Dichloroethane		ND	ND	ND	3 J	ND	ND	ND	ND	3 J
trans-1,2-Dichloroethene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND	ND	ND	1 J	1 J
1,2-Dichloroethane		ND	ND	ND	ND	ND	16000	ND	ND	16000
2-Butanone (MEK)		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene		2 J	ND	1500	41	44 J	ND	150	ND	1500
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone		ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene		ND	ND	480	7 B	13 BJ	760 J	ND	ND	760 J
Chlorobenzene		350 E	990	5000	190	199	8100	570	1 J	8100
Ethylbenzene		ND	ND	ND	2 J	ND	ND	ND	ND	2 J
Styrene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes		ND	ND	95 J	7	ND	ND	ND	ND	95 J

µg/L - Micrograms per liter.
B - Compound detected in blank sample.
J - Estimated value.
ND - Not Detected.

recycled paper
printed on recycled paper

SAUGET Analytical Data
Site R

GROUND WATER SAMPLES
Base Neutrals/Acids (µg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-44	DC-GW-45	DC-GW-46	DC-GW-47	DC-GW-48	DC-GW-49	DC-GW-50	DC-GW-51	Maximum
	Well Number	P-1	B-28A	P-7	B-26A	B-26A	B-25A	P-11	NA	Concentration
	Date Collected	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	Detected
BNAs									BLANK	
Phenol		ND	ND	25000 E	ND	ND	60000 E	ND	ND	60000 E
bis(2-Chloroethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		4 J	8 J	2100	8 J	9 J	14000 E	ND	ND	14000 E
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		8 J	ND	550	4 J	3 J	ND	54 J	ND	550
Benzyl Alcohol		ND	ND	750	ND	ND	ND	ND	ND	750
1,2-Dichlorobenzene		ND	ND	340	1 J	1 J	91 J	ND	ND	340
2-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	120 J	ND	ND	6100	ND	ND	6100
N-Nitroso-n-Dipropylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	850	ND	ND	ND	ND	ND	850
Nitrobenzene		ND	ND	ND	35	29	420	ND	ND	420
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND	160	ND	ND	160
Benzoic Acid		ND	ND	270 J	ND	ND	6800	ND	ND	6800
bis-(2-Chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	5500	ND	ND	14000 E	ND	ND	14000 E
1,2,4-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		ND	ND	82 J	ND	ND	ND	ND	ND	82 J
4-Chloroaniline		ND	ND	25000 E	680	540	ND	4100	ND	25000 E
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphathalene		ND	ND	200	ND	ND	ND	ND	ND	200
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	2100	ND	ND	1500	ND	ND	2100
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND	ND

µg/L - Micrograms per liter.

B - Compound detected in blank sample.

E - Estimated value. Concentration detected exceeds the calibrated range.

J - Estimated value.

ND - Not Detected

SAUGET Analytical Data
Site R

GROUND WATER SAMPLES
Base Neutrals/Acids (μg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-44	DC-GW-45	DC-GW-46	DC-GW-47	DC-GW-48	DC-GW-49	DC-GW-50	DC-GW-51	Maximum
	Well Number	P-1	B-28A	P-7	B-26A	B-26A	B-25A	P-11	NA	Concentration
	Date Collected	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	Detected
BNAs									BLANK	
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenylether		ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether		ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butly phthalate		7 J	ND	ND	ND	ND	ND	ND	ND	7 J
Fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate		ND	4 J	ND	37	4	ND	ND	4 J	37
Chrysene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	4 J	ND	40	26	ND	ND	5 J	40
Benzo(b)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND

μg/L - Micrograms per liter.
B - Compound detected in blank sample.
E - Estimated value. Concentration detected exceeds the calibrated range.
J - Estimated value.
ND - Not Detected.

recycled paper
ecology and environment

SAUGET Analytical Data
Site R

GROUND WATER SAMPLES
Pesticides/PCBs (μg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-44	DC-GW-45	DC-GW-46	DC-GW-47	DC-GW-48	DC-GW-49	DC-GW-50	DC-GW-51	Maximum
	Well Number	P-1	B-28A	P-7	B-26A	B-26A	B-25A	P-11	NA	Concentration
	Date Collected	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	Detected
Pesticides/PCBs									BLANK	
Alpha-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)		ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor		ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin		ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide		ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I		ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin		ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin		ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II		ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD		ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate		ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT		ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor		ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane		ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1016		ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221		ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232		ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242		ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248		ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254		ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260		ND	ND	ND	ND	ND	ND	ND	ND	ND

μg/L - Micrograms per liter.
ND - Not Detected.

SAUGET Analytical Data
Site R

GROUND WATER SAMPLES
Total Metals (μg/L)
Collected by Ecology & Environment, Inc. (3/87)

	Sample Number	DC-GW-44	DC-GW-45	DC-GW-46	DC-GW-47	DC-GW-48	DC-GW-49	DC-GW-50	DC-GW-51	Maximum
	Well Number	P-1	B-28A	P-7	B-26A	B-26A	B-25A	P-11	NA	Concentration
	Date Collected	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	03/25/87	Detected
Total Metals									BLANK	
Aluminum		ND	ND	ND	ND	ND	ND	ND	ND	ND
Antimony		ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic		34	41	ND	48	45	ND	35	ND	48
Barium		440	[123]	[27]	[194]	201	ND	[168]	ND	440
Beryllium		ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron		ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium		ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt		ND	ND	120	ND	ND	ND	ND	ND	120
Copper		ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron		10800	20800	15500	26900	27500	ND	11800	ND	27500
Lead		ND	ND	ND	ND	ND	ND	ND	[91]	[91]
Manganese		2190	6840	11200	3530	3570	ND	2640	ND	11200
Mercury		ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel		ND	ND	[18]	ND	ND	ND	ND	ND	[18]
Selenium		ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver		ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium		ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin		ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium		ND	ND	[18]	ND	ND	ND	ND	ND	[18]
Zinc		45 R	24 R	102 R	41 R	62 R	ND	39 R	[10]	102 R
Cyanide		ND	ND	ND	ND	ND	ND	14	ND	14

μg/L - Micrograms per liter.
ND - Not Detected.
R - Spike sample recovery not within control limits.

recycled paper
ecology and environment

NOTE: THE FOLLOWING DATA SUMMARY TABLES PERTAIN TO SAMPLE LOCATIONS ASSOCIATED WITH SITE "O" AND THE AMERICAN BOTTOMS WWTP PROPERTY AS A WHOLE.

recycled paper

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Volatile Organic Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-19A	GM-19A	GM-19A	GM-19B	GM-19B	GM-19B	GM-19B	GM-19B	GM-19B	GM-19C	Maximum
	Date Collected	9/84**	11/84	11/85	9/84**	11/84	2/85	2/85*	11/85	11/85*	9/84**	Detected
VOC												Max
Acrolein		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene		5	ND	6.21	6	ND	ND	ND	ND	ND	10	10
Bis (chloromethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride		ND	ND	20.1	23	24	ND	ND	ND	ND	ND	24
Chlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	26	26
Chlorodibromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND	ND	ND	ND	ND	2	2
Dichlorobromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloroproy;ene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene		ND	ND	10.9	ND	ND	ND	ND	ND	ND	ND	10.9
Methyl Bromide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride		17	ND	ND	20	ND	ND	ND	4.06	ND	6	20
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	51	65	8.1	8.3	ND	ND	ND	65
Toluene		ND	ND	ND	2	ND	ND	ND	ND	ND	2	2
1,2-trans-dichloroethylene		ND	ND	ND	8	15	6.5	6.4	7.4	6.95	ND	15
1,1,1-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene		ND	ND	ND	32	76	16.1	16.3	6.18	8.91	ND	76
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	32	32
SUB TOTAL		24	0	37.21	142	180	59.4	57.2	17.64	15.86	78	180
Miscellaneous VOC												
Methyl-iso-butyl ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl isoamyl ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m-xylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-xylene/p-xylene		ND	ND	26.2	ND	ND	ND	ND	ND	ND	ND	26.2
SUB TOTAL 2		0	0	26.2	0	0	0	0	0	0	0	26.2
TOTAL VOCs ANALYZED		24	0	63.41	142	180	59.4	57.2	17.64	15.86	78	

ecology and environment

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Volatile Organic Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-19C	GM-19C	GM-20A	GM-20A	GM-20A	GM-20B	GM-20B	GM-20B	GM-21A	GM-21A	Maximum
	Date Collected	11/84	2/85	9/84**	11/85	2/86	9/84**	2/85	11/85	9/84**	11/85	Detected
VOC												Max
Acrolein		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene		44	82.1	5	52.2	ND	316	316	58	3	5.25	316
Bis (chloromethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		47	102	1	50.3	7.7	384	384	92.4	3	ND	384
Chlorodibromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		ND	ND	2	ND	ND	ND	ND	ND	ND	ND	2
Dichlorobromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND	109	69.6	32.7	15	5.66	109
1,1-Dichloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloroproy;ene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Bromide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Chloride		ND	ND	9	ND	ND	15	ND	ND	8	ND	15
Methylene Chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	2	ND	2
Tetrachloroethylene		ND	ND	ND	ND	ND	2	ND	ND	ND	ND	2
Toluene		10	ND	ND	ND	ND	187	89	45.2	2	ND	187
1,2 [illegible]s-dichloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	33	2.95	33
1,1, [illegible]ichloroethane		44	ND	7	ND	ND	ND	ND	ND	ND	5.8	44
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene		ND	ND	ND	2.33	ND	ND	ND	ND	ND	2.72	2.72
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride		26	51.3	ND	ND	ND	173	95.7	34.3	ND	ND	173
SUB TOTAL		171	235.4	24	104.83	7.7	1001	954.3	262.6	66	234.18	
Miscellaneous VOC												
Methyl-iso-butyl ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl isoamyl ketone		ND	19	ND	ND	ND	ND	ND	ND	ND	ND	19
m-xylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-xylene/p-xylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUB TOTAL 2		0	19	0	0	0	0	0	0	0	0	19
TOTAL VOCs ANALYZED		171	0	24	104.83	7.7	1001	954.3	262.6	66	234.18	

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Volatile Organic Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-21A	GM-21B	GM-21B	GM-22A	GM-22A	GM-22A	GM-22B	GM-22B	GM-22B	GM-23	Maximum
	Date Collected	2/86	2/85	5/85	9/84**	2/85	11/85	2/85	2/85*	5/85	9/84**	Detected
VOC												Max
Acrolein		ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile		ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Benzene		ND	151	280.5	690	484	6,980	8.9	9.5	6.8	ND	6980
Bis (chloromethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		123	310	1,862.10	549	323	2,980	41.5	40.9	33.2	ND	2980
Chlorodibromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	223	259	ND	ND	ND	ND	259
2-Chloroethylvinyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		ND	12	ND	245	321	1,100	5.7	5.6	ND	ND	1100
Dichlorobromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	14.1	162.2	1,060	2,170	3,560	6.7	6.5	ND	ND	3560
1,2-Dichloroethane		ND	ND	ND	ND	ND	233	ND	ND	ND	ND	233
1,1-Dichloroethylene		ND	ND	4.5	ND	392	338	ND	ND	ND	ND	392
1,2-Dichloropropane		ND	ND	ND	ND	13.4	32.9	ND	ND	ND	ND	32.9
cis-1,3-Dichloropropylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloroproy;ene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene		ND	ND	ND	ND	119	401	ND	ND	ND	ND	401
Methyl Bromide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride		ND	ND	ND	1,790	9,410	13,400	21.6	19	ND	5	13400
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	551	524	ND	ND	ND	ND	551
Tetrachloroethylene		ND	ND	ND	ND	217	290	ND	ND	ND	ND	290
Toluene		ND	7.5	ND	454	286	5,460	9.4	9.3	ND	1	5460
1,2-trans-dichloroethylene		ND	15.8	189.2	5,570	16500	19,300	35.1	33.7	7.3	ND	19300
1,1,1-Trichloroethane		52.5	ND	ND	ND	452	2,920	ND	ND	ND	ND	2920
1,1,2-Trichloroethane		ND	ND	ND	ND	99.4	175	ND	ND	ND	ND	175
Trichloroethylene		8.07	ND	ND	4,840	483	2,140	19.8	19.1	28.9	ND	4840
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride		ND	19.7	189.6	ND	338	7,340	ND	ND	ND	ND	7340
SUB TOTAL		183.57	530.1	2688.1	15198	32381.8	67432.9	148.7	143.6	76.2	6	
Miscellaneous VOC												
Methyl-iso-butyl ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl isoamyl ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m-xylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-xylene/p-xylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUB TOTAL 2		0	0	0	0	7655	20670	21	20	0	0	20670
TOTAL VOCs ANALYZED		183.57	530.1	2688.1	15198	40036.8	88102.9	169.7	163.6	76.2	6	

recycled paper
ecology and environment

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Volatile Organic Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-23	GM-23	GM-24A	GM-24A	GM-24B	GM-24B	GM-26A	GM-26A	GM-26A	GM-26B	Maximum
	Date Collected	11/85	2/86	9/84	11/84	9/84	11/84	9/84**	11/85	2/86	9/84**	Detected
VOC												Max
Acrolein		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene		ND	ND	ND	ND	ND	117	ND	ND	ND	ND	117
Bis (chloromethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	7	7
Carbon Tetrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		ND	ND	ND	ND	18	ND	ND	ND	ND	ND	18
Chlorodibromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloroproy;ene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Bromide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Chloride		ND	ND	7	ND	4	ND	12	ND	ND	12	12
Methylene Chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	19	ND	ND	ND	ND	ND	ND	ND	19
Toluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-trans-dichloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUB TOTAL		0	0	26	0	22	117	12	0	0	19	
Miscellaneous VOC												
Methyl-iso-butyl ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl isoamyl ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m-xylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-xylene/p-xylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUB TOTAL 2		0	0	0	0	0	0	0	0	0	0	ND
TOTAL VOCs ANALYZED		0	0	26	0	22	117	12	0	0	19	

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Volatile Organic Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-26B	GM-26B	DW-35	DW-35	DW-36	DW-36	DW-A	DW-A	Field Blank	Field Blank	Maximum
	Date Collected	2/85	11/85	2/85	5/85	2/85	5/85	11/85	2/86	9/84	9/84	Detected
VOC												Max
Acrolein		ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND
Acrylonitrile		ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND
Benzene		ND	ND	ND	ND	ND	ND	996	343	ND	ND	996
Bis (chloromethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		ND	ND	ND	ND	ND	ND	1,100	594	53	1	1100
Chlorodibromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloroproy;ene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene		ND	ND	ND	ND	ND	ND	101	109	1	ND	109
Methyl Bromide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride		ND	ND	ND	ND	ND	ND	ND	ND	39	15	39
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene		ND	ND	ND	ND	ND	ND	ND	28.3	1	ND	28.3
1,2-trans-dichloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUB TOTAL		0	0	0	0	0	0	2197	1074.3	94	16	
Miscellaneous VOC												
Methyl-iso-butyl ketone		ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND
Methyl isoamyl ketone		ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND
m-xylene		ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND
o-xylene/p-xylene		ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND
SUB TOTAL 2		0	0	0	0	0	0	311	372.5	NA	NA	372.5
TOTAL VOCs ANALYZED		0	0	0	0	0	0	2508	1446.8	94	16	

recycled paper
ecology and environment

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Volatile Organic Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Maximum
	Date Collected	11/84	2/85	5/85	11/85	2/86	9/84	9/84	9/84	11/84	2/85	Detected
VOC												Max
Acrolein		ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND
Acrylonitrile		ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND
Benzene		28	ND	ND	ND	ND	1	31	30	ND	ND	31
Bis (chloromethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		24	ND	ND	ND	ND	ND	ND	ND	ND	ND	24
Chlorodibromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	4	ND	ND	ND	ND	4
2-Chloroethylvinyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND	2	ND	ND	ND	ND	2
Dichlorobromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene		ND	ND	ND	ND	ND	4	2	2	ND	ND	4
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloroproy;ene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Bromide		ND	ND	ND	ND	ND	3	ND	ND	ND	ND	3
Methyl Chloride		ND	ND	ND	ND	ND	5	ND	ND	ND	ND	5
Methylene Chloride		ND	ND	3.8	ND	6.5	130	44	32	ND	4	130
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene		ND	ND	ND	ND	ND	1	1	1	ND	ND	1
1,2-trans-dichloroethylene		ND	ND	ND	ND	ND	2	2	ND	ND	ND	2
1,1,1-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride		ND	ND	ND	ND	ND	6	ND	ND	ND	ND	6
SUB TOTAL		52	0	3.8	0	6.5	158	78	65	0	4	
Miscellaneous VOC												
Methyl-iso-butyl ketone		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Methyl isoamyl ketone		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
m-xylene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
o-xylene/p-xylene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
SUB TOTAL 2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
TOTAL VOCs ANALYZED		52	0	3.8	0	6.5	158	78	65	0	4	

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Volatile Organic Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number		Trip Blank	Trip Blank	Trip Blank								Maximum
	Date Collected		5/85	11/85	2/86								Detected
VOC													Max
Acrolein			ND	ND	NA								ND
Acrylonitrile			ND	ND	NA								ND
Benzene			ND	ND	NA								ND
Bis (chloromethyl)ether			ND	ND	NA								ND
Bromoform			ND	ND	NA								ND
Carbon Tetrachloride			ND	ND	NA								ND
Chlorobenzene			ND	ND	NA								ND
Chlorodibromomethane			ND	ND	NA								ND
Chloroethane			ND	ND	NA								ND
2-Chloroethylvinyl ether			ND	ND	NA								ND
Chloroform			ND	ND	NA								ND
Dichlorobromomethane			ND	ND	NA								ND
Dichlorodifluoromethane			ND	ND	NA								ND
1,1-Dichloroethane			ND	ND	NA								ND
1,2-Dichloroethane			ND	ND	NA								ND
1,1-Dichloroethylene			ND	ND	NA								ND
1,2-Dichloropropane			ND	ND	NA								ND
cis-1,3-Dichloropropylene			ND	ND	NA								ND
trans-1,3-Dichloroproy;ene			ND	ND	NA								ND
Ethylbenzene			ND	ND	NA								ND
Methyl Bromide			ND	ND	NA								ND
Methyl Chloride			ND	ND	NA								ND
Methylene Chloride			3.4	ND	NA								3.4
1,1,2,2-Tetrachloroethane			ND	ND	NA								ND
Tetrachloroethylene			ND	ND	NA								ND
Toluene			ND	ND	NA								ND
1,2-trans-dichloroethylene			ND	ND	NA								ND
1,1,1-Trichloroethane			ND	ND	NA								ND
1,1,2-Trichloroethane			ND	ND	NA								ND
Trichloroethylene			ND	ND	NA								ND
Trichlorofluoromethane			ND	ND	NA								ND
Vinyl Chloride			ND	ND	NA								ND
SUB TOTAL			3.4	0	NA								
Miscellaneous VOC													
Methyl-iso-butyl ketone			NA	NA	NA								ND
Methyl isoamyl ketone			NA	NA	NA								ND
m-xylene			NA	NA	NA								ND
o-xylene/p-xylene			NA	NA	NA								ND
SUB TOTAL 2			NA	NA	NA								ND
TOTAL VOCs ANALYZED			3.4	0	NA								

recycled paper
ecology and environment

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Acid Extractable Organic Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-19A	GM-19A	GM-19A	GM-19B	GM-19B	GM-19B	GM-19B	GM-19B	GM-19B	GM-19C	Maximum
	Date Collected	9/84**	11/84	11/85	9/84**	11/84	2/85	2/85*	11/85	11/85*	9/84**	Detected
ACID EXTRACTABLE												
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol		3	ND	1,430	26	ND	ND	6.1	ND	ND	ND	1430
Phenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	6.35	ND	ND	ND	ND	ND	ND	ND	6.35
SUB TOTAL		3	0	1440.05	26	0	0	6.1	0	0	47	
Miscellaneous Acid Ext.												
4-Chlorophenol		ND	ND	10.8	ND	ND	ND	ND	ND	ND	ND	10.8
SUB TOTAL 2		0	0	10.8	0	0	0	0	ND	ND	ND	10.8
TOTAL ACID EXT. ANALYZED		3	0	1450.85	26	0	0	6.1	0	0	47	

	Sample Number	GM-19C	GM-19C	GM-20A	GM-20A	GM-20A	GM-20B	GM-20B	GM-20B	GM-21A	GM-21A	Maximum
	Date Collected	11/84	2/85	9/84**	11/85	2/86	9/84**	2/85	11/85	9/84**	11/85	Detected
ACID EXTRACTABLE												
2-Chlorophenol		ND	ND	ND	ND	ND	4	ND	ND	ND	ND	4
2,4-Dichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol		63	58.1	7	22.4	ND	4	ND	ND	ND	ND	63
Phenol		ND	ND	ND	ND	ND	3	6.5	ND	ND	7.4	7.4
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUB TOTAL		63	58.1	7	22.4	0	11	6.5	0	0	7.4	
Miscellaneous Acid Ext.												
4-Chlorophenol		ND	ND	ND	ND	ND	ND	3.6	ND	ND	41	41
SUB TOTAL 2		0	0	0	0	0	0	3.6	ND	ND	41	41
TOTAL ACID EXT. ANALYZED		63	58.1	7	22.4	0	11	10.1	0	0	48.4	

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Acid Extractable Organic Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-21A	GM-21B	GM-21B	GM-22A	GM-22A	GM-22A	GM-22B	GM-22B	GM-22B	GM-23	Maximum
	Date Collected	2/86	2/85	5/85	9/84**	2/85	11/85	2/85	2/85*	5/85	9/84**	Detected
ACID EXTRACTABLE												
2-Chlorophenol		ND	ND	23 8	ND	11 2	44 3	ND	ND	ND	ND	44.3
2,4-Dichlorophenol		ND	ND	ND	ND	10 8	ND	ND	ND	ND	ND	10.8
2,4-Dimethylphenol		ND	ND	ND	14	ND	153	ND	ND	ND	ND	153
4,6-Dinitro-o-cresol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	272	ND	ND	ND	ND	ND	ND	272
4-Nitrophenol		ND	ND	ND	276	5	ND	ND	ND	ND	ND	276
p-Chloro-m-cresol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol		ND	45 1	ND	30	6 5	ND	51 6	42 4	ND	ND	51.6
Phenol		2 1	ND	7 6	357	1,260	263	4 1	ND	ND	ND	1260
2,4,6-Trichlorophenol		ND	ND	ND	3	24 6	ND	ND	ND	ND	ND	24 6
SUB TOTAL		2 1	45 1	31 4	955	1318 1	460 3	55 7	42 4	0	0	
Miscellaneous Acid Ext.												
4-Chlorophenol		ND	ND	40	ND	83	1,870	ND	ND	ND	ND	1870
SUB TOTAL 2		0	0	40	0	83	1,870	0	0	ND	ND	1870
TOTAL ACID EXT. ANALYZED		2 1	45 1	71 4	955	1401 1	2330 3	55 7	42 4	0	0	

	Sample Number	GM-23	GM-23	GM-24A	GM-24A	GM-24B	GM-24B	GM-26A	GM-26A	GM-26A	GM-26B	Maximum
	Date Collected	11/85	2/86	9/84	11/84	9/84	11/84	9/84**	11/85	2/86	9/84**	Detected
ACID EXTRACTABLE												
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-cresol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol		ND	ND	ND	ND	ND	ND	49	ND	ND	ND	49
Phenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUB TOTAL		0	0	0	0	0	0	49	0	0	0	
Miscellaneous Acid Ext.												
4-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUB TOTAL 2		0	0	0	0	0	0	0	0	0	0	ND
TOTAL ACID EXT. ANALYZED		0	0	0	0	0	0	49	0	0	0	

recycled paper
ecology and environment

SAUGET Analytical Data

Area 2 - *Monsanto*

GROUNDWATER SAMPLES

Acid Extractable Organic Compounds (ug/l)

Collected by Geraghty & Miller

	Sample Number	GM-26B	GM-26B	DW-35	DW-35	DW-36	DW-36	DW-A	DW-A	Trip Blank		Maximum
	Date Collected	2/85	11/85	2/85	5/85	2/85	5/85	11/85	2/86	9/84		Detected
ACID EXTRACTABLE												
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND	ND	71.7	34.6	ND		71.7
2,4-Dimethylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
4,6-Dinitro-o-cresol		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
p-Chloro-m-cresol		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Pentachlorophenol		ND	ND	ND	ND	ND	ND	ND	34.5	ND		34.5
Phenol		ND	ND	ND	ND	ND	ND	16.9	ND	ND		16.9
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
SUB TOTAL		0	0	0	0	0	0	88.6	69.1	0		
Miscellaneous Acid Ext.												
4-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	NA		ND
SUB TOTAL 2		0	0	0	0	0	0	0	0	NA		ND
TOTAL ACID EXT. ANALYZED		0	0	0	0	0	0	88.6	69.1	0		

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Base/Neutral Extractable Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-19A	GM-19A	GM-19A	GM-19B	GM-19B	GM-19B	GM-19B	GM-19B	GM-19B	GM-19C	Maximum
	Date Collected	9/84**	11/84	11/85	9/84**	11/84	2/85	2/85*	11/85	11/85*	9/84**	Detected
Base/Neutral												
Acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenapthylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate		6	ND	ND	65	ND	ND	ND	ND	ND	ND	65
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	6.3	3	ND	2.2	2.5	3.3	2.8	ND	6.3
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-buyl phthalate		4	ND	ND	6	ND	ND	ND	ND	ND	ND	6
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroehtane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUB TOTAL 1		10	0	6.3	74	0	2.2	2.5	3.3	2.8	0	
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	12.6	ND	ND	ND	ND	ND	ND	ND	12.6
2-Nitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-and 3,4-Dinitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Triphenyl phosphate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-Tetrachloro-dibenzo-p-dioxin		NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
2-Nitrobiphenyl		ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	ND
4-Nitrobiphenyl		ND	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND
SUB TOTAL 2		0	0	12.6	0	0	0	0	0	ND	ND	
TOTAL Base/Neutral Analyzed		10	0	18.9	74	0	2.2	2.5	3.3	2.8	0	

recycled paper
ecology and environment

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Base/Neutral Extractable Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-19C	GM-19C	GM-20A	GM-20A	GM-20A	GM-20B	GM-20B	GM-20B	GM-21A	GM-21A	Maximum
	Date Collected	11/84	2/85	9/84**	11/85	2/86	9/84**	2/85	11/85	9/84**	11/85	Detected
Base/Neutral												
Acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenapthylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate		ND	ND	2	17.2	ND	10	ND	ND	ND	ND	17.2
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND	2	ND	ND	ND	ND	2
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	3	8.5	2.3	ND	ND	ND	4	76.8	76.8
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	3.6	3.6
1,4-Dichlorobenzene		ND	ND	15	3.5	ND	ND	4.6	ND	4	46.2	46.2
3,3-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	#REF!
Dimethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-buyl phthalate		ND	ND	4	2.1	ND	6	ND	ND	7	ND	7
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	#REF!
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUB TOTAL 1		0	0	24	31.3	2.3	18	4.6	0	15	126.6	
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	28.1	ND	ND	28.1
4-Nitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	12.2	ND	ND	12.2
2,4-and 3,4-Dinitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Triphenyl phosphate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-Tetrachloro-dibenzo-p-dioxin		NA	NA	NA	NA	NA	ND	ND	NA	ND	NA	ND
2-Nitrobiphenyl		NA	NA	ND	NA	NA	ND	ND	NA	ND	NA	ND
4-Nitrobiphenyl		NA	NA	ND	NA	NA	ND	ND	NA	ND	NA	ND
SUB TOTAL 2		0	0	0	0	0	0	0	40.3	0	0	
TOTAL Base/Neutral Analyzed		0	0	24	31.3	2.3	18	4.6	40.3	15	126.6	

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Base/Neutral Extractable Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-21A	GM-21B	GM-21B	GM-22A	GM-22A	GM-22A	GM-22B	GM-22B	GM-22B	GM-23	Maximum
	Date Collected	2/86	2/85	5/85	9/84**	2/85	11/85	2/85	2/85*	5/85	9/84**	Detected
Base/Neutral												
Acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenapthylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate		ND	ND	ND	ND	ND	ND	ND	13.1	ND	34	34
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		36	4.2	16.2	70	367	316	2.2	ND	ND	ND	367
1,3-Dichlorobenzene		ND	ND	ND	ND	2.8	12.5	ND	ND	ND	ND	12.5
1,4-Dichlorobenzene		19.9	6.4	51.3	59	373	413	ND	ND	ND	ND	413
3,3-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-buyl phthalate		ND	ND	ND	6	ND	ND	ND	ND	ND	5	6
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroehtane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUB TOTAL 1		55.9	21.1	67.5	135	756.8	811.2	2.2	13.1	0	39	
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-and 3,4-Dinitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Triphenyl phosphate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-Tetrachloro-dibenzo-p-dioxin		NA	NA	NA	ND	NA	ND	NA	NA	NA	NA	ND
2-Nitrobiphenyl		NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND
4-Nitrobiphenyl		NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND
SUB TOTAL 2		0	0	0	0	0	NA	0	0	0	0	
TOTAL Base/Neutral Analyzed		55.9	21.1	67.5	135	756.8	811.2	2.2	13.1	0	39	

recycled paper
ecology and environment

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Base/Neutral Extractable Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-23	GM-23	GM-24A	GM-24A	GM-24B	GM-24B	GM-26A	GM-26A	GM-26A	GM-26B	Maximum
	Date Collected	11/85	2/86	9/84	11/84	9/84	11/84	9/84**	11/85	2/86	9/84**	Detected
Base/Neutral												
Acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenapthylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate		ND	41.8	52	ND	6	ND	8	14.5	ND	7	52
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	4	4
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-buyl phthalate		ND	ND	5	ND	5	ND	3	ND	ND	3	5
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroehtane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodimethylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodi-n-propylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SUB TOTAL 2		0	41.8	57	0	11	0	11	14.5	0	14	
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4-and 3,4-Dinitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	N	
4-Nitrodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Triphenyl phoephate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-Tetrachloro-dibenzo-p-dioxin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrobiphenyl		NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
4-Nitrobiphenyl		NA	NA	ND	NA	ND	NA	ND	NA	ND	ND	ND
SUB TOTAL 2		NA	NA	ND	NA	ND	NA	ND	NA	ND	ND	
TOTAL Base/Neutral Analyzed		0	0	0	0	0	0	0	0	0	0	

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Base/Neutral Extractable Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-26B	GM-26B	DW-35	DW-35	DW-36	DW-36	DW-A	DW-A	Trip Blank		Maximum
	Date Collected	02/01/85	11/01/85	2/85	5/85	2/85	5/85	11/85	2/86	9/84		Detected
Base/Neutral												
Acenaphthene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Acenapthylene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Benzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Benzo(a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Benzo(a)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Benzo(ghi)perylene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Bis(2-chloroisopropyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Bis(2-ethylhexyl)phthalate		ND	13.2	ND	ND	ND	ND	ND	ND	ND		ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Chrysene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND	ND	124	171	ND		ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	13.8	9.2	ND		13.8
1,4-Dichlorobenzene		ND	ND	ND	ND	ND	ND	113	155	ND		155
3,3-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Diethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Dimethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Di-n-buyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	4		2
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
1,2-Diphenylhydrazine		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Fluorene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Hexachloroehtane		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Indeno(1,2,3-c,d)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Naphthalene		ND	ND	ND	ND	ND	ND	8	5.3	ND		8
Nitrobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
n-Nitrosodimethylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
n-Nitrosodi-n-propylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
n-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	9.5	ND		9.5
Phenanthrene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	5.3	3.4	ND		5.3
SUB TOTAL 2		0	13.2	0	0	0	0	264.1	353.4	4		ND
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	NA		ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	NA		ND
2-Nitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	NA		ND
4-Nitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	NA		ND
2,4-and 3,4-Dinitrochlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	NA		ND
4-Nitrodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	NA		ND
Triphenyl phosphate		ND	ND	ND	ND	ND	ND	ND	ND	NA		ND
2,3,7,8-Tetrachloro-dibenzo-p-dioxin		ND	NA	NA	NA	NA	NA	NA	NA	NA		ND
2-Nitrobiphenyl		ND	NA	NA	NA	NA	NA	NA	NA	NA		ND
4-Nitrobiphenyl		ND	NA	NA	NA	NA	NA	NA	NA	NA		ND
SUB TOTAL 2		ND	0	0	0	0	0	0	0	NA		
TOTAL Base/Neutral Analyzed		0	13.2	0	0	0	0	264.1	353.4	4		

recycled paper
recycle, reuse and reduce

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Pesticide/PCB Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-19A	GM-19A	GM-19B	GM-19B	GM-19B	GM-19B	GM-19C	GM-19C	GM-19C	GM-20A	Maximum
PESTICIDE/PCB	Date Collected	9/84	11/84	9/84	11/84	2/85	2/85*	9/84	11/84	2/85	9/84	Detected
Aldrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC		0.115	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.115
Delta-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-4'-DDD		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate		ND	ND	1.09	ND	ND	ND	4.35	ND	ND	ND	4.35
Endrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260		ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	2.5
Toxaphene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL Pest/PCB		0.115	0	3.59	0	0	0	4.45	0	0	0	

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Pesticide/PCB Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-20A	GM-20B	GM-20B	GM-21A	GM-21A	GM-21B	GM-21B	GM-22A	GM-22A	GM-22B	Maximum
	Date Collected	2/86	9/84	2/85	9/84	2/86	2/85	5/85	9/84	2/85	2/85	Detected
PESTICIDE/PCB												
Aldrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC		ND	ND	ND	ND	ND	ND	ND	0.011	ND	ND	0.011
Beta-BHC		ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	0.003
Gamma-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-4'-DDD		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL Pest/PCB		0	0	0	0	0	0	0	0.014	0	0	

recycled paper

ecology and environment

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Pesticide/PCB Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-22B	GM-22B	GM-23	GM-23	GM-24A	GM-24A	GM-24B	GM-24B	GM-26A	GM-26A	Maximum
	Date Collected	2/85*	5/85	9/84**	2/86	9/84	11/84	9/84	11/84	9/84**	2/86	Detected
PESTICIDE/PCB												
Aldrin		ND	ND	0.078	ND	ND	ND	0.003	ND	0.028	ND	0.078
Alpha-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC		ND	ND	0.097	ND	ND	ND	ND	ND	0.019	ND	0.097
Gamma-BHC		ND	ND	0.025	ND	ND	ND	ND	ND	0.029	ND	0.029
Delta-BHC		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-4'-DDD		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate		ND	ND	ND	ND	ND	ND	0.089	ND	ND	ND	0.089
Endrin		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde		ND	ND	0.09	ND	0.043	ND	ND	ND	ND	ND	0.09
Heptachlor		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL Pest/PCB		0	0	0.29	0	0.043	0	0.092	0	0.076	0	

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Pesticide/PCB Compounds (ug/l)
Collected by Geraghty & Miller

	Sample Number	GM-26B	GM-26B	DW-35	DW-35	DW-36	DW-36	DW-A	DW-A			Maximum
	Date Collected	9/84**	2/85	2/85	5/85	2/85	5/85	11/85	2/86			Detected
PESTICIDE/PCB												
Aldrin		ND	ND	ND	ND	ND	ND	ND	ND			ND
Alpha-BHC		ND	ND	ND	ND	ND	ND	ND	ND			ND
Beta-BHC		ND	ND	ND	ND	ND	ND	ND	ND			ND
Gamma-BHC		0 056	ND	ND	ND	ND	ND	ND	ND			0.056
Delta-BHC		ND	ND	ND	ND	ND	ND	ND	ND			ND
Chlordane		ND	ND	ND	ND	ND	ND	ND	ND			ND
4,4'-DDT		ND	ND	ND	ND	ND	ND	ND	ND			ND
4,4'-DDE		ND	ND	ND	ND	ND	ND	ND	ND			ND
4-4'-DDD		ND	ND	ND	ND	ND	ND	ND	ND			ND
Dieldrin		ND	ND	ND	ND	ND	ND	ND	ND			ND
Endosulfan I		ND	ND	ND	ND	ND	ND	ND	ND			ND
Endosulfan II		ND	ND	ND	ND	ND	ND	ND	ND			ND
Endosulfan sulfate		ND	ND	ND	ND	ND	ND	ND	ND			ND
Endrin		ND	ND	ND	ND	ND	ND	ND	ND			ND
Endrin aldehyde		ND	ND	ND	ND	ND	ND	ND	ND			ND
Heptachlor		0 079	ND	ND	ND	ND	ND	ND	ND			0.079
Heptachlor epoxide		ND	ND	ND	ND	ND	ND	ND	ND			ND
PCB-1016		ND	ND	ND	ND	ND	ND	ND	ND			ND
PCB-1221		ND	ND	ND	ND	ND	ND	ND	ND			ND
PCB-1232		ND	ND	ND	ND	ND	ND	ND	ND			ND
PCB-1242		ND	ND	ND	ND	ND	ND	ND	ND			ND
PCB-1248		ND	ND	ND	ND	ND	ND	ND	ND			ND
PCB-1254		ND	ND	ND	ND	ND	ND	ND	ND			ND
PCB-1260		ND	ND	ND	ND	ND	ND	ND	ND			ND
Toxaphene		ND	ND	ND	ND	ND	ND	ND	ND			ND
TOTAL Pest/PCB		0 135	0	0	0	0	0	0	0			

recycled paper
ecology and environment

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Priority Pollutant Metals/Miscellaneous Parameters (mg/l)
Collected by Geraghty & Miller

	Sample Number	GM-19A	GM-19A	GM-19A	GM-19B	GM-19B	GM-19B	GM-19B	GM-19B	GM-19B	GM-19C	Maximum
	Date Collected	9/84	11/84	11/85	9/84	11/84	2/85	2/85	11/85	11/85*	9/84	Detected
METALS												
Antimony		0.023	ND	NA	0.013	ND	ND	ND	NA	NA	0.009	**0.023**
Arsenic		ND	ND	NA	ND	ND	ND	ND	NA	NA	ND	**ND**
Beryllium		ND	ND	NA	ND	ND	ND	ND	NA	NA	ND	**ND**
Cadmium		ND	ND	NA	ND	ND	ND	ND	NA	NA	ND	**ND**
Chromium		ND	ND	NA	ND	ND	ND	ND	NA	NA	ND	**ND**
Copper		ND	ND	NA	ND	ND	ND	ND	NA	NA	ND	**ND**
Lead		ND	ND	NA	ND	ND	ND	ND	NA	NA	ND	**ND**
Mercury		ND	ND	NA	ND	ND	ND	ND	NA	NA	0.00023	**0.00023**
Nickel		0.007	ND	NA	ND	ND	ND	ND	NA	NA	ND	**0.007**
Selenium		ND	ND	NA	ND	ND	ND	ND	NA	NA	ND	**ND**
Silver		ND	0.036	NA	ND	ND	ND	ND	NA	NA	ND	**0.036**
Thallium		ND	ND	NA	0.118	ND	ND	ND	NA	NA	0.133	**0.133**
Zinc		0.024	ND	NA	ND	ND	ND	ND	NA	NA	ND	**0.024**
Miscellaneous Parameters												
pH (units)		6.9	6.8	6.7	6.8	7	7.5	7.5	6.9	6.9	6.8	**7.5**
Spec. Cond. (umhos)		825	1,150	2,100	1,400	2,500	1,540	1,540	2,500	2,500	1,300	**2500**
Temp. (deg/centigrade)		22	16	13	22	17	10	10	16	16	24	**24**
TOC		7	NA	NA	11	NA	NA	NA	NA	NA	12	**12**
Total Phenols		NA	NA	NA	NA	0.077	NA	NA	NA	NA	NA	**0.077**
TOX		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Total Dissolved Solids (TDS)		746	NA	NA	1,540	NA	NA	NA	NA	NA	1,378	1540
Bicarbonate, as CACO3		NA	NA	NA	NA	NA	NA	NA	480	460	NA	480
Calcium		NA	NA	NA	NA	NA	NA	NA	256	265	NA	265
Chloride		35	NA	NA	330	NA	NA	NA	267	275	205	**330**
Cyanide		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Iron		NA	NA	NA	NA	NA	NA	NA	23.9	23.6	NA	23.9
Magnesium		NA	NA	NA	NA	NA	NA	NA	57.9	59.2	NA	59.2
Potassium		NA	NA	NA	NA	NA	NA	NA	19.7	20	NA	20
Sodium		NA	NA	NA	NA	NA	NA	NA	84.4	86.8	NA	86.8
Sulfate, as SO4		NA	NA	NA	NA	NA	NA	NA	360	330	NA	360

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Priority Pollutant Metals/Miscellaneous Parameters (mg/l)
Collected by Geraghty & Miller

	Sample Number	GM-19C	GM-19C	GM-20A	GM-20A	GM-20A	GM-20B	GM-20B	GM-20B	GM-21A	GM-21A	Maximum
	Date Collected	11/84	2/85	9/84	11/85	2/86	9/84	2/85	11/85	9/84	11/85	Detected
METALS												
Antimony		ND	ND	0.022	NA	ND	0.011	ND	NA	0.024	NA	**0.024**
Arsenic		ND	ND	ND	NA	ND	0.003	ND	NA	ND	NA	0.003
Beryllium		ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	**ND**
Cadmium		ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND
Chromium		ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND
Copper		ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND
Lead		ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND
Mercury		ND	ND	ND	NA	ND	0.00029	ND	NA	ND	NA	0.00029
Nickel		ND	ND	0.014	NA	0.01	ND	ND	NA	0.016	NA	**0.016**
Selenium		ND	ND	0.003	NA	ND	0.005	ND	NA	ND	NA	0.005
Silver		ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND
Thallium		ND	ND	0.172	NA	ND	0.094	ND	NA	0.153	NA	**0.172**
Zinc		ND	ND	0.026	NA	0.067	ND	ND	NA	0.02	NA	**0.067**
Miscellaneous Parameters												
pH (units)		7	7	6.8	7.2	NA	6.9	7.6	7.9	6.9	6.7	**7.9**
Spec. Cond. (umhos)		2,000	1,700	1,400	2,200	840	1,700	900	2,000	1,500	2,100	**2200**
Temp. (deg/centigrade)		18	10	20	14	13.5	20	10	14	20	13	**20**
TOC		NA	NA	5	NA	NA	38	NA	NA	10	NA	**38**
Total Phenols		NA	NA	NA	NA	NA	NA	NA	0.0616	NA	0.57	**0.57**
TOX		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Total Dissolved Solids (TDS)		NA	NA	916	NA	NA	1,250	NA	NA	1,454	NA	**1454**
Bicarbonate, as CACO3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Calcium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Chloride		NA	NA	75	NA	NA	175	NA	NA	210	NA	**210**
Cyanide		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Magnesium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Potassium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Sodium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Sulfate, as SO4		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**

recycled paper
ecology and environment

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Priority Pollutant Metals/Miscellaneous Parameters (mg/l)
Collected by Geraghty & Miller

	Sample Number	GM-21A	GM-21B	GM-21B	GM-22A	GM-22A	GM-22A	GM-22B	GM-22B	GM-22B	GM-23	Maximum
	Date Collected	2/86	2/85	5/85	9/84	2/85	11/85	2/85	2/85*	5/85	9/84	Detected
METALS												
Antimony		ND	ND	ND	0.028	ND	NA	ND	ND	ND	0.032	**0.032**
Arsenic		ND	ND	ND	0.002	0.028	NA	ND	ND	ND	ND	**0.028**
Beryllium		ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	**ND**
Cadmium		ND	ND	ND	ND	ND	NA	ND	ND	ND	3.94	**3.94**
Chromium		ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Copper		ND	ND	ND	ND	ND	NA	ND	ND	ND	0.02	0.02
Lead		ND	ND	ND	ND	ND	NA	ND	ND	ND	0.012	**0.012**
Mercury		ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Nickel		0.01	ND	ND	0.007	0.02	NA	ND	ND	ND	0.016	**0.02**
Selenium		ND	ND	ND	ND	ND	NA	ND	ND	ND	0.004	**0.004**
Silver		ND	ND	ND	ND	ND	NA	ND	ND	ND	0.001	0.001
Thallium		ND	ND	ND	0.127	ND	NA	ND	ND	ND	0.012	**0.127**
Zinc		0.066	ND	0.08	0.034	ND	NA	ND	ND	0.02	0.026	**0.08**
Miscellaneous Parameters												
pH (units)		NA	7	6.8	6.7	7.6	6.5	8.1	8.1	7	6.2	**8.1**
Spec. Cond. (umhos)		1,000	800	870	950	1,875	2,500	1,350	1,350	520	1,150	**2500**
Temp. (deg/centigrade)		13.5	13	16	21	10	14	10	10	16	18	**21**
TOC		NA	NA	NA	64	NA	NA	NA	NA	0.053	NA	**64**
Total Phenols		NA	NA	NA	NA	3,800	6.7	NA	NA	NA	NA	**3800**
TOX		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Total Dissolved Solids (TDS)		NA	NA	NA	996	NA	NA	NA	NA	NA	694	996
Bicarbonate, as CACO3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Calcium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Chloride		NA	NA	NA	80	NA	NA	NA	NA	NA	24	**80**
Cyanide		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Magnesium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Potassium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Sodium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Sulfate, as SO4		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Priority Pollutant Metals/Miscellaneous Parameters (mg/l)
Collected by Geraghty & Miller

Sample Number		GM-23	GM-23	GM-24A	GM-24A	GM-24B	GM-24B	GM-26A	GM-26A	GM-26A	GM-26B	Maximum
Date Collected		11/85	2/86	9/84	11/84	9/84	11/84	9/84	11/85	2/86	9/84	Detected
METALS												
Antimony		NA	ND	0.018	ND	0.013	ND	0.038	NA	ND	0.048	**0.048**
Arsenic		NA	ND	ND	ND	ND	ND	ND	NA	ND	0.002	**0.002**
Beryllium		NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	**ND**
Cadmium		NA	ND	ND	ND	ND	ND	7.65	NA	ND	6.05	**7.65**
Chromium		NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	**ND**
Copper		NA	ND	ND	ND	ND	ND	0.044	NA	0.05	0.03	**0.05**
Lead		NA	ND	ND	ND	ND	ND	0.01	NA	ND	0.011	**0.011**
Mercury		NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	**ND**
Nickel		NA	ND	ND	ND	ND	ND	0.04	NA	ND	0.016	**0.04**
Selenium		NA	ND	ND	ND	ND	ND	0.031	NA	ND	ND	**0.031**
Silver		NA	ND	ND	ND	ND	ND	0.001	NA	ND	0.001	**0.001**
Thallium		NA	ND	0.126	ND	0.1	ND	0.016	NA	ND	0.014	**0.126**
Zinc		NA	0.079	0.052	ND	0.045	ND	0.136	NA	ND	0.049	**0.136**
Miscellaneous Parameters												
pH (units)		7	NA	6.5	7	7.4	7.5	6.9	7.3	6.9	6.4	**7.5**
Spec. Cond. (umhos)		1,600	890	975	1,200	950	670	1,050	3,300	1,590	1,425	**3300**
Temp. (deg/centigrade)		13	13	22	NA	21	13	23	15	15	18	**23**
TOC		NA	NA	6	NA	6	NA	34	NA	NA	7	**34**
Total Phenols		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
TOX		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Total Dissolved Solids (TDS)		NA	NA	714	NA	584	NA	1,346	NA	NA	860	**1346**
Bicarbonate, as CACO3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Calcium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Chloride		NA	NA	40	NA	40	NA	57	NA	NA	30	**57**
Cyanide		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Iron		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Magnesium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Potassium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Sodium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**
Sulfate, as SO4		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**ND**

recycled paper
ecology and environment

SAUGET Analytical Data
Area 2 - Monsanto

GROUNDWATER SAMPLES
Priority Pollutant Metals/Miscellaneous Parameters (mg/l)
Collected by Geraghty & Miller

	Sample Number	GM-26B	GM-26B	DW-35	DW-35	DW-36	DW-36	DW-A	DW-A			Maximum
	Date Collected	2/85	11/85	2/85	5/85	2/85	5/85	11/85	2/86			Detected
METALS												
Antimony		ND	NA	ND	ND	ND	ND	ND	ND			ND
Arsenic		0.007	NA	ND	ND	ND	ND	ND	0.01			0.01
Beryllium		ND	NA	ND	ND	ND	ND	ND	ND			ND
Cadmium		ND	NA	ND	ND	ND	ND	ND	ND			ND
Chromium		ND	NA	ND	ND	ND	ND	ND	ND			ND
Copper		ND	NA	ND	ND	ND	ND	ND	ND			ND
Lead		ND	NA	ND	ND	ND	ND	ND	ND			ND
Mercury		ND	NA	ND	ND	ND	ND	ND	ND			ND
Nickel		ND	NA	ND	ND	ND	ND	ND	0.02			0.02
Selenium		ND	NA	ND	ND	ND	ND	ND	ND			ND
Silver		ND	NA	ND	ND	ND	ND	ND	ND			ND
Thallium		ND	NA	ND	ND	ND	ND	ND	ND			ND
Zinc		ND	NA	ND	0.07	ND	0.06	0.01	0.15			0.15
Miscellaneous Parameters												
pH (units)		7.4	7.2	7.4	6.9	7.4	7.2	6.8	6.7			7.4
Spec. Cond. (umhos)		875	1,400	690	840	650	520	3,750	1,000			3750
Temp. (deg/centigrade)		10	15	10	16	10	16	13	12			16
TOC		NA	NA	NA	NA	NA	NA	NA	NA			ND
Total Phenols		NA	NA	NA	NA	NA	0.056	0.34	0.0866			0.34
TOX		NA	NA	NA	NA	NA	NA	NA	NA			ND
Total Dissolved Solids (TDS)		NA	NA	NA	NA	NA	NA	NA	NA			ND
Bicarbonate, as CACO3		NA	NA	NA	NA	NA	NA	NA	NA			ND
Calcium		NA	NA	NA	NA	NA	NA	NA	NA			ND
Chloride		NA	NA	NA	NA	NA	NA	NA	NA			ND
Cyanide		NA	NA	NA	NA	NA	NA	NA	NA			ND
Iron		NA	NA	NA	NA	NA	NA	NA	NA			ND
Magnesium		NA	NA	NA	NA	NA	NA	NA	NA			ND
Potassium		NA	NA	NA	NA	NA	NA	NA	NA			ND
Sodium		NA	NA	NA	NA	NA	NA	NA	NA			ND
Sulfate, as SO4		NA	NA	NA	NA	NA	NA	NA	NA			ND

* - Replicate Analyses

** - Prior to analysis, this sample was held by Envirodyne Engineers, Inc. longer than the maximum allowable USEPA holding time.

*** - Envirodyne Engineers, Inc. (St. Louis, MO.) provided the laboratory services for the September 1984 sampling round. ETC (Edison, New Jersey) performed the analyses for the November 1984 through February 1986 sampling programs.

(- Indicates that the compound was not detected at the detection limit which is the value shown next to the symbol.

recycled paper
recycled paper

Geraghty & Miller, Inc.

ASSESSMENT OF GROUND-WATER CONDITIONS AT THE VILLAGE OF SAUGET TREATMENT PLANT SITES SAUGET, ILLINOIS

December 1986

Prepared by:

Geraghty & Miller, Inc.
Ground-Water Consultants
125 East Bethpage Road
Plainveiw, New York 11803

recycled paper
recycled paper

ecology and environment
ecology and environment

RIVER
N
15
GM-26AB
P-58
P-59
2,400
DW-A
DW-B
DW-C
GM-21AB
1,710
DW-F
GM-20AB
770
L50
GM-22AB
BG-4
BG-2
BG-5
RA-C
BG-3
BG-1
198-123
199-210
GM-19ABC
RA-C
BG-12
RA-B
BG-6
RA-E
RA-G
RA-A
RA-F
RA-H
GM-23
RA-J
BG-10
RA-N
BG-11
BG-9
BG-8
ND
DW-35
ND
DW-36

NOTE: THE DATA PRESENTED IN THIS SECTION PERTAINS TO SAMPLES COLLECTED FROM SITE "O" AND THE AMERICAN BOTTOMS WWTP PROPERTY AS A WHOLE. THIS DATA IS PRESENTED IN THE ORIGINAL REPORT FORMAT.

SOURCE: "Summary of Groundwater Quality Data - Sauget Sanitary Development and Reseach Association" Sauget, Illinois, prepared by Geraghty & Miller, February 1988

SUMMARY OF GROUND-WATER QUALITY DATA SAUGET SANITARY DEVELOPMENT AND RESEARCH ASSOCIATION SAUGET, ILLINOIS

February 1988

Geraghty & Miller, Inc.
Ground-Water Consultants
125 East Bethpage Road
Plainview, New York 11803

recycled paper

ecology and environment

[illegible] Summary of Volatile Organic Compounds in Ground Water, USEPA, Saugat, Illinois.

Well Number:	GM-19A	GM-19A	GM-19A	GM-19B	GM-19B	GM-19B	GM-19B	GM-19B	GM-19B	GM-19C
Date:	12/86	5/87	11/87	12/86	12/86*	5/87	5/87*	11/87	11/87*	12/86
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrylonitrile	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	4.4	13.1	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	7.4
Bis (chloromethyl) ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
Carbon tetrachloride	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
Chlorobenzene	24.5	35.6	<6.0	10.3	<6	8	<6	<6.0	<6.0	16.9
Chlorodibromomethane	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Dichlorodifluoromethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethane	<4.7	4.9	8.19	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,1-Dichloroethylene	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,2-Dichloropropane	<6	<6	<6.0	<6	<6	<6	<6	<6.0	<6.0	<6
cis-1,3-Dichloropropylene	<5	<5	<5.0	<5	<5	<5	<5	<5.0	<5.0	<5
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
Methyl bromide	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl chloride	9	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<2.8	<2.8	<2.8	<2.8	<2.8	3.4	<2.8	15.7	5.02	19.2
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
Tetrachloroethylene	<4.1	<4.1	7.55	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
Toluene	<6	<6	<6.0	<6	<6	<6	<6	<6.0	<6.0	<6
trans-1,2-Dichloroethylene	<1.6	<1.6	9.96	<1.6	<1.6	9.6	1.7	<1.6	3.07	<1.6
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
1,1,2-Trichloroethane	<5	<5	<5.0	<5	<5	<5	<5	<5.0	<5.0	<5
Trichloroethylene	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Trichlorofluoromethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Sub Total 1	37.9	53.6	26	10.3	0	21	1.7	16	8	43
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl isoamyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene/p-xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total VOC's Analyzed	37.9	53.6	26	10.3	0	21	1.7	16	8	<3.45

NA Not Analyzed

* Replicate Sample

Summary of Volatile Organic Analyses — Ground Water, [illegible]

Well Number:	GM-19C	GM-19C	GM-21A	GM-21A	GM-21A	GM-21B	GM-21B	GM-21B	GM-22A	GM-22A	GM-[illegible]
Date:	5/87	[illegible]87	12/86	5/87	11/87	12/86	5/87	11/87	12/86	5/87	[illegible]
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L											
Acrolein	<100	<100	<100	<100	<100	<100	<100	<100	<2,000	<2,000	<5,000
Acrylonitrile	<100	<100	<100	<100	<100	<100	<100	<100	<2,000	<2,000	<5,000
Benzene	<4.4	5.32	<4.4	<4.4	<4.4	5.3	[illegible]	94.9	14,700	15,200	964
Bis (chloromethyl) ether	<10	<10	<10	<10	<10	<10	<10	<10	<200	<200	<500
Bromoform	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<94	<94	<240
Carbon tetrachloride	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<56	<56	<140
Chlorobenzene	<6	47.3	42.7	<6	<6.0	38.8	596	705	6,240	8,[illegible]00	<67
Chlorodibromomethane	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<62	<62	<160
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<200	<200	<500
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<200	<200	<500
Chloroform	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	1,320	268	<80
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<44	<44	<110
Dichlorodifluoromethane	<10	<10	<10	<10	<10	<10	<10	<10	<200	<200	<500
1,1-Dichloroethane	<4.7	<4.7	<4.7	18	<4.7	10.9	17.8	34.2	7,570	8,460	1,700
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<2.8	1	<2.8	<2.8	1,230	1,370	<140
1,1-Dichloroethylene	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	887	660	310
1,2-Dichloropropane	<6	<6.0	<6	<6	<6.0	<6	<6	<6.0	<120	<120	<300
cis-1,3-Dichloropropylene	<5	<5.0	<5	<5	<5.0	<5	<5	<5.0	<100	<100	<250
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<10	<10	<10	<200	<200	<500
Ethylbenzene	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	394	514	<360
Methyl bromide	<10	<10	<10	<10	<10	<10	<10	<10	<200	<200	<500
Methyl chloride	<10	<10	<10	<10	<10	<10	<10	<10	<200	<200	<500
Methylene chloride	4.6	6.88	15.4	<2.8	<2.8	<2.8	<2.8	<2.8	17,400	12,200	2,[illegible]70
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	731	172	<[illegible]
Tetrachloroethylene	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	274	254	515
Toluene	<6	<6.0	<6	<6	<6.0	<6	<6	<6.0	12,600	17,300	888
trans-1,2-Dichloroethylene	<1.6	<1.6	176.0	20.5	<1.6	<1.6	36.9	28.1	64,600	51,700	5,380
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	25	56.0	<3.8	<3.8	<3.8	5,610	2,860	869
1,1,2-Trichloroethane	<5	<5.0	1	<5.0	<5.0	<5	<5	<5.0	<100	<100	<250
Trichloroethylene	<1.9	<1.9	22.6	11.3	<1.9	<1.9	<1.9	<1.9	3,480	292	2,000
Trichlorofluoromethane	<10	<10	<10	<10	<10	<10	<10	<10	<200	<200	<500
Vinyl chloride	<10	15.4	<10	<10	<10	189.6	23.4	80.0	66,000	45,300	2,980
Sub Total 1	4.6	74.9	257.7	[illegible]	56	245.58	778.1	942.2	203,036	164,660	[illegible],720
Miscellaneous Volatile Organic Compounds											
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	33,600	24,500	1,250
Methyl isoamyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	2,000	1,080	<500
m-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	848	1190	<500
o-Xylene/p-xylene	NA	NA	NA	NA	NA	NA	NA	NA	754	<200	<500
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	NA	NA	NA	NA	NA	NA	NA	NA	37,202	26,770	1,250
Total VOC's Analyzed	4.6	74.9	257.7	74.8	56	245.58	778.1	942.2	240,238	191,430	[illegible],970

NA Not Analyzed
* Replicate Sample

[illegible] Volatile Organic Compounds in Ground Water, USEPA, Budget, [illegible]

Well Number:	GM-22S	GM-22B	GM-22B	GM-5A	GM-5B	EE-21	EE-21	EE-22	EE-22	EE-23
Date:	12/86	5/87	11/87	11/87	11/87	3/24/87	7/14/87	3/24/87	7/14/87	3/24/87
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<100	<100	<100	<100	<100	<100	<50,000	<50,000	<100
Acrylonitrile	<100	<100	<100	<100	<100	<100	<100	<50,000	<50,000	<100
Benzene	<4.4	115	<4.4	<4.4	<4.4	<4.4	<4.4	206,000	219,000	<4.4
Bis (chloromethyl) ether	<10	<10	<10	<10	<10	<10	<10	<5,000	<5,000	<10
Bromoform	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<2,400	<2,400	<4.7
Carbon tetrachloride	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<1,400	<1,400	<2.8
Chlorobenzene	33.2	37.7	<6.0	<6.0	83.0	<6.0	<6.0	139,000	151,000	<6.0
Chlorodibromomethane	<6.0	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<1,600	<1,600	<3.1
Chloroethane	<10	18	<10	<10	<10	<10	<10	<5,000	<5,000	<10
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10	<10	<10	<5,000	<5,000	<10
Chloroform	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	3,130	2,530	<1.6
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<1,100	<1,100	<2.2
Dichlorodifluoromethane	<10	<10	<10	<10	<10	<10	<10	<5,000	<5,000	<10
1,1-Dichloroethane	<4.7	118	<4.7	<4.7	<4.7	<4.7	<4.7	3,360	<2,400	<4.7
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	3,460	<1,400	<2.8
1,1-Dichloroethylene	<2.8	116	<2.8	<2.8	<2.8	<2.8	<2.8	<1,400	<1,400	<2.8
1,2-Dichloropropane	<6	<6	<6.0	<6.0	<6.0	<6.0	<6.0	<3,000	<3,000	<6.0
cis-1,3-Dichloropropylene	<5	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	<2,500	<5.0
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<10	<10	<5,000	<5,000	<10
Ethylbenzene	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<3,600	<3,600	<7.2
Methyl bromide	<10	<10	<10	<10	<10	<10	<10	<5,000	<5,000	<10
Methyl chloride	<10	<10	<10	<10	<10	<10	<10	<5,000	<5,000	<10
Methylene chloride	19.2	45.2	<2.8	9.37	13.5	<2.8	12.6	67,600	49,500	<2.8
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	9,980	16,200	<6.9
Tetrachloroethylene	<4.1	22.5	<4.1	<4.1	4.12	<4.1	<4.1	<2,100	<2,100	<4.1
Toluene	<6	33.7	<6.0	<6.0	<6.0	<6.0	<6.0	13,800	11,800	<6.0
trans-1,2-Dichloroethylene	<1.6	208.0	<1.6	<1.6	<1.6	<1.6	<1.6	25,000	27,900	<1.6
1,1,1-Trichloroethane	<3.8	52.2	47.6	<3.8	<3.8	<3.8	<3.8	9,380	7,830	<3.8
1,1,2-Trichloroethane	<5	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	<2,500	<5.0
Trichloroethylene	<1.9	63.5	6.67	<1.9	<1.9	<1.9	<1.9	72,300	55,300	<1.9
Trichlorofluoromethane	<10	<10	<10	<10	<10	<10	<10	<5,000	<5,000	<10
Vinyl chloride	<10	235	<10	<10	<10	<10	<10	<5,000	<5,000	<10
Sub Total *	52.4	1,064.8	54	9.4	101	0	12.6	553,010	541,060	0
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	<10	<10	73,500	67,700	<10
Methyl ethyl ketone	NA	NA	NA	NA	NA	<10	<10	91,600	92,100	<10
Carbon disulfide	NA	NA	NA	NA	NA	<10	<10	<5,000	<5,000	<10
Vinyl acetate	NA	NA	NA	NA	NA	<10	<10	<5,000	<5,000	<10
2-Hexanone	NA	NA	NA	NA	NA	<10	<10	<5,000	<5,000	<10
Methyl-iso-butyl ketone	NA	NA	NA	<10	<10	NA	NA	34,200	25,200	<10
Methyl isoamyl ketone	NA	NA	NA	<10	<10	NA	NA	<5,000	<5,000	NA
m-Xylene	NA	NA	NA	<10	<10	<10	<10	<5,000	<5,000	<10
o-Xylene/p-xylene	NA	NA	NA	<10	<10	<10	<10	<5,000	<5,000	<10
Styrene	NA	NA				<10	<10	<5,000	<5,000	<10
Sub Total 2	NA	NA	NA	0	0	0	0	199,300	185,000	0
Total VOC's Analyzed	52	1,065	54	9.4	101	0	13	752,310	726,060	

NA Not Analyzed

* Replicate Sample

Table 1. Summary of volatile organic compounds in ground water, USEPA, Target, Florida

Well Number:	EE-23	EE-24	EE-24*	EE-24	EE-25	EE-25	Field Blank	Field Blank	Trip Blank	Trip Blank
Date:	7/14/87	3/24/87	3/24/87	7/14/87	3/24/87	7/14/87	3/24/87	7/14/87	3/24/87	7/14/87
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrylonitrile	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	<4.4	14.3	13.1	8.0	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
Bis (chloromethyl) ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
Carbon tetrachloride	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
Chlorobenzene	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Chlorodibromomethane	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	6.6	<1.6	<1.6	<1.6
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Dichlorodifluoromethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethane	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,1-Dichloroethylene	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,2-Dichloropropane	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
cis-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
Methyl bromide	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	12.0	<2.8	<2.8	9.2	<2.8	12.1	<2.8	<2.8	<2.8	<2.8
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
Tetrachloroethylene	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
Toluene	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
trans-1,2-Dichloroethylene	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Trichlorofluoromethane	19.0	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Sub Total 1	31	14.3	13.1	17.2	0	12.1	6.6	9.6	0	0
Miscellaneous Volatile Organic Compounds										
Acetone	17.4	<10	<10	<10	<10	15.8	13.6	<10	49.3	11.6
Methyl ethyl ketone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon disulfide	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl-iso-butyl ketone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl isoamyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m-Xylene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o-Xylene/p-xylene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Styrene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Sub Total 2	17.4	0	0	0	0	15.8	13.6	0	49.3	11.6
Total VOC's Analyzed	48	14.3	13.1	17.2	0	27.9	20.2	9.6	49.3	11.6

NA Not Analyzed

* Replicate Sample

Table 1 Analysis of Volatile Organic Compounds in Ground Water, USEPA, Dayton, Ohio

Well Number:	EE-24*	EE-24	EE-25	EE-25	Field Blank	Field Blank	Trip Blank	Trip Blank
Date:	3/24/87	7/14/87	3/24/87	7/14/87	3/24/87	7/14/87	3/24/87	7/14/87
USEPA Priority Pollutant Volatile Organic Compounds Concentrations are in ug/L								
Acrolein	<100	<100	<100	<100	<100	<100	<100	<100
Acrylonitrile	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	13.1	8.0	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
Bis (chloromethyl) ether	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
Carbon tetrachloride	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
Chlorobenzene	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Chlorodibromomethane	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.6	<1.6	<1.6	<1.6	6.6	<1.6	<1.6	<1.6
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Dichlorodifluoromethane	<10	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethane	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,1-Dichloroethylene	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,2-Dichloropropane	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
cis-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
Methyl bromide	<10	<10	<10	<10	<10	<10	<10	<10
Methyl chloride	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<2.8	9.2	<2.8	12.1	<2.8	9.6	<2.8	<2.8
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
Tetrachloroethylene	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
Toluene	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
trans-1,2-Dichloroethylene	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Trichlorofluoromethane	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl chloride	<10	<10	<10	<10	<10	<10	<10	<10
Sub Total 1	13.1	17.2	0	12.1	6.6	9.6	0	0
Miscellaneous Volatile Organic Compounds								
Acetone	<10	<10	<10	15.8	13.6	<10	49.3	11.6
Methyl ethyl ketone	<10	<10	<10	<10	<10	<10	<10	<10
Carbon disulfide	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl acetate	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10
Methyl-iso-butyl ketone	<10	<10	<10	<10	<10	<10	<10	<10
Methyl isoamyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
m-Xylene	<10	<10	<10	<10	<10	<10	<10	<10
o-Xylene/p-xylene	<10	<10	<10	<10	<10	<10	<10	<10
Styrene	<10	<10	<10	<10	<10	<10	<10	<10
Sub Total 2	0	0	0	15.8	13.6	0	49.3	11.6
Total VOC's Analyzed	13.1	17.2	0	27.9	20.2	9.6	49.3	11.6

NA Not Analyzed

* Replicate Sample

Table 2. Summary of Acid Extractable Organic Compounds in Ground Water, SSDPA, Sauget, Illinois

Well Number:	GM-19A	GM-19A	GM-22A	GM-22A	GM-22A	GM-54A	GM-54B	EE-21	EE-21	EE-22	EE-22
Date:	12/86	5/87	12/86	5/87	11/87	11/87	11/87	3/24/87	7/14/87	3/24/87	7/14/87
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L											
2-Chlorophenol	<3.5	6.3	<3.5	<73	<3.4	<3.5	3.99	<3.7	<3.3	<73	81.9
2,4-Dichlorophenol	<2.8	6.4	<2.9	<60	<2.8	<2.8	3.96	<3	<2.7	<60	70.7
2,4-Dimethylphenol	<2.8	<2.8	<2.9	<60	21.6	<2.8	<2.9	<3	<2.7	<60	85.1
4,6-Dinitro-o-cresol	<25	<25	<25	<530	<25	<25	<26	<27	<24	<530	<510
2,4-Dinitrophenol	<44	<43	<44	<930	<43	<44	<45	<47	<42	<930	<890
2-Nitrophenol	<3.8	<3.7	<3.8	<80	<3.7	<3.8	<3.9	<4	<3.6	<80	<77
4-Nitrophenol	<2.5	<2.5	<2.5	<53	<2.5	<3.5	<2.6	<2.7	<2.4	<53	<51
p-Chloro-m-cresol	<3.2	<3.1	<3.2	<67	<3.1	<3.2	<3.2	<3.3	<3.0	<67	<64
Pentachlorophenol	379	856	<3.8	<80	8.8	<3.8	<3.9	<4	<3.6	350	1,130
Phenol	<1.6	<1.5	175	230	609	<1.6	<1.6	<1.7	<1.5	473	759
2,4,6-Trichlorophenol	<2.8	5.7	6.6	<60	6.4	<2.8	<2.9	<3	<2.7	<60	66.9
Sub Total 1	379	874.4	181.6	230	645.8	0	8	0	0	823	2,213.2
Miscellaneous Acid Extractable Organic Compounds											
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	<11	<10	<220	<210
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	<11	<10	456	454
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	<11	<10	<220	<210
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	<11	<10	<220	<210
4-Chlorophenol	NA	NA	268	<747	35.7	<11	<11	NA	NA	NA	NA
Sub Total 2	0	0	268	0	35.7	0	0	0	0	456	454
Total Acid Compounds Analyzed	379	874.4	449.6	230	681.5	0	8	0	0	1279	2667.2

NA - Not Analyzed

Table 2. Summary of Acid Extractable Organic Compounds in Groundwater, USEPA, Sauget, [illegible]

Well Number:	EE-23	EE-23	EE-24	EE-24	EE-24	EE-25	EE-25	Field Blank	Field Blank
Date:	3/24/87	7/14/87	3/24/87	3/24/87*	7/14/87	3/24/87	7/14/87	3/24/87	3/24/87
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	<3.7	<3.5	<3.4	<3.3	<3.4	<3.3	<3.4	<3.8	<3.3
2,4-Dichlorophenol	<3	<2.9	<2.8	<2.7	3.9	<2.7	<2.8	<3.1	<2.7
2,4-Dimethylphenol	<3	<2.9	<2.8	<2.7	<2.8	<2.7	<2.8	<3.1	<2.7
4,6-Dinitro-o-cresol	<27	<26	<25	<24	<24	<24	<25	<28	<24
2,4-Dinitrophenol	<47	<45	<43	<42	<43	<42	<44	<48	<42
2-Nitrophenol	<4	<3.8	<3.7	<3.6	<3.7	<3.6	<3.8	<4.1	<3.6
4-Nitrophenol	<2.7	<2.6	<2.5	<2.4	3.0	<2.4	<2.5	<2.8	<2.4
p-Chloro-m-cresol	<3.3	<3.2	<3.1	<3.0	<3.1	<3.0	<3.1	11.8	<3.0
Pentachlorophenol	<4	<3.8	<3.7	24.1	<3.7	<3.6	<3.8	<4.1	<3.6
Phenol	1.8	<1.6	<1.5	<1.5	<1.5	<1.5	<1.6	<1.7	<1.5
2,4,6-Trichlorophenol	<3	<2.9	<2.8	<2.7	<2.8	<2.7	<2.8	<3.1	<2.7
Sub Total 1	1.8	0	0	24.1	6.9	0	0	11.8	0
Miscellaneous Acid Extractable Organic Compounds									
2-Methylphenol	<11	<11	<10	<10	<10	<10	<10	<11	<10
4-Methylphenol	<11	<11	<10	<10	<10	<10	<10	<11	<10
Benzoic acid	<11	<11	<10	<10	<10	<10	<10	<11	<10
2,4,5-Trichlorophenol	<11	<11	<10	<10	<10	<10	<10	<11	<10
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0
Total Acid Compounds Analyzed	1.8	0	0	24.1	6.9	0	0	11.8	0

NA - Not Analyzed
* - Replicate Sample

Table 3. Summary of Base/Neutral Extractable Organic Compounds in Ground Water, SCCPA Project, [illegible]

Well Designation:	GM-22A	GM-22A	GM-22A	GM-54A	GM-54B	EE-21	EE-21	EE-22	EE-22	[illegible]
Date:	12/86	5/87	11/87	11/87	11/87	3/24/87	7/14/87	3/24/87	7/14/87	[illegible]
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds Concentrations are in ug/L										
Acenapthene	<2.[illegible]	<21	<1.9	<2.0	<2.1	<2.2	<1.9	<420	<20	[illegible]
Acenapthylene	<3.[illegible]	<39	<3.5	<3.7	<3.8	<4.0	<3.6	<780	<37	[illegible]
Anthracene	<2.[illegible]	<21	<1.9	<2.0	<2.1	<2.2	<1.9	<420	<20	[illegible]
Benzidine	<[illegible]	<490	<44	<46	<48	<50	<45	<9,800	<470	[illegible]
Benzo(a)anthracene	<8.[illegible]	<87	<7.9	<8.2	<8.5	<8.9	<8.0	<1,700	<83	[illegible]
Benzo(a)pyrene	<2.[illegible]	<28	<2.5	<2.6	<2.7	<2.8	<2.6	<560	<27	[illegible]
Benzo(b)fluoranthene	<[illegible]	<110	<10	<11	<11	<11	<10	<2,200	<110	[illegible]
Benzo(ghi)perylene	<[illegible]	<46	<4.1	<4.3	<4.5	<[illegible]	<4.2	<910	<44	[illegible]
Benzo(k)fluoranthene	<3.[illegible]	<39	<3.5	<3.7	<3.8	<4.0	<3.6	<780	<37	[illegible]
Bis(2-chloroethoxy)methane	<5.[illegible]	<59	<5.4	<5.6	<5.8	<6.0	<5.4	<1,200	<56	[illegible]
Bis(2-chloroethyl) ether	20.[illegible]	<63	<5.8	<6.0	<6.2	<6.5	<5.8	<1,300	<61	[illegible]
Bis(2-chloroisopropyl) ether	<6.[illegible]	<63	<5.8	<6.0	<6.2	<6.5	<5.8	<1,300	<61	[illegible]
Bis(2-ethylhexyl) phthalate	13.[illegible]	<110	<10	<11	18.4	<11	<10	<2,200	318	[illegible]
4-Bromophenyl phenyl ether	<[illegible]	<21	<1.9	<2.0	<2.1	<2.2	<1.9	<420	<20	[illegible]
Butyl benzyl phthalate	<[illegible]	<110	<10	<11	<11	<11	<10	<2,200	<110	[illegible]
2-Chloronaphthalene	<2	<21	<1.9	<2.0	<2.1	<2.2	<1.9	<420	<20	[illegible]
4-Chlorophenyl phenyl ether	<4.[illegible]	<47	<4.2	<4.4	<4.6	<4.8	<4.3	<930	<45	[illegible]
Chrysene	<2.[illegible]	<28	<2.5	<2.6	<2.7	<2.8	<2.6	<560	<27	[illegible]
Dibenzo(a,h)anthracene	<[illegible]	<110	<10	<11	<11	<11	<10	<2,200	<110	[illegible]
1,2-Dichlorobenzene	590	924	261	<2.0	<2.1	<2.2	<1.9	65,800	30,100	[illegible]
1,3-Dichlorobenzene	12.[illegible]	<21	7.0	<2.0	<2.1	<2.2	<1.9	2,970	<20	[illegible]
1,4-Dichlorobenzene	71[illegible]	1130	276	<4.6	<4.8	<5.0	<4.5	89,500	39,100	[illegible]
3,3'-Dichlorobenzidine	<[illegible]	<180	<17	<17	<18	<19.3	<17	<3,730	<180	[illegible]
Diethyl phthalate	<[illegible]	<110	<10	<11	<11	<11	<10	<2,200	<110	[illegible]
Dimethyl phthalate	<[illegible]	<110	<10	<11	<11	<11	<10	<2,200	<110	[illegible]
Di-n-butyl phthalate	<[illegible]	<110	<10	<11	<11	<11	<10	<2,200	251	[illegible]
2,4-Dinitrotoluene	<6.[illegible]	<63	<5.8	<6.0	<6.2	<6.5	<5.8	<1,300	<61	[illegible]
2,6-Dinitrotoluene	<2.[illegible]	<21	<1.9	<2.0	<2.1	<2.2	<1.9	<420	<20	[illegible]
Di-n-octyl phthalate	<[illegible]	<110	<10	<11	50.4	<11	<10	<2,200	<110	[illegible]
1,2-Diphenylhydrazine	<[illegible]	<110	<10	<11	<11	<11	<10	<2,200	<110	[illegible]
Fluoranthene	<2.3	<24	<2.2	<2.3	<2.4	<2.5	<2.2	<490	<23	[illegible]
Fluorene	<2.[illegible]	<21	<1.9	<2.0	<2.1	<2.2	<1.9	<420	<20	[illegible]
Hexachlorobenzene	<2.[illegible]	<21	<1.9	<2.0	<2.1	<2.2	<1.9	<420	<20	[illegible]
Hexachlorobutadiene	<0.9	<10	<0.9	<.95	<.98	<1.0	<.9	<200	<9.6	[illegible]
Hexachlorocyclopentadiene	<[illegible]	<110	<10	<11	<11	<11	<10	<2,200	<110	[illegible]
Hexachloroethane	<1.7	<18	<1.6	<1.7	<1.7	<1.8	<1.6	<360	<17	[illegible]
Indeno(1,2,3-c,d)pyrene	<5.[illegible]	<52	<4.7	<4.9	<5.1	<5.3	<4.8	<1,000	<50	[illegible]
Isophorone	5.9	<24	<2.2	<2.3	<2.4	<2.5	<2.2	<490	<23	[illegible]
Naphthalene	21.2	30.5	9.8	<1.7	<1.7	<1.8	<1.6	1,960	738	[illegible]
Nitrobenzene	<2.[illegible]	<21	<1.9	<2.0	<2.1	<2.2	[illegible]	<420	<20	[illegible]
n-Nitrosodimethylamine	<[illegible]	<110	<10	<11	<11	<11	[illegible]	<2,200	<110	[illegible]
n-Nitrosodi-n-propylamine	<[illegible]	<110	<10	<11	<11	<11	<10	<2,200	<110	[illegible]
n-Nitrosodiphenylamine	<2.[illegible]	<21	<1.9	<2.0	<2.1	<2.2	<1.9	<420	<20	[illegible]
Phenanthrene	<5.7	<60	<5.5	<5.7	<5.9	<6.1	<5.5	<1,200	<57	[illegible]
Pyrene	<2.[illegible]	<21	<1.9	<2.0	<2.1	<2.2	<1.9	<420	<20	[illegible]
1,2,4-Trichlorobenzene	<2.[illegible]	29	19.1	<2.0	<2.1	<2.2	<1.9	1,760	2100	[illegible]
Sub Total 1	1,350.5	2,113.5	572.9	0	68.8	0	0	167,990	72,867	

* Replicate Sample

Table 3. Summary of Base/Neutral Extractable Organic Compounds in Ground Water, SSDHA, Sauget, [illegible]

Well Designation:	GM-22A	GM-22A	GM-22A	GM-54A	GM-54B	EE-21	EE-21	EE-22	EE-22	EE-23
Date:	12/86	5/87	11/87	11/87	11/87	3/24/87	7/14/87	3/24/87	7/14/87	3/24/87
Non-Priority Pollutant Base/Neutral Extractable Organic Compounds										
Benzyl alcohol	NA	NA	NA	NA	NA	<11	<10	<2,200	<110	<11
Aniline	NA	NA	NA	NA	NA	<11	<10	<2,200	73	<11
4-Chloroaniline	NA	NA	NA	NA	NA	<11	<10	<2,200	1,410	<11
2-Methylnaphthalene	NA	NA	NA	NA	NA	<11	<10	<2,200	<110	<11
2-Nitroaniline	NA	NA	NA	<11	<11	<11	<10	<2,200	<110	<11
3-Nitroaniline	NA	NA	NA	NA	NA	<11	<10	<2,200	<110	<11
Dibenzofuran	NA	NA	NA	NA	NA	<11	<10	<2,200	<110	<11
4-Nitroaniline	NA	NA	NA	<11	<11	<11	<10	<2,200	<110	<11
2-Nitrochlorobenzene	NA	NA	NA	<11	24.7	NA	NA	NA	NA	NA
4-Nitrochlorobenzene	NA	NA	NA	<11	<11	NA	NA	NA	NA	NA
2,4-and 3,4-Dinitrochlorobenzene	NA	NA	NA	<11	<11	NA	NA	NA	NA	NA
4-Nitrodiphenylamine	NA	NA	NA	<11	<11	NA	NA	NA	NA	NA
Triphenyl phosphate	NA	NA	NA	<11	<11	NA	NA	NA	NA	NA
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	NA	<11	<11	NA	NA	NA	NA	NA
4-Nitrobiphenyl	NA	NA	NA	<11	<11	NA	NA	NA	NA	NA
Sub Total 2	NA	NA	NA	0	24.7	0	0	0	1,583	0
Total Base/Neutral Compounds Analyzed	1,351	2,114	572.9	0	93.5	0	0	167,990	74,190	0

NA Not analyzed
* Replicate sample

Table 3. Summary of Base/Neutral Extractable Organic Compounds in Ground water, SSDRA, Sauget, Illinois.

Well Designation:	EE-23	EE-24	EE-24	EE-24	EE-25	EE-25	Field Blank	Field Blank	Trip Blank	Trip Blank
Date:	7/14/87	3/24/87	3/24/87*	7/14/87	3/24/87	7/14/87	3/24/87	7/14/87	3/24/87	7/14/87
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds Concentrations are in ug/L										
Acenaphthene	<2.0	<2.1	<2.1	<1.9	<2.2	<2.0	<2.2	<1.9	<2.1	<1.9
Acenapthylene	<3.7	<3.9	<3.8	<3.6	<4.0	<3.6	<4.0	<3.5	<3.9	<3.5
Anthracene	<2.0	<2.1	<2.1	<1.9	<2.2	<2.0	<2.2	<1.9	<2.1	<1.9
Benzidine	<46	<49	<48	<45	<51	<46	<51	<44	<49	<44
Benzo(a)anthracene	<8.2	<8.7	<8.6	<8.0	<9.0	<8.1	<9.0	<7.9	<8.7	<7.8
Benzo(a)pyrene	<2.6	<2.8	<2.7	<2.6	<2.9	<2.6	<2.9	<2.5	<2.8	<2.5
Benzo(b)fluoroanthene	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
Benzo(ghi)perylene	<4.3	<4.6	<4.5	<4.2	<4.7	<4.3	<4.7	<4.1	<4.6	<4.1
Benzo(k)fluoranthene	<3.7	<3.9	<3.8	<3.6	<4.0	<3.6	<4.0	<3.5	<3.9	<3.5
Bis(2-chloroethoxy)methane	<5.6	<5.9	<5.8	<5.4	<6.1	<5.5	<6.1	<5.4	<5.9	<5.3
Bis(2-chloroetnyl) ether	<6.0	<6.3	<6.3	<5.8	<6.6	<5.9	<6.6	<5.8	<6.3	<5.7
Bis(2-chloroisopropyl) ether	<6.0	<6.3	<6.3	<5.8	<6.6	<5.9	<6.6	<5.8	<6.3	<5.7
Bis(2-ethylhexyl) phthalate	<11	<11	<11	<10	16.3	<10	<11	<10	<11	<10
4-Bromophenyl phenyl ether	<2.0	<2.1	<2.1	<1.9	<2.2	<2.0	<2.2	<1.9	<2.1	<1.9
Butyl benzyl phthalate	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
2-Chloronaphthalene	<2.0	<2.1	<2.1	<1.9	<2.2	<2.0	<2.2	<1.9	<2.1	<1.9
4-Chlorophenyl phenyl ether	<4.4	<4.7	<4.6	<4.3	<4.8	<4.4	<4.8	<4.2	<4.7	<4.2
Chrysene	<2.6	<2.8	<2.7	<2.6	<2.9	<2.6	<2.9	<2.5	<2.8	<2.5
Dibenzo(a,h)anthracene	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
1,2-Dichlorobenzene	<2.0	<2.1	<2.1	<1.9	<2.2	<2.0	<2.2	<1.9	<2.1	<1.9
1,3-Dichlorobenzene	<2.0	<2.1	<2.1	<1.9	<2.2	<2.0	<2.2	<1.9	<2.1	<1.9
1,4-Dichlorobenzene	<4.6	<4.9	<4.8	<4.5	<5.1	<4.6	<5.1	<4.4	<4.9	<4.4
3,3'-Dichlorobenzidine	<17	<18.9	<18.7	<17	<19	<17	<19.5	<17	<18.9	<17
Diethyl phthalate	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
Dimethyl phthalate	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
Di-n-butyl phthalate	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
2,4-Dinitrotoluene	<6.0	<6.3	<6.3	<5.8	<6.6	<5.9	<6.6	<5.8	<6.3	<5.7
2,6-Dinitrotoluene	<2.0	<2.1	<2.1	<1.9	<2.2	<2.0	<2.2	<1.9	<2.1	<1.9
Di-n-octyl phthalate	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
1,2-Diphenylhydrazine	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
Fluoranthene	<2.3	<2.4	<2.4	<2.2	<2.5	<2.3	<2.5	<2.2	<2.4	<2.2
Fluorene	<2.0	<2.1	<2.1	<1.9	<2.2	<2.0	<2.2	<1.9	<2.1	<1.9
Hexachlorobenzene	<2.0	<2.1	<2.1	<1.9	<2.2	<2.0	<2.2	<1.9	<2.1	<1.9
Hexachlorobutadiene	<.95	<1.0	<.99	<.9	<1.0	<.94	<1.0	<.9	<1.0	<.9
Hexachlorocyclopentadiene	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
Hexachloroethane	<1.7	<1.8	<1.8	<1.6	<1.8	<1.7	<1.8	<1.6	<1.8	<1.6
Indeno(1,2,3-c,d)pyrene	<4.9	<5.2	<5.2	<4.8	<5.4	<4.9	<5.4	<4.7	<5.2	<4.7
Isophorone	<2.3	<2.4	<2.4	<2.2	<2.5	<2.3	<2.5	<2.2	<2.4	<2.2
Naphthalene	<1.7	<1.8	<1.8	<1.6	<1.8	<1.7	<1.8	<1.6	<1.8	<1.6
Nitrobenzene	<2.0	<2.1	<2.1	<1.9	<2.2	<2.0	<2.2	<1.9	<2.1	<1.9
n-Nitrosodimethylamine	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
n-Nitrosodi-n-propylamine	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
n-Nitrosodiphenylamine	<2.0	<2.1	<2.1	<1.9	<2.2	<2.0	<2.2	<1.9	<2.1	<1.9
Phenanthrene	<5.7	<6.0	<5.9	<5.5	<6.2	<5.6	<6.2	<5.5	<6.0	<5.4
Pyrene	<2.0	<2.1	<2.1	<1.9	<2.2	<2.0	<2.2	<1.9	<2.1	<1.9
1,2,4-Trichlorobenzene	<2.0	<2.1	<2.1	<1.9	<2.2	<2.0	<2.2	<1.9	<2.1	<1.9
Sub Total *	0	0	0	0	16.3	0	0	0	0	0

* Replicate Sample

Table 3. Summary of Base/Neutral Extractable Organic Compounds in Ground Water, SSCRA, Seugot, Illinois

Well Designation:	EE-23	EE-24	EE-24	EE-24	EE-25	EE-25	Field Blank	Field Blank	[illegible]	[illegible]
Date:	7/14/87	3/24/87	3/24/87*	7/14/87	3/24/87	7/14/87	3/24/87	7/14/87	3/24/87	7/14/87
Non-Priority Pollutant Base/Neutral Extractable Organic Compounds										
Benzyl alcohol	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
Aniline	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
4-Chloroaniline	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
2-Methylnaphthalene	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
2-Nitroaniline	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
3-Nitroaniline	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
Dibenzofuran	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
4-Nitroaniline	<11	<11	<11	<10	<11	<10	<11	<10	<11	<10
2-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-and 3,4-Dinitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Triphenyl phosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total Base/Neutral Compounds Analyzed	0	0	0	0	16.3	0	0	0	0	0

NA Not analyzed

Table 4. Summary of Pesticide/PCB Compounds in Ground Water, SSDRA, Sauget, Illinois.

Well Designation:	GM-54A	GM-54B	EE-21	EE-21	EE-22	EE-22	EE-23	EE-23	EE-24	EE-24
Date:	11/87	11/87	3/24/87	7/14/87	3/24/87	7/14/87	3/24/87	7/14/87	3/24/87	3/24/87
USEPA Priority Pollutant Pesticide/PCB Compounds Concentrations are in ug/L										
Aldrin	<2.0	<2.1	<2.2	<1.9	<420	<20	<2.1	<2.0	<2.1	<2.1
Alpha-BHC	<11	<11	<11	<10	<2,200	<110	<11	<11	<11	<11
Beta-BHC	<4.8	<4.8	<5	<4.5	<980	<47	<4.9	<4.8	<4.9	<4.8
Gamma-BHC	<11	<11	<11	<10	<2,200	<110	<11	<11	<11	<11
Delta-BHC	<3.3	<3.4	<3.5	<3.2	<690	<33	<3.4	<3.3	<3.4	<3.4
Chlordane	<11	<11	<11	<10	<2,200	<110	<11	<11	<11	<11
4,4'-DDT	<2.9	<3.0	<3.2	<2.9	<620	<30	<3.1	<2.9	<3.1	<3.1
4,4'-DDE	<5.9	<6.1	<6.4	<5.7	<1,200	<60	<6.2	<5.9	<6.2	<6.2
4,4'-DDD	<4.9	<5.1	<5.3	<4.8	<1,000	<50	<5.2	<4.9	<5.2	<5.2
Dieldrin	<2.6	<2.7	<2.8	<2.6	<560	<27	<2.8	<2.6	<2.8	<2.7
Endosulfan I	<11	<11	<11	<10	<2,200	<110	<11	<11	<11	<11
Endosulfan II	<11	<11	<11	<10	<2,200	<110	<11	<11	<11	<11
Endosulfan sulfate	<5.9	<6.1	<6.4	<5.7	<1,200	<60	<6.2	<5.9	<6.2	<6.2
Endrin	<11	<11	<11	<10	<2,200	<110	<11	<11	<11	<11
Endrin aldehyde	<11	<11	<11	<10	<2,200	<110	<11	<11	<11	<11
Heptachlor	<2.0	<2.1	<2.2	<1.9	<420	<20	<2.1	<2.0	<2.1	<2.1
Heptachlor epoxide	<2.3	<2.4	<2.5	<2.2	<490	<23	<2.4	<2.3	<2.4	<2.4
PCB-1016	<38	<39	<41	<37	<8,000	890	<40	<38	<40	<40
PCB-1221	<38	<39	<41	<37	<8,000	<380	<40	<38	<40	<40
PCB-1232	<38	<39	<41	<37	<8,000	<380	<40	<38	<40	<40
PCB-1242	<38	<39	<41	<37	<8,000	<380	<40	<38	<40	<40
PCB-1248	<38	<39	<41	<37	<8,000	<380	<40	<38	<40	<40
PCB-1254	<38	<39	<41	<37	<8,000	<380	<40	<38	<40	<40
PCB-1260	<38	<39	<41	<37	<8,000	<380	<40	<38	<40	<40
Toxaphene	<11	<11	<11	<10	<2,200	<110	<11	<11	<11	<11
Total Pesticide/PCB Compounds	0	0	0	0	0	890	0	0	0	0

NA - Not Analyzed

Table 4. Summary of Pesticide/PCB Compounds in Ground Water, SSDRA, Sauget, Illinois.

Well Designation:	EE-24	EE-25	EE-25	Field Blank	Field Blank
Date:	7/14/87	3/24/87	7/14/87	3/24/87	7/14/87
USEPA Priority Pollutant Pesticide/PCB Compounds Concentrations are in ug/L					
Aldrin	<1.9	<2.2	<2.3	<2.2	<1.9
Alpha-BHC	<10	<11	<10	<11	<10
Beta-BHC	<4.5	<5.1	<4.6	<5.1	<4.4
Gamma-BHC	<10	<11	<10	<11	<10
Delta-BHC	<3.2	<3.6	<3.2	<3.6	<3.1
Chlordane	<10	<11	<10	<11	<10
4,4'-DDT	<2.9	<3.2	<2.9	<3.2	<2.8
4,4'-DDE	<5.7	<6.4	<5.8	<6.4	<5.7
4,4'-DDD	<4.8	<5.4	<4.9	<5.4	<4.7
Dieldrin	<2.6	<2.9	<2.6	<2.9	<2.5
Endosulfan I	<10	<11	<10	<11	<10
Endosulfan II	<10	<11	<10	<11	<10
Endosulfan sulfate	<5.7	<6.4	<5.8	<6.4	<5.7
Endrin	<10	<11	<10	<11	<10
Endrin aldehyde	<10	<11	<10	<11	<10
Heptachlor	<1.9	<2.2	<2.3	<2.2	<1.9
Heptachlor epoxide	<2.2	<2.5	<2.3	<2.5	<2.2
PCB-1016	<37	<41	<38	<41	<36
PCB-1221	<37	<41	<38	<41	<36
PCB-1232	<37	<41	<38	<41	<36
PCB-1242	<37	<41	<38	<41	<36
PCB-1248	<37	<41	<38	<41	<36
PCB-1254	<37	<41	<38	<41	<36
PCB-1260	<37	<41	<38	<41	<36
Toxaphene	<10	<11	<10	<11	<10
Total Pesticide/PCB Compounds	0	0	0	0	0

NA - Not Analyzed

Table 11. Summary of Metals and Miscellaneous Parameters in Ground Water, DSDRA, Stage [illegible]

Well Designation:	GM-19A	GM-19A	GM-19A	GM-19B	GM-19B	GM-19B	GM-19B	GM-19B	GM-19B	GM-19C	[illegible]
Date:	12/86	5/87	11/87	12/86	12/86*	5/87	5/87*	11/87	11/87*	12/86	[illegible]
USEPA Priority Pollutant Metals (Concentrations are in mg/L, except where noted)											
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals											
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters											
pH (units)	6.7	6.9	7.0	7.4	7.4	7.5	7.5	7.5	7.5	8.7	[illegible]
Spec. conductance (umhos/cm)	1,800	1,500	1,000	1,380	1,380	1,300	1,300	1,900	1,900	900	[illegible]
Temperature (deg. C.)	13	15	15	13	13	15	15	14	14	13	[illegible]
Total Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA - Not analyzed.
* - Replicate Sample

Table 5. Summary of Metals and Miscellaneous Parameters in Ground Water, SSDRA, Sauget, IL.

Well Designation:	GM-19C	GM-21A	GM-21A	GM-21A	GM-21B	GM-21B	GM-21B	GM-22A	GM-22A	GM-22A	GM-22B
Date:	11/87	12/86	5/87	11/87	12/86	5/87	11/87	12/86	5/87	11/87	12/86
USEPA Priority Pollutant Metals (Concentrations are in mg/L, except where noted)											
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals											
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters											
pH (units)	6.7	6.7	6.4	6.6	8.2	6.9	6.9	6.4	6.6	6.7	6.7
Spec. conductance (umhos/cm)	1,525	1,425	1,250	1,280	1,330	1,500	1,600	3,000	3,100	1,450	1,...
Temperature (deg. C.)	13	NA	17	16	13	15	15	13	15	16	13
Total Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA - Not analyzed.
* - Replicate Sample

Table 5. Summary of Metals and M[illegible] Parameters in Ground Water, SSDRA, Sauget, [illegible]

Well Designation:	GM-22S	GM-22B	GM-54A	GM-54B	EE-21	EE-21	EE-22	EE-22	EE-23	[illegible]
Date:	5/87	11/87	11/87	11/87	3/24/87	7/14/87	3/24/87	7/14/87	3/24/87	[illegible]
USEPA Priority Pollutant Metals (Concentrations are in mg/L, except where noted)										
Antimony	NA	NA	<.080	<.080	<.089	<.14	<.089	<.14	<.089	[illegible]
Arsenic	NA	NA	<.010	<.010	<.010	<.010	0.012	0.012	0.024	[illegible]
Beryllium	NA	NA	<.00078	<.00078	<.00054	<.00036	<.00054	<.00036	<.00054	[illegible]
Cadmium	NA	NA	<.0055	<.0055	<.0031	<.0029	<.0031	<.0029	<.0031	[illegible]
Chromium	NA	NA	<.032	<.032	<.017	<.017	<.017	<.017	<.017	[illegible]
Copper	NA	NA	<.012	<.012	<.014	<.012	<.014	<.012	<.014	[illegible]
Lead	NA	NA	<.062	0.005	<.048	<.083	<.048	<.083	<.048	[illegible]
Mercury	NA	NA	<.00020	<.0020	<.00022	<.00025	<.00022	<.00025	<.00022	[illegible]
Nickel	NA	NA	<.015	<.015	<.0098	<.012	<.0098	<.012	<.0098	[illegible]
Selenium	NA	NA	<.005	<.005	<.0050	<.005	<.0050	<.005	<.0050	[illegible]
Silver	NA	NA	<.027	<.027	<.012	<.0093	<.012	<.0093	<.012	[illegible]
Thallium	NA	NA	<.010	<.010	<.0050	<.005	<.0050	<.005	<.0050	[illegible]
Zinc	NA	NA	1.70	0.040	<.020	0.061	<.010	<.0068	0.029	[illegible]
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	<.099	<.066	<.099	<.066	<.099	[illegible]
Barium	NA	NA	NA	NA	0.15	0.134	0.513	0.477	0.17	[illegible]
Cobalt	NA	NA	NA	NA	<.023	<.028	<.023	<.028	<.023	[illegible]
Tin	NA	NA	NA	NA	<.048	<.0081	<.048	<.0081	<.048	[illegible]
Vanadium	NA	NA	NA	NA	<.014	<.0014	<.014	<.0014	<.014	[illegible]
Boron	NA	NA	NA	NA	0.47	0.37	0.50	0.46	0.51	[illegible]
Iron	NA	NA	NA	NA	20.9	17.7	[illegible]75	202	23.8	[illegible]
Manganese	NA	NA	NA	NA	3.69	3.67	0.63	7.23	[illegible]	[illegible]
Miscellaneous Parameters										
pH (units)	7.4	7.4	6.9	7.1	6.8	7.4	[illegible]	7.5	[illegible]	[illegible]
Spec. conductance (umhos/cm)	800	900	1,200	1,450	1800	1400	[illegible]	1700	[illegible]	[illegible]
Temperature (deg. C.)	15	15	17	18	14	NA	[illegible]3	NA	[illegible]	[illegible]
Total Cyanide	NA	NA	<.025	<.025	<.025	<.025	0.032	0.032	<.025	[illegible]
Total phenols	NA	NA	<.050	<.050	NA	NA	NA	NA	NA	[illegible]

NA - Not analyzed.
* - Replicate Sample

Table 5. Summary of Metals and Miscellaneous Parameters in Ground Water, SSDRA, Sauget, IL

Well Designation:	EE-24*	EE-24	EE-25	EE-25	Field Blank	Field Blank
Date:	3/24/87	7/14/87	3/24/87	7/14/87	3/24/87	7/14/87
USEPA Priority Pollutant Metals (Concentrations are in mg/L, except where noted.						
Antimony	<.089	<.14	<.089	<.14	<.089	<.14
Arsenic	0.021	0.018	<.050	<.010	<.010	<.010
Beryllium	<.00054	<.00036	<.00054	<.00036	<.00054	<.00036
Cadmium	<.0031	<.0029	<.0031	<.0029	<.0031	<.0029
Chromium	<.017	<.017	<.017	<.017	<.017	<.017
Copper	<.014	<.012	<.014	<.012	<.014	<.012
Lead	<.048	<.083	<.048	<.083	<.048	<.083
Mercury	<.00022	<.00025	<.00022	<.00025	<.00022	<.00025
Nickel	<.0098	<.012	0.011	<.012	<.0098	<.012
Selenium	<.010	<.005	<.010	<.005	<.0050	<.005
Silver	<.012	<.0093	<.012	<.0093	<.012	<.0093
Thallium	<.0050	<.005	<.0050	<.005	<.0050	<.005
Zinc	<.020	0.073	<.020	0.0095	<.020	<.0063
Non-Priority Pollutant Metals						
Aluminum	<.099	<.066	<.099	<.066	<.099	<.066
Barium	0.18	0.217	0.12	0.091	<.0037	<.00095
Cobalt	<.023	<.028	<.023	<.028	<.023	<.028
Tin	<.048	<.0081	<.048	<.0081	<.048	<.0081
Vanadium	<.014	<.0014	<.014	<.0014	<.014	<.0014
Boron	0.35	0.32	0.46	<.35	<.015	<.013
Iron	44.2	40.3	3.8	1.77	<.20	<.150
Manganese	5.44	5.49	2.35	1.61	0.0064	<.0048
Miscellaneous Parameters						
pH (units)	7.2	7.4	7.0	7.8	NA	NA
Spec. conductance (umhos/cm)	4200	4200	1400	1200	NA	NA
Temperature (deg. C.)	14	NA	13	NA	NA	NA
Total Cyanide	<.025	<.025	<.025	<.025	<.025	<.025
Total phenols	NA	NA	NA	NA	NA	NA

NA - Not analyzed.
* - Replicate Sample

NOTE: THE DATA PRESENTED IN THIS SECTION PERTAINS TO MOST OF THE AREA 2 SITES INCLUDING THE MONSANTO PROPERTY. THIS DATA IS PRESENTED IN THE ORIGINAL REPORT FORMAT.

SOURCE: "RCRA Part B Application - Monsanto Company - W. G. Krummrich Plant" Sauget, Illinois, December 15, 1990

R.C.R.A. PART B APPLICATION

MONSANTO COMPANY
W. G. KRUMMRICH PLANT
SAUGET, ILLINOIS

DECEMBER 15, 1990

RECEIVED
DEC 18 1990
IEPA-DLPC

SCREENED

	ORIGINAL 11/19/80		REVISION 1 3/25/84		REVISION 2 12/6/84		REVISION 3 5/28/85		REVISION 4 6/10/85		REVISION 5 8/8/86		REVISION 6 5/—/90		REVISION 7 12/14/90	
ITEM	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY
071	K071	2,650,000	K071	400000	K071	400000	K071	400000	K071	400000	K071	400000				
085	K085	110,300	K085	125000	K085	125000	K085	125000	K085	175000	K085	175000	K085	175000	K085	220000
106									K106	*	K106	*				
122													P022	50	P022	50
124	P024	100														
077	P077	330	P077	500	P077	500	P077	500	P077	500	P077	500	P077	500	P077	500
106													P106	50		
001	U001	100														
002	U002	100							U002	*	U002	*	U002	100	U002	100
003	U003	100											U003	50	U003	50
007	U007	100														
008	U008	100														
012	U012	330							U012	100	U012	100	U012	100	U012	100
013	U013	1,100														
017	U017	1,881,800														
019	U019	100	U019	100	U019	100	U019	100	U019	100	U019	100	U019	50000	U019	50000
031	U031	100											U031	50	U031	50
037	U037	5,500	U037	5000	U037	5000	U037	5000	U037	5000	U037	5000	U037	5000	U037	5000
044	U044	50											U044	50	U044	50
070									U070	100	U070	100	U070	20000	U070	20000
071	U071	100	U071	100	U071	100	U071	100					U071	5000	U071	5000
072	U072	100	U072	100	U072	100	U072	100	U072	100	U072	100	U072	20000	U072	20000
080													U080	50	U080	50
109									U109	100	U109	100	U109	100		
123													U123	1000	U123	1000
140													U140	50	U140	50
147	U147	12,000														
151	U151	1,100														
154	U154	100											U154	50	U154	50
159	U159	330							U159	100	U159	100	U159	100	U159	100
161	U161	100	U161	100			U161	100	U161	100	U161	100	U161	100	U161	100
187	U187	1,000														
188	U188	100											U188	50	U188	50
189									U189	*	U189	*	U189	1000	U189	1000
190	U190	12,000														
211													U211	50		
213													U213	50	U213	50
220	U220	100											U220	50	U220	50
226	U226	300											U226	50	U226	50
239	U239	100	U239	100	U239	100	U239	100	U239	100	U239	100	U239	100	U239	100

	ORIGIONAL 11/19/80		REVISION 1 3/25/84		REVISION 2 12/6/84		REVISION 3 5/28/85		REVISION 4 6/10/85		REVISION 5 8/8/86		REVISION 6 5/—/90		REVISION 7 12/14/90	
ADDRESS	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY
D001	D001	4,735,000	D001	500000	D001	500000	D001	625000	D001	625000	D001	625000	D001	625000	D001	625000
D002	D002	11,000	D002	10000	D002	10000	D002	30000	D002	30000	D002	30000	D002	30000	D002	30000
D003	D003	55,000	D003	55000	D003	55000	D003	55000	D003	55000	D003	55000	D003	55000	D003	55000
D005													D005	1000	D005	1000
D007													D007	1000	D007	1000
D008													D008	10000	D008	10000
D009	D009	23,000	D009	1000000	D009	1000000	D009	1000000	D009	1000000	D009	1000000	D009	10000	D009	10000
															D010	60000
D012							D012	1000	D012	1000	D012	1000	D012	1000	D012	1000
D013							D013	1000	D013	1000	D013	1000	D013	1000	D013	1000
D014							D014	1000	D014	1000	D014	1000	D014	1000	D014	1000
D015							D015	1000	D015	1000	D015	1000	D015	1000	D015	1000
D016							D016	1000	D016	1000	D016	1000	D016	1000	D016	1000
D017							D017	1000	D017	1000	D017	1000	D017	1000	D017	1000
															D018	2090000
															D021	2000000
															D027	400000
															D028	500
															D029	500
															D030	500
															D032	1000
															D034	500
															D035	100000
															D036	1500000
															D037	1000
															D039	500
															D040	500
															D041	1000
															D042	1000
F001	F001	11,000														
F001													F001	1000	F001	1000
F002	F002	11,000					F002	*	F002	*	F002		1000	F002	1000	
F003	F003	11,000					F003	*	F003	*	F003		5000	F003	5000	
F004	F004	11,000														
F005	F005	11,000					F005	*	F005	*	F005		1000	F005	1000	
F020									F020	100	F020		100	F020	100	
F021									F021	*	F021		100	F021	100	

recycled paper

ecology and environment

RCRA PART A SUMMARY SHEET

ORIGIONAL 11/19/80		REVISION 1 9/25/84		REVISION 2 12/6/84		REVISION 3 5/28/85		REVISION 4 6/10/85		REVISION 5 8/8/86		REVISION 6 5/--/90		REVISION 7 12/14/90	
CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY	CODE	QUANTITY
S01	200,000	S01 GAL	200,000	S01 GAL	400,000	S01 GAL	400,000	S01 GAL	400,000	S01 GAL	400,000	S01 GAL	400,000	S01 GAL	400,000
S02	350,000	S02 GAL	5,000	S02 GAL	5,000	S02 GAL	13,000	S02 GAL	13,000	S02 GAL	13,000	S02 GAL	13,000	S02 GAL	13,000
S03 Y	40	S03 YDS	40	S03 YDS	40	DELETED		DELETED		DELETED		DELETED		DELETED	
T01	400	T01 GAL/	400	T01 GAL/	400	T01 GAL/	400	T01 GAL/	400	T01 GAL/	400	DELETED		DELETED	
T03 T	2	DELETED		DELETED		DELETED		DELETED		DELETED		DELETED		DELETED	
T04 G	9,000	T04 GAL/H	9,000	T04 GAL/H	9,000	T04 GAL/H	9,000	T04 GAL/H	9,000	T04 GAL/H	9,000	DELETED		DELETED	
						S01 YDS	40	S01 YDS	40	S01 YDS	40	S01 YDS	40	S01 YDS	40
														T01 GAL/C	6000
														S02 GAL	8000

CONTENTS

Table 1	Summary of Volatile Organic Compounds
Table 2	Summary of Acid Extractable Organic Compounds
Table 3	Summary of Base/Neutral Extractable Organic Compounds
Table 4	Summary of Pesticide/PCB Compounds
Table 5	Summary of Metals and Miscellaneous Parameters

Table 1 Summary of Volatile Organic Compounds in Ground water, Rockmart Plant, Rockmart Georgia

Well Number:	GM-4A	GM-4A	GM-4A	GM-4A	GM-4A	GM-4A	GM-4B	GM-4B	GM-4B	GM-4B
Date:	12/86	5/87	11/87	5/88	11/88	11/89	12/86	5/87	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<100	<100	<100	<100	<100	<100	<5,000	<500	<100
Acrylonitrile	<100	<100	<100	<100	<100	<100	<100	<5,000	<500	<100
Benzene	<4.4	<4.4	<4.4	<4.4	<4.4	4.84	<4.4	<220	31.9	<4.4
Bis (chloromethyl) ether	<10	<10	<10	<10	<10	<10	<10	<500	<50	<10
Bromoform	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<240	<24	<4.7
Carbon tetrachloride	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<140	<14	<2.8
Chlorobenzene	<6	<6.0	<6.0	<6.0	<6.0	20.7	<6	3,050	1,990	<6.0
Chlorodibromomethane	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<160	<16	<3.1
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<500	<50	<10
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10	<10	<10	<500	<50	<10
Chloroform	<1.6	<1.6	<1.6	1.9	<1.6	<1.6	<1.6	<80	<8.0	2.0
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<110	<11	<2.2
Dichlorodifluoromethane	<10	<10	<10	<10	<10	<10	<10	<500	<50	<10
1,1-Dichloroethane	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<240	<24	<4.7
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<140	<14	<2.8
1,1-Dichloroethylene	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<140	<14	<2.8
1,2-Dichloropropane	<6	<6	<6.0	<6.0	<6.0	<6.0	<6	<300	<30	<6.0
cis-1,3-Dichloropropylene	<5	<5	<5.0	<5.0	<5.0	<5.0	<5	<250	<25	<5.0
Ethylbenzene	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<360	<36	<7.2
Methyl bromide	<10	<10	<10	<10	<10	<10	<10	<500	<50	<10
Methyl chloride	<10	<10	<10	<10	<10	<10	<10	<500	<50	<10
Methylene chloride	<2.8	41.5	3.23	13.3	13.6	3.71	<2.8	208	<14	64.9
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<350	<35	<6.9
Tetrachloroethylene	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<210	<21	<4.1
Toluene	<6	<6	<6.0	<6.0	<6.0	<6.0	<6	<300	<30	<6.0
1,2-trans-Dichloroethylene	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<80	<8.0	<1.6
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<190	<19	<3.8
1,1,2-Trichloroethane	<5	<5	<5.0	<5.0	<5.0	<5.0	<5	<250	<25	<5.0
Trichloroethylene	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<95	<9.5	<1.9
Trichlorofluoromethane	<10	<10	<10	<10	<10	<10	<10	<500	<50	<10
Vinyl chloride	<10	<10	<10	<10	<10	<10	<10	<500	<50	<10
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<10	<10	<500	<50	<10
Sub Total 1	0	42	3	15	14	29	0	3,258	2,022	67
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl isoamyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene/p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	0	42	3	15	14	29	0	3,258	2,022	67

Table 1. Summary of Volatile Organic Compounds in Drinking Water, Krummrich Plant, Badger Division

Well Number:	GM-4B	GM-4B	GM-4B	GM-4C	GM-4C	GM-4C	GM-4C	GM-4C	GM-4C	GM-4C
Date:	11/88	5/89	11/89	12/86	5/87	11/87	5/88	11/88	5/89	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<1000	<10000	<100	<5,000	<1000	<100	<100	<1000	<10000
Acrylonitrile	<100	<1000	<10000	<100	<5,000	<1000	<100	<100	<1000	<10000
Benzene	13.2	127	<440	<4.4	<220	<44	<4.4	<4.4	290	693
Bis (chloromethyl) ether	<10	<100	<1000	<10	<500	<100	<10	<10	<100	<1000
Bromoform	<4.7	<47	<470	<4.7	<240	<47	<4.7	<4.7	<47	<470
Carbon tetrachloride	<2.8	<28	<280	<2.8	<140	<28	<2.8	<2.8	<28	<280
Chlorobenzene	<6.0	3,510	8,120	<6	1,770	2,490	<6.0	71.6	5,440	14,700
Chlorodibromomethane	<3.1	<31	<310	<3.1	<160	<31	<3.1	<3.1	<31	<310
Chloroethane	<10	<100	<1000	<10	<500	<100	<10	<10	<100	<1000
2-Chloroethylvinyl ether	<10	<100	<1000	<10	<500	<100	<10	<10	<100	<1000
Chloroform	<1.6	<16	<160	<1.6	<80	46	<1.6	<1.6	<16	<160
Dichlorobromomethane	<2.2	<22	<220	<2.2	<110	<22	<2.2	<2.2	<22	<220
Dichlorodifluoromethane	<10	<100	<1000	<10	<500	<100	<10	<10	<100	<1000
1,1-Dichloroethane	<4.7	<47	<470	<4.7	<240	<47	<4.7	<4.7	<47	<470
1,2-Dichloroethane	<2.8	<28	<280	<2.8	<140	<28	<2.8	<2.8	<28	<280
1,1-Dichloroethylene	<2.8	<28	<280	<2.8	<140	<28	<2.8	<2.8	<28	<280
1,2-Dichloropropane	<6.0	<60	<600	<6	<300	<60	<6.0	<6.0	<60	<600
cis-1,3-Dichloropropylene	<5.0	<50	<500	<5	<250	<50	<5.0	<5.0	<50	<500
Ethylbenzene	<7.2	<72	<720	<7.2	<360	<72	<7.2	<7.2	<72	<720
Methyl bromide	<10	<100	<1000	<10	<500	<100	<10	<10	<100	<1000
Methyl chloride	<10	<100	<1000	<10	<500	<100	<10	<10	<100	<1000
Methylene chloride	<2.8	<28	<280	<2.8	203	<28	38.4	<2.8	60.5	455
1,1,2,2-Tetrachloroethane	<6.9	<69	<690	<6.9	<350	<69	<6.9	<6.9	<69	<690
Tetrachloroethylene	<4.1	<41	<410	<4.1	<210	<41	<4.1	<4.1	<41	<410
Toluene	<6.0	<60	<600	<6	<300	<60	<6	<6	<60	<600
1,2-trans-Dichloroethylene	<1.6	<16	<160	<1.6	<80	<16	<1.6	<1.6	<16	<160
1,1,1-Trichloroethane	<3.8	<38	<380	<3.8	<190	<38	<3.8	<3.8	<38	<380
1,1,2-Trichloroethane	<5.0	<50	<500	<5	<250	<50	<5	<5	<50	<500
Trichloroethylene	<1.9	<19	<190	<1.9	<95	<19	<1.9	<1.9	<19	<190
Trichlorofluoromethane	<10	<100	<1000	<10	<500	<100	<10	<10	<100	<1000
Vinyl chloride	<10	<100	<1000	<10	<500	<100	<10	<10	<100	<1000
trans-1,3-Dichloropropylene	<10	<100	<1000	<10	<500	<100	<10	<10	<100	<1000
Sub Total 1	13	3,637		0	1,973	2,536	38	72	5,791	15,848
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA		NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA		NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA		NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA		NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA		NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA		NA	NA	NA	NA	NA	NA	NA
Methyl isoamyl ketone	NA	NA		NA	NA	NA	NA	NA	NA	NA
m-Xylene	NA	NA		NA	NA	NA	NA	NA	NA	NA
o-Xylene/p-Xylene	NA	NA		NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0		0	0	0	0	0	0	0
Total VOCs Analyzed	13	3,637		0	1,973	2,536	38	72	5,791	15,848

Table 1 Summary of Volatile Organic Compounds in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-9A	GM-9A	GM-9A	GM-9A	GM-9A	GM-9A	GM-9B	GM-9B	GM-9B	GM-9B
Date:	12/86	5/87	11/87	5/88	11/88	11/89	12/86	5/87	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<1,000	<100	<100	<100	<100	<100	<100	<100	<100	<500
Acrylonitrile	<1,000	<100	<100	<100	<100	<100	<100	<100	<100	<500
Benzene	74.4	8.6	<4.4	<4.4	<4.4	<4.4	<4.4	10.8	11.9	<22
Bis (chloromethyl) ether	<100	<10	<10	<10	<10	<10	<10	<10	<10	<50
Bromoform	<47	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<24
Carbon tetrachloride	<28	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<14
Chlorobenzene	<60	138	<6.0	<6.0	<6.0	<6.0	<6	96.6	130.0	248
Chlorodibromomethane	<31	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<16
Chloroethane	<100	<10	<10	<10	<10	<10	<10	<10	<10	<50
2-Chloroethylvinyl ether	<100	<10	<10	<10	<10	<10	<10	<10	<10	<50
Chloroform	<16	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<8.0
Dichlorobromomethane	<22	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<11
Dichlorodifluoromethane	<100	<10	<10	<10	<10	<10	<10	<10	<10	<50
1,1-Dichloroethane	<47	6.2	<4.7	<4.7	<4.7	<4.7	<4.7	34.6	31.1	<24
1,2-Dichloroethane	<28	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<14
1,1-Dichloroethylene	<28	7.1	<2.8	<2.8	<2.8	<2.8	<2.8	13.5	5.94	<14
1,2-Dichloropropane	<60	<6	<6.0	<6.0	<6.0	<6.0	<6	<6	<6.0	<30
cis-1,3-Dichloropropylene	<50	<5	<5.0	<5.0	<5.0	<5.0	<5	<5	<5.0	<25
Ethylbenzene	<72	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<36
Methyl bromide	<100	<10	<10	<10	<10	<10	<10	<10	<10	<50
Methyl chloride	<100	<10	<10	<10	<10	<10	<10	<10	<10	<50
Methylene chloride	<28	<2.8	11.6	7.4	5.46	<2.8	<2.8	<2.8	<2.8	39.3
1,1,2,2-Tetrachloroethane	<69	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<35
Tetrachloroethylene	<41	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<21
Toluene	<60	<6	<6.0	<6.0	<6.0	<6.0	<6	<6	<6.0	<30
1,2-trans-Dichloroethylene	<16	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	146	110	22.6
1,1,1-Trichloroethane	<38	112	<3.8	<3.8	5.92	4.46	<3.8	8.4	<3.8	<19
1,1,2-Trichloroethane	<50	<5	<5.0	<5.0	<5.0	<5.0	<5	<5	<5.0	<25
Trichloroethylene	<19	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<9.5
Trichlorofluoromethane	<100	<10	<10	<10	<10	<10	<10	<10	<10	<50
Vinyl chloride	<100	<10	<10	<10	<10	<10	<10	22.8	13.9	<50
trans-1,3-Dichloropropylene	<100	<10	<10	<10	<10	<10	<10	<10	<10	<50
Sub Total 1	74	272	12	7	11	4	0	333	303	310
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl isoamyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene/p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	74	272	12	7	11	4	0	333	303	310

Table 1 Summary of Volatile Organic Compounds in Drinking Water Wellfield Plant Badger Avenue

Well Number:	GM-9B	GM-9B	GM-9C	GM-9C	GM-9C	GM-9C	GM-9C	GM-9C	GM-10A	GM-10
Date:	11/88	11/89	12/86	5/87	11/87	5/88	11/88	11/89	12/86	5/8
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<1	'00	<100	<100	<100	<100	<100	<100	<100
Acrylonitrile	<100	<100		<100	<100	<100	<100	<100	<100	<100
Benzene	7.66	5.60		30.9	11.9	<4.4	22.5	5.43	<4.4	<4.4
Bis (chloromethyl) ether	<10	<10		<10	<10	<10	<10	<10	<10	<10
Bromoform	<4.7	<4.7	<4	4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
Carbon tetrachloride	<2.8	<2.8	<2.8	3	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
Chlorobenzene	187	124	17.9		214.0	<6.0	139	56.9	<6	<6
Chlorodibromomethane	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Dichlorodifluoromethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethane	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,1-Dichloroethylene	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,2-Dichloropropane	<6	<6.0	<6	<6	<6.0	<6.0	<6	<6.0	<6	<6
cis-1,3-Dichloropropylene	<5	<5.0	<5	<5	<5.0	<5.0	<5	<5.0	<5	<5
Ethylbenzene	<7.2	<7.2	<7.2	10.7	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
Methyl bromide	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	7.84	<2.8	<2.8	<2.8	9.40	34.5	8.14	<2.8	<2.8	<2.8
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
Tetrachloroethylene	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	
Toluene	<6	<6.0	<6	<6	10.8	<6.0	<6	<6.0	<6	6
1,2-trans-Dichloroethylene	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
1,1,2-Trichloroethane	<5	<5.0	<5	<5	<5.0	<5.0	<5	<5.0	<5	<5
Trichloroethylene	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Trichlorofluoromethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl chloride	73.8	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Sub Total 1	276	130	18	678	246	35	170	62	0	0
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl isoamyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene/p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	276	130	18	678	246	35	170	62	0	0

Table 1. Summary of Volatile Organic Compounds in Ground Water, Krummrich Plant, Badger, Louisiana

Well Number:	GM-10A	GM-10A	GM-10A	GM-10A	GM-10B	GM-10B	GM-10B	GM-10B	GM-10B	GM-10B
Date:	11/87	5/88	11/88	11/89	12/86	5/87	11/87	5/88	11/88	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<100	<100	<100	<1,000	<100	<100	<100	<100	<1000
Acrylonitrile	<100	<100	<100	<100	<1,000	<100	<100	<100	<100	<1000
Benzene	<4.4	<4.4	<4.4	<4.4	<44	<4.4	13.1	<4.4	<4.4	<44
Bis (chloromethyl) ether	<10	<10	<10	<10	<100	<10	<10	<10	<10	<100
Bromoform	<4.7	<4.7	<4.7	<4.7	<47	<4.7	<4.7	<4.7	<4.7	<47
Carbon tetrachloride	<2.8	<2.8	<2.8	<2.8	<28	<2.8	<2.8	<2.8	<2.8	<28
Chlorobenzene	<6.0	<6.0	<6.0	<6.0	299	<6	616	<6.0	<6.0	502
Chlorodibromomethane	<3.1	<3.1	<3.1	<3.1	<31	<3.1	<3.1	<3.1	<3.1	<31
Chloroethane	<10	<10	<10	<10	<100	<10	<10	<10	<10	<100
2-Chloroethylvinyl ether	<10	<10	<10	<10	<100	<10	<10	<10	<10	<100
Chloroform	<1.6	<1.6	<1.6	<1.6	<16	<1.6	<1.6	1.7	<1.6	<16
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<22	<2.2	<2.2	<2.2	<2.2	<22
Dichlorodifluoromethane	<10	<10	<10	<10	<100	<10	<10	<10	<10	<100
1,1-Dichloroethane	<4.7	<4.7	<4.7	<4.7	<47	<4.7	<4.7	<4.7	<4.7	<47
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<28	<2.8	<2.8	<2.8	<2.8	<28
1,1-Dichloroethylene	<2.8	<2.8	<2.8	<2.8	<28	<2.8	<2.8	<2.8	<2.8	<28
1,2-Dichloropropane	<6.0	<6.0	<6.0	<6.0	<60	<6	<6.0	<6.0	<6.0	<60
cis-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	<50	<5	<5.0	<5.0	<5.0	<50
Ethylbenzene	<7.2	<7.2	<7.2	<7.2	<72	<7.2	<7.2	<7.2	<7.2	<72
Methyl bromide	<10	<10	<10	<10	<100	<10	<10	<10	<10	<100
Methyl chloride	<10	<10	<10	<10	<100	<10	<10	<10	<10	<100
Methylene chloride	<2.8	37.2	7.09	<2.8	<28	5	<2.8	35.1	7.45	<28
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<69	<6.9	<6.9	<6.9	<6.9	<69
Tetrachloroethylene	<4.1	<4.1	<4.1	<4.1	<41	<4.1	<4.1	<4.1	<4.1	<41
Toluene	<6.0	<6.0	<6.0	<6.0	<60	<6	<6.0	<6.0	<6.0	<60
1,2-trans-Dichloroethylene	<1.6	<1.6	<1.6	<1.6	<16	<1.6	<1.6	<1.6	<1.6	<16
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	<3.8	<38	<3.8	<3.8	<3.8	<3.8	<38
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<50	<5	<5.0	<5.0	<5.0	<50
Trichloroethylene	<1.9	<1.9	<1.9	<1.9	<19	<1.9	<1.9	<1.9	<1.9	<19
Trichlorofluoromethane	<10	<10	<10	<10	<100	<10	<10	<10	<10	<100
Vinyl chloride	<10	<10	<10	<10	<100	<10	<10	<10	<10	<100
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<100	<10	<10	<10	<10	<100
Sub Total 1	0	37	7	0	299	5	629	37	7	502
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl isoamyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene/p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	0	37	7	0	299	5	629	37	7	502

Table ... Summary of Volatile Organic Compounds in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-10C	GM-10C	GM-10C	GM-10C	GM-10C	GM-10C	GM-12A	GM-12A	GM-12A	GM-12
Date:	12/86	5/87	11/87	5/88	11/88	11/89	12/86	12/86*	5/87	5/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<100	<100	<100	<100	<100	<1,000	<1,000	<1,000	<1,000
Acrylonitrile	<100	<100	<100	<100	<100	<100	<1,000	<1,000	<1,000	<1,000
Benzene	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	957	632	428	545
Bis (chloromethyl) ether	<10	<10	<10	<10	<10	<10	<100	<100	<100	<100
Bromoform	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<47	<47	<47	<47
Carbon tetrachloride	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<28	<28	<28	<28
Chlorobenzene	23.4	38.9	42.8	38.4	42.7	752.0	560	377	261	334
Chlorodibromomethane	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<31	<31	<31	<31
Chloroethane	<10	<10	<10	<10	<10	<10	<100	<100	<100	<100
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10	<10	<100	<100	<100	<100
Chloroform	<1.6	<1.6	<1.6	1.8	<1.6	<1.6	<16	<16	<16	<16
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<22	<22	<22	<22
Dichlorodifluoromethane	<10	<10	<10	<10	<10	<10	<100	<100	<100	<100
1,1-Dichloroethane	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<47	<47	<47	<47
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<28	<28	<28	<28
1,1-Dichloroethylene	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<28	<28	<28	<28
1,2-Dichloropropane	<6	<6	<6.0	<6.0	<6.0	<6.0	<60	<60	<60	<60
cis-1,3-Dichloropropylene	<5	<5	<5.0	<5.0	<5.0	<5.0	<50	<50	<50	<50
Ethylbenzene	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72	<72	<72	<72
Methyl bromide	<10	10	<10	<10	<10	<10	<100	<100	<100	<100
Methyl chloride	<10	<10	<10	<10	<10	<10	<100	<100	<100	<100
Methylene chloride	14.4	17.4	6.64	8.0	<2.8	<2.8	66	80	67.4	64
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<69	<69	<69	59
Tetrachloroethylene	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<41	<41	<41	
Toluene	<6	<6	48.7	<6.0	<6.0	<6.0	<60	<60	<60	<60
1,2-trans-Dichloroethylene	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<16	<16	<16	<16
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<38	<38	<38	<38
1,1,2-Trichloroethane	<5	<5	<5.0	<5.0	<5.0	<5.0	<50	<50	<50	<50
Trichloroethylene	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<19	<19	<19	<19
Trichlorofluoromethane	<10	<10	<10	<10	<10	<10	<100	<100	<100	<100
Vinyl chloride	<10	<10	<10	<10	<10	<10	<100	<100	<100	<100
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<10	<100	<100	<100	<100
Sub Total 1	38	56	98	48	43	752	1,583	1,089	756	943
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA	NA	NA	NA	NA	<100	<100	<100	<100
Methyl isoamyl ketone	NA	NA	NA	NA	NA	NA	<100	<100	<100	<100
m-Xylene	NA	NA	NA	NA	NA	NA	<100	<100	<100	<100
o-Xylene/p-Xylene	NA	NA	NA	NA	NA	NA	<100	<100	<100	<100
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	38	56	98	48	43	752	1,583	1,089	756	943

Table 1. Summary of Volatile Organic Compounds in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-12A	GM-12A	GM-12A	GM-12A	GM-12A	GM-12A	GM-12A	GM-12A	GM-12A	GM-12A
Date:	11/87	11/87*	5/88	5/88*	11/88	11/88 *	11/88	5/89	5/89 *	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	SL	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<500	<500	<1,000	<1,000	<1,000	<1,000	<500	<1000	<1000	<2000
Acrylonitrile	<500	<500	<1,000	<1,000	<1,000	<1,000	<500	<1000	<1000	<2000
Benzene	817	597	587	583	674	613	410	752	678	559
Bis (chloromethyl) ether	<50	<50	<100	<100	<100	<100	<100	<100	<100	<200
Bromoform	<24	<24	<47	<47	<47	<47	<50	<47	<47	<94
Carbon tetrachloride	<14	<14	<28	<28	<28	<28	<50	<28	<28	<56
Chlorobenzene	283	243	276	251	179	162	130	96.5	93.0	<120
Chlorodibromomethane	<16	<16	<31	<31	<31	<31	<50	<31	<31	<62
Chloroethane	<50	<50	<100	<100	<100	<100	<100	<100	<100	<200
2-Chloroethylvinyl ether	<50	<50	<100	<100	<100	<100	<50	<100	<100	<200
Chloroform	<8.0	<8.0	<16	<16	<16	<16	<50	<16	<16	<32
Dichlorobromomethane	<11	<11	<22	<22	<22	<22	<50	<22	<22	<44
Dichlorodifluoromethane	<50	<50	<100	<100	<100	<100	<100	<100	<100	<200
1,1-Dichloroethane	<24	<24	<47	<47	<47	<47	<50	<47	<47	<94
1,2-Dichloroethane	<14	<14	<28	<28	<28	<28	<50	<28	<28	<56
1,1-Dichloroethylene	<14	<14	<28	<28	<28	<28	<50	<28	<28	<56
1,2-Dichloropropane	<30	<30	<60	<60	<60	<60	<50	<60	<60	<120
cis-1,3-Dichloropropylene	<36	<25	<50	<50	<50	<50	<50	<50	<50	<100
Ethylbenzene	<50	<36	<72	<72	<72	<72	<50	<72	<72	<140
Methyl bromide	<50	<50	<100	<100	<100	<100	<100	<100	<100	<200
Methyl chloride	<50	<50	<100	<100	<100	<100	<100	<100	<100	<200
Methylene chloride	<14	18.8	120	101	49.3	263	<50	40.9	39.0	126
1,1,2,2-Tetrachloroethane	<35	<35	<69	<69	<69	<69	<50	<69	<69	<140
Tetrachloroethylene	<21	<21	<41	<41	<41	<41	<50	<41	<41	<82
Toluene	<30	<30	<60	<60	<60	<60	<50	<60	<60	<120
1,2-trans-Dichloroethylene	<8.0	<8.0	<16	<16	<16	<16	<50	<16	<16	<32
1,1,1-Trichloroethane	<19	<19	<38	<38	<38	<38	<50	<38	<38	<76
1,1,2-Trichloroethane	<25	<25	<50	<50	<50	<50	<50	<50	<50	<100
Trichloroethylene	<9.5	<9.5	<19	<19	<19	<19	<50	<19	<19	43.5
Trichlorofluoromethane	<50	<50	<100	<100	<100	<100	<50	<100	<100	<200
Vinyl chloride	<50	<50	<100	<100	<100	<100	<100	<100	<100	<200
trans-1,3-Dichloropropylene	<50	<50	<100	<100	<100	<100	<50	<100	<100	<200
Sub Total 1	1,100	859	983	935	902	1,038	540	889	810	729
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	<50	<50	<100	<100	<100	<100	<500	<100	<100	<200
Methyl isoamyl ketone	<50	<50	<100	<100	<100	<100	<100	<100	<100	<200
m-Xylene	<50	<50	<100	<100	<100	<100	<50	<100	<100	<200
o-Xylene/p-Xylene	<50	<50	<100	<100	<100	<100	<50	<100	<100	<200
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	1,100	859	983	935	902	1,038	540	889	810	729

Table 1. Summary of Volatile Organic Compounds in Ground Water, Crumpton Plant, Laurel, Maryland

Well Number:	GM-12A	GM-12B	GM-12B	GM-12B	GM-12B	GM-12B	GM-12B	GM-12B	GM-12C	GM-12C
Date:	11/89*	12/86	5/87	11/87	5/88	11/88	5/89	11/89	12/86	5/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<2000	<100	<100	<500	<1,000	<1,000	<5000	<5000	<100	<100
Acrylonitrile	<2000	<100	<100	<500	<1,000	<1,000	<5000	<5000	<100	<100
Benzene	676	469	11.3	1,780	398	1,990	1,920	2,810	<4.4	<4.4
Bis (chloromethyl) ether	<200	<10	<10	<50	<100	<100	<500	<500	<10	<10
Bromoform	<94	<4.7	<4.7	<24	<47	<47	<240	<240	<4.7	<4.7
Carbon tetrachloride	<56	<2.8	<2.8	<14	<28	<28	<140	<140	<2.8	<2.8
Chlorobenzene	<120	<6	<6	<30	<60	<60	<300	<300	<6	<6
Chlorodibromomethane	<62	<3.1	<3.1	<16	<31	<31	<160	<160	<3.1	<3.1
Chloroethane	<200	<10	<10	<50	<100	<100	<500	<500	<10	<10
2-Chloroethylvinyl ether	<200	<10	<10	<50	<100	<100	<500	<500	<10	<10
Chloroform	<32	<1.6	<1.6	<8.0	<16	<16	<80	<80	<1.6	<1.6
Dichlorobromomethane	<44	<2.2	<2.2	<11	<22	<22	<110	<110	<2.2	<2.2
Dichlorodifluoromethane	<200	<10	<10	<50	<100	<100	<500	<500	<10	<10
1,1-Dichloroethane	<94	<4.7	<4.7	<24	<47	<47	<240	<240	<4.7	<4.7
1,2-Dichloroethane	<56	<2.8	<2.8	<14	<28	<28	<140	<140	<2.8	<2.8
1,1-Dichloroethylene	<56	<2.8	<2.8	<14	<28	<28	<140	<140	<2.8	<2.8
1,2-Dichloropropane	<120	<6	<6	<30	<60	<60	<300	<300	<6	<6
cis-1,3-Dichloropropylene	<100	<5	<5	<25	<50	<50	<250	<250	<5	<5
Ethylbenzene	<140	<7.2	<7.2	<36	<72	<72	<360	<360	<7.2	<7.2
Methyl bromide	<200	<10	<10	<50	<100	<100	<500	<500	<10	<10
Methyl chloride	<200	<10	<10	<50	<100	<100	<500	<500	<10	<10
Methylene chloride	147.0	<2.8	16.1	<14	<28	223	232	<140	4.6	13.6
1,1,2,2-Tetrachloroethane	<140	<6.9	<6.9	<35	<69	<69	<350	<350	<6.9	< 9
Tetrachloroethylene	<82	<4.1	<4.1	<21	<41	<41	<210	<210	<4.1	<4.
Toluene	<120	17.2	<6.0	35.4	<60	<60	<300	<300	<6	<6
1,2-trans-Dichloroethylene	<32	<1.6	<1.6	<8.0	<16	16.1	<80	<80	<1.6	<1.6
1,1,1-Trichloroethane	<76	<3.8	<3.8	<19	<38	<38	<190	<190	<3.8	<3.8
1,1,2-Trichloroethane	<100	<5	<5	<25	<50	<50	<250	<250	<5	<5
Trichloroethylene	<38	<1.9	<1.9	<9.5	<19	<19	<95	<95	<1.9	<1.9
Trichlorofluoromethane	<200	<10	<10	<50	<100	<100	<500	<500	<10	<10
Vinyl chloride	<200	<10	<10	<50	<100	<100	<500	<500	<10	<10
trans-1,3-Dichloropropylene	<200	<10	<10	<50	<100	<100	<500	<500	<10	<10
Sub Total 1	823	486	27	1,815	398	2,229	2,152	2,810	5	14
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	<200	<10	<10	<50	<100	<100	<500	<500	<10	<10
Methyl isoamyl ketone	<200	<10	<10	<50	<100	<100	<500	<500	<10	<10
m-Xylene	<200	<10	<10	<50	1,110	143	<500	<500	<10	<10
o-Xylene/p-Xylene	<200	20.9	20.9	54.7	832	141	<500	<500	<10	<10
Sub Total 2	0	21	21	55	1,942	284	0	0	0	0
Total VOCs Analyzed	823	507	48	1,870	2,340	2,513	2,152	2,810	5	14

Table 1. Summary of Volatile Organic Compounds in Drinking Water, Kennecott Plant, Bingham

Well Number:	GM-12C	GM-12C	GM-12C	GM-12C	GM-12C	GM-17A	GM-17A	GM-17A	GM-17A	GM-17A
Date:	11/87	5/88	11/88	5/89	11/89	12/86	5/87	11/87	5/88	11/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<100	<100	<100	<100	<100,000	<100,000	<10,000	<500,000	<100,000
Acrylonitrile	<100	<100	<100	<100	<100	<100,000	<100,000	<10,000	<500,000	<100,000
Benzene	<4.4	<4.4	<4.4	<4.4	<4.4	482,000	517,000	654,000	537,000	700,000
Bis (chloromethyl) ether	<10	<10	<10	<10	<10	<10,000	<10,000	<1,000	<50,000	<10,000
Bromoform	<4.7	<4.7	<4.7	<4.7	<4.7	<4,700	<4,700	<470	<24,000	<4,700
Carbon tetrachloride	<2.8	<2.8	<2.8	<2.8	<2.8	<2,800	<2,800	<280	<14,000	<2,800
Chlorobenzene	<6.0	<6.0	<6.0	<6.0	<6.0	153,000	221,000	234,000	233,000	155,000
Chlorodibromomethane	<3.1	<3.1	<3.1	<3.1	<3.1	<3,100	<3,100	<310	<16,000	<3,100
Chloroethane	<10	<10	<10	<10	<10	<10,000	<10,000	<1,000	<50,000	<10,000
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10	<10,000	<10,000	<1,000	<50,000	<10,000
Chloroform	<1.6	<1.6	<1.6	<1.6	<1.6	<1,600	<1,600	<160	<8,000	<1,600
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<2.2	<2,200	<2,200	<220	<11,000	<2,200
Dichlorodifluoromethane	<10	<10	<10	<10	<10	<10,000	<10,000	<1,000	<50,000	<10,000
1,1-Dichloroethane	<4.7	<4.7	<4.7	<4.7	<4.7	<4,700	<4,700	<470	<24,000	<4,700
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<2.8	<2,800	<2,800	<280	<14,000	<2,800
1,1-Dichloroethylene	<2.8	<2.8	<2.8	<2.8	<2.8	<2,800	<2,800	<280	<14,000	<2,800
1,2-Dichloropropane	<6.0	<6.0	<6.0	<6.0	<6.0	<6,000	<6,000	<600	<30,000	<6,000
cis-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	<5.0	<5,000	<5,000	<1,000	<25,000	<5,000
Ethylbenzene	<7.2	<7.2	<7.2	<7.2	<7.2	<7,200	<7,200	<720	<36,000	<7,200
Methyl bromide	<10	<10	<10	<10	<10	<10,000	<10,000	<1,000	<50,000	<10,000
Methyl chloride	<10	<10	<10	<10	<10	<10,000	<10,000	<1,000	<50,000	<10,000
Methylene chloride	<2.8	17.4	3.29	<2.8	<2.8	<2,800	17,200	890	<14,000	9,460
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<6.9	<6,900	<6,900	<690	<35,000	<6,900
Tetrachloroethylene	<4.1	<4.1	<4.1	<4.1	<4.1	<4,100	<4,100	<410	<21,000	<4,100
Toluene	<6.0	<6.0	<6.0	<6.0	<6.0	<6,000	<6,000	<600	<30,000	<6,000
1,2-trans-Dichloroethylene	<1.6	<1.6	<1.6	<1.6	<1.6	<1,600	<1,600	<160	<8,000	<1,600
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	<3.8	<3.8	<3,800	<3,800	<380	<19,000	<3,800
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5,000	<5,000	<500	<25,000	<5,000
Trichloroethylene	<1.9	<1.9	<1.9	<1.9	<1.9	<1,900	<1,900	<190	<9,500	<1,900
Trichlorofluoromethane	10.6	<10	<10	<10	<10	<10,000	<10,000	<1,000	<50,000	<10,000
Vinyl chloride	<10	<10	<10	<10	<10	<10,000	<10,000	<1,000	<50,000	<10,000
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<10,000	<10,000	<500	<50,000	<10,000
Sub Total 1	11	17	3	0	0	635,000	755,200	888,890	770,000	864,460
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA
Methyl isoamyl ketone	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA
m-Xylene	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA
o-Xylene/p-Xylene	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	11	17	3	0	0	635,000	755,200	888,890	770,000	864,460

Table 1. Summary of Volatile Organic Compounds in Ground Water Krumrei Plant, Bauer Terminal

Well Number:	GM-17A	GM-17B	GM-17B	GM-17B	GM-17B	GM-17B	GM-17B	GM-17B	GM-17C	GM-17C
Date:	11/89	12/86	5/87	11/87	5/88	11/88	5/89	11/89	12/86	5/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<10,000,000	<2,000	<100,000	<10,000	<10,000	<1,000	<1000	<10000	<10,000	<5,000
Acrylonitrile	<10,000,000	<2,000	<100,000	<10,000	<10,000	<1,000	<1000	<10000	<10,000	<5,000
Benzene	286,000	52,900	70,600	69,300	9,610	<44	220	<440	<440	<220
Bis (chloromethyl) ether	<1,000,000	<200	<10,000	<1,000	<1,000	<100	<100	<1000	<1,000	<500
Bromoform	<470,000	<94	<4,700	<470	<470	<47	<47	<470	<470	<240
Carbon tetrachloride	<280,000	<56	<2,800	<280	<280	<28	<28	<280	<280	<140
Chlorobenzene	129,000	9,260	13,500	8,530	2,210	622	6,390	10,100	6,290	20,200
Chlorodibromomethane	<3,100,000	<62	<3,100	<310	<310	<31	<31	<310	<310	<160
Chloroetnane	<1,000,000	<200	<10,000	<1,000	<1,000	<100	<100	<1000	<1,000	<5[illegible]
2-Chloroethylvinyl ether	<1,000,000	<200	<10,000	<1,000	<1,000	<100	<100	<1000	<1,000	<5[illegible]
Chloroform	<160,000	<32	<1,600	<160	<160	<16	<16	<160	<160	<80
Dichlorobromomethane	<220,000	<44	<2,200	<220	<220	<22	<22	<220	<220	<110
Dichlorodifluorometnane	<1,000,000	<200	<10,000	<1,000	<1,000	<100	<100	<1000	<1,000	<500
1,1-Dichloroethane	<470,000	<94	<4,700	<470	<470	<47	<47	<470	<470	<240
1,2-Dichloroethane	<280,000	<56	<2,800	<280	<280	<28	<28	<280	<280	<140
1,1-Dichloroethylene	<280,000	<56	<2,800	<280	<280	<28	<28	<280	<280	<140
1,2-Dichloropropane	<600,000	<120	<6,000	<600	<600	<60	<60	<600	<600	<300
cis-1,3-Dichloropropylene	<500,000	<120	<5,000	<1,000	<500	<50	<50	<500	<500	<250
Ethylbenzene	<720,000	<140	<7,200	<720	<720	<72	<72	<750	<720	<360
Methyl bromide	<1,000,000	<200	<10,000	<1,000	<1,000	<100	<100	<1000	<1,000	<500
Methyl chloride	<1,000,000	<200	<10,000	<1,000	<1,000	<100	<100	<1000	<1,000	<500
Methylene chloride	<28,000	<56	15,700	1,220	<280	662	37.9	364	1,030	361
1,1,2,2-Tetrachloroethane	<690,000	<140	<6,900	<690	<690	<69	<69	<690	<690	<350
Tetrachloroethylene	<410,000	<82	<4,100	<410	<410	<41	<41	<410	<410	[illegible]
Toluene	<600,000	<120	<6,000	<600	<600	<60	<60	<600	<600	[illegible]
1,2-trans-Dichloroethylene	<160,000	<32	<1,600	<160	<160	<16	<16	<160	<160	<80
1,1,1-Trichloroethane	<380,000	<76	<3,800	<380	<380	<38	<38	<380	<380	<190
1,1,2-Trichloroethane	<500,000	<100	<5,000	<500	<500	<50	<50	<500	<500	<250
Trichloroethylene	<190,000	<38	<1,900	<190	<190	<19	<19	<190	<190	<95
Trichlorofluorometnane	<1,000,000	<200	<10,000	<1,000	<1,000	<100	<100	<1000	<1,000	<500
Vinyl chloride	<1,000,000	<200	<10,000	<1,000	<1,000	<100	<100	<1000	<1,000	<500
trans-1,3-Dichloropropylene	<1,000,000	<200	<10,000	<500	<1,000	<100	<100	<1000	<1,000	<500
Sub Total 1	415,000	62,160	99,800	79,050	11,820	1,284	6,648	10,464	7,320	20,561
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl isoamyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene/p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	415,000	62,160	99,800	79,050	11,820	1,284	6,648	10,464	7,320	20,561

Table . Summary of Volatile Organic Compounds in Ground Water Krummrich Plant, Sauget, Illinois

Well Number:	GM-17C	GM-17C	GM-17C	GM-17C	GM-17C	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B
Date:	11/87	5/88	11/88	5/89	11/89	12/86	5/87	11/87	5/88	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<10,000	<10,000	<10,000	<100	<2000	<100	<100	<50,000	<10,000	<5000
Acrylonitrile	<10,000	<10,000	<10,000	<100	<2000	<100	<100	<50,000	<10,000	<5000
Benzene	<440	<440	<440	22.5	<88	237	156	9,980	670	2,460
Bis (chloromethyl) ether	<1,000	<1,000	<1,000	<10	<200	<10	<10	<5,000	<1,000	<500
Bromoform	<470	<470	<470	<4.7	<94	<4.7	<4.7	<2,400	<470	<240
Carbon tetrachloride	<280	<280	<280	<2.8	<56	<2.8	<2.8	<1,400	<280	<140
Chlorobenzene	21,400	3,110	3,480	701	1,430	383	193	60,200	2,940	10,500
Chlorodibromomethane	<310	<310	<310	<3.1	<62	<3.1	<3.1	<1,600	<310	<160
Chloroethane	<1,000	<1,000	<1,000	<10	<200	<10	<10	<5,000	<1,000	<500
2-Chloroethylvinyl ether	<1,000	<1,000	<1,000	<10	<200	<10	<10	<5,000	<1,000	<500
Chloroform	<160	<160	<160	<1.6	<32	<1.6	<1.6	<800	<160	<80
Dichlorobromomethane	<220	<220	<220	<2.2	<44	<2.2	<2.2	<1,100	<220	<110
Dichlorodifluoromethane	<1,000	<1,000	<1,000	<10	<200	<10	<10	<5,000	<1,000	<500
1,1-Dichloroethane	<470	<470	<470	<4.7	<94	<4.7	<4.7	<2,400	<470	<240
1,2-Dichloroethane	<280	<280	<280	<2.8	<56	<2.8	<2.8	<1,400	<280	<140
1,1-Dichloroethylene	<280	<280	<280	<2.8	<56	<2.8	<2.8	<1,400	<280	<140
1,2-Dichloropropane	<600	<600	<600	<6.0	<120	<6	<6	<3,000	<600	<300
cis-1,3-Dichloropropylene	<500	<500	<500	<5.0	<100	<5	<5	<2,500	<500	<250
Ethylbenzene	<720	<720	<720	<7.2	<140	<7.2	<7.2	<3,600	<720	<360
Methyl bromide	<1,000	<1,000	<1,000	<10	<200	<10	<10	<5,000	<1,000	<500
Methyl chloride	<1,000	<1,000	<1,000	<10	<200	<10	<10	<5,000	<1,000	<500
Methylene chloride	<280	<280	422	4.75	<56	9.6	<2.8	<1,400	<280	227
1,1,2,2-Tetrachloroethane	<690	<690	<690	<6.9	<140	<6.9	<6.9	<3,500	<690	<350
Tetrachloroethylene	<410	<410	<410	<4.1	<82	<4.1	<4.1	<2,100	<410	<210
Toluene	<600	<600	<600	<6.0	<120	6	<6	<3,000	<600	1,400
1,2-trans-Dichloroethylene	<160	<160	<160	<1.6	<32	<1.6	<1.6	<800	<160	<80
1,1,1-Trichloroethane	<380	<380	<380	<3.8	<76	<3.8	<3.8	<1,900	<380	<190
1,1,2-Trichloroethane	<500	<500	<500	<5.0	<100	<5	<5	<2,500	<500	<250
Trichloroethylene	<190	<190	<190	<1.9	<38	<1.9	<1.9	<950	<190	<95
Trichlorofluoromethane	<1,000	<1,000	<1,000	<10	<200	<10	<10	<5,000	<1,000	<500
Vinyl chloride	<1,000	<1,000	<1,000	<10	<200	<10	<10	<5,000	<1,000	<500
trans-1,3-Dichloropropylene	<1,000	<1,000	<1,000	<10	<200	<10	<10	<5,000	<1,000	<500
Sub Total 1	21,400	3,110	3,902	728	1,430	636	349	70,180	3,610	
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA	NA	NA	NA	NA	NA	<5,000	NA	NA
Methyl isoamyl ketone	NA	NA	NA	NA	NA	NA	NA	<5,000	NA	NA
m-Xylene	NA	NA	NA	NA	NA	NA	NA	<5,000	NA	NA
o-Xylene/p-Xylene	NA	NA	NA	NA	NA	NA	NA	<5,000	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	21,400	3,110	3,902	728	1,430	636	349	70,180	3,610	0

Table 1. Summary of Volatile Organic Compounds in Ground Water, Krummrich Plant, Badger Plaquemine

Well Number:	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-28B	GM-28B	GM-28B	GM-28B
Date:	12/86	5/87	11/87	5/88	11/88	11/89	12/86	5/87	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<100	<1,000	<5,000	<1,000	<5000	<2,000	<5,000	<1,000	<10,000
Acrylonitrile	<100	<100	<1,000	<5,000	<1,000	<5000	<2,000	<5,000	<1,000	<10,000
Benzene	159	122	433	346	529	331	289	<220	485	<440
Bis (chloromethyl) ether	<10	<10	<100	<500	<100	<500	<200	<500	<100	<1,000
Bromoform	<4.7	<4.7	<47	<240	<47	<240	<94	<240	<47	<470
Carbon tetrachloride	<2.8	<2.8	<28	<140	<28	<140	<56	<140	<28	<280
Chlorobenzene	385	318	1,300	710	2,030	1,840	3,310	447	4,060	2,200
Chlorodibromomethane	<3.1	<3.1	<31	<160	<31	<160	<62	<160	<31	<310
Chloroethane	<10	<10	<100	<500	<100	<500	<200	<500	<100	<1,000
2-Chloroethylvinyl ether	<10	<10	<100	<500	<100	<500	<200	<500	<100	<1,000
Chloroform	<1.6	<1.6	<16	<80	<16	<80	<32	<80	<16	<160
Dichlorobromomethane	<2.2	<2.2	<22	<110	<22	<110	<44	<110	<22	<220
Dichlorodifluoromethane	<10	<10	<100	<500	<100	<500	<200	<500	<100	<1,000
1,1-Dichloroethane	<4.7	<4.7	<47	<240	<47	<240	<94	<240	<47	<470
1,2-Dichloroethane	<2.8	<2.8	<28	<140	<28	<140	<56	<140	<28	<280
1,1-Dichloroethylene	<2.8	<2.8	<28	<140	<28	<140	<56	<140	<28	<280
1,2-Dichloropropane	<6	<6	<60	<300	<60	<300	<120	<300	<60	<600
cis-1,3-Dichloropropylene	<5	<5	<50	<250	<50	<250	<100	<250	<50	<500
Ethylbenzene	<7.2	<7.2	<72	<360	<72	<360	<140	<360	<72	<720
Methyl bromide	<10	<10	<100	<500	<100	<500	<200	<500	<100	<1,000
Methyl chloride	<10	<10	<100	<500	<100	<500	<200	<500	<100	<1,000
Methylene chloride	<2.8	<2.8	<28	<140	203	693	<56	360	1,350	<280
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<69	<350	<69	<350	<140	<350	<69	<690
Tetrachloroethylene	<4.1	<4.1	<41	<210	<41	<210	<82	<210	<41	
Toluene	<6	<6	<60	<300	232	<300	<120	<300	321	<600
1,2-trans-Dichloroethylene	<1.6	<1.6	<16	<80	<16	<80	<32	<80	<16	<160
1,1,1-Trichloroethane	<3.8	<3.8	<38	<190	<38	<190	<76	<190	<38	<380
1,1,2-Trichloroethane	<5	<5	<50	<250	<50	<250	<100	<250	<50	<500
Trichloroethylene	<1.9	<1.9	<19	<95	<19	<95	<38	<95	<19	<190
Trichlorofluoromethane	<10	<10	<100	<500	<100	<500	<200	<500	<100	<1,000
Vinyl chloride	<10	<10	<100	<500	<100	<500	<200	<500	<100	<1,000
trans-1,3-Dichloropropylene	<10	<10	<100	<500	<100	<500	<200	<500	<100	<1,000
Sub Total 1	544	440	1,733	1,056	2,994	2,864	3,599	807	6,216	2,200
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA	<100	NA	NA	NA	NA	NA	1,250	NA
Methyl isoamyl ketone	NA	NA	<100	NA	NA	NA	NA	NA	<100	NA
m-Xylene	NA	NA	<100	NA	NA	NA	NA	NA	149	NA
o-Xylene/p-Xylene	NA	NA	<100	NA	NA	NA	NA	NA	116	NA
Sub Total 2	0	0	0	0	0	0	0	0	1,515	0
Total VOCs Analyzed	544	440	1,733	1,056	2,994	2,864	3,599	807	7,731	2,200

Table 1. Summary of Volatile Organic Compounds in Ground Water, Krummrich Plant, Badger Louisiana

Well Number:	GM-28B	GM-28B	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C
Date:	3/89	11/89	12/86	5/87	11/87	5/88	11/88	3/89	3/89*	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<1000	<5000	<100	<5,000	<1,000	<10,000	<5,000	<5000	<5000	<5000
Acrylonitrile	<1000	<5000	<100	<5,000	<1,000	<10,000	<5,000	<5000	<5000	<5000
Benzene	85.5	<220	582	<220	297	<440	<220	<220	<220	<220
Bis (chloromethyl) ether	<100	<500	<10	<500	<100	<1,000	<500	<500	<500	<500
Bromoform	<47	<240	<4.7	<240	<47	<470	<240	<240	<240	<240
Carbon tetrachloride	<28	<140	<2.8	<140	<28	<280	<140	<140	<140	<140
Chlorobenzene	2,760	2,560	4,530	621	4,910	4,700	2,920	2,510	3,220	2,840
Chlorodibromomethane	<31	<160	<3.1	<160	<31	<310	<160	<160	<160	<160
Chloroethane	<100	<500	<10	<500	<100	<1,000	<500	<500	<500	<500
2-Chloroethylvinyl ether	<100	<500	<10	<500	<100	<1,000	<500	<500	<500	<500
Chloroform	<16	<80	<1.6	<80	<16	<160	<80	<80	<80	<80
Dichlorobromomethane	<22	<110	<2.2	<110	<22	<220	<110	<110	<110	<110
Dichlorodifluoromethane	<100	<500	<10	<500	<100	<1,000	<500	<500	<500	<500
1,1-Dichloroethane	<47	<240	<4.7	<240	<47	<470	<240	<240	<240	<240
1,2-Dichloroethane	<28	<140	<2.8	<140	<28	<280	<140	<140	<140	<140
1,1-Dichloroethylene	<28	<140	<2.8	<140	<28	<280	<140	<140	<140	<140
1,2-Dichloropropane	<60	<300	<6	<300	<60	<600	<300	<300	<300	<300
cis-1,3-Dichloropropylene	<50	<250	<5	<250	<50	<500	<250	<250	<250	<250
Ethylbenzene	<100	<360	<7.2	<360	<72	<720	<360	<500	<500	<360
Methyl bromide	<100	<500	<10	<500	<100	<1,000	<500	<500	<500	<500
Methyl chloride	79.2	<500	<10	<500	<100	<1,000	<500	<140	<140	<500
Methylene chloride	<69	706	<2.8	254	1,790	<280	283	<350	<350	488
1,1,2,2-Tetrachloroethane	<41	<350	<6.9	<350	<69	<690	<350	<210	<210	<350
Tetrachloroethylene	215	<210	<4.1	<210	<41	<410	<210	<300	<300	<210
Toluene	<16	<300	<6	<300	115	<600	<300	<80	<80	<300
1,2-trans-Dichloroethylene	<38	<80	<1.6	<80	<16	<160	<80	<190	<190	<80
1,1,1-Trichloroethane	<50	<190	<3.8	<190	<38	<380	<190	<250	<250	<190
1,1,2-Trichloroethane	<19	<250	<5	<250	<50	<500	<250	<95	<95	<250
Trichloroethylene	<100	<95	<1.9	<95	<19	<190	<95	<500	<500	<95
Trichlorofluoromethane	<100	<500	<10	<500	<100	<1,000	<500	<500	<500	<500
Vinyl chloride	<100	<500	<10	<500	<100	<1,000	<500	<500	<500	<500
trans-1,3-Dichloropropylene	<72	<500	<10	<500	<100	<1,000	<500	<360	<360	<500
Sub Total 1	3,140	3,266	5,112	875	7,112	4,700	3,203	2,510	3,220	3,328
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	<100	NA	NA	NA	236	NA	NA	<500	<500	NA
Methyl isoamyl ketone	<100	NA	NA	NA	<100	NA	NA	<500	<500	NA
m-Xylene	<100	NA	NA	NA	<100	NA	NA	<500	<500	NA
o-Xylene/p-Xylene	<100	NA	NA	NA	<100	NA	NA	<500	<500	NA
Sub Total 2	0	0	0	0	236	0	0	0	0	0
Total VOCs Analyzed	3,140	3,266	5,112	875	7,348	4,700	3,203	2,510	3,220	3,328

Table 1 Summary of Volatile Organic Compounds in Drums Water, Krummrich Plant, Gauge Tunnel

Well Number:	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A
Date:	12/86	12/86*	5/87	5/87*	11/87	11/87*	5/88	5/88*	11/88	11/88*
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<100	<100	<100	<500	<100	<100	<100	<500	<500
Acrylonitrile	<100	<100	<100	<100	<500	<100	<100	<100	<500	<500
Benzene	15.5	15.2	13	13.2	1,220	973	45.8	46.1	30.1	25.1
Bis (chloromethyl) ether	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50
Bromoform	<4.7	<4.7	<4.7	<4.7	<24	<4.7	<4.7	<4.7	<24	<24
Carbon tetrachloride	<2.8	<2.8	<2.8	<2.8	<14	<2.8	<2.8	<2.8	<14	<14
Chlorobenzene	6.5	7.1	18.1	18.4	<30	26.0	<6.0	<6.0	<30	<30
Chlorodibromomethane	<3.1	<3.1	<3.1	<3.1	<16	<3.1	<3.1	<3.1	<16	<16
Chloroethane	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50
2-Chloroethylvinyl ether	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50
Chloroform	<1.6	<1.6	<1.6	<1.6	<8.0	<1.6	<1.6	<1.6	<8.0	<8.0
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<11	<2.2	<2.2	<2.2	<11	<11
Dichlorodifluoromethane	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50
1,1-Dichloroethane	<4.7	<4.7	<4.7	<4.7	<24	<4.7	<4.7	<4.7	<24	<24
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<14	<2.8	<2.8	<2.8	<14	<14
1,1-Dichloroethylene	<2.8	<2.8	<2.8	<2.8	<14	<2.8	<2.8	<2.8	<14	<14
1,2-Dichloropropane	<6	<6	<6	<6	<30	<6.0	<6.0	<6.0	<30	<30
cis-1,3-Dichloropropylene	<5	<5	<5	<5	<25	<5.0	<5.0	<5.0	<25	<25
Ethylbenzene	<7.2	<7.2	<7.2	<7.2	<36	<7.2	<7.2	<7.2	<36	<36
Methyl bromide	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50
Methyl chloride	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50
Methylene chloride	4.4	12.7	9.3	14.6	33.8	4.71	9.8	7.6	29.9	52.8
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<35	<6.9	<6.9	<6.9	<35	<3*
Tetrachloroethylene	<4.1	<4.1	<4.1	<4.1	<21	<4.1	<4.1	<4.1	<21	2
Toluene	<6	<6	<6	<6	<30	<6.0	<6.0	<6.0	<30	<30
1,2-trans-Dichloroethylene	<1.6	<1.6	<1.6	<1.6	<8.0	<1.6	<1.6	<1.6	<8.0	<8.0
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	<3.8	<19	<3.8	<3.8	<3.8	<19	<19
1,1,2-Trichloroethane	<5	<5	<5	<5	<25	<5.0	<5.0	<5.0	<25	<25
Trichloroethylene	<1.9	<1.9	<1.9	<1.9	<9.5	<1.9	<1.9	<1.9	<9.5	<9.5
Trichlorofluoromethane	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50
Vinyl chloride	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50
Sub Total 1	26	35	40	46	1,254	1,004	56	54	60	78
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50
Methyl isoamyl ketone	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50
m-Xylene	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50
o-Xylene/p-Xylene	<10	<10	<10	<10	<50	<10	<10	<10	<50	<50
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	26	35	40	46	1,254	1,004	56	54	60	78

Table 1 Summary of Volatile Organic Compounds in Ground Water, Krummrich Plant, Target Analytes

Well Number:	GM-31A	GM-31A	GM-31A	GM-31A	GM-31B	GM-31B	GM-31B	GM-31B	GM-31B	GM-31B
Date:	11/88	11/88*	11/89	11/89*	12/86	12/86*	5/87	5/87*	11/87	11/87*
Laboratory:	SL	SL	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<500	<500	<100	<100	<100	<100	<100	<100	<100	<100
Acrylonitrile	<500	<500	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	70	84	15.6	17.0	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
Bis (chloromethyl) ether	<100	<100	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	<50	<50	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
Carbon tetrachloride	<50	<50	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
Chlorobenzene	<50	<50	12.1	12.1	<6	<6	7.1	10.3	<6.0	8.7
Chlorodibromomethane	<50	<50	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Chloroethane	<100	<100	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloroethylvinyl ether	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<50	<50	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
Dichlorobromomethane	<50	<50	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Dichlorodifluoromethane	<100	<100	<10	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethane	<50	<50	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
1,2-Dichloroethane	<50	<50	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,1-Dichloroethylene	<50	<50	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,2-Dichloropropane	<50	<50	<6.0	<6.0	<6	<6	<6	<6	<6.0	<6.0
cis-1,3-Dichloropropylene	<50	<50	<5.0	<5.0	<5	<5	<5	<5	<5.0	<5.0
Ethylbenzene	<50	<50	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
Methyl bromide	<100	<100	<10	<10	<10	<10	<10	<10	<10	<10
Methyl chloride	<100	<100	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<50	<50	<2.8	<2.8	4.4	14.6	15	44.5	13.4	14.3
1,1,2,2-Tetrachloroethane	<50	<50	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
Tetrachloroethylene	<50	<50	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
Toluene	<50	<50	<6.0	<6.0	<6	<6	<6	<6	<6.0	<6.0
1,2-trans-Dichloroethylene	<50	<50	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
1,1,1-Trichloroethane	<50	<50	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
1,1,2-Trichloroethane	<50	<50	<5.0	<5.0	<5	<5	<5	<5	<5.0	<5.0
Trichloroethylene	<50	<50	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Trichlorofluoromethane	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl chloride	<100	<100	<10	<10	<10	<10	<10	<10	15.4	20.5
trans-1,3-Dichloropropylene	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10
Sub Total 1	70	84	28	29	4	15	22	55	29	43
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	<500	<500	<10	<10	NA	NA	NA	NA	NA	NA
Methyl isoamyl ketone	<100	<100	<10	<10	NA	NA	NA	NA	NA	NA
m-Xylene	<50	<50	<10	<10	NA	NA	NA	NA	NA	NA
o-Xylene/p-Xylene	<50	<50	<10	<10	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	70	84	28	29	4	15	22	55	29	43

Table 1. Summary of Volatile Organic Compounds in Ground Water, Krummrich Plant (August 1990)

Well Number:	GM-31B	GM-31B	GM-31B	GM-31B	GM-31B	GM-31B	GM-31B	GM-31C	GM-31C	GM-31C
Date:	5/88	5/88*	11/88	11/88*	5/89	11/89	11/89*	12/86	5/87	11/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<100	<100	<100	<100	<200	<100	<100	<100	<100
Acrylonitrile	<100	<100	<100	<100	<100	<200	<100	<100	<100	<100
Benzene	<4.4	<4.4	14.2	9.83	<4.4	32.8	<4.4	<4.4	<4.4	15.4
Bis (chloromethyl) ether	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10
Bromoform	<4.7	<4.7	<4.7	<4.7	<4.7	<9.4	<4.7	<4.7	<4.7	<4.7
Carbon tetrachloride	<2.8	<2.8	<2.8	<2.8	<2.8	<5.6	<2.8	<2.8	<2.8	<2.8
Chlorobenzene	<6.0	<6.0	<6.0	<6.0	8.26	387	<6.0	52.7	<6	174
Chlorodibromomethane	<3.1	<3.1	<3.1	<3.1	<3.1	<6.2	<3.1	<3.1	<3.1	<3.1
Chloroethane	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10
Chloroform	<1.6	<1.6	<1.6	<1.6	<1.6	<3.2	<1.6	<1.6	<1.6	<1.6
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<2.2	<4.4	<2.2	<2.2	<2.2	<2.2
Dichlorodifluoromethane	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10
1,1-Dichloroethane	<4.7	<4.7	<4.7	<4.7	<4.7	<9.4	<4.7	<4.7	<4.7	<4.7
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<2.8	<5.6	<2.8	<2.8	<2.8	<2.8
1,1-Dichloroethylene	<2.8	<2.8	<2.8	<2.8	<2.8	<5.6	<2.8	<2.8	<2.8	<2.8
1,2-Dichloropropane	<6.0	<6.0	<6.0	<6.0	<6.0	<12	<6.0	<6	<6	<6.0
cis-1,3-Dichloropropylene	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5	<5	<5.0
Ethylbenzene	<7.2	<7.2	<7.2	<7.2	<7.2	<14	<7.2	<7.2	<7.2	<7.2
Methyl bromide	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10
Methyl chloride	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10
Methylene chloride	6.3	6.1	13.2	4.6	<2.8	9.62	<2.8	16.6	20.7	<2.8
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<6.9	<14	<6.9	<6.9	<6.9	<6.9
Tetrachloroethylene	<4.1	<4.1	<4.1	<4.1	<4.1	<8.2	<4.1	<4.1	<4.1	<4.
Toluene	<6.0	<6.0	<6.0	8.75	<6.0	<12	<6.0	<6	<6	<6.
1,2-trans-Dichloroethylene	<1.6	<1.6	<1.6	<1.6	<1.6	<3.2	2.70	<1.6	2.6	<1.6
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	<3.8	<3.8
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5	<5	<5.0
Trichloroethylene	<1.9	<1.9	<1.9	<1.9	<1.9	<3.8	<1.9	<1.9	<1.9	<1.9
Trichlorofluoromethane	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10
Vinyl chloride	24.3	24.2	<10	<10	30.1	<20	<10	<10	<10	11.2
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10
Sub Total 1	31	30	27	23	38	429	3	69	23	201
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl isoamyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene/p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	31	30	27	23	38	429	3	69	23	201

Table 1 Summary of Volatile Organic Compounds in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-31C	GM-31C	GM-31C	GM-31C	GM-55C	GM-55C	GM-55C	GM-55C	GM-56C	GM-56C
Date:	5/88	11/88	5/89	11/89	11/87	5/88	11/88	11/89	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<2,000	<100	<100	<1,000	<10,000	<5,000	<5,000	<1,000	<1,000
Acrylonitrile	<100	<2,000	<100	<100	<1,000	<10,000	<5,000	<5,000	<1,000	<1,000
Benzene	<4.4	146	94.1	<4.4	163	<440	<220	<220	510	153
Bis (chloromethyl) ether	<10	<200	<10	<10	<100	<1,000	<500	<500	<100	<100
Bromoform	<4.7	<94	<4.7	<4.7	<47	<470	<240	<240	<47	<47
Carbon tetrachloride	<2.8	<56	<2.8	<2.8	<28	<280	<140	<140	<28	<28
Chlorobenzene	<6.0	1,070	1,120	<6.0	4,030	3,360	2,700	3,220	3,980	1,000
Chlorodibromomethane	<3.1	<62	<3.1	<3.1	<31	<310	<160	<160	<31	<31
Chloroethane	<10	<200	<10	<10	<100	<1,000	<500	<500	<100	<100
2-Chloroethylvinyl ether	<10	<200	<10	<10	<100	<1,000	<500	<500	<100	<100
Chloroform	<1.6	<32	<1.6	<1.6	<16	<160	<80	<80	<16	<16
Dichlorobromomethane	<2.2	<44	<2.2	<2.2	<22	<220	<110	<110	<22	<22
Dichlorodifluoromethane	<10	<200	<10	<10	<100	<1,000	<500	<500	<100	<100
1,1-Dichloroethane	<4.7	<94	<4.7	<4.7	<47	<470	<240	<240	<47	<47
1,2-Dichloroethane	<2.8	<56	<2.8	<2.8	<28	<280	<140	<140	<28	<28
1,1-Dichloroethylene	<2.8	<56	<2.8	<2.8	<28	<280	<140	<140	<28	<28
1,2-Dichloropropane	<6.0	<120	<6.0	<6.0	<60	<600	<300	<300	<60	<60
cis-1,3-Dichloropropylene	<5.0	<100	<5.0	<5.0	<50	<500	<250	<250	<50	<50
Ethylbenzene	<7.2	<140	<7.2	<7.2	<72	<720	<360	<360	150	<72
Methyl bromide	<10	<200	<10	<10	<100	<1,000	<500	<500	<100	<100
Methyl chloride	<10	<200	<10	<10	<100	<1,000	<500	<500	<100	<100
Methylene chloride	7.1	122	<2.8	3.94	48.9	415	255	140	<28	<28
1,1,2,2-Tetrachloroethane	<6.9	<140	<6.9	<6.9	<69	<690	<350	<350	<69	<69
Tetrachloroethylene	<4.1	<82	<4.1	<4.1	<41	<410	<210	<210	80.9	<41
Toluene	<6.0	<120	<6.0	<6.0	<60	<600	<300	<300	1,810	232
1,2-trans-Dichloroethylene	<1.6	<32	<1.6	<1.6	<16	<160	<80	<80	<16	<16
1,1,1-Trichloroethane	<3.8	<76	<3.8	<3.8	<38	<380	<190	<190	<38	<38
1,1,2-Trichloroethane	<5.0	<100	<5.0	<5.0	<50	<500	<250	<250	<50	<50
Trichloroethylene	<1.9	<38	<1.9	<1.9	<19	<190	<95	<95	192	<19
Trichlorofluoromethane	<10	<200	<10	<10	<100	<1,000	<500	<500	<100	<100
Vinyl chloride	<10	<200	<10	21.0	<100	<1,000	<500	<500	<100	<100
trans-1,3-Dichloropropylene	<10	<200	<10	<10	<100	<1,000	<500	<500	<100	<100
Sub Total 1	7	1,336	1,214	25	4,242	3,775	2,955	3,360	6,723	1,385
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA	NA	NA	<100	<1,000	<500	<500	287	<100
Methyl isoamyl ketone	NA	NA	NA	NA	<100	<1,000	<500	<500	<100	<100
m-Xylene	NA	NA	NA	NA	<100	<1,000	<500	<500	846	<100
o-Xylene/p-Xylene	NA	NA	NA	NA	<100	<1,000	<500	<500	450	NA
Sub Total 2	0	0	0	0	0	0	0	0	1,583	0
Total VOCs Analyzed	7	1,336	1,214	25	4,242	3,775	2,955	3,360	8,306	1,385

Table 1. Summary of Volatile Organic Compounds in Drking water, Ammonium Plant Gauge Results

Well Number:	GM-56C	GM-56C	GM-56C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C
Date:	11/88	11/88	11/89	11/87	11/87*	5/88	5/88*	11/88	11/88	3/89
Laboratory:	ETC	SL	ETC SE	ETC	ETC	ETC	ETC	ETC	SL	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<5,000	<1,000	<1,000	<1,000	<5,000	<10,000	<10,000	<5,000	<1,000	<10000
Acrylonitrile	<5,000	<1,000	<1,000	<1,000	<5,000	<10,000	<10,000	<5,000	<1,000	<10000
Benzene	<220	250	108	605	459	<440	<440	566	520	<440
Bis (chloromethyl) ether	<500	<100	<100	<100	<500	<1,000	<1,000	<500	<100	<1000
Bromoform	<240	<50	<47	<47	<240	<470	<470	<240	<50	<470
Carbon tetrachloride	<140	<50	<28	<28	<140	<280	<280	<140	<50	<280
Chlorobenzene	2,400	4,200	3,100	5,050	3,740	3,020	3,020	4,510	5200	7,380
Chlorodibromomethane	<160	<50	<31	<31	<160	<310	<310	<160	<50	<310
Chloroethane	<500	<100	<100	<100	<500	<1,000	<1,000	<500	<100	<1000
2-Chloroethylvinyl ether	<500	<50	<100	<100	<500	<1,000	<1,000	<500	<50	<1000
Chloroform	<80	<50	<16	<16	<80	<160	<160	<80	<50	<160
Dichlorobromomethane	<110	<50	<22	<22	<110	<220	<220	<110	<50	<220
Dichlorodifluoromethane	<500	<100	<100	<100	<500	<1,000	<1,000	<500	<100	<1000
1,1-Dichloroethane	<240	<50	<47	<47	<240	<470	<470	<240	<50	<470
1,2-Dichloroethane	<140	<50	<28	1,910	1,690	<280	<280	1,260	<50	555
1,1-Dichloroethylene	<140	<50	<28	<28	<140	<280	<280	<140	<50	<280
1,2-Dichloropropane	<300	<50	<60	<60	<300	<600	<600	<300	<50	<600
cis-1,3-Dichloropropylene	<250	<50	<50	<50	<250	<500	<500	<250	<50	<500
Ethylbenzene	<360	140	105	160	<500	<720	<720	<500	190	<1000
Methyl bromide	<500	<100	<100	<100	<500	<1,000	<1,000	<500	<100	<1000
Methyl chloride	<500	<100	<100	<100	<500	<1,000	<1,000	<500	<100	466
Methylene chloride	240	<50	<28	94.0	231	417	<280	284	58	<690
1,1,2,2-Tetrachloroethane	<350	<50	<69	<69	<350	<690	<690	<350	<50	<410
Tetrachloroethylene	<210	67	64.7	102	<210	<410	<410	<210	95	1,22
Toluene	698	1,200	700	1,210	775	<600	<600	817	890	<360
1,2-trans-Dichloroethylene	<80	<50	<16	<16	<80	<160	<160	<80	<50	<380
1,1,1-Trichloroethane	<190	<50	<38	<38	<190	<380	<380	<190	<50	<500
1,1,2-Trichloroethane	<250	<50	<50	<50	<250	<500	<500	<250	<50	<190
Trichloroethylene	<95	<50	30.6	88.4	<95	<190	<190	<95	<50	<1000
Trichlorofluoromethane	<500	<50	<100	<100	<500	<1,000	<1,000	<500	<50	<1000
Vinyl chloride	<500	<100	<100	<100	<500	<1,000	<1,000	<500	<100	<1000
trans-1,3-Dichloropropylene	<500	<50	<100	<100	<360	<1,000	<1,000	<360	<50	<720
Sub Total 1	3,338	5,857	4,108	9,219	6,895	3,437	3,020	7,437	6,953	9,621
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	<500	<500	<100	861	687	<1,000	<1,000	521	<500	<1000
Methyl isoamyl ketone	<500	<100	<100	<100	<500	<1,000	<1,000	<500	<100	<1000
m-Xylene	<500	260	458	901	533	<1,000	<1,000	<500	240	<1000
o-Xylene/p-Xylene	<500	130	293	465	<500	<1,000	<1,000	<500	120	<1000
Sub Total 2	0	390	751	2,207	1,220	0	0	521	360	0
Total VOCs Analyzed	3,338	6,247	4,859	11,426	8,115	3,437	3,020	7,958	7,313	9,621

Table 1. Summary of Volatile Organic Compounds in Ground water Krummrich Plant, Sauget Illinois

Well Number:	GM-57C	GM-57C	GM-58A	GM-58A	GM-58A	GM-58A	GM-59A	GM-59A	GM-59A	GM-59A
Date:	11/89	11/89*	11/87	5/88	11/88	11/89	11/87	5/88	11/88	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<10000	<5000	<100	<100	<100	<100	<100	<100	<100	<100
Acrylonitrile	<10000	<5000	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	<440	<220	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
Bis (chloromethyl) ether	<1000	<500	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	<470	<240	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
Carbon tetrachloride	<280	<140	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
Chlorobenzene	2,320	2,330	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Chlorodibromomethane	<310	<160	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Chloroethane	<1000	<500	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloroethylvinyl ether	<1000	<500	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<160	<80	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
Dichlorobromomethane	<220	<110	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Dichlorodifluoromethane	<1000	<500	<10	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethane	<470	<240	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
1,2-Dichloroethane	<280	286	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,1-Dichloroethylene	<280	<140	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,2-Dichloropropane	<600	<300	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
cis-1,3-Dichloropropylene	<500	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<720	<360	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
Methyl bromide	<1000	<500	<10	<10	<10	<10	<10	<10	<10	<10
Methyl chloride	<1000	<500	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<280	<140	12.1	9.7	51.2	3.05	6.88	<2.8	54.9	3.31
1,1,2,2-Tetrachloroethane	<690	<350	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
Tetrachloroethylene	<410	<210	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
Toluene	<600	328	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
1,2-trans-Dichloroethylene	<160	<80	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
1,1,1-Trichloroethane	<380	<190	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
1,1,2-Trichloroethane	<500	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene	<190	<95	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Trichlorofluoromethane	<1000	<500	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl chloride	<1000	<500	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,3-Dichloropropylene	<1000	<500	<10	<10	<10	<10	<10	<10	<10	<10
Sub Total 1	2,320	2,944	12	10	51	3	7	0	55	3
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	<1000	<500	<10	<10	NA	NA	<10	<10	NA	NA
Methyl isoamyl ketone	<1000	<500	<10	<10	NA	NA	<10	<10	NA	NA
m-Xylene	<1000	<500	<10	<10	NA	NA	<10	<10	NA	NA
o-Xylene/p-Xylene	<1000	<500	<10	<10	NA	NA	<10	<10	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	2,320	2,944	12	10	51	3	7	0	55	3

Table . Summary of Volatile Organic Compounds in Drinking Water, Kramer Plant, Badger [illegible]

Well Number:	B-25A	B-26A	B-28A	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106
Date:	3/87	3/87	3/87	12/86	5/87	11/87	5/88	11/88	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L									
Acrolein	<1,000	<100	<100	<100	<100	<1,000	<1,000	<2,500	<5000
Acrylonitrile	<1,000	<100		<100	<100	<1,000	<1,000	<2,500	<5000
Benzene	92	42.3		<4.4	8.1	44.6	<44	<110	<220
Bis (chloromethyl) ether	<100	<10	<100	<10	<10	<100	<100	<250	<500
Bromoform	<47	<4.7	<47	<4.7	<4.7	<47	<47	<120	<240
Carbon tetrachloride	<28	<2.8	<28	<2.8	<2.8	<28	<28	<70	<140
Chlorobenzene	8,210	158	929	63.7	119.0	970	584	1,750	1,940
Chlorodibromomethane	<31	<3.1	<31	<3.1	<3.1	<31	<31	<78	<160
Chloroethane	200	<10	<100	<10	<10	<100	<100	<250	<500
2-Chloroethylvinyl ether	<100	<10	<100	<10	<10	<100	<100	<250	<500
Chloroform	70.7	<1.6	<16	<1.6	<1.6	<16	<16	<40	<80
Dichlorobromomethane	<22	<2.2	<22	<2.2	<2.2	<22	<22	<55	<110
Dichlorodifluoromethane	<100	<10	<100	<10	<10	<100	<100	<250	<500
1,1-Dichloroethane	<47	8.86	<47	<4.7	<4.7	<47	<47	<120	<240
1,2-Dichloroethane	16,500	<2.8	<28	<2.8	<2.8	<28	<28	<70	<140
1,1-Dichloroethylene	<28	<2.8	<28	<2.8	<2.8	<28	<28	<70	<140
1,2-Dichloropropane	<60	<6.0	<60	<6	<6	<60	<60	<150	<300
cis-1,3-Dichloropropylene	<50	<5.0	<50	<5	<5	<50	<50	<130	<250
Ethylbenzene	<72	<7.2	<72	<7.2	7.3	<72	<72	<180	<360
Methyl bromide	<100	<10	<100	<10	<10	<100	<100	<250	<500
Methyl chloride	<100	<10	<100	<10	<10	<100	<100	<250	<500
Methylene chloride	<28	<2.8	<28	9.4	7.2	38.8	<28	760	228
1,1,2,2-Tetrachloroethane	<69	<6.9	<69	<6.9	<6.9	<69	<69	<170	<350
Tetrachloroethylene	<41	<4.1	<41	<4.1	<4.1	<41	<41	<100	<210
Toluene	465	<6.0	<60	27.7	37.1	307	177	488	571
1,2-trans-Dichloroethylene	<16	4.64	<16	<1.6	<1.6	<16	<16	<40	<80
1,1,1-Trichloroethane	<38	<3.8	<38	<3.8	<3.8	<38	<38	<95	<190
1,1,2-Trichloroethane	<50	<5.0	<50	<5	<5	<50	<50	<130	<250
Trichloroethylene	<19	<1.9	<19	<1.9	<1.9	<19	<19	<48	<95
Trichlorofluoromethane	<100	<10	<100	<10	<10	<100	<100	<250	<500
Vinyl chloride	<100	<10	<100	<10	<10	<100	<100	<250	<500
trans-1,3-Dichloropropylene	<100	<10	<100	<10	<10	<100	<100	<250	<500
Sub Total 1	25,538	214	929	101	179	1,360	761	2,998	2,739
Miscellaneous Volatile Organic Compounds									
Acetone	19,400	<10	<100	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	<100	<10	<100	NA	NA	NA	NA	NA	NA
Carbon disulfide	<100	<10	<100	NA	NA	NA	NA	NA	NA
2-Hexanone	<100	<10	<100	NA	NA	NA	NA	NA	NA
Styrene	<100	<10	<100	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	206	<10	<100	NA	NA	NA	NA	NA	NA
Methyl isoamyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA
m-Xylene	<100	<10	<100	NA	NA	NA	NA	NA	NA
o-Xylene/p-Xylene	<100	<10	<100	NA	NA	NA	NA	NA	NA
Sub Total 2	19,606	0	0	0	0	0	0	0	0
Total VOCs Analyzed	45,144	214	929	101	179	1,360	761	2,998	2,739

Table 1 Summary of Volatile Organic Compounds in Ground Water Ammunition Plant, Badger, Illinois

Well Number:	P-1	P-1	P-2	P-2	P-2	P-2	P-2	P-2	P-3	P-6
Date:	3/87	11/87	12/86	5/87	11/87	5/88	11/88	11/89	11/87	12/86
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<1,000	<100	<100	<1,000	<2,000	<2,000	<5000	<1,000	<100
Acrylonitrile	<100	<1,000	<100	<100	<1,000	<2,000	<2,000	<5000	<1,000	<100
Benzene	<4.4	102	56.1	50.8	140	88.3	571	272	2,220	79.2
Bis (chloromethyl) ether	<10	<100	<10	<10	<100	<200	<200	<500	<100	<10
Bromoform	<4.7	<47	<4.7	<4.7	<47	<94	<94	<240	<47	<4.7
Carbon tetrachloride	<2.8	<28	<2.8	<2.8	<28	<56	<56	<140	<28	<2.8
Chlorobenzene	454	1,110	618	497	1,040	605	1,510	1,810	346	366
Chlorodibromomethane	<3.1	<31	<3.1	<3.1	<31	<62	<62	<160	<31	<3.1
Chloroethane	<10	<100	<10	<10	<100	<200	<200	<500	<100	<10
2-Chloroethylvinyl ether	<10	<100	<10	<10	<100	<200	<200	<500	<100	<10
Chloroform	<1.6	<16	<1.6	<1.6	<16	<32	<32	<80	<16	<1.6
Dichlorobromomethane	<2.2	<22	<2.2	<2.2	<22	<44	<44	<110	<22	<2.2
Dichlorodifluoromethane	<10	<100	<10	<10	<100	<200	<200	<500	<100	<10
1,1-Dichloroethane	<4.7	<47	<4.7	<4.7	<47	<94	<94	<240	<47	<4.7
1,2-Dichloroethane	<2.8	<28	<2.8	<2.8	<28	<56	<56	<140	<28	<2.8
1,1-Dichloroethylene	<2.8	35.1	<2.8	<2.8	<28	<56	<56	<140	<28	<2.8
1,2-Dichloropropane	<6.0	<60	<6	<6	<60	<120	<120	<300	<60	<6
cis-1,3-Dichloropropylene	<5.0	<50	<5	<5	<50	<100	<100	<250	<50	<5
Ethylbenzene	<7.2	<72	<7.2	<7.2	<72	<140	<140	<360	<72	<7.2
Methyl bromide	<10	<100	<10	<10	<100	<200	<200	<500	<100	<10
Methyl chloride	<10	<100	<10	<10	<100	<200	<200	<500	<100	<10
Methylene chloride	<2.8	95.0	13.6	<2.8	<28	<56	664	<140	<28	33.9
1,1,2,2-Tetrachloroethane	<6.9	<69	<6.9	<6.9	<69	<140	<140	<350	<69	<6.9
Tetrachloroethylene	<4.1	<41	<4.1	<4.1	<41	<82	<82	<210	<41	<4.1
Toluene	<6.0	<60	<6	<6	<60	<120	198	<300	<60	<6
1,2-trans-Dichloroethylene	<1.6	29.2	<1.6	<1.6	<16	<32	609	<80	<16	<1.6
1,1,1-Trichloroethane	<3.8	<38	<3.8	<3.8	<38	<76	146	<190	<38	<3.8
1,1,2-Trichloroethane	<5.0	<50	<5	<5	<50	<100	<100	<250	<50	<5
Trichloroethylene	<1.9	<19	<1.9	<1.9	<19	<38	249	<95	<19	<1.9
Trichlorofluoromethane	<10	<100	<10	<10	<100	<200	<200	<500	<100	<10
Vinyl chloride	<10	<100	<10	<10	<100	<200	1,290	<500	<100	<10
trans-1,3-Dichloropropylene	<10	<100	<10	<10	<100	<200	<200	<500	<100	<10
Sub Total 1	454	1,371	688	548	1,180	693	5,237	2,082	2,566	479
Miscellaneous Volatile Organic Compounds										
Acetone	30.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	<10	<100	NA	NA	<100	NA	NA	NA	400	NA
Methyl isoamyl ketone	NA	<100	NA	NA	<100	NA	NA	NA	<100	NA
m-Xylene	<10	<100	NA	NA	<100	NA	NA	NA	<100	NA
o-Xylene/p-Xylene	<10	<100	NA	NA	<100	NA	NA	NA	<100	NA
Sub Total 2	30.4	0	0	0	0	0	0	0	400	0
Total VOCs Analyzed	484	1,371	688	548	1,180	693	5,237	2,082	2,966	479

Table 1 Summary of Volatile Organic Compounds in Groundwater Ammunition Plant Budget Periods

Well Number:	P-6	P-6	P-6	P-6	P-6	P-7	P-7	P-7	P-7	P
Date:	5/87	11/87	5/88	11/88	11/89	12/86	3/87	5/87	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<100	<100	[illegible]00	<5000	<10,000	10,000	<50,000	<1,000	<2,000
Acrylonitrile	<100	<100	<100	<[illegible],000	<5000	<10,000	0,000	<50,000	<1,000	<2,000
Benzene	<4.4	<4.4	<4.4	419	434	523	1,420	11,300	1,830	861
Bis (chloromethyl) ether	<10	<10	<10	<100	<500	<1,000	<1,000	<5,000	<100	<200
Bromoform	<4.7	<4.7	<4.7	<47	<240	<470	<470	<2,400	62.3	<94
Carbon tetrachloride	<2.8	<2.8	<2.8	<28	<140	<280	<280	<1,400	<28	<56
Chlorobenzene	33.1	7.48	<6.0	837	1,000	1,470	4,310	25,200	3,290	1,560
Chlorodibromomethane	<3.1	<3.1	<3.1	<31	<160	<310	<310	<1,600	<31	<62
Chloroethane	<10	<10	<10	<100	<500	<1,000	<1,000	<5,000	<100	<200
2-Chloroethylvinyl ether	<10	<10	<10	<100	<500	<1,000	<1,000	<5,000	<100	<200
Chloroform	<1.6	<1.6	<1.6	28.8	<80	<160	<160	<800	<16	<32
Dichlorobromomethane	<2.2	<2.2	<2.2	<22	<110	<220	<220	<1,100	<22	<44
Dichlorodifluoromethane	<10	<10	<10	<100	<500	<1,000	<1,000	<5,000	<100	<200
1,1-Dichloroethane	<4.7	<4.7	<4.7	154	<240	<470	<470	<2,400	<47	[illegible]4
1,2-Dichloroethane	<2.8	<2.8	<2.8	<28	<140	<280	<280	<1,400	<28	<56
1,1-Dichloroethylene	<2.8	<2.8	<2.8	<28	<140	<280	<280	<1,400	<28	<56
1,2-Dichloropropane	<6	<6.0	<6.0	<60	<300	<600	<600	<3,000	<60	<120
cis-1,3-Dichloropropylene	<5	<5.0	<5.0	<50	<250	<500	<500	<2,500	<50	<100
Ethylbenzene	<7.2	<7.2	<7.2	<72	<360	<720	<720	<3,600	<72	<140
Methyl bromide	<10	<10	<10	<100	<500	<1,000	<1,000	<5,000	<100	<200
Methyl chloride	<10	<10	<10	<100	<500	<1,000	<1,000	<5,000	<100	<200
Methylene chloride	<2.8	3.87	<2.8	581.0	170	1,230	<280	18,200	<28	[illegible]56
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<69	<350	<690	<690	<3,500	117	
Tetrachloroethylene	<4.1	<4.1	<4.1	<41	<210	<410	<410	<2,100	<41	
Toluene	<6	<6.0	<6.0	189	<300	<600	<600	<3,000	251	20
1,2-trans-Dichloroethylene	<1.6	<1.6	<1.6	585	<80	<160	<160	<800	<	[illegible]32
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	104	<190	<380	<380	<1,900	<38	<76
1,1,2-Trichloroethane	<5	<5.0	<5.0	<50	<250	<500	<500	<2,500	<50	<100
Trichloroethylene	<1.9	<1.9	<1.9	207	<95	<190	<190	<950	<19	<38
Trichlorofluoromethane	<10	<10	<10	<100	<500	<1,000	<1,000	<5,000	<100	<200
Vinyl chloride	<10	<10	<10	1,580	<500	<1,000	<1,000	<5,000	<100	<200
trans-1,3-Dichloropropylene	<10	<10	<10	<100	<500	<1,000	<1,000	<5,000	<100	<200
Sub Total 1	33	11	0	4,685	1,604	3,223	5,730	54,700	5,550	2,421
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	[illegible]	NA	NA	NA	3,120	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	<1,000	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	<1,000	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	<1,000	NA	NA	[illegible]
Styrene	NA	NA	NA	NA	NA	NA	<1,000	NA	NA	NA
Methyl-iso-butyl ketone	NA	<10	NA	NA	NA	NA	<1,000	NA	172	NA
Methyl isoamyl ketone	NA	<10	NA	NA	NA	NA	NA	NA	<100	NA
m-Xylene	NA	<10	NA	NA	NA	NA	<1,000	NA	<100	NA
o-Xylene/p-Xylene	NA	<10	NA	NA	NA	NA	<1,000	NA	<100	NA
Sub Total 2	0	0	0	0	0	0	3,120	0	172	0
Total VOCs Analyzed	33	11	0	4,685	1,604	3,223	8,850	54,700	5,722	2,421

Table 1. Summary of Volatile Organic Compounds in Ground Water, Kramer Plant, Target, Florida

Well Number:	P-7	P-7	P-7	P-8	P-8	P-8	P-8	P-8	P-8	P-8
Date:	11/88	3/89	11/89	12/86	5/87	11/87	5/88	11/88	3/89	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<10,000	<10000	<5000	<1,000	<1,000	<1,000	<1,000	<2,000	<10000	<5000
Acrylonitrile	<10,000	<10000	<5000	<1,000	<1,000	<1,000	<1,000	<2,000	<10000	<5000
Benzene	5,650	2,690	1,570	194	424	1,390	1,720	1,980	1,680	3,340
Bis (chloromethyl) ether	<1,000	<1000	<500	<100	<100	<100	<100	<200	<1000	<500
Bromoform	<470	<470	<240	<47	<47	<47	<47	<94	<470	<240
Carbon tetrachloride	<280	<280	<140	<28	<28	<28	<28	<56	<280	<140
Chlorobenzene	9,000	7,660	5,090	909	2,180	4,910	3,180	3,810	3,660	4,340
Chlorodibromomethane	<310	<310	<160	<31	<31	<31	<31	<62	<310	<160
Chloroethane	<1,000	<1000	<500	<100	<100	<100	<100	<200	<1000	<500
2-Chloroethylvinyl ether	<1,000	<1000	<500	<100	<100	<100	<100	<200	<1000	<500
Chloroform	462	<160	<80	<16	<16	<16	<16	121	<160	<80
Dichlorobromomethane	<220	<220	<110	<22	<22	<22	<22	<44	<220	<110
Dichlorodifluoromethane	<1,000	<1000	<500	<100	<100	<100	<100	<200	<1000	<500
1,1-Dichloroethane	2,880	<470	<240	<47	<47	<47	<47	<94	<470	<240
1,2-Dichloroethane	<280	<280	<140	<28	<28	73.9	<28	303	<280	<140
1,1-Dichloroethylene	373	<280	<140	<28	<28	<28	<28	<56	<280	<140
1,2-Dichloropropane	<600	<600	<300	<60	<60	<60	<60	<120	<600	<300
cis-1,3-Dichloropropylene	<500	<500	<250	<50	<50	<50	<50	<100	<500	<250
Ethylbenzene	<720	<1000	<360	<72	<72	79.1	<72	<140	<1000	<360
Methyl bromide	<1,000	<1000	<500	<100	<100	<100	<100	<200	<1000	<500
Methyl chloride	<1,000	458	<500	<100	<100	<100	<100	<200	466	<500
Methylene chloride	10,200	<690	560	<28	<28	217	558	495	<690	1,080
1,1,2,2-Tetrachloroethane	<690	<410	<350	<69	<69	<69	<69	<140	<410	<350
Tetrachloroethylene	<410	721	<210	<41	<41	<41	<41	<82	<600	<210
Toluene	3,620	<160	368	<60	<60	590	538	603	<160	512
1,2-trans-Dichloroethylene	11,300	<380	<80	<16	<16	<16	<16	<32	<380	<80
1,1,1-Trichloroethane	2,720	<500	<190	<38	<38	<38	<38	<76	<500	<190
1,1,2-Trichloroethane	<500	<190	<250	<50	<50	<50	<50	<100	<190	<250
Trichloroethylene	4,610	<1000	<95	<19	<19	<19	24.3	<38	<1000	<95
Trichlorofluoromethane	<1,000	<1000	<500	<100	<100	<100	<100	<200	<1000	<500
Vinyl chloride	24,500	<1000	<500	<100	<100	<100	<100	<200	<1000	<500
trans-1,3-Dichloropropylene	<1,000	<720	<500	<100	<100	<100	<100	<200	<720	<500
Sub Total 1	75,315	11,529	7,588	1,103	2,604	7,260	6,020	7,312	5,806	9,272
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	<1000	NA	NA	NA	2,860	NA	NA	1,920	NA
Methyl isoamyl ketone	NA	<1000	NA	NA	NA	<100	NA	NA	<1000	NA
m-Xylene	NA	<1000	NA	NA	NA	173	NA	NA	<1000	NA
o-Xylene/p-Xylene	NA	<1000	NA	NA	NA	144	NA	NA	<1000	NA
Sub Total 2	0	0	0	0	0	3,177	0	0	1,920	0
Total VOCs Analyzed	75,315	11,529	7,588	1,103	2,604	10,437	6,020	7,312	7,726	9,272

Table . Summary of Volatile Organic Compounds in Drinking Water - Plattsburgh Air Force Base, New York

Well Number:	P-10	P-11	P-11	P-12	P-13	P-13	P-13	P-13	P-13	P-[illegible]
Date:	11/87	3/87	11/87	11/87	12/86	5/87	11/87	5/88	11/88	11/8[illegible]
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<1,000	<100	<1,000	<50,000	<1,000	<100	<1,000	<1,000	<1,000	<5000
Acrylonitrile	<1,000	<100	<1,000	<50,000	<1,000	<100	<1,000	<1,000	<1,000	<5000
Benzene	1,080	120	337	7,330	45.8	89.7	365	684	1,040	1,410
Bis (chloromethyl) ether	<100	<10	<100	<5,000	<100	<10	<100	<100	<100	<500
Bromoform	<47	<4.7	<47	<2,400	<47	<4.7	<47	<47	<47	<240
Carbon tetrachloride	<28	<2.8	<28	<1,400	<28	<2.8	<28	<28	<28	<140
Chlorobenzene	5,210	483	1,660	37,400	225	305	881	1,050	1,500	5,530
Chlorodibromomethane	<31	<3.1	<31	<1,600	<31	<3.1	<31	<31	<31	<160
Chloroethane	<100	<10	<100	<5,000	<100	<10	<100	<100	<100	<500
2-Chloroethylvinyl ether	<100	<10	<100	<5,000	<100	<10	<100	<100	<100	<500
Chloroform	<16	<1.6	<16	<800	<16	<1.6	<16	<16	<16	<80
Dichlorobromomethane	<22	<2.2	<22	<1,100	<22	<2.2	<22	<22	<22	<110
Dichlorodifluoromethane	<100	<10	<100	<5,000	<100	<10	<100	<100	<100	<500
1,1-Dichloroethane	<47	<4.7	<47	<2,400	<47	<4.7	<47	<47	<47	<240
1,2-Dichloroethane	49.6	<2.8	<28	<1,400	<28	<2.8	<28	<28	<28	<140
1,1-Dichloroethylene	<28	<2.8	<28	<1,400	<28	<2.8	<28	<28	<28	<140
1,2-Dichloropropane	<60	<6.0	<60	<3,000	<60	<6	<60	<60	<60	<300
cis-1,3-Dichloropropylene	<50	<5.0	<50	<2,500	<50	<5	<50	<50	<50	<250
Ethylbenzene	137	<7.2	<72	<3,000	<72	<7.2	<72	<72	<72	<360
Methyl bromide	<100	<10	<100	<5,000	<100	<10	<100	<100	<100	<500
Methyl chloride	<100	<10	<100	<5,000	<100	<10	<100	<100	<100	<500
Methylene chloride	653	<2.8	2,260	<1,400	114	<2.8	<28	<28	136	398
1,1,2,2-Tetrachloroethane	<69	<6.9	<69	<3,500	<69	<6.9	<69	<69	<69	<35[illegible]
Tetrachloroethylene	<41	<4.1	<41	<2,100	<41	<4.1	<41	<41	<41	<2[illegible]
Toluene	103	<6.0	<60	<3,000	<60	<6	<60	<60	<60	928
1,2-trans-Dichloroethylene	25.4	<1.6	<16	<800	<16	<1.6	<16	<16	<16	<80
1,1,1-Trichloroethane	<38	<3.8	<38	<1,900	<38	<3.8	<38	<38	<38	<190
1,1,2-Trichloroethane	<50	<5.0	<50	<2,500	<50	<5	<50	<50	<50	<250
Trichloroethylene	<19	<1.9	<19	<950	<19	<1.9	<19	<19	<19	<95
Trichlorofluoromethane	<100	<10	<100	<5,000	<100	<10	<100	<100	<100	<500
Vinyl chloride	<100	<10	<100	<5,000	<100	<10	<100	<100	<100	<500
trans-1,3-Dichloropropylene	<100	<10	<100	<3,600	<100	<10	<100	<100	<100	<500
Sub Total 1	7,258	603	4,257	44,730	385	395	1,246	1,734	2,676	10,266
Miscellaneous Volatile Organic Compounds										
Acetone	NA	22.9	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	<100	<10	<100	<5,000	NA	NA	<100	NA	NA	NA
Methyl isoamyl ketone	<100	NA	<100	<5,000	NA	NA	<100	NA	NA	NA
m-Xylene	<100	<10	<100	<5,000	NA	NA	<100	NA	NA	NA
o-Xylene/p-Xylene	137	<10	<100	<5,000	NA	NA	<100	NA	NA	NA
Sub Total 2	137	22.9	0	0	0	0	0	0	0	0
Total VOCs Analyzed	7,395	626	4,257	44,730	385	395	1,246	1,734	2,676	10,266

Table 1 Summary of Volatile Organic Compounds in Ground Water Thompson Plant Target Levels

Well Number:	P-14	P-14	P-14	P-14	P-14	P-14	Field Blank	Field Blank	Field Blank	Field Blank
Date:	12/86	5/87	11/87	5/88	11/88	11/89	12/86	3/87	5/87	11/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<100,000	<100	<100,000	<50,000	<5000	<100	<100	<100	<100
Acrylonitrile	<100	<100,000	<100	<100,000	<50,000	<5000	<100	<100	<100	<100
Benzene	<4.4	<4,400	<4.4	<4,400	<2,200	<220	<4.4	<4.4	<4.4	<4.4
Bis (chloromethyl) ether	<10	<10,000	<10	<10,000	<5,000	<500	<10	<10	<10	<10
Bromoform	<4.7	<4,700	<4.7	<4,700	<2,400	<240	<4.7	<4.7	<4.7	<4.7
Carbon tetrachloride	<2.8	<2,800	<2.8	<2,800	<1,400	<140	<2.8	<2.8	<2.8	<2.8
Chlorobenzene	<6	158,000	<6.0	37,200	12,100	17,500	<6	<6.0	<6	<6.0
Chlorodibromomethane	<3.1	<3,100	<3.1	<3,100	<1,600	<160	<3.1	<3.1	<3.1	3.90
Chloroethane	<10	<10,000	<10	<10,000	<5,000	<500	<10	<10	<10	<10
2-Chloroethylvinyl ether	<10	<10,000	<10	<10,000	<5,000	<500	<10	<10	<10	<10
Chloroform	<1.6	<1,600	<1.6	<1,600	<800	<80	<1.6	<1.6	<1.6	39.7
Dichlorobromomethane	<2.2	<2,200	<2.2	<2,200	<1,100	<110	<2.2	<2.2	<2.2	16.5
Dichlorodifluoromethane	<10	<10,000	<10	<10,000	<5,000	<500	<10	<10	<10	<10
1,1-Dichloroethane	<4.7	<4,700	<4.7	<4,700	<2,400	<240	<4.7	<4.7	<4.7	<4.7
1,2-Dichloroethane	<2.8	<2,800	<2.8	<2,800	<1,400	<140	<2.8	<2.8	<2.8	<2.8
1,1-Dichloroethylene	<2.8	<2,800	<2.8	<2,800	<1,400	<140	<2.8	<2.8	<2.8	<2.8
1,2-Dichloropropane	<6	<6,000	<6.0	<6,000	<3,000	<300	<6	<6.0	<6	<6.0
cis-1,3-Dichloropropylene	<5	<5,000	<5.0	<5,000	<2,500	<250	<5	<5.0	<5	<5.0
Ethylbenzene	<7.2	<7,200	<7.2	<7,200	<5,000	<360	<7.2	<7.2	<7.2	<7.2
Methyl bromide	<10	<10,000	<10	<10,000	<5,000	<500	<10	<10	<10	<10
Methyl chloride	<10	<10,000	<10	<10,000	<5,000	<500	<10	<10	<10	<10
Methylene chloride	468	22,400	26.5	<2,800	<1,400	280	8.4	<2.8	<2.8	9.67
1,1,2,2-Tetrachloroethane	<6.9	<6,900	<6.9	<6,900	<3,500	<350	<6.9	<6.9	<6.9	<6.9
Tetrachloroethylene	<4.1	<4,100	<4.1	<4,100	<2,100	<210	<4.1	<4.1	<4.1	<4.1
Toluene	<6	<6,000	<6.0	<6,000	<3,000	<300	<6	<6.0	<6	<6.0
1,2-trans-Dichloroethylene	<1.6	<1,600	<1.6	<1,600	<800	<80	<1.6	<1.6	<1.6	<1.6
1,1,1-Trichloroethane	<3.8	<3,800	<3.8	<3,800	<1,900	<190	<3.8	<3.8	<3.8	<3.8
1,1,2-Trichloroethane	<5	<5,000	<5.0	<5,000	<2,500	<250	<5	<5.0	<5	<5.0
Trichloroethylene	<1.9	<1,900	<1.9	<1,900	<950	<95	<1.9	<1.9	<1.9	<1.9
Trichlorofluoromethane	<10	<10,000	<10	<10,000	<5,000	<500	<10	<10	<10	<10
Vinyl chloride	<10	<10,000	<10	<10,000	<5,000	<500	<10	<10	<10	<10
trans-1,3-Dichloropropylene	<10	<10,000	<10	<10,000	<3,600	<500	<10	<10	<10	<10
Sub Total 1	468	180,400	27	37,200	12,100	17,780	8	0	0	70
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA
Methyl-iso-butyl ketone	NA	NA	<10	NA	NA	NA	NA	<10	NA	NA
Methyl isoamyl ketone	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA
m-Xylene	NA	NA	<10	NA	NA	NA	NA	<10	NA	NA
o-Xylene/p-Xylene	NA	NA	<10	NA	NA	NA	NA	<10	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0	0
Total VOCs Analyzed	468	180,400	27	37,200	12,100	17,780	8	0	0	70

Table 1. Summary of Volatile Organic Compounds in Ground Water Crumbaugh Plant Target Analytes

Well Number:	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Date:	5/88	11/88	11/88	3/89	5/89	11/89	12/86	3/87	5/87	11/8
Laboratory:	ETC	ETC	SL	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L										
Acrolein	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100
Acrylonitrile	<100	<100	<50	<100	<100	<100	<100	<100	<100	<100
Benzene	<4.4	<4.4	<5	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
Bis (chloromethyl) ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	<4.7	<4.7	<5	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
Carbon tetrachloride	<2.8	<2.8	<5	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
Chlorobenzene	<6.0	<6.0	<5	<6.0	<6	<6.0	<6	<6.0	<6	<6.0
Chlorodibromomethane	<3.1	<3.1	<5	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloroethylvinyl ether	<10	<10	<5	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.6	<1.6	<5	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
Dichlorobromomethane	<2.2	<2.2	<5	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Dichlorodifluoromethane	<10	23.1	<10	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethane	<4.7	<4.7	<5	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
1,2-Dichloroethane	<2.8	<2.8	<5	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,1-Dichloroethylene	<2.8	<2.8	<5	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,2-Dichloropropane	<6.0	<6.0	<5	<6.0	<6	<6.0	<6	<6.0	<6	<6.0
cis-1,3-Dichloropropylene	<5.0	<5.0	<5	<5.0	<5	<5.0	<5	<5.0	<5	<5.0
Ethylbenzene	<7.2	<7.2	<5	<10	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
Methyl bromide	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl chloride	<10	<10	<10	<2.8	<10	<10	<10	<10	<10	<10
Methylene chloride	10.2	29.2	<5	<6.9	4.20	<2.8	4.2	<2.8	<2.8	<2.8
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<5	<4.1	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
Tetrachloroethylene	<4.1	<4.1	<5	<6.0	<4.1	<4.1	<4.1	<4.1	<4.1	<4
Toluene	<6.0	<6.0	<5	<1.6	<6	<6.0	<6	<6.0	<6	
1,2-trans-Dichloroethylene	<1.6	<1.6	<5	<3.8	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
1,1,1-Trichloroethane	<3.8	<3.8	<5	<5.0	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
1,1,2-Trichloroethane	<5.0	<5.0	<5	<1.9	<5	<5.0	<5	<5.0	<5	<5.0
Trichloroethylene	<1.9	<1.9	<5	<10	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Trichlorofluoromethane	<10	<10	<5	<10	<10	<10	<10	<10	<10	<10
Vinyl chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,3-Dichloropropylene	<10	<10	<5	<7.2	<10	<10	<10	<10	<10	<10
Sub Total 1	10	52	0	0	4	0	4	0	0	0
Miscellaneous Volatile Organic Compounds										
Acetone	NA	NA	NA	NA	NA	NA	NA	40.1	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA
Methyl-iso-butyl ketone	NA	NA	<500	NA	NA	NA	NA	<10	NA	NA
Methyl isoamyl ketone	NA	NA	<100	NA	NA	NA	NA	NA	NA	NA
m-Xylene	NA	NA	<50	NA	NA	NA	NA	<10	NA	NA
o-Xylene/p-Xylene	NA	NA	<50	NA	NA	NA	NA	<10	NA	NA
Sub Total 2	0	0	0	0	0	0	0	40.1	0	0
Total VOCs Analyzed	10	52	0	0	4	0	4	40	0	0

Table 1 Summary of Detected Organic Compounds in Drinking Water Grumman Plant, Bethpage, New York

Well Number:	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Date:	5/88	11/88	11/88	5/89	11/89
Laboratory:	ETC	ETC	SL	ETC	ETC
USEPA Priority Pollutant Volatile Organic Compounds concentrations are in ug/L					
Acrolein	<100	<100	<50	<100	<100
Acrylonitrile	<100	<100	<50	<100	<100
Benzene	<4.4	<4.4	<5	<4.4	<4.4
Bis (chloromethyl) ether	<10	<10	<5	<10	<10
Bromoform	<4.7	<4.7	<5	<4.7	<4.7
Carbon tetrachloride	<2.8	<2.8	<5	<2.8	<2.8
Chlorobenzene	<6.0	<6.0	<5	<6	<6.0
Chlorodibromomethane	<3.1	<3.1	<5	<3.1	<3.1
Chloroethane	<10	<10	<10	<10	<10
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10
Chloroform	<1.6	<1.6	<5	<1.6	<1.6
Dichlorobromomethane	<2.2	<2.2	<5	<2.2	<2.2
Dichlorodifluoromethane	<10	26	<10	<10	<10
1,1-Dichloroethane	<4.7	<4.7	<5	<4.7	<4.7
1,2-Dichloroethane	<2.8	<2.8	<5	<2.8	<2.8
1,1-Dichloroethylene	<2.8	<2.8	<5	<2.8	<2.8
1,2-Dichloropropane	<6.0	<6.0	<5	<6	<6.0
cis-1,3-Dichloropropylene	<5.0	<5.0	<5	<5	<5.0
Ethylbenzene	<7.2	<7.2	<5	<10	<7.2
Methyl bromide	<10	<10	<10	<10	<10
Methyl chloride	<10	<10	<10	<2.8	<10
Methylene chloride	<2.8	6.50	<5	<6.9	8.76
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<5	<4.1	<6.9
Tetrachloroethylene	<4.1	<4.1	<5	<6	<4.1
Toluene	<6.0	<6.0	<5	<1.6	<6.0
1,2-trans-Dichloroethylene	<1.6	<1.6	<5	<3.8	<1.6
1,1,1-Trichloroethane	<3.8	<3.8	<5	<5	<3.8
1,1,2-Trichloroethane	<5.0	<5.0	<5	<1.9	<5.0
Trichloroethylene	<1.9	<1.9	<5	<10	<1.9
Trichlorofluoromethane	<10	<10	<5	<10	<10
Vinyl chloride	<10	<10	<10	<10	<10
trans-1,3-Dichloropropylene	<10	<10	<5	<7.2	<10
Sub Total 1	0	33	0	0	9
Miscellaneous Volatile Organic Compounds					
Acetone	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA
Methyl-iso-butyl ketone	NA	NA	<500	NA	NA
Methyl isoamyl ketone	NA	NA	<100	NA	NA
m-Xylene	NA	NA	<50	NA	NA
o-Xylene/p-Xylene	NA	NA	<50	NA	NA
Sub Total 2	0	0	0	0	0
Total VOCs Analyzed	0	33	0	0	9

Table 3. Summary of Acid Extractable Compounds in Ground water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-4A	GM-4A	GM-4A	GM-4A	GM-4A	GM-4A	GM-4B	GM-4B	GM-4B
Date:	12/86	5/87	11/87	5/88	11/88	11/89	12/86	5/87	11/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	NA	NA	<3.4	<3.5	<3.8	<3.6	NA	NA	17.4
2,4-Dichlorophenol	NA	NA	<2.8	<2.9	<3.1	<2.9	NA	NA	7.1
2,4-Dimethylphenol	NA	NA	<2.8	<2.9	<3.1	<2.9	NA	NA	<2.9
4,6-Dinitro-o-cresol	NA	NA	<24	<26	<28	26	NA	NA	<26
2,4-Dinitrophenol	NA	NA	<43	<45	<48	46	NA	NA	<45
2-Nitrophenol	NA	NA	<3.7	<3.8	<4.1	<3.9	NA	NA	<3.9
4-Nitrophenol	NA	NA	<2.4	<2.6	<2.8	<2.6	NA	NA	<2.6
p-Chloro-m-cresol	NA	NA	<3.1	<3.2	<3.4	<3.3	NA	NA	<3.2
Pentachlorophenol	NA	NA	<3.7	<3.8	<4.1	<3.9	NA	NA	<3.9
Phenol	NA	NA	<1.5	<1.6	<1.7	<1.6	NA	NA	<1.6
2,4,6-Trichlorophenol	NA	NA	<2.8	<2.9	<3.1	<2.9	NA	NA	<2.9
Sub Total 1	0	0	0	0	0	72	0	0	25
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	<10	<10	<10	<11	<11	<11	<11	72.6	57.8
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	73	58
Total Acid Compounds Analyzed	0	0	0	0	0	72	0	73	82

Table 1 Summary of Acid Extractable Compounds in Ground Water Ammunition Plant, Badger Illinois

Well Number:	GM-4B	GM-4B	GM-4B	GM-4B	GM-4C	GM-4C	GM-4C	GM-4C	GM-4C
Date:	5/88	11/88	5/89	11/89	12/86	5/87	11/87	5/88	11/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	46.5	42.3	81.3	71.5	NA	NA	51.4	14.8	<14
2,4-Dichlorophenol	28.6	6.91	9.01	3.79	NA	NA	21	22.5	<28
2,4-Dimethylphenol	<2.7	<3.1	<2.8	<2.8	NA	NA	<2.8	<2.9	<28
4,6-Dinitro-o-cresol	<24	<28	<24	<24	NA	NA	<25	<26	<240
2,4-Dinitrophenol	<42	<48	<43	<43	NA	NA	<43	<45	<430
2-Nitrophenol	<3.6	<4.1	<3.7	<3.7	NA	NA	<3.7	<3.8	<37
4-Nitrophenol	<2.4	<2.8	<2.4	<2.4	NA	NA	<2.5	<2.6	<24
p-Chloro-m-cresol	<3.0	<3.4	<3.1	<3.1	NA	NA	<3.1	<3.2	<31
Pentachlorophenol	<3.6	<4.1	<3.7	<3.7	NA	NA	<3.7	<3.8	<37
Phenol	<1.5	<1.7	<1.5	<1.5	NA	NA	<1.5	2.3	<15
2,4,6-Trichlorophenol	<2.7	<3.1	<2.8	<2.8	NA	NA	<2.8	<2.9	<28
Sub Total 1	75	49	90	75	0	0	72	40	0
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	20.1	19	<10	<10	27.4	35.9	113	<11	<100
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	20	19	0	0	27	36	113	0	0
Total Acid Compounds Analyzed	95	68	90	75	27	36	185	40	0

Table 2 Summary of Acid Extractable Compounds in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-4C	GM-4C	GM-17A	GM-17A	GM-17A	GM-17A	GM-17A	GM-17A	GM-17B
Date:	5/89	11/89	12/86	5/87	11/87	5/88	11/88	11/89	12/86
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	27.6	<35	51.6	67.7	38.3	98.4	68.6	59.1	21.5
2,4-Dichlorophenol	<2.8	<29	<2.9	<2.9	<2.8	<3.0	<2.8	<2.8	<2.9
2,4-Dimethylphenol	<2.8	<29	<2.9	<2.9	<2.8	<3.0	<2.8	<2.8	<2.9
4,6-Dinitro-o-cresol	<25	<260	<25	<26	<25	<27	<25	<25	<26
2,4-Dinitrophenol	<44	<450	<44	<45	<44	<47	<44	<44	<46
2-Nitrophenol	<3.8	<39	<3.8	<3.9	<3.8	<4.0	<3.8	<3.8	<3.9
4-Nitrophenol	<2.8	<26	<2.5	<2.6	<2.5	<2.7	<2.5	<2.5	<2.6
p-Chloro-m-cresol	<3.2	<32	<3.2	<3.2	<3.1	<3.3	<3.1	<3.1	<3.3
Pentachlorophenol	<3.8	<39	<3.8	<3.9	<3.8	<4.0	<3.8	<3.8	<3.9
Phenol	1.6	<16	<1.6	73	62.8	110	106	183	372
2,4,6-Trichlorophenol	<2.8	<29	<2.9	<2.9	<2.8	<3.0	<2.8	<2.8	<2.9
Sub Total 1	29	0	52	141	101	208	175	242	394
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	<11	<110	NA	NA	33	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	33	0	0	0	0
Total Acid Compounds Analyzed	29	0	52	141	134	208	175	242	394

Table 2. Summary of Acid Extractable Compounds in Ground water, Krummrich Plant, Badger, Louisiana

Well Number:	GM-17B	GM-17B	GM-17B	GM-17B	GM-17B	GM-17B	GM-17C	GM-17C	GM-17C
Date:	5/87	11/87	5/88	11/88	5/89	11/89	12/86	5/87	11/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	91.6	23.4	46.9	36.8	24.6	15.5	30.8	34	19.4
2,4-Dichlorophenol	<3.1	<2.8	<2.8	<3.2	<2.9	<2.8	10	4.7	3.44
2,4-Dimethylphenol	<3.1	<2.8	<2.8	<3.2	<2.9	<2.8	<3.3	<2.7	<2.8
4,6-Dinitro-o-cresol	<28	<25	<24	<29	<26	<25	<29	<24	<25
2,4-Dinitrophenol	<49	<43	<43	<50	<45	<44	<51	<42	<44
2-Nitrophenol	<4.2	<3.7	<3.7	<4.3	<3.9	<3.8	<4.3	<3.6	<3.8
4-Nitrophenol	<2.8	<2.5	<2.4	<2.9	<2.6	<2.5	<2.9	<2.4	<2.5
p-Chloro-m-cresol	<3.5	<3.1	<3.1	<3.6	<3.2	<3.2	<3.6	<3	<3.1
Pentachlorophenol	<4.2	<3.7	<3.7	<4.3	<3.9	<3.8	<4.3	<3.6	<3.8
Phenol	546	235	330	<1.8	<1.6	2.06	<1.8	<1.5	4.07
2,4,6-Trichlorophenol	<3.1	<2.8	<2.8	<3.2	<2.9	<2.8	<3.3	<2.7	<2.8
Sub Total 1	638	258	377	37	25	18	41	39	27
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	NA	14.7	NA	NA	NA	NA	NA	NA	[illegible]
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	15	0	0	0	0	0	0	27
Total Acid Compounds Analyzed	638	273	377	37	25	18	41	39	54

Table 2. Summary of Acid Extractable Compounds in Ground water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-17C	GM-17C	GM-17C	GM-17C	GM-27B	GM-27C	GM-27C	GM-27C	GM-27C
Date:	5/88	11/88	5/89	11/89	11/87	12/86	5/87	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	34.9	<34	26.1	6.23	<3.8	NA	NA	6.34	4.7
2,4-Dichlorophenol	12.1	<28	17.7	10.3	<3.1	NA	NA	<3.1	<3.1
2,4-Dimethylphenol	<2.8	<28	<2.8	<2.8	7.44	NA	NA	8.44	18.6
4,6-Dinitro-o-cresol	<25	<240	<25	<25	<27	NA	NA	<27	<27
2,4-Dinitrophenol	<44	<430	<44	<44	<48	NA	NA	<48	<48
2-Nitrophenol	<3.8	<37	<3.8	<3.8	<4.1	NA	NA	<4.1	<4.1
4-Nitrophenol	<2.5	<24	<2.5	<2.5	<2.7	NA	NA	<2.7	<2.7
p-Chloro-m-cresol	<3.1	<31	<3.2	<3.1	<3.4	NA	NA	<3.4	<3.4
Pentachlorophenol	<3.8	<37	<3.8	<3.8	<4.1	NA	NA	<4.1	<4.1
Phenol	<1.6	<15	<1.6	<1.6	<1.7	NA	NA	<1.7	2.7
2,4,6-Trichlorophenol	<2.8	<28	<2.8	<2.8	<3.1	NA	NA	<3.1	<3.1
Sub Total 1	47	0	44	17	7	0	0	15	26
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	NA	<100	NA	NA	<11	<11	<10	25	24.9
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	25	25
Total Acid Compounds Analyzed	47	0	44	17	7	0	0	40	51

Table 2. Summary of Acid Extractable Compounds in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-27C	GM-27C	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28C
Date:	11/88	11/89	12/86	5/87	11/87	5/88	3/89	11/89	12/86
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	<3.4	12.7	NA	NA	5,570	5,610	1140	5510	NA
2,4-Dichlorophenol	<2.8	<3.1	NA	NA	18,600	34,700	5070	1930	NA
2,4-Dimethylphenol	59.9	18.3	NA	NA	1,220	2,040	311	531	NA
4,6-Dinitro-o-cresol	<24	<28	NA	NA	<1200	<300	<250	<260	NA
2,4-Dinitrophenol	<43	<48	NA	NA	<2100	<520	<430	<460	NA
2-Nitrophenol	<3.7	<4.1	NA	NA	<180	<44	<37	<40	NA
4-Nitrophenol	<2.4	<2.8	NA	NA	<120	<30	<25	<26	NA
p-Chloro-m-cresol	<3.1	<3.4	NA	NA	<150	<37	<31	<33	NA
Pentachlorophenol	<3.7	<4.1	NA	NA	<180	1,270	296	<40	NA
Phenol	113	<1.7	NA	NA	21,300	29,500	3390	7840	NA
2,4,6-Trichlorophenol	<2.8	<3.1	NA	NA	5,950	13,800	<28	501	NA
Sub Total 1	173	31	0	0	52,640	86,920	10,207	16,312	0
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	387	<11	684	<56	8,070	11,900	6,580	<110	439
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	387	0	684	0	8,070	11,900	6,580	0	439
Total Acid Compounds Analyzed	560	31	684	0	60,710	98,820	16,787	16,312	439

Table 2 Summary of Acid Extractable Compounds in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-31A	GM-31A
Date:	5/87	11/87	5/88	11/88	3/89	3/89 *	11/89	12/86	12/86*
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	NA	868	1,120	<3.8	<3400	<330	205	<3.5	<3.8
2,4-Dichlorophenol	NA	4,430	8,440	4,630	<2800	3,630	461	11.2	10.6
2,4-Dimethylphenol	NA	253	192	42.7	<2800	<270	39.0	<2.9	<3.1
4,6-Dinitro-o-cresol	NA	<270	<34	<27	<24000	<2400	<28	<25	<27
2,4-Dinitrophenol	NA	<470	<59	<48	<43000	<4200	<49	26,200	20,600
2-Nitrophenol	NA	<40	<5.1	<4.1	<3700	<360	<4.2	12	11.8
4-Nitrophenol	NA	<27	<3.4	<2.7	<2400	<240	<2.8	<2.5	<2.7
p-Chloro-m-cresol	NA	<33	<4.2	<3.4	<3100	<300	<3.5	<3.2	<3.4
Pentachlorophenol	NA	113	116	57	<3700	<360	<4.2	<3.8	<4.1
Phenol	NA	1,260	2,910	<1.7	<1500	263	119	6.6	5.1
2,4,6-Trichlorophenol	NA	1,660	1,570	<3.1	<2800	415	383	1,740	1,560
Sub Total 1	0	8,584	14,348	4,730	0	4,308	1,207	27,970	22,188
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	<64	2,250	2,610	691	<10000	<1000	<12	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	2,250	2,610	691	0	0	0	0	0
Total Acid Compounds Analyzed	0	10,834	16,958	5,421	0	4,308	1,207	27,970	22,188

Table 2 Summary of Acid Extractable Compounds in Ground water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A
Date:	5/87	5/87*	11/87	11/87*	5/88	5/88*	11/88	11/88 *	11/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	SL
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	<78	<37	<34	4.54	<33	<35	<180	<340	<100
2,4-Dichlorophenol	<64	<30	<28	24.6	<27	<28	<140	<280	<100
2,4-Dimethylphenol	<64	<30	<28	<2.8	<27	<28	<140	<280	<100
4,6-Dinitro-o-cresol	<560	<270	<250	<25	<240	<250	<1,300	<2,500	<500
2,4-Dinitrophenol	12,400	7,630	2,040	2,520	447	299	<2,200	<4,300	<500
2-Nitrophenol	<85	<40	<38	13.7	251	193	<190	<370	140
4-Nitrophenol	158	72.9	136	159	<24	<25	<130	<250	<500
p-Chloro-m-cresol	<71	<33	<31	<3.1	<30	<31	<160	<310	<100
Pentachlorophenol	<85	<40	<38	<3.8	<36	<38	<190	<370	<100
Phenol	<35	25.6	<16	9.87	50,400	119,000	339,000	586,000	340,000
2,4,6-Trichlorophenol	2,310	2,200	955	1,010	591	590	538	[illegible]	<100
Sub Total 1	14,868	9,929	3,131	3,742	51,689	120,082	339,538	586,000	340,140
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	NA	NA	<100	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0
Total Acid Compounds Analyzed	14,868	9,929	3,131	3,742	51,689	120,082	339,538	586,000	340,140

Table 2 Summary of Acid Extractable Compounds in Ground Water, Krummrich Plant, Sayreville, New Jersey

Well Number:	GM-31A	GM-31A	GM-31A	GM-55C	GM-55C	GM-55C	GM-55C	GM-56C	GM-56C
Date:	11/88 *	11/89	11/89 *	11/87	5/88	11/88	11/89	11/87	5/88
Laboratory:	SL	ETC ~~-66~~	ETC ~~-66~~	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	<100	<3.4	<3.4	10.9	31	<370	<400	2,020	4,680
2,4-Dichlorophenol	<100	44.0	40.1	<2.8	196	<300	417	6,010	5,190
2,4-Dimethylphenol	<100	<2.8	<2.8	<2.8	4.3	<300	<330	348	563
4,6-Dinitro-o-cresol	<500	<24	<25	<25	<28	<2,700	<2900	<1200	<29
2,4-Dinitrophenol	<500	282	244	<44	<49	<4,700	<5100	<2100	<51
2-Nitrophenol	140	59.2	45.7	<3.8	<4.2	<400	<430	<180	<4.4
4-Nitrophenol	<500	171	132	<2.5	<2.8	<270	<290	<120	<2.9
p-Chloro-m-cresol	<100	<3.1	<3.1	<3.1	<3.5	<340	<360	<150	<3.7
Pentachlorophenol	<100	20.5	23.5	<3.8	<4.2	<400	<430	<180	18
Phenol	270,000	1,020	934	<1.6	24.6	<170	<180	2,340	5,100
2,4,6-Trichlorophenol	<100			<2.8	22	<300	<330	2,020	1,830
Sub Total 1	270,140	1,597	1,419	11	278	0	417	12,738	17,381
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	NA	878	924	<10	254	<1,100	<1,200	9,200	14,100
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	878	924	0	254	0	0	9,200	14,100
Total Acid Compounds Analyzed	270,140	2,475	2,343	11	532	0	417	21,938	31,481

Table 2. Summary of Acid Extractable Compounds in Ground water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-56C	GM-56C	GM-56C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C
Date:	11/88	11/88	11/89	11/87	11/87*	5/88	5/88*	11/88	11/88
Laboratory:	ETC	SL	ETC SL	ETC	ETC	ETC	ETC	ETC	SL
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	239	240	584	5,690	5,460	4,680	8,440	5,110	8,500
2,4-Dichlorophenol	3,010	3,100	1,410	4,530	4,560	5,990	9,470	6,310	7,800
2,4-Dimethylphenol	<160	<100	<3.1	196	<160	180	209	<300	<100
4,6-Dinitro-o-cresol	<1,500	<500	<27	<1300	<1400	<240	<25	<2,700	<500
2,4-Dinitrophenol	<2,600	<500	<48	<2300	<2400	<420	<43	<4,700	<500
2-Nitrophenol	<220	<100	<4.1	<200	<210	<36	<3.7	<400	<100
4-Nitrophenol	<150	<500	<2.7	<130	<140	<24	<2.5	<270	<500
p-Chloro-m-cresol	<180	<100	<3.4	<160	<170	<30	<3.1	<330	<100
Pentachlorophenol	<220	<100	<4.1	<200	<210	<36	24	<400	<100
Phenol	1,880	210	<1.7	28,700	33,000	14,400	28,000	13,700	13,000
2,4,6-Trichlorophenol	1,420	1,300	880	992	922	1,250	1,580	1,120	1,300
Sub Total 1	6,549	4,850	2,874	40,108	43,942	26,500	47,723	26,240	30,600
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	<610	<100	<11	11,300	11,700	7,530	12,300	13,700	18
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	11,300	11,700	7,530	12,300	13,700	18,000
Total Acid Compounds Analyzed	6,549	4,850	2,874	51,408	55,642	34,030	60,023	39,940	48,600

Table 2 Summary of Acid Extractable Compounds in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-57C	GM-57C	GM-57C	GM-58A	GM-58A	GM-58A	GM-58A	GM-59A	GM-59A
Date:	3/89	11/89	11/89*	11/87	5/88	11/88	11/89	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	1,280	4,390	5,330	<3.4	<3.8	<3.4	<3.4	<3.4	<3.3
2,4-Dichlorophenol	4,260	8,750	9,710	<2.8	<3.1	<2.8	<2.8	<2.8	<2.7
2,4-Dimethylphenol	<28	192	200	<2.8	<3.1	<2.8	<2.8	<2.8	<2.7
4,6-Dinitro-o-cresol	<250	<290	<250	<24	<27	<25	<25	<24	<24
2,4-Dinitrophenol	<444	<500	<440	<43	<48	<43	<44	<43	<42
2-Nitrophenol	<38	<43	<38	<3.7	<4.1	<3.7	<3.8	<3.7	<3.6
4-Nitrophenol	<25	<29	<25	<2.4	<2.7	<2.5	<2.5	<2.4	<2.4
p-Chloro-m-cresol	<32	<36	<32	<3.1	<3.4	<3.1	<3.1	<3.1	<3.0
Pentachlorophenol	<38	<43	<38	<3.7	<4.1	<3.7	<3.8	<3.7	<3.6
Phenol	3,100	7,650	10,300	4.08	<1.7	<1.5	<1.6	<1.5	<1.5
2,4,6-Trichlorophenol	523	1,490	1,260	5.29	3.6	<2.8	9.13	<2.8	<2.7
Sub Total 1	9,163	22,472	26,800	9	4	0	9	0	0
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	4,310	5,360	3,630	<10	<11	NA	NA	<10	<10
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	4,310	5,360	3,630	0	0	0	0	0	0
Total Acid Compounds Analyzed	13,473	27,832	30,430	9	4	0	9	0	0

Table 1. Summary of Acid Extractable Compounds in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-59A	GM-59A	B-25A	B-26A	B-28A	GM-106	GM-106	GM-106	GM-106
Date:	11/88	11/89	3/87	3/87	3/87	12/86	5/87	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	<3.7	<3.5	116,000	10.3	10.5	26.5	58.7	174	261
2,4-Dichlorophenol	<3.0	<2.8	182,000	<2.7	<2.7	38.5	58.7	552	1,260
2,4-Dimethylphenol	<3.0	<2.8	1,620	<2.7	<2.7	<2.9	4.4	14.9	19.1
4,6-Dinitro-o-cresol	<27	<25	<13,000	<24	<24	<26	<24	<24	<25
2,4-Dinitrophenol	<47	<44	<24,000	<42	<42	<45	<42	<42	<43
2-Nitrophenol	<4.0	<3.8	<2,000	<3.6	<3.6	<3.8	<3.6	<3.6	<3.7
4-Nitrophenol	<2.7	<2.5	<1,300	<2.4	<2.4	<2.6	<2.4	<2.4	<2.5
p-Chloro-m-cresol	<3.3	<3.2	<1,700	<3	<3	<3.2	<3	<3.0	<3.1
Pentachlorophenol	<4.0	<3.8	<2,000	<3.6	<3.6	<3.8	<3.6	10.9	9.6
Phenol	<1.7	<1.6	403,000	5.4	<1.5	12.9	1.8	71.3	184
2,4,6-Trichlorophenol	<3.0	<2.8	25,900	<2.7	<2.7	52.1	82.2	667	1,070
Sub Total 1	0	0	728,520	16	11	130	206	1,490	2,804
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	183	NA
2-Methylphenol	NA	NA	<5,600	<10	<10	NA	NA	NA	NA
4-Methylphenol	NA	NA	47,000	<10	<10	NA	NA	NA	NA
Benzoic acid	NA	NA	50,800	<10	<10	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	<5,600	<10	<10	NA	NA	NA	NA
Sub Total 2	0	0	97,800	0	0	0	0	183	0
Total Acid Compounds Analyzed	0	0	826,320	16	11	130	206	1,673	2,804

Table 2 Summary of Acid Extractable Compounds in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-106	GM-106	P-1	P-1	P-2	P-3	P-6	P-7	P-7
Date:	11/88	11/89	3/87	11/87	11/87	11/87	11/87	12/86	5/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	266	<380	5.6	11.3	8.82	<3.3	<3.3	776	866
2,4-Dichlorophenol	884	1,290	<3.0	<2.7	<2.8	<2.7	<2.7	2,540	2,120
2,4-Dimethylphenol	<27	<310	<3.0	<2.7	<2.8	<2.7	<2.7	<2.7	<2.7
4,6-Dinitro-o-cresol	<240	<2800	<27	<24	<25	<24	<24	<24	<24
2,4-Dinitrophenol	<420	<4800	<47	<42	<43	<42	<42	<42	<42
2-Nitrophenol	<36	<410	<4.0	<3.6	<3.7	<3.6	<3.6	<3.6	<3.6
4-Nitrophenol	<24	<280	<2.7	<2.4	<2.5	<2.4	<2.4	68.6	<2.4
p-Chloro-m-cresol	<30	<340	<3.3	<3.0	<3.1	<3.0	<3.0	<3.0	<3.0
Pentachlorophenol	<36	<410	<4.0	<3.6	<3.7	<3.6	<3.6	<3.6	<3.6
Phenol	104	224	<1.7	<1.5	70.4	22.8	<1.5	9,410	8,930
2,4,6-Trichlorophenol	1,100	1,000	<3.0	<2.7	<2.8	<2.7	<2.7	599	602
Sub Total 1	2,354	2,514	6	11	79	23	0	13,394	12,518
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	NA	<1100	NA	12.7	<10	<10	<10	2,600	4,820
2-Methylphenol	NA	NA	<11	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	<11	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	<11	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	<11	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	13	0	0	0	2,600	4,820
Total Acid Compounds Analyzed	2,354	2,514	6	24	79	23	0	15,994	17,338

Table 2. Summary of Acid Extractable Compounds in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	P-7	P-7	P-7	P-7	P-7	P-7	P-8	P-8	P-8
Date:	3/87	11/87	5/88	11/88	3/89	11/89	12/86	5/87	11/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	1,660	331	1,590	982	580	2,550	NA	NA	1,330
2,4-Dichlorophenol	<30	748	7,960	5,490	1,910	7,090	NA	NA	413
2,4-Dimethylphenol	<30	<2.8	<3.1	<28	<28	<32	NA	NA	<54
4,6-Dinitro-o-cresol	<260	<24	<27	<250	<250	<280	NA	NA	<480
2,4-Dinitrophenol	<460	<43	<48	<430	<430	<490	NA	NA	<840
2-Nitrophenol	<40	<3.7	<4.1	<37	<37	<42	NA	NA	<72
4-Nitrophenol	130	18.2	79.5	<25	<25	<28	NA	NA	<48
p-Chloro-m-cresol	<33	<3.1	<3.4	<31	<31	<35	NA	NA	<60
Pentachlorophenol	<40	<3.7	<4.1	<37	[illegible]	<42	NA	NA	<72
Phenol	11,400	3,090	19,000	7,410	6,750	21,500	NA	NA	10,400
2,4,6-Trichlorophenol	2170	336	2820	3,180	509	3,810	NA	NA	112
Sub Total 1	15,360	4,523	31,450	17,062	9,749	34,950	0	0	12,255
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	NA	4,650	5,660	2,130	2,650	<120	<11	<11	3,82[illegible]
2-Methylphenol	<110	NA	NA	NA	NA	NA	NA	NA	N[illegible]
4-Methylphenol	<110	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	1,720	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	<110	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	1,720	4,650	5,660	2,130	2,650	0	0	0	3,820
Total Acid Compounds Analyzed	17,080	9,173	37,110	19,192	12,399	34,950	0	0	16,075

Table 2 Summary of Acid Extractable Compounds in Ground water, Krummrich Plant, Sauget Illinois

Well Number:	P-8	P-8	P-8	P-8	P-10	P-11	P-11	P-12	P-13
Date:	5/88	11/88	3/89	11/89	11/87	3/87	11/87	11/87	11/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L									
2-Chlorophenol	5,290	8,100	6,450	10,700	22.4	<3.6	<3.4	45.7	3.80
2,4-Dichlorophenol	3,880	4,450	3,680	9,780	<2.7	<3.0	<2.8	<2.7	<2.7
2,4-Dimethylphenol	410	318	<1400	<1500	9.64	<3.0	<2.8	32.7	<2.7
4,6-Dinitro-o-cresol	<2,600	<2,400	<12000	<14000	<24	<26	<25	<24	<24
2,4-Dinitrophenol	<4,500	<4,300	<21000	<24000	<42	<46	<43	<42	<42
2-Nitrophenol	<380	<370	<1800	<2000	<3.6	<4.0	<3.7	<3.6	<3.6
4-Nitrophenol	<260	<240	<1200	<1400	<2.4	<2.6	<2.5	<2.4	<2.4
p-Chloro-m-cresol	<320	<310	<1500	<1700	<3.0	<3.3	<3.1	<3.0	<3.0
Pentachlorophenol	<380	<370	<1800	<2000	<3.6	<4.0	<3.7	<3.6	<3.6
Phenol	38,700	6,080	8,490	29,200	69.3	5.1	<1.5	2,680	<1.5
2,4,6-Trichlorophenol	446	370	<1400	<1500	<2.7	<3	<2.8	<2.7	<2.7
Sub Total 1	48,726	19,318	18,620	49,680	101	5	0	2,758	4
Miscellaneous Acid Extractable Organic Compounds									
4-Chlorophenol	13,400	9,600	<5100	19400	2,330	NA	<10	3,380	<10
2-Methylphenol	NA	NA	<5100	NA	NA	<11	NA	NA	NA
4-Methylphenol	NA	NA	<5100	NA	NA	<11	NA	NA	NA
Benzoic acid	NA	NA	<5100	NA	NA	<11	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	<11	NA	NA	NA
Sub Total 2	13,400	9,600	0	19,400	2,330	0	0	3,380	0
Total Acid Compounds Analyzed	62,126	28,918	18,620	69,080	2,431	5	0	6,138	4

Table 2. Summary of Acid Extractable Compounds in Ground water, Krummrich Plant, Sauget, Illinois

Well Number:	P-14	Blank
Date:	11/87	3/87
Laboratory:	ETC	ETC
USEPA Priority Pollutant Acid Extractable Organic Compounds concentrations are in ug/L		
2-Chlorophenol	26.6	<3.5
2,4-Dichlorophenol	<3.0	<2.9
2,4-Dimethylphenol	<3.0	<2.9
4,6-Dinitro-o-cresol	<26	<26
2,4-Dinitrophenol	<46	<45
2-Nitrophenol	<4.0	<3.8
4-Nitrophenol	<2.6	<2.6
p-Chloro-m-cresol	<3.3	4.1
Pentachlorophenol	<4.0	<3.8
Phenol	<1..6	<1.6
2,4,6-Trichlorophenol	<3.0	<2.9
Sub Total 1	27	4
Miscellaneous Acid Extractable Organic Compounds		
4-Chlorophenol	12.9	NA
2-Methylphenol	NA	<11
4-Methylphenol	NA	<11
Benzoic acid	NA	<11
2,4,5-Trichlorophenol	NA	<11
Sub Total 2	13	0
Total Acid Compounds Analyzed	40	4

Table 3 Summary of Base Neutral Compounds in Ground Water, Kramer Plant, Badger, Louisiana

Well Number:	GM-17B	GM-17B	GM-17B	GM-17B	GM-17B	GM-17B	GM-17B	GM-17C	GM-17C
Date:	12/86	5/87	11/87	5/88	11/88	5/89	11/89	12/86	5/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
Acenaphthene	<2.1	<2.2	<2.0	<1.9	<2.3	<2.0	<2.0	<1.9	<190
Acenaphthylene	<3.8	<4.1	<3.6	<3.6	<4.2	<3.8	<3.7	<3.5	<350
Anthracene	<2.1	<2.2	<2.0	<1.9	<2.3	<2.0	<2.0	<1.9	<190
Benzidine	<48	<51	<45	<45	<52	<47	<46	<44	<4400
Benzo (a) anthracene	<8.5	<9.1	<8.0	<8.0	<9.3	<8.4	<8.2	<7.8	<790
Benzo (a) pyrene	<2.7	<2.9	<2.6	<2.6	<3.0	<2.7	<2.6	<2.5	<250
Benzo (b) fluoroanthene	<11	<12	<10	<4.9	<5.7	<5.2	<5.1	<10	<1000
Benzo (ghi) perylene	<4.5	<4.8	<4.2	<4.2	<4.9	<4.4	<4.3	<4.1	<410
Benzo (k) fluoranthene	<3.8	<4.1	<3.6	<2.6	<3.0	<2.7	<2.6	<3.5	<350
Bis (2-chloroethoxy) methane	<5.8	<6.2	<5.5	<5.4	<6.3	<5.7	<5.6	<5.3	<540
Bis (2-chloroethyl) ether	<6.2	<6.6	<5.9	<5.8	<6.8	<6.1	<6.0	<5.7	<580
Bis (2-chloroisopropyl) ether	<6.2	<6.6	<5.9	<5.8	<6.8	<6.1	<6.0	<5.7	<580
Bis (2-ethylhexyl) phthalate	<11	<12	<10	<10	48.9	<11	51.5	<10	<1000
4-Bromophenyl phenyl ether	<2.1	<2.2	<2.0	<1.9	<2.3	<2.0	<2.0	<1.9	<190
Butyl benzyl phthalate	<11	<12	<10	<10	<12	<11	<11	<10	<1000
2-Chloronaphthalene	<2.1	<2.2	<2.0	<1.9	<2.3	<2.0	<2.0	<1.9	<190
4-Chlorophenyl phenyl ether	<4.6	<4.9	<4.3	<4.3	<5.0	<4.5	<4.4	<4.2	<420
Chrysene	<2.7	<2.9	<2.6	<2.6	<3.0	<2.7	<2.6	<2.5	<250
Dibenzo (a,h) anthracene	<11	<12	<10	<10	<12	<11	<11	<10	<1000
1,2-Dichlorobenzene	2.6	<2.2	<2.0	<1.9	<2.3	9.48	10.8	102	<190
1,3-Dichlorobenzene	<2.1	<2.2	<2.0	<1.9	54.9	<2.0	<2.0	56.7	<190
1,4-Dichlorobenzene	50.8	32.6	26.5	12.4	5.44	74.5	80.5	653	2,120
3,3-Dichlorobenzidine	<18	<19	<17	<17	<20	<18	<17	<17	<1700
Diethyl phthalate	<11	<12	<10	<10	<12	<11	<11	<10	<1000
Dimethyl phthalate	<11	<12	<10	<10	<12	<11	<11	<10	<1000
Di-n-butyl phthalate	<11	17.3	<10	<10	<12	<11	<11	<10	<1000
2,4-Dinitrotoluene	<6.2	<6.6	<5.9	<5.8	<6.8	<6.1	<6.0	<5.7	<580
2,6-Dinitrotoluene	<2.1	<2.2	<2.0	<1.9	<2.3	<2.0	<2.0	<1.9	<190
Di-n-octyl phthalate	<11	<12	<10	<10	<12	<11	<11	<10	<1000
1,2-Diphenylhydrazine	<11	<12	<10	<10	<12	<11	<11	<10	<1000
Fluoranthene	<2.4	<2.6	<2.3	<2.2	<2.6	<2.4	<2.3	<2.2	<220
Fluorene	<2.1	<2.2	<2.0	<1.9	<2.3	<2.0	<2.0	<1.9	<190
Hexachlorobenzene	<2.1	<2.2	<2.0	<2.0	<2.3	<2.0	<2.0	<1.9	<190
Hexachlorobutadiene	<1	<1	<.93	<0.9	<1.1	<.97	<.95	<0.9	<91
Hexachlorocyclopentadiene	<11	<12	<10	<10	<12	<11	<11	<10	<1000
Hexachloroethane	<1.7	<1.9	<1.6	<1.6	<1.9	<1.7	<1.7	<1.6	<160
Indeno (1,2,3-c,d) pyrene	<5.1	<5.5	<4.8	<4.8	<5.6	<5.1	<4.9	<4.7	<470
Isophorone	<2.4	<2.6	<2.3	<2.2	<2.6	<2.4	<2.3	<2.2	<220
Naphthalene	<1.7	<1.9	<1.6	<1.6	<1.9	<1.7	<1.7	<1.6	<160
Nitrobenzene	<2.1	<2.2	<2.0	<1.9	<2.3	<2.0	<2.0	<1.9	<190
n-Nitrosodimethylamine	<11	<12	<10	<10	<12	<11	<11	<10	<1000
n-Nitrosodi-n-propylamine	<11	<12	<10	<10	<12	<11	<11	<10	<1000
n-Nitrosodiphenylamine	<2.1	<2.2	<2.0	<1.9	<2.3	<2.0	<2.0	<1.9	<190
Phenanthrene	<5.9	<6.3	<5.6	<5.5	<6.4	<5.8	<5.7	<5.4	<550
Pyrene	<2.1	<2.2	<2.0	<1.9	<2.3	<2.0	<2.0	<1.9	<190
1,2,4-Trichlorobenzene	<2.1	<2.2	<2.0	<1.9	<2.3	<2.0	<2.0	<1.9	<190
Sub Total 1	53	50	27	12	109	84	143	812	2,120

Table 1 Summary of Base Neutral Compounds in Ground water, Krumkill Plant, Bardet, Colorado

Well Number:	GM-17B	GM-17B	GM-17B	GM-17B	GM-17B	GM-17B	GM-17B	GM-17C	GM-17C
Date:	12/86	5/87	11/87	5/88	11/88	5/89	11/89	12/86	5/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Miscellaneous Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
1-Chloro-2-nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Chloro-4-Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-and 3,4-Dinitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA
Triphenyl phosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0	0
Total Base/Neutral Compounds	53	50	27	12	109	84	143	812	2,120

Table 1 Summary of Base Neutral Compounds in Ground water, Grumman Plant, Bethpage, Long Island

Well Number:	GM-17C	GM-17C	GM-17C	GM-17C	GM-17C	GM-27B	GM-27B	GM-27C	GM-27C
Date:	11/87	5/88	11/88	5/89	11/89	11/87	11/89	11/87	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
Acenapnthene	<40	<2.0	<19	<2.0	<2.0	<2.2	<210	<2.2	<2.2
Acenapthylene	<73	<3.6	<36	<3.7	<3.6	<4.0	<390	<4.0	<4.0
Anthracene	<40	<2.0	<19	<2.0	<2.0	<2.2	<210	<2.2	<2.2
Benzidine	<920	<46	<450	<46	<46	<50	<4900	<50	<51
Benzo (a) anthracene	<160	<8.1	<80	<8.2	<8.1	<8.9	<870	<8.9	<9.0
Benzo (a) pyrene	<52	<2.6	<26	<2.6	<2.6	<2.8	<280	6.33	<2.9
Benzo (b) fluoroanthene	<210	<5.0	<49	<5.1	<5.0	<11	<530	<11	<5.5
Benzo (ghi) perylene	<85	<4.3	<42	<4.3	<4.3	<4.7	<460	<4.7	<4.7
Benzo (k) fluoranthene	<73	<2.6	<26	<2.6	<2.6	<4.0	<280	9.51	<2.9
Bis (2-chloroethoxy) methane	<110	<5.5	<54	<5.6	<5.5	<6.0	<590	<6.0	<6.1
Bis (2-chloroethyl) ether	<120	<5.9	<58	<6.0	<5.9	<6.5	<630	<6.5	<6.6
Bis (2-chloroisopropyl) ether	<120	<5.9	<58	<6.0	<5.9	<6.5	<630	<6.5	<6.6
Bis (2-ethylhexyl) phthalate	<210	22.5	144	11	59.6	<11	<1100	<11	<
4-Bromophenyl phenyl ether	<40	<2.0	<19	<2.0	<2.0	<2.2	<210	<2.2	<2.2
Butyl benzyl phthalate	<210	<10	<100	<11	<10	<11	<1100	<11	<11
2-Chloronaphthalene	<40	<2.0	<19	<2.0	<2.0	<2.2	<210	<2.2	<2.2
4-Chlorophenyl phenyl ether	<87	<4.4	<43	<4.4	<4.4	<4.8	<470	<4.8	<4.8
Chrysene	<52	<2.6	<26	<2.6	<2.6	3.77	<280	8.73	<2.9
Dibenzo (a,h) anthracene	<210	<10	<100	<11	<10	<11	<1100	<11	<11
1,2-Dichlorobenzene	83.4	69.4	94.2	61.0	40.1	<2.2	<210	400	22.6
1,3-Dichlorobenzene	44.1	39.8	42.1	36.9	31.3	<2.2	<210	<2.2	3.36
1,4-Dichlorobenzene	1,370	1,070	1,190	304	475	397	617	65.1	94.5
3,3-Dichlorobenzidine	<340	<17	<170	<17	<17	<19.3	<1800	<19.3	<19
Diethyl phthalate	<210	<10	<100	<11	<10	<11	<1100	<11	<11
Dimethyl phthalate	<210	<10	<100	<11	<10	<11	<1100	<11	
Di-n-butyl phthalate	<210	<10	<100	<11	<10	<11	<1100	<11	
2,4-Dinitrotoluene	<120	<5.9	<58	<6.0	<5.9	<6.5	<630	<6.5	<6.6
2,6-Dinitrotoluene	<40	<2.0	<19	<2.0	<2.0	<2.2	<210	<2.2	<2.2
Di-n-octyl phthalate	<210	<10	<100	<11	<10	<11	<1100	<11	<11
1,2-Diphenylhydrazine	<210	<10	<100	<11	<10	<11	<1100	<11	<11
Fluoranthene	<46	<2.3	<22	<2.3	<2.3	6.58	<240	15.7	<2.5
Fluorene	<40	<2.0	<19	<2.0	<2.0	<2.2	<210	<2.2	<2.2
Hexachlorobenzene	<40	<2.0	<19	<2.0	<2.0	<2.2	<210	<2.2	<2.2
Hexachlorobutadiene	<19	<0.9	9.2	<9.5	<.94	<1.0	<100	<1.0	<1.0
Hexachlorocyclopentadiene	<210	<10	<100	<11	<10	<11	<1100	<11	<11
Hexachloroethane	<33	<1.7	<16	<1.7	<1.7	<1.8	<180	<1.8	<1.8
Indeno (1,2,3-c,d) pyrene	<98	<4.9	<48	<4.9	<4.9	<5.3	<520	<5.3	<5.4
Isophorone	<46	<2.3	<22	<2.3	<2.3	<2.5	<240	<2.5	<2.5
Naphthalene	<33	<1.7	<16	<1.7	<1.7	23.9	<180	4.55	3.92
Nitrobenzene	<40	<2.0	<19	<2.0	<2.0	<2.2	<210	<2.2	<2.2
n-Nitrosodimethylamine	<210	<10	<100	<11	<10	<11	<1100	<11	
n-Nitrosodi-n-propylamine	<210	<10	<100	<11	<10	<11	<1100	<11	<11
n-Nitrosodiphenylamine	<40	<2.0	<19	16.3	<2.0	2.84	<210	<2.2	<2.2
Phenanthrene	<110	<5.6	<55	<5.7	<5.6	<6.1	<600	<6.1	<6.2
Pyrene	<40	<2.0	<19	<2.0	<2.0	5.59	<210	13.9	<2.2
1,2,4-Trichlorobenzene	<40	<2.0	<19	<2.0	<2.0	<2.2	<210	<2.2	<2.2
Sub Total 1	1,498	1,202	1,480	429	606	440	617	524	124

Table 3 Summary of Base Neutral Compounds in Ground Water, Krumrich Plant, Sauget, Illinois

Well Number:	GM-17C	GM-17C	GM-17C	GM-17C	GM-17C	GM-27B	GM-27B	GM-27C	GM-27C
Date:	11/87	5/88	11/88	5/89	11/89	11/87	11/89	11/87	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Miscellaneous Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
1-Chloro-2-nitrobenzene	NA	NA	NA	NA	NA	NA	<1100	NA	79.8
1-Chloro-4-Nitrobenzene	NA	NA	NA	NA	NA	NA	<1100	NA	20.1
2,4-and 3,4-Dinitrochlorobenzene	NA	NA	NA	NA	NA	<11	<1100	<11	<11
2-Nitroaniline	NA	NA	NA	NA	NA	<11	<1100	<11	<11
4-Nitroaniline	NA	NA	NA	NA	NA	<11	<1100	<11	<11
2-Nitrochlorobenzene	NA	NA	NA	NA	NA	<11	NA	<11	NA
4-Nitrochlorobenzene	NA	NA	NA	NA	NA	<11	NA	<11	NA
4-Nitrodiphenylamine	NA	NA	NA	NA	NA	<11	<1100	<11	<11
Triphenyl phosphate	NA	NA	NA	NA	NA	<11	<1100	<11	<11
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	<1100	NA	<11
4-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	<1100	NA	<11
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	444,000	NA	869
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	444,000	0	969
Total Base/Neutral Compounds	1,498	1,202	1,480	429	606	440	444,617	526	1,093

Table 1 Summary of Base Neutral Compounds in Ground Water, Krumrich Plant, Sanger, Texas

Well Number:	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28C	GM-28C	GM-28C
Date:	12/86	5/87	11/87	5/88	3/89	11/89	12/86	5/87	11/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
Acenaphthene	NA	NA	<190	<120	<20	<21	NA	NA	<1.9
Acenapthylene	NA	NA	<350	<220	<36	<38	NA	NA	<3.5
Anthracene	NA	NA	<190	<120	<20	<21	NA	NA	<1.9
Benzidine	NA	NA	<4400	<2,700	<450	<480	NA	NA	<44
Benzo (a) anthracene	NA	NA	<790	<480	<80	<86	NA	NA	<7.8
Benzo (a) pyrene	NA	NA	<250	<150	<26	<27	NA	NA	<2.5
Benzo (b) fluoroanthene	NA	NA	<1000	<300	<49	<53	NA	NA	<10
Benzo (ghi) perylene	NA	NA	<410	<250	<42	<45	NA	NA	<4.1
Benzo (k) fluoranthene	NA	NA	<350	<150	<26	<27	NA	NA	<3.5
Bis (2-chloroethoxy) methane	NA	NA	<540	<330	<55	<58	NA	NA	<5.3
Bis (2-chloroethyl) ether	NA	NA	<580	<350	<59	<63	NA	NA	<5.7
Bis (2-chloroisopropyl) ether	NA	NA	<580	<350	<59	<63	NA	NA	<5.7
Bis (2-ethylhexyl) phthalate	NA	NA	<1000	<620	<100	<110	NA	NA	<10
4-Bromophenyl phenyl ether	NA	NA	<190	<120	<20	<21	NA	NA	<1.9
Butyl benzyl phthalate	NA	NA	<1000	<620	<100	<110	NA	NA	<10
2-Chloronaphthalene	NA	NA	<190	<120	<20	<21	NA	NA	<1.9
4-Chlorophenyl phenyl ether	NA	NA	<420	<260	<43	<46	NA	NA	<4.2
Chrysene	NA	NA	<250	<150	<26	<27	NA	NA	<2.5
Dibenzo (a,h) anthracene	NA	NA	<1000	<620	<100	<110	NA	NA	<10
1,2-Dichlorobenzene	NA	NA	3,830	4,560	3,380	6,770	NA	NA	3,040
1,3-Dichlorobenzene	NA	NA	<190	<120	<20	<21	NA	NA	<1.9
1,4-Dichlorobenzene	NA	NA	<440	338	200	378	NA	NA	193
3,3-Dichlorobenzidine	NA	NA	<1700	<1,000	<170	<180	NA	NA	47.
Diethyl phthalate	NA	NA	<1000	<620	<100	<110	NA	NA	<10
Dimethyl phthalate	NA	NA	<1000	<620	<100	<110	NA	NA	<10
Di-n-butyl phthalate	NA	NA	<1000	<620	<100	<110	NA	NA	<10
2,4-Dinitrotoluene	NA	NA	<580	<350	<59	<63	NA	NA	<5.7
2,6-Dinitrotoluene	NA	NA	<190	<120	<20	<21	NA	NA	<1.9
Di-n-octyl phthalate	NA	NA	<1000	<620	<100	<110	NA	NA	<10
1,2-Diphenylhydrazine	NA	NA	<1000	<620	<100	<110	NA	NA	<10
Fluoranthene	NA	NA	<220	<140	<23	<24	NA	NA	<2.2
Fluorene	NA	NA	<190	<120	<20	<21	NA	NA	<1.9
Hexachlorobenzene	NA	NA	<190	<120	<20	<21	NA	NA	<1.9
Hexachlorobutadiene	NA	NA	<91	<56	<9.3	<9.9	NA	NA	<.90
Hexachlorocyclopentadiene	NA	NA	<1000	<620	<100	<110	NA	NA	<10
Hexachloroethane	NA	NA	<160	<99	<16	<18	NA	NA	<1.6
Indeno (1,2,3-c,d) pyrene	NA	NA	<470	<290	<48	<52	NA	NA	<4.7
Isophorone	NA	NA	<220	<140	<23	<24	NA	NA	<2.2
Naphthalene	NA	NA	<160	<99	<16	<18	NA	NA	<1.6
Nitrobenzene	NA	NA	1,190	919	<20	<21	NA	NA	1.9
n-Nitrosodimethylamine	NA	NA	<1000	<620	<100	<110	NA	NA	<10
n-Nitrosodi-n-propylamine	NA	NA	<1000	<620	<100	<110	NA	NA	<10
n-Nitrosodiphenylamine	NA	NA	<190	<120	<20	<21	NA	NA	<1.9
Phenanthrene	NA	NA	<550	<330	<56	<59	NA	NA	<5.6
Pyrene	NA	NA	<190	<120	<20	<21	NA	NA	<1.9
1,2,4-Trichlorobenzene	NA	NA	<190	<120	<20	<21	NA	NA	<1.9
Sub Total 1	0	0	5,020	5,817	3,580	7,148	0	0	3,280

Table 3. Summary of Base Neutral Compounds in Ground Water, Krumrei Plant, Sauget, Illinois

Well Number:	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28C	GM-28C	GM-28C
Date:	12/86	5/87	11/87	5/88	3/89	11/89	12/86	5/87	11/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Miscellaneous Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
1-Chloro-2-nitrobenzene	NA	NA	NA	NA	8,660	222	NA	NA	NA
1-Chloro-4-Nitrobenzene	NA	NA	NA	NA	34,700	470	NA	NA	NA
2,4-and 3,4-Dinitrochlorobenzene	<11	<1100	<1000	<620	<100	<110	<11	<1300	<10
2-Nitroaniline	<11	<1100	<1000	<620	<100	<110	<11	<1300	<10
4-Nitroaniline	<11	<1100	<1000	<620	<100	<110	<11	<1300	<10
2-Nitrochlorobenzene	<11	<1100	13,100	17,900	NA	NA	<11	<1300	17,400
4-Nitrochlorobenzene	<11	<1100	28,800	43,800	NA	NA	<11	<1300	36,000
4-Nitrodiphenylamine	<11	<1100	<1000	<620	<100	<110	<11	<1300	56.3
Triphenyl phosphate	<11	<1100	<1000	<620	<100	<110	<11	<1300	<10
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	NA	<620	NA	<110	NA	NA	NA
4-Nitrobiphenyl	NA	NA	NA	<620	NA	<110	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	6,780	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0	0	41,900	61,700	43,360	7,472	0	0	53,456
Total Base/Neutral Compounds	0	0	46,920	67,517	46,940	14,620	0	0	56,736

Table 3 Summary of Base Neutral Compounds in Ground Water, Krumrei Plant, Sackett, Florida

Well Number:	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-31A	GM-31A	GM-31A	GM-31
Date:	5/88	11/88	3/89	3/89 *	11/89	12/86	12/86*	5/87	5/87*
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
Acenaphthene	<130	<2.2	<1900	<190	<2.2	<2.0	<2.2	<220	<210
Acenapthylene	<250	<4.0	<3600	<330	<4.1	<3.7	<4.0	<410	<390
Anthracene	<130	<2.2	<1900	<190	<2.2	<2.0	<2.2	<220	<210
Benzidine	<3,100	<50	<45000	<4400	<51	<47	<50	<5200	<4900
Benzo (a) anthracene	<550	<8.9	<8000	<780	<9.1	<8.3	<8.9	<920	<870
Benzo (a) pyrene	<180	<2.8	<2600	<250	<2.9	1	<2.9	<290	<280
Benzo (b) fluoroanthene	<340	<5.5	<4900	<480	<5.6	<11	<11	<1200	<1100
Benzo (ghi) perylene	<290	<4.7	<4200	<410	<4.8	<4.3	<4.7	<480	<460
Benzo (k) fluoranthene	<180	<2.8	<2600	<250	<2.9	<3.7	<4.0	<410	<390
Bis (2-chloroethoxy) methane	<370	<6.0	<5400	<530	<6.2	<5.6	<6.1	<620	<590
Bis (2-chloroethyl) ether	<400	<6.5	<5800	<570	<6.6	<6.0	<6.5	<670	<630
Bis (2-chloroisopropyl) ether	<400	<6.5	<5800	<570	<6.6	<6.0	<6.5	<670	<630
Bis (2-ethylhexyl) phthalate	<700	32.7	<10000	<1000	23.9	<11	<11	<1200	<1100
4-Bromophenyl phenyl ether	<130	<2.2	<1900	<190	<2.2	<2	<2.2	<220	<210
Butyl benzyl phthalate	<700	<11	<10000	<1000	<12	<11	<11	<1200	<1100
2-Chloronaphthalene	<130	<2.2	<1900	<190	<2.2	<2	<2.2	<220	<210
4-Chlorophenyl phenyl ether	<300	<4.8	<4300	<430	<4.9	<4.4	<4.8	<490	<470
Chrysene	<180	<2.8	<2600	<250	<2.9	<2.6	<2.9	<290	<280
Dibenzo (a,h) anthracene	<700	<11	<10000	<1000	<12	<11	<11	<1200	<1100
1,2-Dichlorobenzene	3,370	5,810	5,470	5,640	3,880	6.6	5.5	<220	<210
1,3-Dichlorobenzene	<130	11.1	<1900	<190	17.4	<2	<2.2	<220	<210
1,4-Dichlorobenzene	<310	199	<4500	<440	167	7.4	6	<520	<490
3,3-Dichlorobenzidine	<1,200	<19	<17000	<1700	<19	<17	<19	<1900	<180
Diethyl phthalate	<700	<11	<10000	<1000	<12	<11	<11	<1200	<11
Dimethyl phthalate	<700	<11	<10000	<1000	<12	<11	<11	<1200	<1100
Di-n-butyl phthalate	<700	<11	<10000	<1000	<12	<11	<11	<1200	<1100
2,4-Dinitrotoluene	<400	<6.5	<5800	<570	<6.6	<6.0	<6.5	<670	<630
2,6-Dinitrotoluene	<130	<2.2	<1900	<190	<2.2	<2.0	<2.2	<220	<210
Di-n-octyl phthalate	<700	<11	<10000	<1000	<12	<11	<11	<1200	<1100
1,2-Diphenylhydrazine	<700	<11	<10000	<1000	<12	<11	<11	<1200	<1100
Fluoranthene	<150	<2.5	<2200	<220	<2.6	<2.3	<2.5	<260	<240
Fluorene	<130	<2.2	<1900	<190	<2.2	<2.0	<2.2	<220	<210
Hexachlorobenzene	<130	<2.2	<1900	<190	<2.2	<2.0	<2.2	<220	<210
Hexachlorobutadiene	<63	<1.0	<920	<90	<1.0	<1.0	<1.0	<110	<100
Hexachlorocyclopentadiene	<700	<11	10000	<1000	<12	<11	<11	<1200	<1100
Hexachloroethane	<110	<1.8	<2600	<160	<1.9	<1.7	<1.8	<190	<180
Indeno (1,2,3-c,d) pyrene	<330	<5.3	<4800	<470	<5.5	<5	<5.4	<550	<520
Isophorone	<150	<2.5	<2200	<220	<2.6	<2.3	<2.5	<260	<240
Naphthalene	<110	<1.8	<1600	<160	2.91	<1.7	<1.8	<190	<180
Nitrobenzene	<130	9.81	<1900	210	<2.2	32.4	23.5	<220	<210
n-Nitrosodimethylamine	<700	<11	<10000	<1000	<12	<11	<11	<1200	<1100
n-Nitrosodi-n-propylamine	<700	<11	<10000	<1000	<12	<11	<11	<1200	<1100
n-Nitrosodiphenylamine	<130	<2.2	<1900	<190	<2.2	<2.0	<2.2	<220	<210
Phenanthrene	<380	<6.1	<5500	<540	<6.3	<5.7	<6.2	<640	<600
Pyrene	<130	<2.2	<1900	<190	<2.2	<2.0	<2.2	<220	<210
1,2,4-Trichlorobenzene	<130	138	<1900	<190	57.1	<2.0	<2.2	<220	<210
Sub Total 1	3,370	6,201	15,470	5,850	4,148	47	35	0	0

Table 3 Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, Sewaren, New Jersey

Well Number:	GM-4A	GM-4A	GM-4A	GM-4A	GM-4A	GM-4A	GM-4B	GM-4B	GM-4B	GM-4B
Date:	12/86	5/87	11/87	5/88	11/88	11/89	12/86	5/87	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.7	7.1	6.8	7.1	7.1	6.8	6.8	6.8	6.9	6.9
Spec. conductance (umhos/cm)	1,040	1,000	1,000	1,100	400	1,000	1,800	2,500	2,150	2,400
Temperature (deg. centigrade)	15	14	17	14	16	16	15	17	18	15
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4. Summary of Pesticide/PCB Compounds in Ground Water at Site R, Krummrich Plant, Sauget, Illinois.

Well Designation:	P-2	P-3	P-6	P-7	P-7	P-7	P-8	P-8	P-10
Date:	11/87	11/87	11/87	3/87	11/87	3/89	11/87	3/89	11/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Pesticide/PCB Compounds Concentrations are in ug/L									
Aldrin	<2.0	<1.9	<1.9	<2.1	<1.9	<20	<190	<970	<190
Alpha-BHC	<10	<10	<10	<11	<10	<100	<1000	<5100	<1000
Beta-BHC	<4.5	<4.4	<4.4	<4.8	<4.5	<43	<440	<2100	<440
Gamma-BHC	<10	<10	<10	<11	<10	<100	<1000	<5100	<1000
Delta-BHC	<3.2	<3.1	<3.1	<3.4	<3.2	<32	<310	<1600	<310
Chlordane	<10	<10	<10	<11	<10	<100	<1000	<5100	<1000
4,4'-DDT	<2.9	<2.8	<2.8	<3.1	<2.9	<29	<280	<1400	<280
4,4'-DDE	<5.8	<5.6	<5.6	<6.2	<5.7	<58	<560	<2900	<560
4,4'-DDD	<4.8	<4.7	<4.7	<5.2	<4.8	<48	<470	<2400	<470
Dieldrin	<2.6	<2.5	<2.5	<2.7	<2.6	<26	<250	<1300	<250
Endosulfan I	<10	<10	<10	<11	<10	<100	<1000	<5100	<1000
Endosulfan II	<10	<10	<10	<11	<10	<100	<1000	<5100	<1000
Endosulfan sulfate	<5.8	<5.6	<5.6	<6.2	<5.7	<58	<560	<2900	<570
Endrin	<10	<10	<10	<11	<10	<100	<1000	<5100	<1000
Endrin aldehyde	<10	<10	<10	<11	<10	<100	<1000	<5100	<1000
Heptachlor	<2.0	<1.9	<1.9	<2.1	<1.9	<20	<190	<970	<190
Heptachlor epoxide	<2.3	<2.2	<2.2	<2.4	<2.2	<23	<220	<1100	<220
PCB-1016	<37	<36	<36	<40	<37	<370	<3600	<18000	<3600
PCB-1221	<37	<36	<36	<40	<37	<370	<3600	<18000	<3600
PCB-1232	<37	<36	<36	<40	<37	<370	<3600	<18000	<3600
PCB-1242	<37	<36	<36	<40	<37	<370	<3600	<18000	<3600
PCB-1248	<37	<36	<36	<40	<37	<370	<3600	<18000	<3600
PCB-1254	<37	<36	<36	<40	<37	<370	<3600	<18000	<3600
PCB-1260	<37	<36	<36	<40	<37	<370	<3600	<18000	<3600
Toxaphene	<10	<10	<10	<11	<10	<100	<1000	<5100	<1000
Total Pesticide/PCB Compounds	0	0	0	0	0	0	0	0	0

NA Not analyzed.
* Replicate Analyses
ETC Environmental Testing and Certification, Edison, New Jersey.
SL Savannah Laboratories and Environmental Testing, Savannah, Georgia.

Table 4. Summary of Pesticide/PCB Compounds in Ground Water at Site R, Krummrich Plant, Sauget, Illinois.

Well Designation:	P-11	P-11	P-12	P-13	P-14	Field Blank
Date:	3/87	11/87	11/87	11/87	11/87	3/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Pesticide/PCB Compounds Concentrations are in ug/L						
Aldrin	<2.1	<2.0	<1.9	<1.9	<1.9	<2.0
Alpha-BHC	<11	<10	<10	<10	<10	<11
Beta-BHC	<4.8	<4.5	<4.4	<4.4	<4.4	<4.7
Gamma-BHC	<11	<10	<10	<10	<10	<11
Delta-BHC	<3.4	<3.2	<3.1	<3.1	<3.1	<3.3
Chlordane	<11	<10	<10	<10	<10	<11
4,4'-DDT	<3.1	<2.9	<2.8	<2.8	<2.8	<3.0
4,4'-DDE	<6.2	<5.8	<5.6	<5.6	<5.6	<6.0
4,4'-DDD	<5.2	<4.8	<4.7	<4.7	<4.7	<5.0
Dieldrin	<2.7	<2.6	<2.5	<2.5	<2.5	<2.7
Endosulfan I	<11	<10	<10	<10	<10	<11
Endosulfan II	<11	<10	<10	<10	<10	<11
Endosulfan sulfate	<6.2	<5.8	<5.6	<5.6	<5.6	<6
Endrin	<11	<10	<10	<10	<10	<11
Endrin aldehyde	<11	<10	<10	<10	<10	<11
Heptachlor	<2.1	<2.0	<1.9	<1.9	<1.9	<2.0
Heptachlor epoxide	<2.4	<2.3	<2.2	<2.2	<2.2	<2.3
PCB-1016	<40	<37	<36	<36	<36	<38
PCB-1221	<40	<37	<36	<36	<36	<38
PCB-1232	<40	<37	<36	<36	<36	<38
PCB-1242	<40	<37	<36	<36	<36	<38
PCB-1248	<40	<37	<36	<36	<36	<38
PCB-1254	<40	<37	<36	<36	<36	<38
PCB-1260	<40	<37	<36	<36	<36	<38
Toxaphene	<11	<10	<10	<10	<10	<11
Total Pesticide/PCB Compounds	0	0	0	0	0	0

NA Not analyzed.
* Replicate Analyses
ETC Environmental Testing and Certification, Edison, New Jersey.
SL Savannah Laboratories and Environmental Testing, Savannah, Georgia.

Table 4. Summary of Pesticide/PCB Compounds in Ground Water at Site R. Krummrich Plant, Sauget, Illinois.

Well Designation:	GM-55C	GM-55C	GM-56C	GM-56C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C
Date:	11/87	5/88	11/87	5/88	11/87	11/87*	5/88	5/88*	3/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Pesticide/PCB Compounds Concentrations are in ug/L									
Aldrin	<2.0	<45	<190	<120	<210	<220	<96	<98	<20
Alpha-BHC	<10	<240	<1000	<610	<1100	<1100	<510	<520	<110
Beta-BHC	<4.6	<99	<450	<260	<480	<510	<210	<220	<44
Gamma-BHC	<10	<240	<1000	<610	<1100	<1100	<510	<520	<110
Delta-BHC	<3.2	<73	<320	<190	<340	<360	<160	<160	<33
Chlordane	<10	<240	<1000	<610	<1100	<1100	<510	<520	<110
4,4'-DDT	<2.9	<66	<290	<170	<310	<320	<140	<140	<29
4,4'-DDE	<5.8	<130	<570	<340	<620	<640	<280	<290	<59
4,4'-DDD	<4.9	<110	<480	<290	<520	<540	<240	<240	<49
Dieldrin	<2.6	<59	<260	<150	<270	<290	<130	<130	<26
Endosulfan I	<10	<240	<1000	<610	<1100	<1100	<510	<520	<110
Endosulfan II	<10	<240	<1000	<610	<1100	<1100	<510	<520	<110
Endosulfan sulfate	<5.8	<130	<570	<340	<620	<640	<280	<290	<59
Endrin	<10	<240	<1000	<610	<1100	<1100	<510	<520	<110
Endrin aldehyde	<10	<240	<1000	<610	<1100	<1100	<510	<520	<110
Heptachlor	<2.0	<45	<190	<120	<210	<220	<96	<98	<20
Heptachlor epoxide	<2.3	<52	<220	<130	<240	<250	<110	<110	<23
PCB-1016	<38	<850	<3700	<2200	<4000	<4100	<1800	<1900	<380
PCB-1221	<38	<850	<3700	<2200	<4000	<4100	<1800	<1900	<380
PCB-1232	<38	<850	<3700	<2200	<4000	<4100	<1800	<1900	<380
PCB-1242	<38	<850	<3700	<2200	<4000	<4100	<1800	<1900	<380
PCB-1248	<38	<850	<3700	<2200	<4000	<4100	<1800	<1900	<380
PCB-1254	<38	<850	<3700	<2200	<4000	<4100	<1800	<1900	<380
PCB-1260	<38	<850	<3700	<2200	<4000	<4100	<1800	<1900	<380
Toxaphene	<10	<240	<1000	<610	<1100	<1100	<510	<520	<110
Total Pesticide/PCB Compounds	0	0	0	0	0	0	0	0	0

NA Not analyzed.
* Replicate Analyses
ETC Environmental Testing and Certification, Edison, New Jersey.
SL Savannah Laboratories and Environmental Testing, Savannah, Georgia.

Table 4. Summary of Pesticide/PCB Compounds in Ground Water at Site R, Krummrich Plant, Sauget, Illinois.

Well Designation:	GM-58A	GM-58A	GM-59A	GM-59A	B-25A	B-26A	B-28A	P-1	P-1
Date:	11/87	5/88	11/87	5/88	3/87	3/87	3/87	3/87	11/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Pesticide/PCB Compounds Concentrations are in ug/L									
Aldrin	<1.9	<2.2	<1.9	<1.9	<210	<2.1	<2.0	<2.1	<1.9
Alpha-BHC	<10	<11	<10	<10	<1,100	<11	<11	<11	<10
Beta-BHC	<4.5	<4.8	<4.5	<4.2	<490	<4.9	<4.7	<4.9	<4.4
Gamma-BHC	<10	<11	<10	<10	<1,100	<11	<11	<11	<10
Delta-BHC	<3.2	<3.5	<3.2	<3.1	<350	<3.4	<3.3	<3.4	<3.1
Chlordane	<10	<11	<10	<10	<1,100	<11	<11	<11	<10
4,4'-DDT	<2.9	<3.2	<2.9	<2.8	<310	<3.1	<3.0	<3.1	<2.8
4,4'-DDE	<5.7	<6.4	<5.7	<5.6	<630	<6.2	<6.0	<6.2	<5.6
4,4'-DDD	<4.8	<5.3	<4.8	<4.7	<530	<5.2	<5.1	<5.2	<4.7
Dieldrin	<2.6	<2.8	<2.6	<2.5	<280	<2.8	<2.7	<2.8	<2.5
Endosulfan I	<10	<11	<10	<10	<1,100	<11	<11	<11	<10
Endosulfan II	<10	<11	<10	<10	<1,100	<11	<11	<11	<10
Endosulfan sulfate	<5.7	<6.4	<5.7	<5.6	<630	<6.2	<6.0	<6.2	<5.6
Endrin	<10	<11	<10	<10	<1,100	<11	<11	<11	<10
Endrin aldehyde	<10	<11	<10	<10	<1,100	<11	<11	<11	<10
Heptachlor	<1.9	<2.2	<1.9	<1.9	<210	<2.1	<2.0	<2.1	<1.9
Heptachlor epoxide	<2.2	<2.5	<2.2	<2.2	<250	<2.4	<2.4	<2.4	<2.2
PCB-1016	<37	<41	<37	<36	<4,000	<40	<39	<40	<36
PCB-1221	<37	<41	<37	<36	<4,000	<40	<39	<40	<36
PCB-1232	<37	<41	<37	<36	<4,000	<40	<39	<40	<36
PCB-1242	<37	<41	<37	<36	<4,000	<40	<39	<40	<36
PCB-1248	<37	<41	<37	<36	<4,000	<40	<39	<40	<36
PCB-1254	<37	<41	<37	<36	<4,000	<40	<39	<40	<36
PCB-1260	<37	<41	<37	<36	<4,000	<40	<39	<40	<36
Toxaphene	<10	<11	<10	<10	<1,100	<11	<11	<11	<10
Total Pesticide/PCB Compounds	0	0	0	0	0	0	0	0	0

NA Not analyzed.
* Replicate Analyses
ETC Environmental Testing and Certification, Edison, New Jersey.
SL Savannah Laboratories and Environmental Testing, Savannan, Georgia.

Table 3. Summary of Base Neutral Compounds in Ground Water, Krumbich Plant, Sauget, Illinois

	Trip
Well Number:	Blank
Date:	3/87
Laboratory:	ETC
Miscellaneous Base/Neutral Extractable Organic Compounds concentrations are in ug/L	
1-Chloro-2-nitrobenzene	NA
1-Chloro-4-Nitrobenzene	NA
2,4-and 3,4-Dinitrochlorobenzene	NA
2-Nitroaniline	<11
4-Nitroaniline	<11
2-Nitrochlorobenzene	NA
4-Nitrochlorobenzene	NA
4-Nitrodiphenylamine	NA
Triphenyl phosphate	NA
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA
2-Nitrobiphenyl	NA
4-Nitrobiphenyl	<11
Benzyl alcohol	<11
Aniline	<11
4-Chloroaniline	<11
2-Methylnaphtalene	<11
N-nitroaniline	<11
Dibenzofuran	<11
Sub Total 2	0
Total Base/Neutral Compounds	0

Table 4. Summary of Pesticide/PCB Compounds in Ground Water at Site R, Krummrich Plant, Sauget, Illinois.

Well Designation:	GM-27B	GM-27C	GM-28B	GM-28B	GM-28C	GM-28C	GM-28C	GM-31A	GM-31A
Date:	11/87	11/87	11/87	3/89	11/87	3/89	3/89 *	11/87	11/87*
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Pesticide/PCB Compounds Concentrations are in ug/L									
Aldrin	<2.2	<2.2	<190	<20	<1.9	<1900	<190	<2.0	<2.0
Alpha-BHC	<11	<11	<1000	<100	<10	<10000	<1000	<10	<10
Beta-BHC	<5.0	<5.0	<440	<43	<4.4	<4300	<420	<4.6	<4.6
Gamma-BHC	<11	<11	<100	<100	<10	<10000	<1000	<10	<10
Delta-BHC	<3.5	<3.5	<310	<32	<3.1	<3200	<310	<3.2	<3.2
Chlordane	<11	<11	<1000	<100	<10	<10000	<1000	<10	<10
4,4'-DDT	<3.2	<3.2	<280	<29	<2.8	<2900	<280	<2.9	<2.9
4,4'-DDE	<6.4	<6.4	<570	<58	<5.6	<5700	<560	<5.8	<5.8
4,4'-DDD	<5.3	<5.3	<470	<48	<4.7	<4800	<470	<4.9	<4.9
Dieldrin	<2.8	<2.8	<250	<26	<2.5	<2600	<250	<2.6	<2.6
Endosulfan I	<11	<11	<1000	<100	<10	<10000	<1000	<10	<10
Endosulfan II	<11	<11	<1000	<100	<10	<10000	<1000	<10	<10
Endosulfan sulfate	<6.4	<6.4	<570	<58	<5.6	<5700	<560	<5.8	<5.8
Endrin	<11	<11	<1000	<100	<10	<10000	<1000	<10	<10
Endrin aldehyde	<11	<11	<1000	<100	<10	<10000	<1000	<10	<10
Heptachlor	<2.2	<2.2	<190	<20	<1.9	<1900	<190	<2.0	<2.0
Heptachlor epoxide	<2.5	<2.5	<220	<23	<2.2	<2200	<220	<2.3	<2.3
PCB-1016	<41	<41	<3600	<370	<36	<37000	<3600	<38	<38
PCB-1221	<41	<41	<3600	<370	<36	<37000	<3600	<38	<38
PCB-1232	<41	<41	<3600	<370	<36	<37000	<3600	<38	<38
PCB-1242	<41	<41	<3600	<370	<36	<37000	<3600	<38	<38
PCB-1248	<41	<41	<3600	<370	<36	<37000	<3600	<38	<38
PCB-1254	<41	<41	<3600	<370	<36	<37000	<3600	<38	<38
PCB-1260	<41	<41	<3600	<370	<36	<37000	<3600	<38	<38
Toxaphene	<11	<11	<1000	<100	<10	<10000	<1000	<10	<10
Total Pesticide/PCB Compounds	0	0	0	0	0	0	0	0	0

NA Not analyzed.
* Replicate Analyses
ETC Environmental Testing and Certification, Edison, New Jersey.
SL Savannah Laboratories and Environmental Testing, Savannah, Georgia.

Table [illegible] Summary of Base Neutral Compounds in Ground Water, Krumrich Plant, Sauget, Illinois

Well Number:	P-10	P-11	P-11	P-12	P-13	P-13	P-14	P-14	Field Blank
Date:	11/87	3/87	11/87	11/87	11/87	11/89	11/87	11/89	3/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Miscellaneous Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
1-Chloro-2-nitrobenzene	NA	NA	NA	NA	NA	<1100	NA	<10	NA
1-Chloro-4-Nitrobenzene	NA	NA	NA	NA	NA	<1100	NA	<10	NA
2,4-and 3,4-Dinitrochlorobenzene	<1000	NA	<10	<10	<10	<1100	<10	<10	NA
2-Nitroaniline	<1000	<11	<10	<10	<10	<1100	<10	<10	<11
4-Nitroaniline	<1000	<11	<10	<10	<10	<1100	<10	<10	<11
2-Nitrochlorobenzene	<1000	NA	<10	<10	<10	NA	<10	NA	NA
4-Nitrochlorobenzene	<1000	NA	<10	<10	<10	NA	<10	NA	NA
4-Nitrodiphenylamine	<1000	NA	<10	<10	<10	<1100	<10	<10	NA
Triphenyl phosphate	<1000	NA	<10	<10	<10	<1100	<10	<10	NA
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	NA	NA	NA	<1100	NA	<10	NA
4-Nitrobiphenyl	NA	<11	NA	NA	NA	<1100	NA	<10	<11
Benzyl alcohol	NA	<11	NA	NA	NA	NA	NA	NA	<11
Aniline	NA	<11	NA	NA	NA	685000	NA	11.2	<11
4-Chloroaniline	NA	4,020	NA	NA	NA	NA	NA	NA	<11
2-Methylnaphtalene	NA	<11	NA	NA	NA	NA	NA	NA	<11
N-nitroaniline	NA	<11	NA	NA	NA	NA	NA	NA	<11
Dibenzofuran	NA	<11	NA	NA	NA	NA	NA	NA	<11
Sub Total 2	0	4,020	0	0	0	685,000	0	11	0
Total Base/Neutral Compounds	449	4,108	117	2,042	32	685,000	58	67	0

Table 3 Summary of Base Neutral Compounds in Ground Water, Krumbach Plant, Sauget, Illinois

	Trip
Well Number:	Blank
Date:	3/87
Laboratory:	ETC
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds concentrations are in ug/L	
Acenaphthene	<2.1
Acenaphthylene	<3.9
Anthracene	<2.1
Benzidine	<49
Benzo (a) anthracene	<8.7
Benzo (a) pyrene	<2.8
Benzo (b) fluoroanthene	<11
Benzo (ghi) perylene	<4.6
Benzo (k) fluoranthene	<3.9
Bis (2-chloroethoxy) methane	<5.9
Bis (2-chloroethyl) ether	<6.3
Bis (2-chloroisopropyl) ether	<6.3
Bis (2-ethylhexyl) phthalate	<11
4-Bromophenyl phenyl ether	<2.1
Butyl benzyl phthalate	<11
2-Chloronaphthalene	<2.1
4-Chlorophenyl phenyl ether	<4.7
Chrysene	<2.8
Dibenzo (a,h) anthracene	<11
1,2-Dichlorobenzene	<2.1
1,3-Dichlorobenzene	<2.1
1,4-Dichlorobenzene	<4.9
3,3-Dichlorobenzidine	<18
Diethyl phthalate	<11
Dimethyl phthalate	<11
Di-n-butyl phthalate	<11
2,4-Dinitrotoluene	<6.3
2,6-Dinitrotoluene	<2.1
Di-n-octyl phthalate	<11
1,2-Diphenylhydrazine	<11
Fluoranthene	<2.4
Fluorene	<2.1
Hexachlorobenzene	<2.1
Hexachlorobutadiene	<1.0
Hexachlorocyclopentadiene	<11
Hexachloroethane	<1.8
Indeno (1,2,3-c,d) pyrene	<5.2
Isophorone	<2.4
Naphthalene	<1.8
Nitrobenzene	<2.1
n-Nitrosodimethylamine	<11
n-Nitrosodi-n-propylamine	<11
n-Nitrosodiphenylamine	<2.1
Phenanthrene	<6.0
Pyrene	<2.1
1,2,4-Trichlorobenzene	<2.1
Sub Total 1	0

Table 3 Summary of Base/Neutral Compounds in Ground Water, Krumrine Plant, Sauget, Illinois

Well Number:	GM-31A	GM-55C	GM-55C	GM-55C	GM-55C	GM-56C	GM-56C	GM-56C	GM-56C
Date:	11/89 *	11/87	5/88	11/88	11/89	11/87	5/88	11/88	11/88
Laboratory:	CRC-SL	ETC	ETC	ETC	ETC	ETC	ETC	ETC	SL
Miscellaneous Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
1-Chloro-2-nitrobenzene	175	NA	NA	NA	38,800	NA	NA	NA	NA
1-Chloro-4-Nitrobenzene	754	NA	NA	NA	66,700	NA	NA	NA	NA
2,4-and 3,4-Dinitrochlorobenzene	278	<10	<240	<1,100	<1200	<1000	<610	<610	<100
2-Nitroaniline	13.1	<10	<240	<1,100	<1200	<1000	<610	<610	<500
4-Nitroaniline	<10	<10	<240	<1,100	<1200	<1000	<610	<610	<500
2-Nitrochlorobenzene	NA	<10	2,980	41,700	NA	84,900	26,300	70,700	130,000
4-Nitrochlorobenzene	NA	14.6	1,140	74,600	NA	24,800	7,360	17,500	30,000
4-Nitrodiphenylamine	<10	<10	<240	<1,100	<1200	<1000	<610	<610	<200
Triphenyl phosphate	<10	<10	<240	<1,100	<1200	<1000	<610	<610	<100
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	291	NA	<240	NA	<1200	NA	<610	NA	NA
4-Nitrobiphenyl	<10	NA	<240	NA	<1200	NA	<610	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	1,220	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	1,511	15	4,120	116,300	106,720	109,700	33,660	88,200	160,000
Total Base/Neutral Compounds	1,678	78	5,124	120,330		111,270	34,540	89,683	161,340

Table 1 Summary of base neutrals compounds in ground water, Thompson Plant, Decatur, Illinois

Well Number:	P-10	P-11	P-11	P-12	P-13	P-13	P-14	P-14	Field Blank
Date:	11/87	3/87	11/87	11/87	11/87	11/89	11/87	11/89	3/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
Acenaphthene	<190	<2.1	[illegible]	<1.9	<1.9	<200	<1.9	<2.0	<2.0
Acenapthylene	<350	<3.8	[illegible].6	<3.5	<3.5	<370	<3.5	<3.6	<3.7
Anthracene	<190	<2.1	<2.0	<1.9	<1.9	<200	<1.9	<2.0	<2.0
Benzidine	<4400	<48	<45	<44	<44	<4600	<44	<45	<47
Benzo (a) anthracene	<790	<8.6	<8.0	<7.8	<7.8	<820	<7.8	<8.0	<8.3
Benzo (a) pyrene	<250	<2.7	<2.6	<2.5	<2.5	<260	<2.5	<2.6	<2.7
Benzo (b) fluoroanthene	<1000	<11	<10	<10	<10	<510	<10	<4.9	<11
Benzo (ghi) perylene	<410	<4.5	<4.2	<4.1	<4.1	<430	<4.1	<4.2	<4.4
Benzo (k) fluoranthene	<350	<3.8	<3.6	<3.5	<3.5	<260	<3.5	<2.6	<3.7
Bis (2-chloroethoxy) methane	<540	<5.8	<5.5	<5.3	<5.3	<560	<5.3	<5.5	<5.6
Bis (2-chloroethyl) ether	<580	<6.3	<5.9	<5.7	<5.7	<600	<5.7	<5.9	<6.1
Bis (2-chloroisopropyl) ether	<580	<6.3	<5.9	<5.7	<5.7	<600	<5.7	<5.9	<6.1
Bis (2-ethylhexyl) phthalate	<1000	<11	<10	<10	<10	<1100	<10	<10	<11
4-Bromophenyl phenyl ether	<190	<2.1	<2.0	<1.9	<1.9	<200	<1.9	<2.0	<2.0
Butyl benzyl phthalate	<1000	<11	<10	<10	<10	<1100	<10	<10	<11
2-Chloronaphthalene	<190	<2.1	<2.0	<1.9	<1.9	<200	<1.9	<2.0	<2.0
4-Chlorophenyl phenyl ether	<420	<4.6	<4.3	<4.2	<4.2	<440	<4.2	<4.3	<4.5
Chrysene	<250	<2.7	<2.6	<2.5	<2.5	<260	<2.5	<2.6	<2.7
Dibenzo (a,h) anthracene	<1000	<11	<10	<10	<10	<1100	<10	<10	<11
1,2-Dichlorobenzene	<190	5.4	6.00	1,790	<1.9	<200	22.0	20.7	<2.0
1,3-Dichlorobenzene	<190	<2.1	<2.0	<1.9	<1.9	<200	<1.9	<2.0	<2.0
1,4-Dichlorobenzene	449	82.3	111	252	22.5	<460	35.7	35.5	<4.7
3,3-Dichlorobenzidine	<1700	<18.7	<17	<17	<17	<1700	<17	<17	<18
Diethyl phthalate	<1000	<11	<10	<10	<10	<1100	<10	<10	<11
Dimethyl phthalate	<1000	<11	<10	<10	<10	<1100	<10	<10	<11
Di-n-butyl phthalate	<1000	<11	<10	<10	<10	<1100	<10	<10	<11
2,4-Dinitrotoluene	<580	<6.3	<5.9	<5.7	<5.7	<600	<5.7	<5.9	<6.1
2,6-Dinitrotoluene	<190	<2.1	<2.0	<1.9	<1.9	<200	<1.9	<2.0	<2.0
Di-n-octyl phthalate	<1000	<11	<10	<10	<10	<1100	<10	<10	<11
1,2-Diphenylhydrazine	<1000	<11	<10	<10	<10	<1100	<10	<10	<11
Fluoranthene	<220	<2.4	<2.3	<2.2	<2.2	<230	<2.2	<2.3	<2.3
Fluorene	<190	<2.1	<2.0	<1.9	<1.9	<200	<1.9	<2.0	<2.0
Hexachlorobenzene	<190	<2.1	<2.0	<1.9	<1.9	<200	<1.9	<2.0	<2.0
Hexachlorobutadiene	<91	<.99	<.93	<0.90	<0.90	<95	<0.90	<.93	<.96
Hexachlorocyclopentadiene	<1000	<11	<10	<10	<10	<1100	<10	<10	<11
Hexachloroethane	<160	<1.8	<1.6	<1.6	<1.6	<170	<1.6	<1.6	<1.7
Indeno (1,2,3-c,d) pyrene	<470	<5.2	<4.8	<4.7	<4.7	<490	<4.7	<4.8	<5.0
Isophorone	<220	<2.4	<2.3	<2.2	<2.2	<230	<2.2	<2.3	<2.3
Naphthalene	<160	<1.8	<1.6	<1.6	<1.6	<170	<1.6	<1.6	<1.7
Nitrobenzene	<190	<2.1	<2.0	<1.9	<1.9	<200	<1.9	<2.0	<2.0
n-Nitrosodimethylamine	<1000	<11	<10	<10	<10	<1100	<10	<10	<11
n-Nitrosodi-n-propylamine	<1000	<11	<10	<10	<10	<1100	<10	<10	<11
n-Nitrosodiphenylamine	<190	<2.1	<2.0	<1.9	9.00	<200	<1.9	<2.0	<2.0
Phenanthrene	<550	<5.9	<5.6	<5.4	<5.4	<570	<5.4	<5.6	<5.7
Pyrene	<190	<2.1	<2.0	<1.9	<1.9	<200	<1.9	<2.0	<2.0
1,2,4-Trichlorobenzene	<190	<2.1	<2.0	<1.9	<1.9	<200	<1.9	<2.0	<2.0
Sub Total 1	449	88	117	2,042	32	0	58	56	0

Table 3. Summary of Base Neutral Compounds in Ground water, Krumrine Plant, Sauget, Illinois

Well Number:	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A
Date:	11/87	11/87*	5/88	5/88*	11/88	11/88 *	11/88	11/88 *	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	SL	SL	~~ETC~~
Miscellaneous Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
1-Chloro-2-nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	200
1-Chloro-4-Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	798
2,4-and 3,4-Dinitrochlorobenzene	19,800	22,900	1,170	1,250	2,700	2,690	1,500	2,700	157
2-Nitroaniline	21.3	20.8	15.9	16.3	<530	<1,000	<500	<500	13.8
4-Nitroaniline	<10	<10	<10	<10	<530	<1,000	<500	<500	<10
2-Nitrochlorobenzene	4,190	4,460	2,400	723	596	<1,000	590	530	NA
4-Nitrochlorobenzene	8,330	9,130	2,480	2,330	3,200	5,510	3,700	3,000	NA
4-Nitrodiphenylamine	<10	<10	<10	<10	<530	<1,000	<200	<200	<10
Triphenyl phosphate	<10	<10	<10	<10	<530	<1,000	<100	<100	<10
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	<10	<10	<10	<10	<530	<1,000	280	230	274
4-Nitrobiphenyl	<10	<10	<10	<10	<530	<1,000	<100	<100	<10
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	32,341	36,511	6,066	4,319	6,496	8,200	6,070	6,460	1,443
Total Base/Neutral Compounds	32,684	36,849	6,187	4,430	6,956	8,200	6,360	6,710	1,630

Table 3 Summary of Base Neutral Compounds in Ground Water, Ammonia Plant, Sauget, Illinois

Well Number:	GM-31A	GM-55C	GM-55C	GM-55C	GM-55C	GM-56C	GM-56C	GM-56C	GM-56C
Date:	11/89 *	11/87	5/88	11/88	11/89	11/87	5/88	11/88	11/88
Laboratory:	CTL SL	ETC	ETC	ETC	ETC	ETC	ETC	ETC	SL
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
Acenaphthene	<2.0	<2.0	<45	<210	<230	<190	<120	<120	<100
Acenapthylene	<3.6	<3.6	<82	<390	<420	<360	<210	<210	<100
Anthracene	<2.0	<2.0	<45	<210	<230	<190	<120	<120	<100
Benzidine	<45	<46	<1,000	<4,900	<5300	<4500	<2700	<2700	<800
Benzo (a) anthracene	<8.0	<8.1	<180	<880	<940	<800	<480	<480	<100
Benzo (a) pyrene	<2.6	<2.6	<59	<280	<300	<260	<150	<150	<100
Benzo (b) fluoroanthene	<4.9	<10	<110	<540	<580	<1000	<290	<290	<100
Benzo (ghi) perylene	<4.2	<4.3	<96	<460	<490	<420	<250	<250	<100
Benzo (k) fluoranthene	<2.6	<3.6	<59	<280	<300	<360	<150	<150	<100
Bis (2-chloroethoxy) methane	<5.5	<5.5	<120	<600	<640	<540	<320	<320	<100
Bis (2-chloroethyl) ether	<5.9	5.9	<130	<640	<690	<580	<350	<350	<100
Bis (2-chloroisopropyl) ether	<5.9	5.9	<130	<640	<690	<580	<350	<350	<100
Bis (2-ethylhexyl) phthalate	<10	<10	<240	<1,100	<1200	<1000	<610	<610	<100
4-Bromophenyl phenyl ether	<2.0	<2.0	<45	<210	<230	<190	<120	<120	<100
Butyl benzyl phthalate	<10	<10	<240	<1,100	<1200	<1000	<610	<610	<100
2-Chloronaphthalene	<2.0	<2.0	<45	<210	<230	<190	<120	<120	<100
4-Chlorophenyl phenyl ether	<4.3	<4.4	<99	<470	<510	<430	<260	<260	<100
Chrysene	<2.6	<2.6	<59	<280	<300	<260	<150	<150	<100
Dibenzo (a,h) anthracene	<10	<10	<240	<1,100	<1200	<1000	<610	<610	<100
1,2-Dichlorobenzene	37.6	6.00	693	4,030	4,760	1,570	880	1,260	1,[illegible]
1,3-Dichlorobenzene	<2.0	<2.0	<45	<210	<230	<190	<120	<120	<100
1,4-Dichlorobenzene	15.0	38.7	311	<490	<530	<450	<270	<270	[illegible]
3,3-Dichlorobenzidine	<17	<17	<390	<1,900	<2000	<1700	<1040	<1000	
Diethyl phthalate	<10	<10	<240	<1,100	<1200	<1000	<610	<610	[illegible]
Dimethyl phthalate	<10	<10	<240	<1,100	<1200	<1000	<610	<610	<100
Di-n-butyl phthalate	<10	<10	<240	<1,100	<1200	<1000	<610	<610	<100
2,4-Dinitrotoluene	<5.9	<5.9	<130	<640	<690	<580	<350	<350	<100
2,6-Dinitrotoluene	<2.0	<2.0	<45	<210	<230	<190	<120	<120	<100
Di-n-octyl phthalate	<10	<10	<240	<1,100	<1200	<1000	<610	<610	<100
1,2-Diphenylhydrazine	<10	<10	<240	<1,100	<1200	<1000	<610	<610	<100
Fluoranthene	<2.3	4.21	<52	<250	<270	<220	<130	<130	<100
Fluorene	<2.0	<2.0	<45	<210	<230	<190	<120	<120	<100
Hexachlorobenzene	<2.0	<2.0	<45	<210	<230	<190	<120	<120	<100
Hexachlorobutadiene	<.93	<.94	<21	<100	<110	<92	<55	<55	<100
Hexachlorocyclopentadiene	<10	<10	<240	<1,100	<1200	<1000	<610	<610	<100
Hexachloroethane	<1.6	<1.7	<38	<180	<190	<160	<98	<98	<100
Indeno (1,2,3-c,d) pyrene	<4.8	<4.9	<110	<530	<570	<480	<290	<290	[illegible]
Isophorone	<2.3	<2.3	<52	<250	<270	<220	<130	<130	
Naphthalene	<1.6	<1.7	<38	<180	<190	<160	<98	<98	[illegible]
Nitrobenzene	114	<2.0	<45	<210	<230	<190	<120	223	220
n-Nitrosodimethylamine	<10	<10	<240	<1,100	<1200	<1000	<610	<610	[illegible]
n-Nitrosodi-n-propylamine	<10	<10	<240	<1,100	<1200	<1000	<610	<610	[illegible]
n-Nitrosodiphenylamine	<2.0	<2.0	<45	<210	<230	<190	<120	<120	<100
Phenanthrene	<5.6	<5.6	<130	<610	<650	<550	<330	<330	<100
Pyrene	<2.0	3.14	<45	<210	<230	<190	<120	<120	<100
1,2,4-Trichlorobenzene	<2.0	<2.0	<45	<210	<230	<190	<120	<120	<100
Sub Total 1	167	64	1,004	4,030	4,760	1,570	880	1,483	1,340

Table 1 Summary of Base/Neutral Compounds in Ground Water, Grumman Plant, Bethpage, New York

Well Number:	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-31A	GM-31A	GM-31A	GM-31A
Date:	5/88	11/88	3/89	3/89 *	11/89	12/86	12/86*	5/87	5/87*
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Miscellaneous Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
1-Chloro-2-nitrobenzene	NA	NA	20,500	26,300	238	NA	NA	NA.	NA
1-Chloro-4-Nitrobenzene	NA	NA	27,600	55,800	591	NA	NA	NA	NA
2,4-and 3,4-Dinitrochlorobenzene	<700	<11	<10000	<1000	<12	48,400	43,500	9,780	16,300
2-Nitroaniline	<700	21.9	<10000	<1000	<12	<11	<11	<1,200	<1,100
4-Nitroaniline	<700	<11	<10000	<1000	<12	<11	<11	<1,200	<1,100
2-Nitrochlorobenzene	15,400	23,700	NA	NA	NA	1,820	1,900	2,600	2,890
4-Nitrochlorobenzene	30,600	45,300	NA	NA	NA	4,910	4,450	4,770	5,700
4-Nitrodiphenylamine	<700	107	<10000	<1000	<12	<11	<11	<1,200	<1,100
Triphenyl phosphate	<700	<11	<10000	<1000	<12	<11	<11	<1,200	<1,100
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	<700	NA	NA	NA	<12	<11	<11	<1,200	<1,100
4-Nitrobiphenyl	<700	NA	NA	NA	<12	<11	<11	<1,200	<1,100
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	8,920	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	46,000	69,129	48,100	82,100	9,749	55,130	49,850	17,150	24,890
Total Base/Neutral Compounds	49,370	75,330	63,570	87,950	13,897	55,177	49,885	17,150	24,890

Table 1 Summary of Base/Neutral Compounds in Ground Water, Kramerian Plant, Sauget, Illinois

Well Number:	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A
Date:	11/87	11/87*	5/88	5/88*	11/88	11/88 *	11/88	11/88 *	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	SL	SL	ETC
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
Acenapnthene	<2	<2.0	<1.9	<2.0	<100	<200	<100	<100	<1.9
Acenapthylene	<3.6	<3.6	<3.5	<3.7	<190	<360	<100	<100	<3.6
Anthracene	<2	<2.0	<1.9	<2.0	<100	<200	<100	<100	<1.9
Benzidine	<46	<46	<44	<46	<2,300	<4,500	<800	<800	<45
Benzo (a) anthracene	<8.1	<8.1	<7.8	<8.2	<410	<800	<100	<100	<8.0
Benzo (a) pyrene	<2.6	<2.6	<2.5	<2.6	<130	<260	<100	<100	<2.6
Benzo (b) fluoroanthene	<10	<10	<4.8	<5.0	<260	<490	<100	<100	<4.9
Benzo (ghi) perylene	<4.3	<4.3	<4.1	<4.3	<220	<420	<100	<100	<4.2
Benzo (k) fluoranthene	<3.6	<3.6	<2.5	<2.6	<130	<260	<100	<100	<2.6
Bis (2-chloroethoxy) methane	<5.5	<5.5	<5.3	<5.5	<280	<550	<100	<100	<5.4
Bis (2-chloroethyl) ether	<5.9	<5.9	<5.7	<6.0	<300	<590	<100	<100	<5.8
Bis (2-chloroisopropyl) ether	<5.9	<5.9	<5.7	<6.0	<300	<590	<100	<100	<5.8
Bis (2-ethylhexyl) phthalate	<10	<10	<10	<10	<530	<1,000	<100	<100	<10
4-Bromophenyl phenyl ether	<2	<2.0	<1.9	<2.0	<100	<200	<100	<100	<1.9
Butyl benzyl phthalate	<10	<10	<10	<10	<530	<1,000	<100	<100	<10
2-Chloronaphthalene	<2	<2.0	<1.9	<2.0	<100	<200	<100	<100	<1.9
4-Chlorophenyl phenyl ether	<4.4	<4.4	<4.2	<4.4	<220	<430	<100	<100	<4.3
Chrysene	<2.6	<2.6	<2.5	<2.6	<130	<260	<100	<100	<2.6
Dibenzo (a,h) anthracene	<10	<10	<10	<10	<530	<1,000	<100	<100	<10
1,2-Dichlorobenzene	22.2	19.8	24.3	23.3	243	<200	<100	<100	42.8
1,3-Dichlorobenzene	<2	<2.0	<1.9	<2.0	<100	<200	<100	<100	<1.9
1,4-Dichlorobenzene	11.9	11.7	12.2	11.8	<230	<450	<100	<100	15.7
3,3-Dichlorobenzidine	<17	<17	<17	<17	<880	<1,700	<200	<200	<17
Diethyl phthalate	<10	<10	<10	<10	<530	<1,000	<100	<100	<10
Dimethyl phthalate	<10	<10	<10	<10	<530	<1,000	<100	<100	<10
Di-n-butyl phthalate	<10	<10	<10	<10	<530	<1,000	<100	<100	<10
2,4-Dinitrotoluene	<5.9	<5.9	<5.7	<6.0	<300	<590	<100	<100	<5.8
2,6-Dinitrotoluene	<2	<2.0	<1.9	<2.0	<100	<200	<100	<100	<1.9
Di-n-octyl phthalate	<10	<10	<10	<10	<530	<1,000	<100	<100	<10
1,2-Diphenylhydrazine	<10	<10	<10	<10	<530	<1,000	<100	<100	<10
Fluoranthene	<2.3	<2.3	<2.2	<2.3	<120	<230	<100	<100	<2.2
Fluorene	<2	<2.0	<1.9	<2.0	<100	<200	<100	<100	<1.9
Hexachlorobenzene	<2	<2.0	<1.9	<2.0	<100	<200	<100	<100	<1.9
Hexachlorobutadiene	<.94	<.94	<0.9	<0.9	<48	<93	<100	<100	<.92
Hexachlorocyclopentadiene	<10	<10	<10	<10	<530	<1,000	<100	<100	<10
Hexachloroethane	<1.7	<1.7	<1.6	<1.7	<85	<160	<100	<100	<1.6
Indeno (1,2,3-c,d) pyrene	<4.9	<4.9	<4.7	<4.9	<250	<480	<100	<100	<4.8
Isophorone	<2.3	<2.3	<2.2	<2.3	<120	<230	<100	<100	<2.2
Naphthalene	<1.7	<1.7	<1.6	<1.7	<85	<160	<100	<100	<1.5
Nitrobenzene	309	307	84.9	75.9	217	<200	290	250	129
n-Nitrosodimethylamine	<10	<10	<10	<10	<530	<1,000	<100	<100	<10
n-Nitrosodi-n-propylamine	<10	<10	<10	<10	<530	<1,000	<100	<100	<10
n-Nitrosodiphenylamine	<2	<2.0	<1.9	<2.0	<100	<200	<100	<100	<1.9
Phenanthrene	<5.6	<5.6	<5.4	<5.7	<290	<560	<100	<100	<5.5
Pyrene	<2	<2.0	<1.9	<2.0	<100	<200	<100	<100	<1.9
1,2,4-Trichlorobenzene	<2	<2.0	<1.9	<2.0	<100	<200	<100	<100	<1.9
Sub Total 1	343	339	121	111	460	0	290	250	188

Table 3 Summary of Metals and Miscellaneous Parameters in Ground Water, Ammerman Plant (cont'd)

Well Number:	GM-4B	GM-4B	GM-4B	GM-4C	GM-4C	GM-4C	GM-4C	GM-4C	GM-4C	GM-4C
Date:	11/88	5/89	11/89	12/86	5/87	11/87	5/88	11/88	5/89	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L. except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA		
Miscellaneous Parameters										
pH	7.6	NA	7.3	7.0	6.9	6.9	7.1	7.3	NA	8.1
Spec. conductance (umhos/cm)	1,800	NA	2,150	2,500	3,200	2,200	2,000	2,200	NA	1,700
Temperature (deg. centigrade)	15	15	16	14	17	18	14	15	15	16
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1 Summary of Detected Metals and Miscellaneous Parameters in Ground Water, Grumman Plant Area, Bethpage

Well Number:	GM-9A	GM-9A	GM-9A	GM-9A	GM-9A	GM-9A	GM-9B	GM-9B	GM-9B	GM-9
Date:	12/86	5/87	11/87	5/88	11/88	11/89	12/86	5/87	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	+	6.3	7.1	7.1	6.9	--	+	7.4	7.7	7.1
Spec. conductance (umhos/cm)	1,500	1,450	1,900	600	2,200	1,800	1,100	750	650	600
Temperature (deg. centigrade)	17	17	19	14	15	16	15	17	19	14
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5 Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-9B	GM-9B	GM-9C	GM-9C	GM-9C	GM-9C	GM-9C	GM-9C	GM-10A	GM-10A
Date:	11/88	11/89	12/86	5/87	11/87	5/88	11/88	11/89	12/86	5/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	7.2	--	+	6.8	7.5	7.6	7.2	--	6.7	6.7
Spec. conductance (umhos/cm)	500	900	1,650	1,300	800	600	900	550	1,100	1,100
Temperature (deg. centigrade)	15	16	15	17	18	14	15	17	15	17
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3 Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, Badger, Louisiana

Well Number:	GM-10A	GM-10A	GM-10A	GM-10A	GM-10B	GM-10B	GM-10B	GM-10B	GM-10B	GM-10
Date:	11/87	5/88	11/88	11/89	12/86	5/87	11/87	5/88	11/88	11/8
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L. except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.7	7.0	6.9	6.9	+	7.9	7.2	7.6	7.9	7.6
Spec. conductance (umhos/cm)	1,100	800	a	1,200	1,250	1,450	1,800	400	a	1,200
Temperature (deg. centigrade)	17	16	15	15	16	17	16	15	15	16
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3 Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, Badger, Louisiana

Well Number:	GM-10C	GM-10C	GM-10C	GM-10C	GM-10C	GM-10C	GM-12A	GM-12A	GM-12A	GM-12A
Date:	12/86	5/87	11/87	5/88	11/88	11/89	12/86	12/86*	5/87	5/87*
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	8.0	7.9	7.7	7.3	7.4	7.3	6.8	6.8	6.9	6.9
Spec. conductance (umhos/cm)	930	1,450	1,100	1,200	e	1,100	8,000	8,000	34,000	34,000
Temperature (deg. centigrade)	15	17	18	15	15	15	15	15	18	18
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2 Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-12A	GM-12A	GM-12A	GM-12A	GM-12A	GM-12A	GM-12B	GM-12B	GM-12B	GM-12
Date:	11/87	11/87*	5/88	11/88	5/89	11/89	12/86	5/87	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	7.1	7.1	6.7	9	8.2	--	7.2	7.5	7.1	7.2
Spec. conductance (umhos/cm)	37,000	37,000	35,000	>10,000	>10,000	8,000	1,380	1,150	1,350	1,000
Temperature (deg. centigrade)	17	17	15	14	15	15	15	16	16	13
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3 Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, Target Analytes

Well Number:	GM-12B	GM-12B	GM-12B	GM-12C	GM-12C	GM-12C	GM-12C	GM-12C	GM-12C	GM-12C
Date:	11/88	5/89	11/89	12/86	5/87	11/87	5/88	11/88	5/89	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	7.2	7.0	--	6.7	7.7	7.5	8.1	7.3	7.6	--
Spec. conductance (umhos/cm)	2,100	2,200	1,600	2,000	1,800	1,000	1,200	2,000	1,800	1,400
Temperature (deg. centigrade)	14	15	17	15	17	17	14	14	16	16
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1 Summary of Base/Neutral Compounds in Ground Water, Krummrich Plant, Sauget, Illinois.

Well Number:	GM-56C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-[illegible]
Date:	11/89	11/87	11/87*	5/88	5/88*	11/88	11/88	3/89	11/89
Laboratory:	CTC	ETC	ETC	ETC	ETC	ETC	SL	ETC	ETC
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
Acenapnthene	<2.2	<210	<220	<96	<98	<210	<100	<20	<23
Acenapthylene	<4.0	<380	<400	<180	<180	<390	<100	<37	<42
Anthracene	<2.2	<210	<220	<96	<98	<210	<100	<20	<23
Benzidine	<50	<4800	<5100	<2,200	<2,300	<4,900	<800	<460	<520
Benzo (a) anthracene	<8.9	<860	<900	<390	<400	<870	<100	<82	<93
Benzo (a) pyrene	<2.8	<270	<290	<130	<130	<280	<100	<26	<30
Benzo (b) fluoroanthene	<5.5	<1100	<1100	<240	<250	<530	<100	<51	<57
Benzo (ghi) peryiene	<4.7	<450	<470	<210	<210	<460	<100	<43	<49
Benzo (k) fluoranthene	<2.8	<380	<400	<130	<130	<280	<100	<26	<30
Bis (2-chloroethoxy) methane	<6.0	<580	<610	<270	<270	<590	<100	<56	<63
Bis (2-chloroethyl) ether	<6.5	<630	<660	<290	<290	<630	<100	<60	<68
Bis (2-chloroisopropyl) ether	<6.5	<630	<660	<290	<290	<630	<100	<60	<68
Bis (2-ethylhexyl) phthalate	<11	<1100	<1100	<510	<520	<1,100	<100	<110	<120
4-Bromophenyl phenyl ether	<2.2	<210	<220	<96	<98	<210	<100	<20	<23
Butyl benzyl phthalate	<11	<1100	<1100	<510	<520	<1,100	<100	<110	<120
2-Chloronaphthalene	<2.2	<210	<220	<96	<98	<210	<100	<20	<23
4-Chlorophenyl phenyl ether	<4.8	<460	<480	<210	<220	<470	<100	<44	<50
Chrysene	<2.8	<270	<290	<130	<130	<280	<100	<26	<30
Dibenzo (a,h) anthracene	<11	<1100	<1100	<510	<520	<1,100	<100	<110	<120
1,2-Dichlorobenzene	693	638	575	837	922	650	540	598	562
1,3-Dichlorobenzene	13.1	<210	<220	<96	<98	<210	<100	<20	<23
1,4-Dichlorobenzene	96.8	<480	<510	387	395	<490	320	298	413
3,3-Dichlorobenzidine	<19	<1800	<1900	<830	<850	<1,800	<200	<170	[illegible]
Diethyl phthalate	<11	<1100	<1100	<510	<520	<1,100	<100	<110	[illegible]
Dimethyl phthalate	<11	<1100	<1100	<510	<520	<1,100	<100	<110	<120
Di-n-butyl phthalate	<11	<1100	<1100	<510	<520	<1,100	<100	<110	<120
2,4-Dinitrotoluene	<6.5	<630	<660	<290	<290	<630	<100	<60	<68
2,6-Dinitrotoluene	<2.2	<210	<220	<96	<98	<210	<100	<20	<23
Di-n-octyl phthalate	<11	<1100	<1100	<510	<520	<1,100	<100	<110	<120
1,2-Diphenylhydrazine	<11	<1100	<1100	<510	<520	<1,100	<100	<110	<120
Fluoranthene	<2.5	<240	<250	<110	<110	<240	<100	<23	<26
Fluorene	<2.2	<210	<220	<96	<98	<210	<100	<20	<23
Hexachlorobenzene	<2.2	<210	<220	<96	<98	<210	<100	<20	<23
Hexachlorobutadiene	<1.0	<99	<100	<45	<46	<100	<100	<9.5	<11
Hexachlorocyclopentadiene	<11	<1100	<1100	<510	<520	<1,100	<100	<110	<120
Hexachloroethane	<1.8	<180	<180	<81	<82	<180	<100	<17	<19
Indeno (1,2,3-c,d) pyrene	<5.3	<520	<540	<240	<240	<520	<100	<49	<56
Isophorone	<2.5	<240	<250	<110	<110	<240	<100	<23	<26
Naphthalene	40.9	<180	<180	<81	<82	<180	<100	<17	35.5
Nitrobenzene	135	430	449	<96	<98	321	260	<20	579
n-Nitrosodimethylamine	<11	<1100	<1100	<510	<520	<1,100	<100	<110	[illegible]
n-Nitrosodi-n-propylamine	<11	<1100	<1100	<510	<520	<1,100	<100	<110	<120
n-Nitrosodiphenylamine	<2.2	<210	<220	<96	<98	<210	<100	<20	<23
Phenanthrene	<6.1	<590	<620	<270	<280	<600	<100	<57	<64
Pyrene	<2.2	<210	<220	<96	<98	<210	<100	<20	<23
1,2,4-Trichlorobenzene	39.8	<210	<220	<96	<98	<210	<100	<20	98.8
Sub Total 1	1,019	1,068	1,024	1,224	1,317	971	1,120	896	1,688

Table 2. Summary of Base/Neutral Compounds in Ground Water, Krumrich Plant, Sauget, Illinois

Well Number:	GM-56C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C
Date:	11/89	11/87	11/87*	5/88	5/88*	11/88	11/88	3/89	11/89
Laboratory:	ETC SL	ETC	ETC	ETC	ETC	ETC	SL	ETC	ETC
Miscellaneous Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
1-Chloro-2-nitrobenzene	68,800	NA	NA	NA	NA	NA	NA	112,000	109,000
1-Chloro-4-Nitrobenzene	17,000	NA	NA	NA	NA	NA	NA	33,900	21,400
2,4-and 3,4-Dinitrochlorobenzene	<11	<1100	<1100	<510	<520	<1,100	<100	<110	<120
2-Nitroaniline	<11	<1100	<1100	<510	<520	<1,100	<500	<110	<120
4-Nitroaniline	<11	<1100	<1100	<510	<520	<1,100	<500	<110	<120
2-Nitrochlorobenzene	NA	82,100	85,600	124,000	142,000	219,000	100,000	NA	NA
4-Nitrochlorobenzene	NA	21,400	21,700	25,800	30,600	40,500	31,000	NA	NA
4-Nitrodiphenylamine	<11	<1100	<1100	<510	<520	<1,100	<200	<110	<120
Triphenyl phosphate	<11	<1100	<1100	<510	<520	<1,100	<100	<110	<120
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	<11	<1100	<1100	<510	<520	NA	NA	NA	<120
4-Nitrobiphenyl	<11	<1100	<1100	<510	<520	NA	NA	NA	<120
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	34,300	NA	NA	NA	NA	NA	NA	NA	38,800
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	120,100	103,500	107,300	149,800	172,600	259,500	131,000	145,900	169,200
Total Base/Neutral Compounds	121,119	104,568	108,324	151,024	173,917	260,471	132,120	146,796	170,888

Table 3. Summary of Base Neutral Compounds in Ground Water, Krumrich Plant, Sauget, Illinois.

Well Number:	GM-57S	GM-58A	GM-58A	GM-58A	GM-58A	GM-59A	GM-59A	GM-59A	GM-59I
Date:	11/89	11/87	5/88	11/88	11/89	11/87	5/88	11/88	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
Acenaphthene	<20	<1.9	<2.2	<2.0	<2.0	<1.9	<1.9	<2.1	<2.0
Acenapthylene	<37	<3.6	<4.0	<3.6	<3.6	<3.6	<3.5	<3.9	<3.7
Anthracene	<20	<1.9	<2.2	<2.0	<2.0	<1.9	<1.9	<2.1	<2.0
Benzidine	<460	<45	<50	<45	<46	<45	<44	<49	<46
Benzo (a) anthracene	<82	<8.0	<8.9	<8.0	<8.1	<8.0	<7.8	<8.7	<8.2
Benzo (a) pyrene	<26	<2.6	<2.8	<2.6	<2.6	<2.6	<2.5	<2.8	<2.6
Benzo (b) fluoroanthene	<51	<10	<5.5	<4.9	<5.0	<10	<4.8	<5.3	<5.1
Benzo (ghi) perylene	<43	<4.2	<4.7	<4.2	<4.3	<4.2	<4.1	<4.6	<4.3
Benzo (k) fluoranthene	<26	<3.6	<2.8	<2.6	<2.6	<3.6	<2.5	<2.8	<2.6
Bis (2-chloroethoxy) methane	<56	<5.4	<6.0	<5.5	<5.5	<5.4	<5.3	<5.9	<5.6
Bis (2-chloroethyl) ether	<60	<5.8	<6.5	<5.9	<5.9	<5.8	<5.7	<6.3	<6.0
Bis (2-chloroisopropyl) ether	<60	<5.8	<6.5	<5.9	<5.9	<5.8	<5.7	<6.3	<6.0
Bis (2-ethylhexyl) phthalate	<110	<10	<11	<10	<10	<10	<10	<11	<11
4-Bromophenyl phenyl ether	<20	<1.9	<2.2	<2.0	<2.0	<1.9	<1.9	<2.1	<2.0
Butyl benzyl phthalate	<110	<10	<11	<10	<10	<10	<10	<11	<11
2-Chloronaphthalene	<20	<1.9	<2.2	<2.0	<2.0	<1.9	<1.9	<2.1	<2.0
4-Chlorophenyl phenyl ether	<44	<4.3	<4.8	<4.3	<4.4	<4.3	<4.2	<4.7	<4.4
Chrysene	<26	<2.6	<2.8	<2.6	<2.6	<2.6	<2.5	<2.8	<2.6
Dibenzo (a,h) anthracene	<110	<10	<11	<10	<10	<10	<10	<11	<11
1,2-Dichlorobenzene	591	<1.9	<2.2	<2.0	<2.0	<1.9	<1.9	<2.1	<2.0
1,3-Dichlorobenzene	<20	<1.9	<2.2	<2.0	<2.0	<1.9	<1.9	<2.1	<2.0
1,4-Dichlorobenzene	449	<4.5	<5.0	<4.5	<4.6	<4.5	<4.4	<4.9	<4.6
3,3-Dichlorobenzidine	<170	<17	<19	<17	<17	<17	<17	<18	<17
Diethyl phthalate	<110	<10	<11	<10	<10	<10	<10	<11	<1
Dimethyl phthalate	<110	<10	<11	<10	<10	<10	<10	<11	[illegible]
Di-n-butyl phthalate	<110	<10	<11	<10	<10	<10	<10	<11	<11
2,4-Dinitrotoluene	<60	<5.8	<6.5	<5.9	<5.9	<5.8	<5.7	<6.3	<6.0
2,6-Dinitrotoluene	<20	<1.9	<2.2	<2.0	<2.0	<1.9	<1.9	<2.1	<2.0
Di-n-octyl phthalate	<110	<10	<11	12.6	<10	<10	<10	<11	<11
1,2-Diphenylhydrazine	<110	<10	<11	<10	<10	<10	<10	<11	<11
Fluoranthene	<23	<2.2	<2.5	<2.3	<2.3	<2.2	<2.2	<2.4	<2.3
Fluorene	<20	<1.9	<2.2	<2.0	<2.0	<1.9	<1.9	<2.1	<2.0
Hexachlorobenzene	<20	<1.9	<2.2	<2.0	<2.0	<1.9	<1.9	<2.1	<2.0
Hexachlorobutadiene	<9.5	<.92	<1.0	<0.93	<.94	<.92	<0.9	<1.0	<.95
Hexachlorocyclopentadiene	<110	<10	<11	<10	<10	<10	<10	<11	<11
Hexachloroethane	<17	<1.6	<1.8	<1.6	<1.7	<1.6	<1.6	<1.8	<1.7
Indeno (1,2,3-c,d) pyrene	<49	<4.8	<5.3	<4.8	<4.9	<4.8	<4.7	<5.2	<4.9
Isophorone	<23	<2.2	<2.5	<2.3	<2.3	<2.2	<2.2	<2.4	<2.3
Naphthalene	34.9	<1.6	<1.8	<1.6	<1.7	<1.6	<1.6	<1.8	<1.7
Nitrobenzene	219	<1.9	<2.2	<2.0	3.30	<1.9	<1.9	<2.1	<2.0
n-Nitrosodimethylamine	<110	<10	<11	<10	<10	<10	<10	<11	<11
n-Nitrosodi-n-propylamine	<110	<10	<11	<10	<10	<10	<10	<11	<11
n-Nitrosodiphenylamine	<20	<1.9	<2.2	<2.0	<2.0	<1.9	<1.9	<2.1	<2.0
Phenanthrene	<57	<5.5	<6.1	5.6	<5.6	<5.5	<5.4	<6.0	<5.7
Pyrene	<20	<1.9	<2.2	<2.0	<2.0	<1.9	<1.9	<2.1	<2.0
1,2,4-Trichlorobenzene	95.7	<1.9	<2.2	<2.0	<2.0	<1.9	<1.9	<2.1	<2.0
Sub Total 1	1,390	0	0	18	3	0	0	0	0

Table 3. Summary of Base/Neutral Compounds in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-[redacted]	GM-58A	GM-58A	GM-58A	GM-[redacted]	GM-59A	GM-59A	GM-59A	GM-[redacted]
Date:	11/89 *	11/87	5/88	11/88	11/89	11/87	5/88	11/88	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Miscellaneous Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
1-Chloro-2-nitrobenzene	123,000	NA	NA	NA	13.8	NA	NA	NA	<11
1-Chloro-4-Nitrobenzene	21,200	NA	NA	NA	87.2	NA	NA	NA*	<11
2,4-and 3,4-Dinitrochlorobenzene	<110	31.0	<11	16.6	19.8	<10	<10	13.5	<11
2-Nitroaniline	<110	<10	<11	<10	<10	<10	<10	<11	<11
4-Nitroaniline	<110	<10	<11	<10	<10	<10	<10	<11	<11
2-Nitrochlorobenzene	NA	<10	14.1	12.9	NA	<10	<10	12	NA
4-Nitrochlorobenzene	NA	19.4	31.1	28.7	NA	<10	<10	27.2	NA
4-Nitrodiphenylamine	<110	<10	<11	<10	<10	<10	<10	<11	<11
Triphenyl phosphate	<110	<10	<11	<10	<10	<10	<10	<11	<11
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	<10	<11	<10	<10	<10	<10	<11	<11
4-Nitrobiphenyl	NA	<10	<11	<10	<10	<10	<10	<11	<11
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	44,800	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	189,000	50	45	58	121	0	0	53	0
Total Base/Neutral Compounds	190,390	50	45	76	124	0	0	53	0

Table 3 Summary of Base/Neutral Compounds in Ground Water, Krumrich Plant, Sauget, Illinois.

Well Number:	B-25A	B-26A	B-28A	GM-106	GM-106	GM-106	GM-106	GM-106	[redacted]
Date:	3/87	3/87	3/87	12/86	5/87	11/87	5/88	11/88	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
Acenaphthene	<210	<2.1	<2.0	<2.0	<1.9	<1.9	<39	<19	<220
Acenapthylene	<390	<3.9	<3.8	<3.7	<3.5	<3.5	<72	<35	<400
Anthracene	<210	<2.1	<2.0	<2.0	<1.9	<1.9	<39	<19	<220
Benzidine	<4,900	<49	<47	<47	<44	<44	<910	<440	<5100
Benzo (a) anthracene	<880	<8.7	<8.4	<8.3	<7.9	<7.8	<160	<79	<900
Benzo (a) pyrene	<280	<2.8	<2.7	<2.7	<2.5	<2.5	<52	<25	<290
Benzo (b) fluoroanthene	<1,100	<11	<11	<11	<10	<10	<99	<48	<550
Benzo (ghi) perylene	<460	<4.6	<4.4	<4.4	<4.1	<4.1	<85	<41	<470
Benzo (k) fluoranthene	<390	<3.9	<3.8	<3.7	<3.5	<3.5	<52	<25	<290
Bis (2-chloroethoxy) methane	<600	<5.9	<5.7	<5.6	<5.4	<5.3	<110	<54	<610
Bis (2-chloroethyl) ether	<640	<6.3	<6.1	<6.1	<5.8	<5.7	<120	<58	<660
Bis (2-chloroisopropyl) ether	<640	<6.3	<6.1	<6.1	<5.8	<5.7	<120	<58	<660
Bis (2-ethylhexyl) phthalate	<1,100	13.1	<11	<11	<10	<10	<210	<100	<1100
4-Bromophenyl phenyl ether	<210	<2.1	<2.0	<2	<1.9	<1.9	<39	<19	<220
Butyl benzyl phthalate	<1,100	<11	<11	<11	<10	<10	<210	<100	<1100
2-Chloronaphthalene	<210	<2.1	<2.0	<2	<1.9	<1.9	<39	<19	<220
4-Chlorophenyl phenyl ether	<470	<4.7	<4.5	<4.5	<4.2	<4.2	<87	<42	<480
Chrysene	<280	<2.8	<2.7	<2.7	<2.5	<2.5	<52	<25	<290
Dibenzo (a,h) anthracene	<1,100	<11	<11	<11	<10	<10	<210	<100	<1100
1,2-Dichlorobenzene	8,800	2.76	<2.0	2.7	6.4	56.6	85.8	126	<220
1,3-Dichlorobenzene	<210	<2.1	<2.0	<2	<1.9	<1.9	<39	<19	<220
1,4-Dichlorobenzene	<490	<4.9	<4.7	<4.7	<4.4	10.4	<91	<44	<510
3,3-Dichlorobenzidine	<1,900	<18	<18.3	<18	<17	<17.0	<340	<170	<1900
Diethyl phthalate	<1,100	<11	<11	<11	<10	<10	<210	<100	<1100
Dimethyl phthalate	<1,100	<11	<11	<11	<10	<10	<210	<100	<1100
Di-n-butyl phthalate	<1,100	<11	<11	<11	<10	<10	<210	<100	<1100
2,4-Dinitrotoluene	<640	<6.3	<6.1	<6.1	<5.8	<5.7	<120	<58	<660
2,6-Dinitrotoluene	<210	<2.1	<2.0	<2.0	<1.9	<1.9	<39	<19	<220
Di-n-octyl phthalate	<1,100	<11	<11	<11	<10	<10	<210	<100	<1100
1,2-Diphenylhydrazine	<1,100	<11	<11	<11	<10	<10	<210	<100	<1100
Fluoranthene	<250	<2.4	<2.4	<2.3	<2.2	<2.2	<45	<22	<250
Fluorene	<210	<2.1	<2.0	<2.0	<1.9	<1.9	<39	<19	<220
Hexachlorobenzene	<210	<2.1	<2.0	<2.0	<1.9	<1.9	<39	<19	<220
Hexachlorobutadiene	<100	<1.0	<.97	<1.0	<0.9	<0.90	<19	<9.1	<100
Hexachlorocyclopentadiene	<1,100	<11	<11	<11	<10	<10	<210	<100	<1100
Hexachloroethane	<180	<1.8	<1.7	<1.7	<1.6	<1.6	<33	<16	<180
Indeno (1,2,3-c,d) pyrene	<530	<5.2	<5.1	<5.0	<4.7	<4.7	<97	<47	<540
Isophorone	<250	<2.4	<2.4	<2.3	<2.2	<2.2	<45	<22	<250
Naphthalene	872	<1.8	<1.7	<1.7	2.7	6.35	<33	16.8	<180
Nitrobenzene	12,900	15.8	<2.0	<2.0	<1.9	19.8	<39	50.9	<220
n-Nitrosodimethylamine	<1,100	<11	<11	<11	<10	<10	<210	<100	<1100
n-Nitrosodi-n-propylamine	<1,100	<11	<11	<11	<10	<10	<210	<100	<1100
n-Nitrosodiphenylamine	<210	<2.1	<2.0	<2.0	<1.9	<1.9	<39	<19	<220
Phenanthrene	<610	<6.0	<5.8	<5.7	<5.5	<5.4	<110	<55	<620
Pyrene	<210	<2.1	<2.0	<2.0	<1.9	<1.9	<39	<19	<220
1,2,4-Trichlorobenzene	2,170	<2.1	<2.0	<2.0	<1.9	<1.9	<39	<19	<220
Sub Total 1	24,742	32	0	3	9	93	86	194	0

Table 3 Summary of Base/Neutral Compounds in Ground Water, Kramrich Plant, Sauget, Illinois.

Well Number:	B-25A	B-26A	B-28A	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106
Date:	3/87	3/87	3/87	12/86	5/87	11/87	5/88	11/88	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Miscellaneous Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
1-Chloro-2-nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	5,410
1-Chloro-4-Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	<1100
2,4-and 3,4-Dinitrochlorobenzene	NA	NA	NA	<11	<10	<10	<210	<100	<1100
2-Nitroaniline	1,160	<11	<11	<11	<10	<10	<210	<100	<1100
4-Nitroaniline	<1,100	<11	<11	<11	<10	<10	<210	<100	<1100
2-Nitrochlorobenzene	NA	NA	NA	1,450	2,670	59,900	5,050	99,000	NA
4-Nitrochlorobenzene	NA	NA	NA	172	452	9,950	795	14,300	NA
4-Nitrodiphenylamine	NA	NA	NA	<11	<10	<10	<210	<100	<1100
Triphenyl phosphate	NA	NA	NA	<11	<10	<10	<210	<100	<1100
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	<210	NA	<1100
4-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	<210	NA	<1100
Benzyl alcohol	1,830	<11	<11	NA	NA	NA	NA	NA	NA
Aniline	<1,000	20	<11	NA	NA	NA	NA	NA	3,420
4-Chloroaniline	5,380	710	<11	NA	NA	NA	NA	NA	NA
2-Methylnaphtalene	<1,000	<11	<11	NA	NA	NA	NA	NA	NA
N-nitroaniline	<1,000	<11	<11	NA	NA	NA	NA	NA	NA
Dibenzofuran	<1,000	<11	<11	NA	NA	NA	NA	NA	NA
Sub Total 2	8,370	730	0	1,622	3,122	69,850	5,845	113,300	8,830
Total Base/Neutral Compounds	33,112	762	0	1,625	3,131	69,943	5,931	113,494	8,830

Table 3 Summary of Base/Neutral Compounds in Ground Water, Krumrich Plant, Sauget, Illinois

Well Number:	P-1	P-1	P-2	P-3	P-3	P-6	P-6	P-7	P-7
Date:	3/87	11/87	11/87	11/89	11/87	11/87	11/89	3/87	12/86
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
Acenapnthene	<2.1	<1.9	<2.0	<21	<1.9	<1.9	<2.0	<2.1	<1.9
Acenapthylene	<3.9	<3.5	<3.6	<39	<3.5	<3.5	<3.6	<3.8	<3.5
Anthracene	<2.1	<1.9	<2.0	<21	<1.9	<1.9	<2.0	<2.1	<1.9
Benzidine	<49	<44	<45	<490	<44	<44	<46	<48	<44
Benzo (a) anthracene	<8.7	<7.8	<8.0	<87	<7.8	<7.8	<8.1	<8.6	<7.8
Benzo (a) pyrene	<2.8	<2.5	<2.6	<28	<2.5	<2.5	<2.6	<2.7	<2.5
Benzo (b) fluoroanthene	<11	<10	<10	<53	<10	<10	<5.0	<11	<4.8
Benzo (ghi) peryiene	<4.6	<4.1	<4.2	<46	<4.1	<4.1	<4.3	<4.5	<4.1
Benzo (k) fluoranthene	<3.9	<3.5	<3.6	<28	<3.5	<3.5	<2.6	<3.8	<2.5
Bis (2-chloroethoxy) methane	<5.9	<5.3	<5.5	<59	<5.3	<5.3	<5.5	<5.8	<5.3
Bis (2-chloroethyl) ether	<6.3	<5.7	<5.9	<63	<5.7	<5.7	<5.9	<6.3	<5.7
Bis (2-chloroisopropyl) ether	<6.3	<5.7	<5.9	<63	<5.7	<5.7	<5.9	<6.3	<5.7
Bis (2-ethylhexyl) phthalate	<11	<10	<10	<110	<10	<10	<10	<11	<2.5
4-Bromophenyl phenyl ether	<2.1	<1.9	<2.0	<21	<1.9	<1.9	<2.0	<2.1	<1.9
Butyl benzyl phthalate	<11	<10	<10	<110	<10	<10	<10	<11	<2.5
2-Chloronaphthalene	<2.1	<1.9	<2.0	<21	<1.9	<1.9	<2.0	940	<1.9
4-Chlorophenyl phenyl ether	<4.7	<4.2	<4.3	<47	<4.2	<4.2	<4.4	<4.6	<4.2
Chrysene	<2.8	<2.5	<2.6	<28	<2.5	<2.5	<2.6	<2.7	<2.5
Dibenzo (a,h) anthracene	<11	<10	<10	<110	<10	<10	<10	<11	<2.5
1,2-Dichlorobenzene	<2.1	2.54	4.59	769	<1.9	2.82	44.6	346	88.1
1,3-Dichlorobenzene	<2.1	2.11	<2.0	<21	<1.9	<1.9	<2.0	7.00	2
1,4-Dichlorobenzene	10.2	18.2	25.4	64.8	<4.4	<4.4	53.4	585	154
3,3-Dichlorobenzidine	<18	<17	<17	<180	<17	<17	<17	<18.7	
Diethyl phthalate	<11	<10	<10	<110	<10	<10	<10	<11	
Dimethyl phthalate	<11	<10	<10	<110	<10	<10	<10	<11	<1.6
Di-n-butyl phthalate	<11	<10	<10	<110	<10	<10	<10	<11	<2.5
2,4-Dinitrotoluene	<6.3	<5.7	<5.9	<63	<5.7	<5.7	<5.9	<6.3	<5.7
2,6-Dinitrotoluene	<2.1	<1.9	<2.0	<21	<1.9	<1.9	<2.0	<2.1	<1.9
Di-n-octyl phthalate	<11	<10	<10	<110	<10	<10	<10	<11	<2.5
1,2-Diphenylhydrazine	<11	<10	<10	<110	<10	<10	<10	<11	<10
Fluoranthene	<2.4	<2.2	<2.3	<24	<2.2	<2.2	<2.3	<2.4	<2.2
Fluorene	<2.1	<1.9	<2.0	<21	<1.9	<1.9	<2.0	<2.1	<1.9
Hexachlorobenzene	<2.1	<1.9	<2.0	<21	<1.9	<1.9	<2.0	<2.1	<1.9
Hexachlorobutadiene	<1.0	<0.90	<.93	<10	<0.90	<0.90	<.94	<.99	<0.9
Hexachlorocyclopentadiene	<11	<10	<10	<110	<10	<10	<10	<11	<10
Hexachloroethane	<1.8	<1.6	<1.6	<18	<1.6	<1.6	<1.7	<1.8	<1.6
Indeno (1,2,3-c,d) pyrene	<5.2	<4.7	<4.8	<52	<4.7	<4.7	<4.9	<5.2	<3.7
Isophorone	<2.4	<2.2	<2.3	<24	<2.2	<2.2	<2.3	<2.4	<2.2
Naphthalene	<1.8	<1.6	<1.6	<18	<1.6	<1.6	<1.7	7.95	<1.6
Nitrobenzene	<2.1	<1.9	<2.0	<21	<1.9	<1.9	<2.0	113	357
n-Nitrosodimethylamine	<11	<10	<10	<110	<10	<10	<10	<11	<10
n-Nitrosodi-n-propylamine	<11	<10	<10	<110	<10	<10	<10	<11	<10
n-Nitrosodiphenylamine	<2.1	<1.9	<2.0	<21	<1.9	<1.9	<2.0	<2.1	<1.9
Phenanthrene	<6.0	<5.4	<5.6	<60	<5.4	<5.4	<5.6	<5.9	<5.4
Pyrene	<2.1	<1.9	<2.0	<21	<1.9	<1.9	<2.0	<2.1	<1.9
1,2,4-Trichlorobenzene	<2.1	<1.9	<2.0	<21	<1.9	<1.9	<2.0	33.4	4.8
Sub Total 1	10	23	30	834	0	3	98	2,032	606

Table 3. Summary of Base/Neutral Compounds in Ground water, Krumrich Plant, Sauget, Illinois.

Well Number:	P-1	P-1	P-2	[redacted]	P-3	P-6	[redacted]	P-7	P-7
Date:	3/87	11/87	11/87	11/89	11/87	11/87	11/89	3/87	12/86
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Miscellaneous Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
1-Chloro-2-nitrobenzene	NA	NA	NA	<110	NA	NA	<10	NA	NA
1-Chloro-4-Nitrobenzene	NA	NA	NA	<110	NA	NA	<10	NA	NA
2,4-and 3,4-Dinitrochlorobenzene	NA	<10	<10	<110	<10	<10	<10	NA	<10
2-Nitroaniline	<11	<10	<10	<110	<10	<10	<10	<11	<10
4-Nitroaniline	<11	<10	<10	<110	<10	<10	<10	62.2	52
2-Nitrochlorobenzene	NA	<10	<10	NA	<10	<10	NA	NA	27,000
4-Nitrochlorobenzene	NA	<10	<10	NA	<10	<10	NA	NA	8,590
4-Nitrodiphenylamine	NA	<10	<10	<110	<10	<10	<10	NA	202
Triphenyl phosphate	NA	<10	<10	<110	<10	<10	<10	NA	<10
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	NA	<110	NA	NA	<10	NA	NA
4-Nitrobiphenyl	NA	NA	NA	<110	NA	NA	<10	NA	NA
Benzyl alcohol	<11	NA	NA	NA	NA	NA	NA	171	NA
Aniline	<11	NA	NA	35,000	NA	NA	10,200	6,360	NA
4-Chloroaniline	<11	NA	NA	NA	NA	NA	NA	15,000	NA
2-Methylnaphtalene	<11	NA	NA	NA	NA	NA	NA	<11	NA
N-nitroaniline	<11	NA	NA	NA	NA	NA	NA	<11	NA
Dibenzofuran	<11	NA	NA	NA	NA	NA	NA	<11	NA
Sub Total 2	0	0	0	35,000	0	0	10,200	21,593	35,844
Total Base/Neutral Compounds	10	23	30	35,834	0	3	10,298	23,626	36,450

Table 3 Summary of Base/Neutral Compounds in Ground Water, Krumrich Plant, Sauget, Illinois.

Well Number:	P-7	P-7	P-7	P-7	P-7	[illegible]	P-8	P-8	[illegible]
Date:	5/87	11/87	5/88	11/88	3/89	11/89	11/87	3/89	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
Acenapnthene	<38	<1.9	<220	<20	<20	<22	<190	<970	<1100
Acenapthylene	<70	<3.6	<400	<36	<36	<41	<350	<1800	<2000
Anthracene	<38	<1.9	<220	<20	<20	<22	<190	<970	<1100
Benzidine	<880	<45	<5000	<450	<450	<520	<4400	<22000	<25000
Benzo (a) anthracene	<160	<8.0	<890	<80	<80	<92	<790	<4000	<4400
Benzo (a) pyrene	<50	<2.6	<290	<26	<26	<29	<250	<1300	<1400
Benzo (b) fluoroanthene	<200	<10	<550	<49	<49	<56	<1000	<2400	<2700
Benzo (ghi) perylene	<82	<4.2	<470	<42	<42	<48	<410	<2100	<2300
Benzo (k) fluoranthene	<70	<3.6	<290	<26	<26	<29	<350	<1300	<1400
Bis (2-chloroethoxy) methane	<110	<5.4	<610	<55	<55	<62	<530	<2700	<3000
Bis (2-chloroethyl) ether	<110	<5.8	<650	<59	<59	<67	<570	<2900	<3200
Bis (2-chloroisopropyl) ether	<110	<5.8	<650	<59	<59	<67	<580	<2900	<3200
Bis (2-ethylhexyl) phthalate	<200	<10	<1,100	188	<100	<120	<1000	<5100	<5700
4-Bromophenyl phenyl ether	<38	<1.9	<220	<20	<20	<22	<190	<970	<1100
Butyl benzyl phthalate	<200	<10	<1,100	<100	<100	<120	<1000	<5100	<5700
2-Chloronaphthalene	<38	<1.9	<220	<20	<20	<22	<190	<970	<1100
4-Chlorophenyl phenyl ether	<84	<4.3	<480	<43	<43	<49	<420	<2100	<2400
Chrysene	<50	<2.6	<290	<26	<26	<29	<250	<1300	<1400
Dibenzo (a,h) anthracene	<200	<10	<1,100	<100	<100	<120	<1000	<5100	<5700
1,2-Dichlorobenzene	190	106	426	949	250	781	<190	<970	<1100
1,3-Dichlorobenzene	<38	2.29	<220	<20	<20	<22	<190	<970	<1100
1,4-Dichlorobenzene	321	148	797	1,580	441	1,350	<440	<2200	<2500
3,3-Dichlorobenzidine	<330	<17	<1,900	<175	<170	<190	<1700	<8400	[illegible]
Diethyl phthalate	<200	<10	<1,100	<100	<100	<120	<1000	<5100	[illegible]
Dimethyl phthalate	<200	<10	<1,100	<100	<100	<120	<1000	<5100	<5700
Di-n-butyl phthalate	<200	<10	<1,100	<100	<100	<120	<1000	<5100	<5700
2,4-Dinitrotoluene	<110	<5.8	<650	<59	<59	<67	<570	<2900	<3200
2,6-Dinitrotoluene	<38	<1.9	<220	<20	<20	<22	<190	<970	<1100
Di-n-octyl phthalate	<200	<10	<1,100	<100	<100	<120	<1000	<5100	<5700
1,2-Diphenylhydrazine	<200	<10	<1,100	<100	<100	<120	<1000	<5100	<5700
Fluoranthene	<44	<2.2	<250	<23	<23	<26	<220	<1100	<1200
Fluorene	<38	<1.9	<220	<20	<20	<22	<190	<970	<1100
Hexachlorobenzene	<38	<1.9	<220	<20	<20	<22	<190	<970	<1100
Hexachlorobutadiene	<18	<.92	<100	<9.3	<9.3	<11	<90	<460	<510
Hexachlorocyclopentadiene	<200	<10	<1,100	<100	<100	<120	<1000	<5100	<5700
Hexachloroethane	<32	<1.6	<180	<16	<16	<19	<160	<820	<910
Indeno (1,2,3-c,d) pyrene	<94	<4.8	<540	<48	<48	<55	<470	<2400	<2700
Isopherone	<44	<2.2	<250	<23	<23	<26	<220	<1100	<1200
Naphthalene	<32	<1.6	<180	<16	<16	<19	<160	<820	<910
Nitrobenzene	286	<1.9	6,770	516	473	1,760	<190	2,220	4,270
n-Nitrosodimethylamine	<200	<10	<1,100	<100	<100	<120	<1000	<5100	[illegible]
n-Nitrosodi-n-propylamine	<200	<10	<1,100	<100	<100	<120	<1000	<5100	<5700
n-Nitrosodiphenylamine	<38	<1.9	<220	<20	<20	<22	<190	<970	<1100
Phenanthrene	<110	<5.5	<620	<56	<56	<64	<540	<2800	<3100
Pyrene	<38	<1.9	<220	<20	<20	<22	<190	<970	<1100
1,2,4-Trichlorobenzene	<38	<1.9	<220	117	<20	46.6	<190	<970	<1100
Sub Total 1	797	256	7,991	3,350	1,164	3,938	0	2,220	4,270

Table 3. Summary of Base/Neutral Compounds in Ground Water, Krumrich Plant, Sauget, Illinois.

Well Number:	P-7	P-7	P-7	P-7	P-7	P-8	P-8	P-8	P-8
Date:	5/87	11/87	5/88	11/88	3/89	11/89	11/87	3/89	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Miscellaneous Base/Neutral Extractable Organic Compounds concentrations are in ug/L									
1-Chloro-2-nitrobenzene	NA	NA	NA	NA	62,600	357,000	NA	57,100	463,000
1-Chloro-4-Nitrobenzene	NA	NA	NA	NA	19,400	90,600	NA	14,200	185,000
2,4-and 3,4-Dinitrochlorobenzene	<200	<10	<1,100	NA	<100	<120	<1000	<5100	<5700
2-Nitroaniline	<200	<10	<1,100	NA	<100	<120	<1000	<5100	<5700
4-Nitroaniline	<200	11.3	<1,100	NA	<100	<120	<1000	<5100	<5700
2-Nitrochlorobenzene	40,800	22,400	64,900	NA	NA	NA	55,100	NA	NA
4-Nitrochlorobenzene	11,900	5,230	29,100	NA	NA	NA	32,400	NA	NA
4-Nitrodiphenylamine	<200	160	<1,100	NA	<100	627	<1000	<5100	<5700
Triphenyl phosphate	<200	<10	<1,100	NA	NA	<120	<1000	<5100	<5700
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	<1,100	NA	NA	<120	NA	NA	<5700
4-Nitrobiphenyl	NA	NA	<1,100	NA	NA	<120	NA	NA	<5700
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	<5100	NA
Aniline	NA	NA	NA	NA	NA	22,300	NA	155,000	522,000
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	49,100	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	52,700	27,801	94,000	0	82,000	470,527	87,500	275,400	1,170,000
Total Base/Neutral Compounds	53,497	28,058	101,991	3,350	83,164	474,465	87,500	277,620	1,174,270

Table 5. Summary of Metals and Miscellaneous Parameters in Ground water, Krummrich Plant, Sauget, Illinois

Well Number:	P-10	P-11	P-11	P-12	P-13	P-13	P-13	P-13	P-13	P-22
Date:	11/87	3/87	11/87	11/87	12/86	5/87	11/87	5/88	11/88	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	<.057	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	0.063	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	<.00052	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	<.0025	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	<.013	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	<.0052	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	<.0050	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	<.00022	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	<.0096	NA	NA	NA	NA	NA	NA	NA	
Selenium	NA	<.0050	NA	NA	NA	NA	NA	NA	NA	
Silver	NA	<.011	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	<.0050	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	0.040	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.9	7.7	6.9	6.9	7.2	6.9	6.9	6.9	6.7	6.4
Spec. conductance (umhos/cm)	1,550	1,000	1,300	1,680	1,700	1,100	1,300	1,800	3,700	--
Temperature (deg. centigrade)	16	11	17	15	13	15	16	13	15	15
Cyanide	0.029	<.025	<.025	0.027	NA	NA	<.025	NA	NA	
Phenols	NA	NA	NA	18.9	NA	NA	0.205	NA	NA	
Non-Priority Pollutant Metals										
Aluminum	NA	<.088	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	0.155	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	<.026	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	<.052	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	<.011	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	2.54	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	16.8	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	3.31	NA	NA	NA	NA	NA	NA	NA	NA

Table 5. Summary of Metals and Miscellaneous Parameters in Ground water, Krummrich Plant, Sauget, Illinois.

Well Number:	P-14	P-14	P-14	P-14	P-14	P-14	Field Blank
Date:	12/86	5/87	11/87	5/88	11/88	11/89	3/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)							
Antimony	NA	NA	NA	NA	NA	NA	<.057
Arsenic	NA	[illegible]	NA	NA	NA	NA	<.010
Beryllium	NA	NA	NA	NA	NA	NA	<.00052
Cadmium	NA	NA	NA	NA	NA	NA	<.0025
Chromium	NA	NA	NA	NA	NA	NA	<.013
Copper	NA	NA	NA	NA	NA	NA	<.0052
Lead	NA	NA	NA	NA	NA	NA	<.0050
Mercury	NA	NA	NA	NA	NA	NA	<.00022
Nickel	NA	NA	NA	NA	NA	NA	<.0096
Selenium	NA	NA	NA	NA	NA	NA	<.0050
Silver	NA	NA	NA	NA	NA	NA	<.011
Thallium	NA	NA	NA	NA	NA	NA	<.0050
Zinc	NA	NA	NA	NA	NA	NA	0.011
Miscellaneous Parameters							
pH	7.0	7.0	7.4	7.4	7.2	7.1	NA
Spec. conductance (umhos/cm)	2,500	2,650	2,750	2,400	3,400	--	NA
Temperature (deg. centigrade)	13	15	18	13	15	15	NA
Cyanide	NA	NA	<.025	NA	NA	NA	<.025
Phenols	NA	NA	0.160	NA	NA	NA	NA
Non-Priority Pollutant Metals							
Aluminum	NA	NA	NA	NA	NA	NA	<.088
Barium	NA	NA	NA	NA	NA	NA	0.0042
Cobalt	NA	NA	NA	NA	NA	NA	<.026
Tin	NA	NA	NA	NA	NA	NA	<.052
Vanadium	NA	NA	NA	NA	NA	NA	<.011
Boron	NA	NA	NA	NA	NA	NA	<.013
Iron	NA	NA	NA	NA	NA	NA	<.160
Manganese	NA	NA	NA	NA	NA	NA	0.015

Table 3 Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant Sewaget, Illinois

Well Number:	P-6	P-6	P-6	P-6	P-6A	P-7	P-7	P-7	P-7	P-7
Date:	5/87	11/87	5/88	11/88	11/89	12/86	5/87	3/87	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L. except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	<.057	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	0.011	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	<.00052	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	<.0025	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	<.013	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	<.0052	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	<.0050	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	<.00022	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	0.033	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	<.0050	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	<.011	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	<.0050	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	0.120	NA	NA
Miscellaneous Parameters										
pH	7.0	7.5	7.1	7.3	7.1	6.4	6.7	7.0	6.8	6.8
Spec. conductance (umhos/cm)	1,400	1,750	1,700	2,600	--	1,200	1,400	3,400	2,800	2,100
Temperature (deg. centigrade)	15	16	13	14	14	13	15	10	18	12
Cyanide	NA	<.025	NA	NA	NA	NA	NA	<.025	0.041	NA
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	<.088	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	0.027	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	0.140	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	<.052	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	0.022	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	34	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	22.4	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	14.8	NA	NA

Table 3 Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, Sauget, Illinois.

Well Number:	P-7	P-7	P-7	P-8	P-8	P-8	P-8	P-8	P-8	P-8
Date:	11/88	3/89	11/89	12/86	5/87	11/87	5/88	11/88	3/89	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	<60	NA	NA	NA	NA	NA	NA	<60	NA
Arsenic	NA	<10	NA	NA	NA	NA	NA	NA	<20	NA
Beryllium	NA	<1.0	NA	NA	NA	NA	NA	NA	<1.0	NA
Cadmium	NA	<2.0	NA	NA	NA	NA	NA	NA	<2.0	NA
Chromium	NA	<10	NA	NA	NA	NA	NA	NA	<10	NA
Copper	NA	<10	NA	NA	NA	NA	NA	NA	<10	NA
Lead	NA	<75	NA	NA	NA	NA	NA	NA	<75	NA
Mercury	NA	<0.20	NA	NA	NA	NA	NA	NA	<0.20	NA
Nickel	NA	<20	NA	NA	NA	NA	NA	NA	67	NA
Selenium	NA	<5.0	NA	NA	NA	NA	NA	NA	<5.0	NA
Silver	NA	<10	NA	NA	NA	NA	NA	NA	<10	NA
Thallium	NA	<10	NA	NA	NA	NA	NA	NA	<10	NA
Zinc	NA	67	NA	NA	NA	NA	NA	NA	41	NA
Miscellaneous Parameters										
pH	6.7	6.8	6.5	6.4	6.8	6.8	6.6	6.5	6.7	6.4
Spec. conductance (umhos/cm)	2,700	3,600	--	1,260	800	3,700	3,300	4,900	12,500	--
Temperature (deg. centigrade)	15	14	14	13	15	16	14	15	14	15
Cyanide	NA	41.5	NA	NA	NA	0.065	NA	NA	24.5	NA
Phenols	NA	<0.025	NA	NA	NA	NA	NA	NA	0.025	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA		NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA		NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA		NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA		NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA		NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA		NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA		NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA		NA

Table 5 Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, Sauget, Illinois.

Well Number:	GM-106	GM-106	GM-106
Date:	5/88	11/88	11/89
Laboratory:	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)			
Antimony	NA	NA	NA
Arsenic	NA	NA	NA
Beryllium	NA	NA	NA
Cadmium	NA	NA	NA
Chromium	NA	NA	NA
Copper	NA	NA	NA
Lead	NA	NA	NA
Mercury	NA	NA	NA
Nickel	NA	NA	NA
Selenium	NA	NA	NA
Silver	NA	NA	NA
Thallium	NA	NA	NA
Zinc	NA	NA	NA
Miscellaneous Parameters			
pH	8.5	7.7	9.6
Spec. conductance (umhos/cm)	1,000	1,500	--
Temperature (deg. centigrade)	15	15	15
Phenols	NA	NA	NA
Cyanide	NA	NA	NA
Non-Priority Pollutant Metals			
Aluminum	NA	NA	NA
Barium	NA	NA	NA
Cobalt	NA	NA	NA
Tin	NA	NA	NA
Vanadium	NA	NA	NA
Boron	NA	NA	NA
Iron	NA	NA	NA
Manganese	NA	NA	NA

Table 3 Summary of Metals and Miscellaneous Parameters in Ground water, Krummrich Plant, Sauget, Illinois.

Well Number:	P-1	P-1	P-2	P-2	P-2	P-2	P-2	P-2	P-3	P-5
Date:	3/87	11/87	12/86	5/87	11/87	5/88	11/88	11/89	11/87	12/86
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	<.057	NA	NA	NA	NA	NA	NA	NA	<.066	NA
Arsenic	0.042	NA	NA	NA	NA	NA	NA	NA	0.012	NA
Beryllium	<.00052	NA	NA	NA	NA	NA	NA	NA	<.00064	NA
Cadmium	<.0025	NA	NA	NA	NA	NA	NA	NA	<.0023	NA
Chromium	<.013	NA	NA	NA	NA	NA	NA	NA	<.015	NA
Copper	<.0052	NA	NA	NA	NA	NA	NA	NA	<.016	NA
Lead	<.0050	NA	NA	NA	NA	NA	NA	NA	<.063	NA
Mercury	<.00022	NA	NA	NA	NA	NA	NA	NA	<.00024	NA
Nickel	<.0096	NA	NA	NA	NA	NA	NA	NA	<.013	NA
Selenium	<.0050	NA	NA	NA	NA	NA	NA	NA	<.005	NA
Silver	<.011	NA	NA	NA	NA	NA	NA	NA	<.011	NA
Thallium	<.0050	NA	NA	NA	NA	NA	NA	NA	<.010	NA
Zinc	0.050	NA	NA	NA	NA	NA	NA	NA	0.062	NA
Miscellaneous Parameters										
pH	7.0	7.0	6.5	6.9	6.9	6.8	6.8	6.7	6.7	6.4
Spec. conductance (umhos/cm)	2,200	2,000	1,400	1,700	2,200	2,000	3,600	--	2,500	1,100
Temperature (deg. centigrade)	10	17	13	15	17	13	15	14	17	13
Cyanide	<.025	<.025	NA	NA	<.025	NA	NA	NA	<.025	NA
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	0.123	NA
Non-Priority Pollutant Metals										
Aluminum	<.088	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	0.257	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	<.026	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	<.052	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	<.011	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	4.16	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	16.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	2.64	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3 Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-59A	GM-59A	GM-59A	GM-59A	B-25A	B-26A	B-28A	GM-106	GM-106	[illegible]6
Date:	11/87	5/88	11/88	11/89	3/87	3/87	3/87	12/86	5/87	[illegible]7
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	<.110	<.076	NA	NA	NA	<.057	<.057	NA	NA	NA
Arsenic	<.010	<.010	NA	NA	NA	0.054	0.077	NA	NA	NA
Beryllium	<.00055	<.0004	NA	NA	NA	<.00052	<.00052	NA	NA	NA
Cadmium	<.0045	<.003	NA	NA	NA	<.0025	<.0025	NA	NA	NA
Chromium	<.026	0.043	NA	NA	NA	<.013	<.013	NA	NA	NA
Copper	<.013	<.008	NA	NA	NA	<.0052	<.0052	NA	NA	NA
Lead	<.083	<.052	NA	NA	NA	<.050	<.0050	NA	NA	NA
Mercury	<.0002	<.0002	NA	NA	NA	<.00022	<.00022	NA	NA	NA
Nickel	<.017	<.009	NA	NA	NA	<.0096	<.0096	NA	NA	NA
Selenium	<.005	<.005	NA	NA	NA	<.0050	<.0050	NA	NA	NA
Silver	<.023	<.006	NA	NA	NA	<.011	<.011	NA	NA	NA
Thallium	<.010	<.010	NA	NA	NA	<.0050	<.0050	NA	NA	NA
Zinc	2.15	2.51	NA	NA	NA	0.036	0.023	NA	NA	NA
Miscellaneous Parameters										
pH	7.2	7.2	7.3	6.9	NA	6.5	7.6	7.7	7.9	7.8
Spec. conductance (umhos/cm)	800	700	900	1,200	NA	2,300	2,800	1,475	1,150	1,400
Temperature (deg. centigrade)	13	14	15	14	NA	10	11	13	15	11
Phenols	<.050	<.050	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	<.025	<.025	NA	NA	0.035	<.025	<.025	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	<.088	<.088	NA	NA	NA
Barium	NA	NA	NA	NA	NA	0.171	0.110	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	<.026	<.026	NA	NA	NA
Tin	NA	NA	NA	NA	NA	<.052	<.052	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	<.011	<.011	NA	NA	NA
Boron	NA	NA	NA	NA	NA	21.2	29.1	NA	NA	NA
Iron	NA	NA	NA	NA	NA	39.5	30.1	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	4.65	8.74	NA	NA	NA

Table [illegible] Summary of Metals and Miscellaneous Parameters in Ground water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-58A	GM-58A	GM-58A	GM-58A
Date:	11/87*	5/88	5/88*	11/88	3/89	11/89	11/87	5/88	11/88	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	<.080	0.090	0.096	NA	<60	NA	<.110	<.076	NA	NA
Arsenic	<.010	<.010	<.010	NA	<10	NA	<.010	<.010	NA	NA
Beryllium	<.00078	<.0004	<.0004	NA	<1.0	NA	<.00055	<.0004	NA	NA
Cadmium	<.0055	<.003	<.003	NA	<2.0	NA	<.0045	<.003	NA	NA
Chromium	<.032	0.089	0.087	NA	<10	NA	<.026	0.050	NA	NA
Copper	<.012	<.008	<.008	NA	<10	NA	<.013	<.008	NA	NA
Lead	<.062	<.052	<.052	NA	<75	NA	<.083	<.052	NA	NA
Mercury	<.00020	<.0002	<.0002	NA	<0.20	NA	<.0002	<.0002	NA	NA
Nickel	0.029	0.032	0.030	NA	<20	NA	<.017	<.009	NA	NA
Selenium	<.005	<.005	<.005	NA	<5.0	NA	<.005	<.005	NA	NA
Silver	<.027	<.006	0.006	NA	<10	NA	<.023	<.006	NA	NA
Thallium	<.010	<.010	<.010	NA	<10	NA	<.010	<.010	NA	NA
Zinc	0.042	0.082	0.082	NA	87	NA	0.110	1.70	NA	NA
Miscellaneous Parameters										
pH	6.6	6.7	7.2	6.7	6.7	6.4	7.1	7.2	6.8	6.9
Spec. conductance (umhos/cm)	3,200	2,900	800	2,800	2,900	1,500	700	800	1,300	1,100
Temperature (deg. centigrade)	16	13	15	15	14	14	13	15	15	14
Phenols	71.5	45.8	49.6	NA	11.1	NA	0.144	<.050	NA	NA
Cyanide	0.037	<.025	<.025	NA	<0.025	NA	<.025	<.025	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3 Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-17A	GM-17A	GM-17A	GM-17A	GM-17A	GM-17A	GM-17B	GM-17B	GM-17B	GM
Date:	12/86	5/87	11/87	5/88	11/88	11/89	12/86	5/87	11/87	[illegible]
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	7.0	6.8	6.8	6.8	6.9	6.8	7.4	7.0	7.1	7.0
Spec. conductance (umhos/cm)	1,000	600	1,550	1,600	1,300	1,100	2,000	3,100	3,250	3,400
Temperature (deg. centigrade)	14	15	16	13	15	16	14	17	18	15
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3 Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, Sauget, Illinois

Well Number:	GM-31C	GM-55C	GM-55C	GM-55C	GM-55C	GM-56C	GM-56C	GM-56C	GM-56C	GM-57C
Date:	11/89	11/87	5/88	11/88	11/89	11/87	5/88	11/88	11/89	11/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	<.066	<.076	NA	NA	<.080	<.076	NA	NA	<.080
Arsenic	NA	<.010	0.012	NA	NA	<.010	<.010	NA	NA	<.010
Beryllium	NA	<.00064	<.0004	NA	NA	<.00078	<.0004	NA	NA	<.00078
Cadmium	NA	<.0023	<.003	NA	NA	<.0055	<.003	NA	NA	<.0055
Chromium	NA	<.015	0.056	NA	NA	<.032	0.050	NA	NA	<.032
Copper	NA	<.016	<.008	NA	NA	<.012	<.008	NA	NA	<.012
Lead	NA	<.063	<.052	NA	NA	<.062	<.052	NA	NA	<.062
Mercury	NA	<.00024	<.0002	NA	NA	<.00020	<.0002	NA	NA	<.00020
Nickel	NA	0.019	<.009	NA	NA	<.015	0.011	NA	NA	<.015
Selenium	NA	<.005	<.005	NA	NA	<.005	<.005	NA	NA	<.005
Silver	NA	<.011	<.006	NA	NA	<.027	<.006	NA	NA	<.027
Thallium	NA	<.010	<.010	NA	NA	<.010	<.010	NA	NA	<.010
Zinc	NA	<.020	0.035	NA	NA	0.100	0.034	NA	NA	0.037
Miscellaneous Parameters										
pH	7.3	7.0	7.1	7.2	6.7	6.8	6.8	6.9	6.8	6.6
Spec. conductance (umhos/cm)	800	1,400	1,200	1,500	--	1,200	2,100	2,200	--	3,200
Temperature (deg. centigrade)	15	17	13	15	15	15	13	15	15	16
Phenols	NA	0.167	2.6	NA	NA	17.0	10.4	NA	NA	74.5
Cyanide	NA	<.025	<.025	NA	NA	0.063	<.025	NA	NA	0.035
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table [illegible] Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, [illegible]

Well Number:	GM-31B	GM-31B	GM-31B	GM-31B	GM-31C	GM-31C	GM-31C	GM-31C	GM-31C	GM-31C
Date:	5/88	11/88	5/89	11/89	12/86	5/87	11/87	5/88	11/88	[illegible]
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.7	6.9	6.9	7.0	7.4	6.6	7.3	7.5	7.2	7.1
Spec. conductance (umhos/cm)	3,100	3,100	NA	2,750	1,275	1,800	1,100	1,000	1,500	NA
Temperature (deg. centigrade)	13	15	15	15	13	17	17	12	15	15
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2 Summary of Metals and Miscellaneous Parameters in Ground Water, Ammunition Plant, Target Document

Well Number:	GM-31A	GM-31A	GM-31A	GM-31A	GM-31B	GM-31B	GM-31B	GM-31B	GM-31B	GM-31B
Date:	11/87*	5/88	11/88	11/89	12/86	12/86*	5/87	5/87*	11/87	11/87*
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.6	6.8	6.9	6.9	6.8	6.8	7.7	7.7	6.7	6.7
Spec. conductance (umhos/cm)	1,200	1,000	1,400	700	2,200	2,200	1,000	1,000	3,200	3,200
Temperature (deg. centigrade)	17	13	15	15	13	13	17	17	17	17
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table . Summary of Metals and Miscellaneous Parameters in Ground Water, Grumman Plant, [illegible]

Well Number:	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-31A	GM-31A	GM-31A	GM-31A	GM-31A
Date:	5/88	11/88	3/89	3/89 *	11/89	12/86	12/86*	5/87	5/87*	[illegible]
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	[illegible]
USEPA Priority Pollutant Metals (concentrations are in mg/L. except where noted)										
Antimony	NA	NA	<60	<60	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	<50	<10	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	<1.0	<1.0	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	<2.0	<2.0	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	<10	<10	NA	NA	NA	NA	NA	NA
Copper	NA	NA	<10	<10	NA	NA	NA	NA	NA	NA
Lead	NA	NA	<75	<75	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	<0.20	<0.20	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	<20	<20	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	<5.0	<5.0	NA	NA	NA	NA	NA	NA
Silver	NA	NA	<10	<10	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	<10	<10	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	35	53	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.9	7.1	6.9	6.9	7.2	8.0	8.0	6.7	6.7	6.6
Spec. conductance (umhos/cm)	1,400	1,600	2,200	2,200	--	1,500	1,500	1,400	1,400	1,200
Temperature (deg. centigrade)	13	15	14	14	14	13	13	16	16	17
Phenols	NA	NA	3.07	2.84	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	<0.025	0.035	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table [illegible] Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, Gauget, [illegible]

Well Number:	GM-27C	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28C	GM-28C	GM-28C
Date:	11/89	12/86	5/87	11/87	5/88	3/89	11/89	12/86	5/87	11/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	<60	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	<1.0	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	<2.0	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	<75	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	<0.20	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	<20	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	<5.0	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	150	NA	NA	NA	NA
Miscellaneous Parameters										
pH	7.3	7.0	7.1	7.0	6.9	6.9	7.5	7.0	6.8	6.7
Spec. conductance (umhos/cm)	--	1,100	1,700	2,300	1,750	1,900	--	2,200	2,150	1,500
Temperature (deg. centigrade)	16	13	16	16	13	14	14	12	16	17
Phenols	NA	NA	NA	NA	NA	11.4	NA	NA	NA	NA
Cyanide	NA	NA	NA	0.027	NA	<0.025	NA	NA	NA	0.02[illegible]
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	N

Table [illegible] Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, [illegible]

Well Number:	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C
Date:	12/86	5/87	11/87	5/88	11/89	12/86	5/87	11/87	5/88	[illegible]
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	7.1	7.6	6.8	6.7	7	7.0	7.5	7.1	6.6	6.7
Spec. conductance (umhos/cm)	1,250	350	2,200	2,400	--	825	600	2,000	2,900	3,500
Temperature (deg. centigrade)	13	20	17	14	16	13	17	17	13	14
Phenols	NA	NA	0.602	NA	NA	NA	NA	0.364	NA	NA
Cyanide	NA	NA	<.025	NA	NA	NA	NA	<.025	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table [illegible] Summary of Metals and Miscellaneous Parameters in Ground Water, Krummrich Plant, [illegible]

Well Number:	GM-17B	GM-17B	GM-17B	GM-17C	GM-17C	GM-17C	GM-17C	GM-17C	GM-17C	GM-17C
Date:	11/88	5/89	11/89	12/86	5/87	11/87	5/88	11/88	5/89	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
USEPA Priority Pollutant Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	7.4	NA	7.6	7.2	7.2	7.5	7.2	7.2	NA	7.5
Spec. conductance (umhos/cm)	4,400	NA	2,900	3,500	3,000	4,000	3,000	2,000	NA	1,000
Temperature (deg. centigrade)	14	17	16	14	15	17	15	14	15	15
Phenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-Priority Pollutant Metals										
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Site R Groundwater Data
Pre-1992

NOTE: THE DATA PRESENTED IN THIS SECTION PERTAINS TO SAMPLES COLLECTED FROM SITE "R" PRIOR TO THE CONSENT ORDER SIGNED BY MONSANTO IN 1992. THIS DATA IS PRESENTED IN THE ORIGINAL REPORT FORMAT.

SOURCE: "Remedial Investigation at Sauget Site R", Monsanto Company, Sauget, Illinois, prepared by Geraghty & Miller, August 1994

VOLUME I
REMEDIAL INVESTIGATION
AT SAUGET SITE R
MONSANTO COMPANY, SAUGET, ILLINOIS

RECEIVED
JUL 31 1997
IEPA/BOL

August 1994

Prepared for

Monsanto Company
800 North Lindbergh Boulevard
St. Louis, Missouri 63167

Prepared by

Geraghty & Miller, Inc.
125 East Bethpage Road
Plainview, New York 11803
(516) 249-7600

SCREENED
M M

ORIGINAL

recycled paper
recycled paper

ecology and environment

APPENDIX A

HISTORICAL WATER-QUALITY DATA - 1984 THROUGH 1991

Well Number:	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B
Sample Date:	9/84**	11/85	2/86	12/86	5/87	11/87	5/88	11/89
Laboratory:	EEI	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	NA	<100	<100	<100	<100	<50,000	<10,000	<5000
Acrylonitrile	NA	<100	<100	<100	<100	<50,000	<10,000	<5000
Benzene	36	35.6	619	237	156	9,980	670	2,460
bis(Chloromethyl) ether	<1.5	<10	<10	<10	<10	<5,000	<1,000	<500
Bromoform	<3.2	<4.7	<4.7	<4.7	<4.7	<2,400	<470	<240
Carbon tetrachloride	<1.5	<2.8	<2.8	<2.8	<2.8	<1,400	<280	<140
Chlorobenzene	80	143	459	383	193	60,200	2,940	10,500
Chlorodibromomethane	<2.0	<3.1	<3.1	<3.1	<3.1	<1,600	<310	<160
Chloroethane	<2.4	<10	<10	<10	<10	<5,000	<1,000	<500
2-Chloroethylvinyl ether	<5.9	<10	<10	<10	<10	<5,000	<1,000	<500
Chloroform	<0.8	<1.6	<1.6	<1.6	<1.6	<800	<160	<80
Dichlorobromomethane	<1.1	<2.2	<2.2	<2.2	<2.2	<1,100	<220	<110
Dichlorodifluoromethane	NA	<10	<10	<10	<10	<5,000	<1,000	<500
1,1-Dichloroethane	<0.8	<4.7	<4.7	<4.7	<4.7	<2,400	<470	<240
1,2-Dichloroethane	<1.5	<2.8	<2.8	<2.8	<2.8	<1,400	<280	<140
1,1-Dichloroethene	<1.9	<2.8	<2.8	<2.8	<2.8	<1,400	<280	<140
1,2-Dichloropropane	<1.5	<6	<6	<6	<6	<3,000	<600	<300
cis-1,3-Dichloropropene	<1.5	<5	<5	<5	<5	<2,500	<500	<250
Ethylbenzene	6	<7.2	<7.2	<7.2	<7.2	<3,600	<720	<360
Methyl bromide	<1.5	<10	<10	<10	<10	<5,000	<1,000	<500
Methyl chloride	<1.6	<10	<10	<10	<10	<5,000	<1,000	<500
Methylene chloride	40	<2.8	13	9.6	<2.8	<1,400	<280	227
1,1,2,2-Tetrachloroethane	<1.4	<6.9	<6.9	<6.9	<6.9	<3,500	<690	<350
Tetrachloroethene	<1.5	<4.1	<4.1	<4.1	<4.1	<2,100	<410	<210
Toluene	4	<6	6	6	<6	<3,000	<600	1,400
trans-1,2-Dichloroethene	<1.5	<1.6	<1.6	<1.6	<1.6	<800	<160	<80
1,1,1-Trichloroethane	<1.2	<3.8	<3.8	<3.8	<3.8	<1,900	<380	<190
1,1,2-Trichloroethane	<1.6	<5	<5	<5	<5	<2,500	<500	<250
Trichloroethene	<1.3	<1.9	<1.9	<1.9	<1.9	<950	<190	<95
Trichlorofluoromethane	<1.2	<10	<10	<10	<10	<5,000	<1,000	<500
Vinyl chloride	<1.2	<10	<10	<10	<10	<5,000	<1,000	<500
trans-1,3-Dichloropropene	<1.5	<10	<10	<10	<10	<5,000	<1,000	<500
Sub Total 1	166	179	1,097	636	349	70,180	3,610	14,587
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	<5	<10	<10	NA	NA	<5,000	NA	NA
Methyl isoamyl ketone	<5	<10	<10	NA	NA	<5,000	NA	NA
m-Xylene	b)	<10	<10	NA	NA	<5,000	NA	NA
o-Xylene/p-Xylene	b)	<10	<10	NA	NA	<5,000	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0
Total VOCs Analyzed	166	179	1,097	636	349	70,180	3,610	14,587

See last page for footnotes.

Well Number:	GM-27B	GM-27B	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-27
Sample Date:	11/90	11/91	9/84**	11/85	2/86	12/86	5/87	11/87
Laboratory:	ETC	ETC	EEI	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<10,000	<10000	NA	<1,000	<1,000	<100	<100	<1,000
Acrylonitrile	<10,000	<10000	NA	<1,000	<1,000	<100	<100	<1,000
Benzene	1,170	1,070	160	554	765	159	122	433
bis(Chloromethyl) ether	<1,000	<1000	<1.5	<100	<100	<10	<10	<100
Bromoform	<470	<470	<3.2	<47	<47	<4.7	<4.7	<47
Carbon tetrachloride	<280	<280	<1.5	<28	<28	<2.8	<2.8	<28
Chlorobenzene	10,100	8,760	275	1,220	1,950	385	318	1,300
Chlorodibromomethane	<310	<310	<2.0	<31	<31	<3.1	<3.1	<31
Chloroethane	<1,000	<1000	<2.4	<100	<100	<10	<10	<100
2-Chloroethylvinyl ether	<1,000	<1000	<5.9	<100	<100	<10	<10	<100
Chloroform	<160	<160	<0.8	<16	<16	<1.6	<1.6	<16
Dichlorobromomethane	<220	<220	<1.1	<22	<22	<2.2	<2.2	<22
Dichlorodifluoromethane	<1,000	<1000	NA	<100	<100	<10	<10	<100
1,1-Dichloroethane	<470	<470	<0.8	<47	<47	<4.7	<4.7	<47
1,2-Dichloroethane	<280	<280	<1.5	<28	<28	<2.8	<2.8	<28
1,1-Dichloroethene	<280	<280	1	<28	<28	<2.8	<2.8	<28
1,2-Dichloropropane	<600	<600	<1.5	<60	<60	<6	<6	<60
cis-1,3-Dichloropropene	<500	<500	<1.5	<50	<50	<5	<5	<50
Ethylbenzene	<720	<720	1	<72	<72	<7.2	<7.2	<72
Methyl bromide	<1,000	<1000	<1.5	<100	<100	<10	<10	<100
Methyl chloride	<1,000	<1000	<1.6	<100	<100	<10	<10	<100
Methylene chloride	<280	<280	38	<28	<28	<2.8	<2.8	<28
1,1,2,2-Tetrachloroethane	<690	<690	<1.4	<69	<69	<6.9	<6.9	<69
Tetrachloroethene	<410	<410	<1.5	<41	<41	<4.1	<4.1	<41
Toluene	1,120	857	2	<60	<60	<6	<6	<60
trans-1,2-Dichloroethene	<160	<160	<1.5	<16	<16	<1.6	<1.6	<16
1,1,1-Trichloroethane	<380	<380	<1.2	<38	<38	<3.8	<3.8	<38
1,1,2-Trichloroethane	<500	<500	<1.6	<50	<50	<5	<5	<50
Trichloroethene	<190	<190	<1.3	<19	<19	<1.9	<1.9	<19
Trichlorofluoromethane	<1,000	<1000	<1.2	<100	<100	<10	<10	<100
Vinyl chloride	<1,000	<1000	<1.2	<100	<100	<10	<10	<100
trans-1,3-Dichloropropene	<1,000	<1000	<1.5	<100	<100	<10	<10	<100
Sub Total 1	12,390	10,687	477	1,774	2,715	544	440	1,733
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	NA	NA	<5	<100	<100	NA	NA	<100
Methyl isoamyl ketone	NA	NA	<5	<100	<100	NA	NA	<100
m-Xylene	NA	NA	b)	<100	<100	NA	NA	<100
o-Xylene/p-Xylene	NA	NA	b)	<100	<100	NA	NA	<100
Sub Total 2	0	0	0	0	0	0	0	0
Total VOCs Analyzed	12,390	10,687	477	1,774	2,715	544	440	1,733

See last page for footnotes.

Well Number:	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-28B	GM-28B	GM-28B
Sample Date:	5/88	11/88	11/89	11/90	11/91	9/84**	11/85	2/86
Laboratory:	ETC	ETC	ETC	ETC	ETC	EEI	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<5,000	<1,000	<5000	<500	<1000	NA	<5,000	<1 000
Acrylonitrile	<5,000	<1,000	<5000	<500	<1000	NA	<5,000	<1 000
Benzene	346	529	331	414	323	410	934	644
bis(Chloromethyl) ether	<500	<100	<500	<50	<100	<1 5	<500	<100
Bromoform	<240	<47	<240	<24	<47	<3.2	<240	<47
Carbon tetrachloride	<140	<28	<140	<14	<28	<1 5	<140	<28
Chlorobenzene	710	2,030	1,840	2,440	1,850	2,804	6,120	6 130
Chlorodibromomethane	<160	<31	<160	<16	<31	<2.0	<160	<31
Chloroethane	<500	<100	<500	<50	<100	<2.4	<500	<100
2-Chloroethylvinyl ether	<500	<100	<500	<50	<100	<5.9	<500	<100
Chloroform	<80	<16	<80	<8.0	<16	<0.8	<80	<16
Dichlorobromomethane	<110	<22	<110	<11	<22	<1.1	<110	<22
Dichlorodifluoromethane	<500	<100	<500	<50	<100	NA	<500	<100
1,1-Dichloroethane	<240	<47	<240	<24	<47	<0.8	<240	<47
1,2-Dichloroethane	<140	<28	<140	<14	<28	<1.5	<140	<28
1,1-Dichloroethene	<140	<28	<140	<14	<28	1	<140	<28
1,2-Dichloropropane	<300	<60	<300	<30	<60	<1.5	<300	<60
cis-1,3-Dichloropropene	<250	<50	<250	<25	<50	<1.5	<250	<50
Ethylbenzene	<360	<72	<360	<36	<72	12	<360	<72
Methyl bromide	<500	<100	<500	<50	<100	<1.5	<500	<100
Methyl chloride	<500	<100	<500	<50	<100	<1.6	<500	<100
Methylene chloride	<140	203	693	<14	<28	71	<140	<28
1,1,2,2-Tetrachloroethane	<350	<69	<350	<35	<69	<1.4	<350	<69
Tetrachloroethene	<210	<41	<210	<21	<41	<1.5	<210	<41
Toluene	<300	232	<300	90.6	<60	18	<300	<60
trans-1,2-Dichloroethene	<80	<16	<80	<8.0	<16	<1.5	<80	<16
1,1,1-Trichloroethane	<190	<38	<190	<19	<38	<1.2	<190	<38
1,1,2-Trichloroethane	<250	<50	<250	<25	<50	<1.6	<250	<50
Trichloroethene	<95	<19	<95	<9.5	<19	<1.3	<95	<19
Trichlorofluoromethane	<500	<100	<500	<50	<100	<1 2	<500	<100
Vinyl chloride	<500	<100	<500	<50	<100	<1 2	<500	<100
trans-1,3-Dichloropropene	<500	<100	<500	<50	<100	<1.5	<500	<100
Sub Total 1	1,056	2,994	2,864	2,945	2,173	3,316	7,054	6,774
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	NA	NA	NA	NA	NA	2	<500	<100
Methyl isoamyl ketone	NA	NA	NA	NA	NA	<5	<500	<100
m-Xylene	NA	NA	NA	NA	NA	c)	<500	<100
o-Xylene/p-Xylene	NA	NA	NA	NA	NA	c)	<500	<100
Sub Total 2	0	0	0	0	0	2	0	0
Total VOCs Analyzed	1,056	2,994	2,864	2,945	2,173	3,318	7,054	6,774

See last page for footnotes.

Well Number:	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B
Sample Date:	12/86	5/87	11/87	5/88	3/89	11/89	11/90	11/91
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<2,000	<5,000	<1,000	<10,000	<1000	<5000	<5,000	<2500
Acrylonitrile	<2,000	<5,000	<1,000	<10,000	<1000	<5000	<5,000	<2500
Benzene	289	<220	485	<440	85.5	<220	<220	<110
bis(Chloromethyl) ether	<200	<500	<100	<1,000	<100	<500	<500	<250
Bromoform	<94	<240	<47	<470	<47	<240	<240	<120
Carbon tetrachloride	<56	<140	<28	<280	<28	<140	<140	<70
Chlorobenzene	3,310	447	4,060	2,200	2,760	2,560	3,560	2,410
Chlorodibromomethane	<62	<160	<31	<310	<31	<160	<160	<78
Chloroethane	<200	<500	<100	<1,000	<100	<500	<500	<250
2-Chloroethylvinyl ether	<200	<500	<100	<1,000	<100	<500	<500	<250
Chloroform	<32	<80	<16	<160	<16	<80	<80	<40
Dichlorobromomethane	<44	<110	<22	<220	<22	<110	<110	<55
Dichlorodifluoromethane	<200	<500	<100	<1,000	<100	<500	<500	<250
1,1-Dichloroethane	<94	<240	<47	<470	<47	<240	<240	<120
1,2-Dichloroethane	<56	<140	<28	<280	<28	<140	<140	<70
1,1-Dichloroethene	<56	<140	<28	<280	<28	<140	<140	<70
1,2-Dichloropropane	<120	<300	<60	<600	<60	<300	<300	<150
cis-1,3-Dichloropropene	<100	<250	<50	<500	<50	<250	<250	<130
Ethylbenzene	<140	<360	<72	<720	<100	<360	<360	<180
Methyl bromide	<200	<500	<100	<1,000	<100	<500	<500	<250
Methyl chloride	<200	<500	<100	<1,000	79.2	<500	<500	<250
Methylene chloride	<56	360	1,350	<280	<69	706	<140	<70
1,1,2,2-Tetrachloroethane	<140	<350	<69	<690	<41	<350	<350	<170
Tetrachloroethene	<82	<210	<41	<410	215	<210	<210	<100
Toluene	<120	<300	321	<600	<16	<300	533	<150
trans-1,2-Dichloroethene	<32	<80	<16	<160	<38	<80	<80	<40
1,1,1-Trichloroethane	<76	<190	<38	<380	<50	<190	<190	
1,1,2-Trichloroethane	<100	<250	<50	<500	<19	<250	<250	<1
Trichloroethene	<38	<95	<19	<190	<100	<95	<95	<4
Trichlorofluoromethane	<200	<500	<100	<1,000	<100	<500	<500	<250
Vinyl chloride	<200	<500	<100	<1,000	<100	<500	<500	<250
trans-1,3-Dichloropropene	<200	<500	<100	<1,000	<72	<500	<500	<250
Sub Total 1	3,599	807	6,216	2,200	3,140	3,266	4,093	2,410
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	NA	NA	1,250	NA	<100	NA	NA	NA
Methyl isoamyl ketone	NA	NA	<100	NA	<100	NA	NA	NA
m-Xylene	NA	NA	149	NA	<100	NA	NA	NA
o-Xylene/p-Xylene	NA	NA	116	NA	<100	NA	NA	NA
Sub Total 2	0	0	1,515	0	0	0	0	0
Total VOCs Analyzed	3,599	807	7,731	2,200	3,140	3,266	4,093	2,410

See last page for footnotes.

Well Number:	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C
Sample Date:	9/84**	11/85	2/86	12/86	5/87	11/87	5/88	11/88
Laboratory:	EEI	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	NA	<5,000	<1,000	<100	<5,000	<1,000	<10,000	<5,000
Acrylonitrile	NA	<5,000	<1,000	<100	<5,000	<1,000	<10,000	<5,000
Benzene	1,000	516	470	582	<220	297	<440	<220
bis(Chloromethyl) ether	<1.5	<500	<100	<10	<500	<100	<1,000	<500
Bromoform	<3.2	<240	<47	<4.7	<240	<47	<470	<240
Carbon tetrachloride	<1.5	<140	<28	<2.8	<140	<28	<280	<140
Chlorobenzene	3,800	5,130	4,890	4,530	621	4,910	4,700	2,920
Chlorodibromomethane	<2.0	<160	<31	<3.1	<160	<31	<310	<160
Chloroethane	<2.4	<500	<100	<10	<500	<100	<1,000	<500
2-Chloroethylvinyl ether	<5.9	<500	<100	<10	<500	<100	<1,000	<500
Chloroform	<0.8	<80	<16	<1.6	<80	<16	<160	<80
Dichlorobromomethane	<1.1	<110	<22	<2.2	<110	<22	<220	<110
Dichlorodifluoromethane	NA	<500	<100	<10	<500	<100	<1,000	<500
1,1-Dichloroethane	<0.8	<240	<47	<4.7	<240	<47	<470	<240
1,2-Dichloroethane	<1.5	<140	<28	<2.8	<140	<28	<280	<140
1,1-Dichloroethene	2	<140	<28	<2.8	<140	<28	<280	<140
1,2-Dichloropropane	<1.5	<300	<60	<6	<300	<60	<600	<300
cis-1,3-Dichloropropene	<1.5	<250	<50	<5	<250	<50	<500	<250
Ethylbenzene	18	<360	<72	<7.2	<360	<72	<720	<360
Methyl bromide	<1.5	<500	<100	<10	<500	<100	<1,000	<500
Methyl chloride	<1.6	<500	<100	<10	<500	<100	<1,000	<500
Methylene chloride	45	178	<28	<2.8	254	1,790	<280	283
1,1,2,2-Tetrachloroethane	<1.4	<350	<69	<6.9	<350	<69	<690	<350
Tetrachloroethene	<1.5	<210	<41	<4.1	<210	<41	<410	<210
Toluene	35	<300	<60	<6	<300	115	<600	<300
trans-1,2-Dichloroethene	2	<80	<16	<1.6	<80	<16	<160	<80
1,1,1-Trichloroethane	<1.2	<190	<38	<3.8	<190	<38	<380	<190
1,1,2-Trichloroethane	<1.6	<250	<50	<5	<250	<50	<500	<250
Trichloroethene	<1.3	<95	<19	<1.9	<95	<19	<190	<95
Trichlorofluoromethane	<1.2	<500	<100	<10	<500	<100	<1,000	<500
Vinyl chloride	<1.2	<500	<100	<10	<500	<100	<1,000	<500
trans-1,3-Dichloropropene	<1.5	<500	<100	<10	<500	<100	<1,000	<500
Sub Total 1	4,902	5,824	5,360	5,112	875	7,112	4,700	3,203
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	<5	<500	<100	NA	NA	236	NA	NA
Methyl isoamyl ketone	<5	<500	<100	NA	NA	<100	NA	NA
m-Xylene	c)	<500	<100	NA	NA	<100	NA	NA
o-Xylene/p-Xylene	c)	<500	<100	NA	NA	<100	NA	NA
Sub Total 2	0	0	0	0	0	236	0	0
Total VOCs Analyzed	4,902	5,824	5,360	5,112	875	7,348	4,700	3,203

See last page for footnotes.

Well Number:	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-55C	GM-55C	GM-55C
Sample Date:	3/89	3/89*	11/89	11/90	11/91	11/87	5/88	11/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<5000	<5000	<5000	<5,000	<2500	<1,000	<10,000	<5,000
Acrylonitrile	<5000	<5000	<5000	<5,000	<2500	<1,000	<10,000	<5,000
Benzene	<220	<220	<220	<220	<110	163	<440	<220
bis(Chloromethyl) ether	<500	<500	<500	<500	<250	<100	<1,000	<500
Bromoform	<240	<240	<240	<240	<120	<47	<470	<240
Carbon tetrachloride	<140	<140	<140	<140	<70	<28	<280	<140
Chlorobenzene	2,510	3,220	2,840	3,580	2,800	4,030	3,360	2,700
Chlorodibromomethane	<160	<160	<160	<160	<78	<31	<310	<160
Chloroethane	<500	<500	<500	<500	<250	<100	<1,000	<500
2-Chloroethylvinyl ether	<500	<500	<500	<500	<250	<100	<1,000	<500
Chloroform	<80	<80	<80	<80	<40	<16	<160	<80
Dichlorobromomethane	<110	<110	<110	<110	<55	<22	<220	<110
Dichlorodifluoromethane	<500	<500	<500	<500	<250	<100	<1,000	<500
1,1-Dichloroethane	<240	<240	<240	<240	<120	<47	<470	<240
1,2-Dichloroethane	<140	<140	<140	<140	<70	<28	<280	<140
1,1-Dichloroethene	<140	<140	<140	<140	<70	<28	<280	<140
1,2-Dichloropropane	<300	<300	<300	<300	<150	<60	<600	<300
cis-1,3-Dichloropropene	<250	<250	<250	<250	<130	<50	<500	<250
Ethylbenzene	<500	<500	<360	<360	<180	<72	<720	<360
Methyl bromide	<500	<500	<500	<500	<250	<100	<1,000	<500
Methyl chloride	<140	<140	<500	<500	<250	<100	<1,000	<500
Methylene chloride	<350	<350	488	<140	<70	48.9	415	255
1,1,2,2-Tetrachloroethane	<210	<210	<350	<350	<170	<69	<690	<350
Tetrachloroethene	<300	<300	<210	<210	<100	<41	<410	<210
Toluene	<80	<80	<300	431	<150	<60	<600	<300
trans-1,2-Dichloroethene	<190	<190	<80	<80	<40	16	<160	<80
1,1,1-Trichloroethane	<250	<250	<190	<190	<95	8	<380	<190
1,1,2-Trichloroethane	<95	<95	<250	<250	<130	7	<500	<250
Trichloroethene	<500	<500	<95	<95	<48	19	<190	<95
Trichlorofluoromethane	<500	<500	<500	<500	<250	<100	<1,000	<500
Vinyl chloride	<500	<500	<500	<500	<250	<100	<1,000	<500
trans-1,3-Dichloropropene	<360	<360	<500	<500	<250	<100	<1,000	<500
Sub Total 1	2,510	3,220	3,328	4,011	2,800	4,242	3,775	2,955
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	<500	<500	NA	NA	NA	[illegible]	<1,000	<500
Methyl isoamyl ketone	<500	<500	NA	NA	NA	<100	<1,000	<500
m-Xylene	<500	<500	NA	NA	NA	<100	<1,000	<500
o-Xylene/p-Xylene	<500	<500	NA	NA	NA	<100	<1,000	<500
Sub Total 2	0	0	0	0	0	0	0	0
Total VOCs Analyzed	2,510	3,220	3,328	4,011	2,800	4,242	3,775	2,955

See last page for footnotes.

Well Number:	GM-55C	GM-55C	GM-55C	GM-56C	GM-56C	GM-56C	GM-56C	GM-56C
Sample Date:	11/89	11/90	11/91	11/87	5/88	11/88	11/88	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	SL	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<5,000	<5,000	<2500	<1,000	<1,000	<5,000	<1,000	<1,000
Acrylonitrile	<5,000	<5,000	<2500	<1,000	<1,000	<5,000	<1,000	<1,000
Benzene	<220	<220	<110	510	153	<220	250	108
bis(Chloromethyl) ether	<500	<500	<250	<100	<100	<500	<100	<100
Bromoform	<240	<240	<120	<47	<47	<240	<50	<47
Carbon tetrachloride	<140	<140	<70	<28	<28	<140	<50	<28
Chlorobenzene	3,220	2,580	2,990	3,980	1,000	2,400	4,200	3,100
Chlorodibromomethane	<160	<160	<78	<31	<31	<160	<50	<31
Chloroethane	<500	<500	<250	<100	<100	<500	<100	<100
2-Chloroethylvinyl ether	<500	<500	<250	<100	<100	<500	<50	<100
Chloroform	<80	<80	<40	<16	<16	<80	<50	<16
Dichlorobromomethane	<110	<110	<55	<22	<22	<110	<50	<22
Dichlorodifluoromethane	<500	<500	<250	<100	<100	<500	<100	<100
1,1-Dichloroethane	<240	<240	<120	<47	<47	<240	<50	<47
1,2-Dichloroethane	<140	<140	<70	<28	<28	<140	<50	<28
1,1-Dichloroethene	<140	<140	<70	<28	<28	<140	<50	<28
1,2-Dichloropropane	<300	<300	<150	<60	<60	<300	<50	<60
cis-1,3-Dichloropropene	<250	<250	<130	<50	<50	<250	<50	<50
Ethylbenzene	<360	<360	<180	150	<72	<360	140	105
Methyl bromide	<500	<500	<250	<100	<100	<500	<100	<100
Methyl chloride	<500	<500	<250	<100	<100	<500	<100	<100
Methylene chloride	140	<140	<70	<28	<28	240	<50	<28
1,1,2,2-Tetrachloroethane	<350	<350	<170	<69	<69	<350	<50	<69
Tetrachloroethene	<210	<210	<100	80.9	<41	<210	67	64.7
Toluene	<300	<300	<150	1,810	232	698	1,200	700
trans-1,2-Dichloroethene	<80	<80	<40	<16	<16	<80	<50	<16
1,1,1-Trichloroethane	<190	<190	<95	<38	<38	<190	<50	<38
1,1,2-Trichloroethane	<250	<250	<130	<50	<50	<250	<50	<50
Trichloroethene	<95	<95	<48	192	<19	<95	<50	30.6
Trichlorofluoromethane	<500	<500	<250	<100	<100	<500	<50	<100
Vinyl chloride	<500	<500	<250	<100	<100	<500	<100	<100
trans-1,3-Dichloropropene	<500	<500	<250	<100	<100	<500	<50	<100
Sub Total 1	3,360	2,580	2,990	6,723	1,385	3,338	5,857	4,108
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	<500	<500	<250	287	<100	<500	<500	<100
Methyl isoamyl ketone	<500	<500	<250	<100	<100	<500	<100	<100
m-Xylene	<500	<500	<250	846	<100	<500	260	458
o-Xylene/p-Xylene	<500	<500	<250	450	NA	<500	130	293
Sub Total 2	0	0	0	1,583	0	0	390	751
Total VOCs Analyzed	3,360	2,580	2,990	8,306	1,385	3,338	6,247	4,859

See last page for footnotes.

Well Number:	GM-56C	GM-56C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C
Sample Date:	11/90	11/91	11/87	11/87*	5/88	5/88*	11/88	11/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	SL
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<5000	<1000	<1,000	<5,000	<10,000	<10,000	<5,000	<1,000
Acrylonitrile	<5000	<1000	<1,000	<5,000	<10,000	<10,000	<5,000	<1,000
Benzene	<220	<44	605	459	<440	<440	566	520
bis(Chloromethyl) ether	<500	<100	<100	<500	<1,000	<1,000	<500	<100
Bromoform	<240	<47	<47	<240	<470	<470	<240	<50
Carbon tetrachloride	<140	<28	<28	<140	<280	<280	<140	<50
Chlorobenzene	4,620	1,280	5,050	3,740	3,020	3,020	4,510	5200
Chlorodibromomethane	<160	<31	<31	<160	<310	<310	<160	<50
Chloroethane	<500	<100	<100	<500	<1,000	<1,000	<500	<100
2-Chloroethylvinyl ether	<500	<100	<100	<500	<1,000	<1,000	<500	<50
Chloroform	<80	<16	<16	<80	<160	<160	<80	<50
Dichlorobromomethane	<110	<22	<22	<110	<220	<220	<110	<50
Dichlorodifluoromethane	<500	<100	<100	<500	<1,000	<1,000	<500	<100
1,1-Dichloroethane	<240	<47	<47	<240	<470	<470	<240	<50
1,2-Dichloroethane	<140	<28	1,910	1,690	<280	<280	1,260	<50
1,1-Dichloroethene	<140	<28	<28	<140	<280	<280	<140	<50
1,2-Dichloropropane	<300	<60	<60	<300	<600	<600	<300	<50
cis-1,3-Dichloropropene	<250	<50	<50	<250	<500	<500	<250	<50
Ethylbenzene	<360	<72	160	<500	<720	<720	<500	190
Methyl bromide	<500	<100	<100	<500	<1,000	<1,000	<500	<100
Methyl chloride	<500	<100	<100	<500	<1,000	<1,000	<500	<100
Methylene chloride	<140	<28	94.0	231	417	<280	284	58
1,1,2,2-Tetrachloroethane	<350	<69	<69	<350	<690	<690	<350	<50
Tetrachloroethene	<210	<41	102	<210	<410	<410	<210	95
Toluene	1,360	<60	1,210	775	<600	<600	817	890
trans-1,2-Dichloroethene	<80	<16	<16	<80	<160	<160	<80	<50
1,1,1-Trichloroethane	<190	<38	<38	<190	<380	<380	<190	<50
1,1,2-Trichloroethane	<250	<50	<50	<250	<500	<500	<250	<50
Trichloroethene	<95	<19	88.4	<95	<190	<190	<95	<50
Trichlorofluoromethane	<500	<100	<100	<500	<1,000	<1,000	<500	<50
Vinyl chloride	<500	<100	<100	<500	<1,000	<1,000	<500	<100
trans-1,3-Dichloropropene	<500	<100	<100	<360	<1,000	<1,000	<360	<50
Sub Total 1	5,980	1,280	9,219	6,895	3,437	3,020	7,437	6,953
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	<500	<100	841	687	<1,000	<1,000	521	<500
Methyl isoamyl ketone	<500	<100	<100	<500	<1,000	<1,000	<500	<100
m-Xylene	813	229	901	533	<1,000	<1,000	<500	240
o-Xylene/p-Xylene	<500	116	465	<500	<1,000	<1,000	<500	120
Sub Total 2	813	345	2,207	1,220	0	0	521	360
Total VOCs Analyzed	6,793	1,625	11,426	8,115	3,437	3,020	7,958	7,313

See last page for footnotes.

Well Number	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-62A
Sample Date	3/89	11/89	11/89*	11/90	11/90*	11/91	11/91*	8/88
Laboratory	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<10000	<10000	<5000	<5,000	<5,000	<2500	<2500	<100
Acrylonitrile	<10000	<10000	<5000	<5,000	<5,000	<2500	<2500	<100
Benzene	<440	<440	<220	613	607	220	225	<4.4
bis(Chloromethyl) ether	<1000	<1000	<500	<500	<500	<250	<250	<10
Bromoform	<470	<470	<240	<240	<240	<120	<120	<4.7
Carbon tetrachloride	<280	<280	<140	<140	<140	<70	<70	<2.8
Chlorobenzene	7,380	2,320	2,330	5,850	5,650	4,900	4,570	<6.0
Chlorodibromomethane	<310	<310	<160	<160	<160	<78	<78	<3.1
Chloroethane	<1000	<1000	<500	<500	<500	<250	<250	<10
2-Chloroethylvinyl ether	<1000	<1000	<500	<500	<500	<250	<250	<10
Chloroform	<160	<160	<80	<80	<80	<40	<40	<1.6
Dichlorobromomethane	<220	<220	<110	<110	<110	<55	<55	<2.2
Dichlorodifluoromethane	<1000	<1000	<500	<500	<500	<250	<250	18.3
1,1-Dichloroethane	<470	<470	<240	<240	<240	<120	<120	<4.7
1,2-Dichloroethane	555	<280	286	811	787	112	<70	<2.8
1,1-Dichloroethene	<280	<280	<140	<140	<140	<70	<70	<2.8
1,2-Dichloropropane	<600	<600	<300	<300	<300	<150	<150	<6.0
cis-1,3-Dichloropropene	<500	<500	<250	<250	<250	<130	<130	<5.0
Ethylbenzene	<1000	<720	<360	<360	<360	279	280	<7.2
Methyl bromide	<1000	<1000	<500	<500	<500	<250	<250	<10
Methyl chloride	466	<1000	<500	<500	<500	<250	<250	<10
Methylene chloride	<690	<280	<140	<140	<140	<70	<70	<2.8
1,1,2,2-Tetrachloroethane	<410	<690	<350	<350	<350	<170	<170	<6.9
Tetrachloroethene	1,220	<410	<210	<210	<210	<100	107	<4.1
Toluene	<160	<600	328	1,150	2,070	742	800	<6.0
trans-1,2-Dichloroethene	<380	<160	<80	<80	<80	<40	<95	8.52
1,1,1-Trichloroethane	<500	<380	<190	<190	<190	<95	<130	<3.8
1,1,2-Trichloroethane	<190	<500	<250	<250	<250	<130	<48	<5.0
Trichloroethene	<1000	<190	<95	<95	<95	<48	<250	<1.9
Trichlorofluoromethane	<1000	<1000	<500	<500	<500	<250	<250	<10
Vinyl chloride	<1000	<1000	<500	<500	<500	<250	<250	<10
trans-1,3-Dichloropropene	<720	<1000	<500	<500	<500	<250	<250	<10
Sub Total 1	9,621	2,320	2,944	8,424	9,114	6,253	5,982	27
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	<1000	<1000	<500	<500	<500	<250	<250	<10
Methyl isoamyl ketone	<1000	<1000	<500	<500	<500	<250	<250	<10
m-Xylene	<1000	<1000	<500	<500	<500	962	953	<10
o-Xylene/p-Xylene	<1000	<1000	<500	<500	<500	538	539	<10
Sub Total 2	0	0	0	0	0	1,500	1,492	0
Total VOCs Analyzed	9,621	2,320	2,944	8,424	9,114	7,753	7,474	27

See last page for footnotes.

Well Number:	GM-62A	GM-62A	GM-62A	GM-62B	GM-62B	GM-62B	GM-62B	GM-62B
Sample Date:	11/88	11/89	11/91	8/88	8/88*	11/88	11/88	5/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	SL	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<100	<100	<100	<100	<100	<100	<500	<100
Acrylonitrile	<100	<100	<100	<100	<100	<100	<500	<100
Benzene	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<50	<4.4
bis(Chloromethyl) ether	<10	<10	<10	<10	<10	<10	<100	<10
Bromoform	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<50	<4.7
Carbon tetrachloride	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<50	<2.8
Chlorobenzene	<6.0	<6.0	<6.0	43	33.8	6.18	<50	19.3
Chlorodibromomethane	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<50	<3.1
Chloroethane	<10	<10	<10	<10	<10	<10	<100	<10
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10	<10	<50	<10
Chloroform	<1.6	<1.6	<1.6	1.6	<1.6	<1.6	<50	<1.6
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<50	<2.2
Dichlorodifluoromethane	<10	<10	<10	<10	19	<10	<100	<10
1,1-Dichloroethane	<4.7	<4.7	<4.7	32	26.9	13.7	<50	<4.7
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<50	<2.8
1,1-Dichloroethene	11.8	<2.8	<2.8	19.4	15.4	<2.8	<50	<2.8
1,2-Dichloropropane	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<50	<6.0
cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0
Ethylbenzene	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<50	<7.2
Methyl bromide	<10	<10	<10	<10	<10	<10	<100	<10
Methyl chloride	<10	<10	<10	<10	<10	<10	<100	<10
Methylene chloride	78.2	<2.8	<2.8	<2.8	<2.8	33.1	<50	<2.8
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<50	<6.9
Tetrachloroethene	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<50	<4.1
Toluene	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<50	
trans-1,2-Dichloroethene	12.2	20.0	15.5	34.1	28.7	8.5	<50	
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	25	20.4	<3.8	<50	
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0
Trichloroethene	<1.9	<1.9	<1.9	7.02	7.02	<1.9	<50	<1.9
Trichlorofluoromethane	<10	<10	<10	<10	<10	<10	<50	<10
Vinyl chloride	<10	<10	<10	<10	<10	<10	<100	<10
trans-1,3-Dichloropropene	<10	<10	<10	<10	<10	<10	<50	<10
Sub Total 1	102	20	16	161	151	61	0	23
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	<10	NA	NA	<10	<10	<10	<500	NA
Methyl isoamyl ketone	<10	NA	NA	<10	<10	<10	<100	NA
m-Xylene	<10	NA	NA	<10	<10	<10	<50	NA
o-Xylene/p-Xylene	<10	NA	NA	<10	<10	<10	<50	NA
Sub Total 2	0	0	0	0	0	0	0	0
Total VOCs Analyzed	102	20	16	161	151	61	0	23

See last page for footnotes.

Well Number:	GM-62B	GM-62B	GM-62B	GM-62B	GM-62C	GM-62C	GM-62C	GM-62C
Sample Date:	5/89*	11/89	11/91	11/91*	10/85	8/88	11/88	5/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<100	<100	<100	<100	<100	<100	<100	<100
Acrylonitrile	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	<4.4	<4.4	<4.4	<4.4	29.8	<4.4	8.16	7.40
bis(Chloromethyl) ether	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
Carbon tetrachloride	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
Chlorobenzene	19.4	40.9	29.1	31.1	58.6	6.5	11.1	17.2
Chlorodibromomethane	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloroethylvinyl ether	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.6	<1.6	<1.6	<1.6	<1.6	17	<1.6	<1.6
Dichlorobromomethane	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
Dichlorodifluoromethane	<10	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethane	<4.7	13.1	<4.7	4.83	<4.7	<4.7	<4.7	<4.7
1,2-Dichloroethane	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,1-Dichloroethene	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8
1,2-Dichloropropane	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
Methyl bromide	<10	<10	<10	<10	<10	<10	<10	<10
Methyl chloride	<10	<10	<10	<10	<10	<10	<10	<10
Methylene chloride	<2.8	<2.8	<2.8	<2.8	4.48	<2.8	61.8	<2.8
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
Tetrachloroethene	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
Toluene	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
trans-1,2-Dichloroethene	3.72	10.2	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
1,1,1-Trichloroethane	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Trichlorofluoromethane	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl chloride	<10	<10	<10	<10	<10	<10	55.8	39.9
trans-1,3-Dichloropropene	<10	<10	<10	<10	<10	<10	<10	<10
Sub Total 1	23	64	29	36	93	24	137	65
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	NA	NA	NA	NA	NA	<10	<10	NA
Methyl isoamyl ketone	NA	NA	NA	NA	NA	<10	NA	NA
m-Xylene	NA	NA	NA	NA	NA	<10	<10	NA
o-Xylene/p-Xylene	NA	NA	NA	NA	NA	<10	<10	NA
Sub Total 2	0	0	0	0	0	0	0	0
Total VOCs Analyzed	23	64	29	36	93	24	137	65

See last page for footnotes.

Table A-1. Volatile Organic Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget, Illinois

Well Number:	GM-62C	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106
Sample Date:	11/91	11/85	2/86	2/86*	12/86	5/87	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<100	<100	<1,000	<1,000	<100	<100	<1,000	<1,000
Acrylonitrile	<100	<100	<1,000	<1,000	<100	<100	<1,000	<1,000
Benzene	30.2	<4.4	<44	<44	<4.4	8.1	44.6	<44
bis(Chloromethyl) ether	<10	<10	<100	<100	<10	<10	<100	<100
Bromoform	<4.7	<4.7	<47	<47	<4.7	<4.7	<47	<47
Carbon tetrachloride	<2.8	<2.8	<28	<28	<2.8	<2.8	<28	<28
Chlorobenzene	117	21.4	201	<60	63.7	119.0	970	584
Chlorodibromomethane	<3.1	<3.1	<31	<31	<3.1	<3.1	<31	<31
Chloroethane	<10	<10	<100	<100	<10	<10	<100	<100
2-Chloroethylvinyl ether	<10	<10	<100	<100	<10	<10	<100	<100
Chloroform	<1.6	<1.6	<16	<16	<1.6	<1.6	<16	<16
Dichlorobromomethane	<2.2	<2.2	<22	<22	<2.2	<2.2	<22	<22
Dichlorodifluoromethane	<10	<10	<100	<100	<10	<10	<100	<100
1,1-Dichloroethane	<4.7	<4.7	<47	<47	<4.7	<4.7	<47	<47
1,2-Dichloroethane	<2.8	<2.8	<28	<28	<2.8	<2.8	<28	<28
1,1-Dichloroethene	<2.8	<2.8	<28	<28	<2.8	<2.8	<28	<28
1,2-Dichloropropane	<6.0	<6	<60	<60	<6	<6	<60	<60
cis-1,3-Dichloropropene	<5.0	<5	<50	<50	<5	<5	<50	<50
Ethylbenzene	<7.2	<7.2	<72	<72	<7.2	7.3	<72	<72
Methyl bromide	<10	<10	<100	<100	<10	<10	<100	<100
Methyl chloride	<10	<10	<100	<100	<10	<10	<100	<100
Methylene chloride	<2.8	<2.8	<28	<28	9.4	7.2	38.8	<28
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<69	<69	<6.9	<6.9	<69	<69
Tetrachloroethene	<4.1	<4.1	<41	<41	<4.1	<4.1	<41	<41
Toluene	<6.0	15	104	<60	27.7	37.1	307	177
trans-1,2-Dichloroethene	<1.6	<1.6	<16	<16	<1.6	<1.6	<16	<16
1,1,1-Trichloroethane	<3.8	<3.8	<38	<38	<3.8	<3.8	<38	<38
1,1,2-Trichloroethane	<5.0	<5	<50	<50	<5	<5	<50	<50
Trichloroethene	<1.9	<1.9	<19	<19	<1.9	<1.9	<19	<19
Trichlorofluoromethane	<10	<10	<100	<100	<10	<10	<100	<100
Vinyl chloride	16.3	<10	<100	<100	<10	<10	<100	<100
trans-1,3-Dichloropropene	<10	<10	<100	<100	<10	<10	<100	<100
Sub Total 1	164	36	305	0	101	179	1,360	761
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	NA	<10	<100	<100	NA	NA	NA	NA
Methyl isoamyl ketone	NA	<10	<100	<100	NA	NA	NA	NA
m-Xylene	NA	<10	100	<100	NA	NA	NA	NA
o-Xylene/p-Xylene	NA	<10	<100	<100	NA	NA	NA	NA
Sub Total 2	0	0	100	0	0	0	0	0
Total VOCs Analyzed	164	36	405	0	101	179	1,360	761

See last page for footnotes.

Well Number:	GM-106	GM-106	GM-106	GM-106	B-24A	B-25A	B-25A	B-25B
Sample Date:	11/88	11/89	11/90	11/91	2/86	6/84	11/85	6/84
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<2,500	<5000	<500	<1000	<10,000	<1	<10,000	<1
Acrylonitrile	<2,500	<5000	<500	<1000	<10,000	<1	<10,000	<1
Benzene	<110	<220	55.0	61.8	2,360	<1	<440	51
bis(Chloromethyl) ether	<250	<500	<50	<100	<1,000	<1	<1,000	<1
Bromoform	<120	<240	<24	<47	<470	<1	<470	<1
Carbon tetrachloride	<70	<140	<14	<28	<280	<1	<280	<1
Chlorobenzene	1,750	1,940	1,270	1,420	6,180	8,520	18,900	9,930
Chlorodibromomethane	<78	<160	<16	<31	<310	<1	<310	<1
Chloroethane	<250	<500	<50	<100	<1,000	309	<1,000	42
2-Chloroethylvinyl ether	<250	<500	<50	<100	<1,000	<1	<1,000	<1
Chloroform	<40	<80	<8.0	<16	<160	77	<160	9
Dichlorobromomethane	<55	<110	<11	<22	<220	<1	<220	<1
Dichlorodifluoromethane	<250	<500	<50	<100	<1,000	<1	<1,000	<1
1,1-Dichloroethane	<120	<240	<24	<47	<470	<1	<470	<1
1,2-Dichloroethane	<70	<140	<14	<28	2,100	10,000	18,500	1,430
1,1-Dichloroethene	<70	<140	<14	<28	<280	<1	<280	<1
1,2-Dichloropropane	<150	<300	<30	<60	<600	<1	<600	<1
cis-1,3-Dichloropropene	<130	<250	<25	<50	<500	<1	<500	<1
Ethylbenzene	<180	<360	79.2	85.2	<720	11	<720	4
Methyl bromide	<250	<500	<50	<100	<1,000	<1	<1,000	<1
Methyl chloride	<250	<500	<50	<100	<1,000	30	<1,000	29
Methylene chloride	760	228	<14	<28	1,160	204	<280	<1
1,1,2,2-Tetrachloroethane	<170	<350	<35	<69	<690	<1	<690	<1
Tetrachloroethene	<100	<210	43.6	49.3	<410	19	<410	15
Toluene	488	571	407	429	1,140	316	736	269
trans-1,2-Dichloroethene	<40	<80	<8.0	<16	<160	<1	<160	2
1,1,1-Trichloroethane	<95	<190	<19	<38	<380	<1	<380	<1
1,1,2-Trichloroethane	<130	<250	<25	<50	<500	<1	<500	<1
Trichloroethene	<48	<95	22.2	<19	<190	7	<190	4
Trichlorofluoromethane	<250	<500	<50	<100	<1,000	<1	<1,000	<1
Vinyl chloride	<250	<500	<50	<100	<1,000	4	<1,000	7
trans-1,3-Dichloropropene	<250	<500	<50	<100	<1,000	<1	<1,000	<1
Sub Total 1	2,998	2,739	1,877	2,045	12,940	19,497	38,136	11,792
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	NA	NA	NA	NA	3,170.0	NA	<1,000	NA
Methyl isoamyl ketone	NA	NA	NA	NA	<1,000	NA	<1,000	NA
m-Xylene	NA	NA	NA	NA	<1,000	NA	<1,000	NA
o-Xylene/p-Xylene	NA	NA	NA	NA	<1,000	NA	<1,000	NA
Sub Total 2	0	0	0	0	3,170	0	0	0
Total VOCs Analyzed	2,998	2,739	1,877	2,045	16,110	19,497	38,136	11,792

See last page for footnotes.

Well Number:	B-25B	B-26A	B-27B	B-27B	B-28A	B-28A	B-29A	B-29A
Sample Date:	11/85	3/87	9/84**	9/84*	2/86	3/87	6/84	11/85
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<10,000	<100	NA	NA	<1,000	<1,000	<1	<1,000
Acrylonitrile	<10,000	<100	NA	NA	<1,000	<1,000	<1	<1,000
Benzene	<440	42.3	3,420	7,058	<44	<44	18	<44
bis(Chloromethyl) ether	<1,000	<10	<1.5	<300	<100	<100	<1	<100
Bromoform	<470	<4.7	<3.2	<640	<47	<47	<1	<47
Carbon tetrachloride	<280	<2.8	<1.5	<300	<28	<28	<1	<28
Chlorobenzene	13,100	158	4,160	5,320	1,510	929	1,970	1,280
Chlorodibromomethane	<310	<3.1	<2.0	<400	<31	<31		<31
Chloroethane	<1,000	<10	<2.4	<480	<100	<100	<1	<100
2-Chloroethylvinyl ether	<1,000	<10	<5.9	<1,180	<100	<100	<1	<100
Chloroform	<160	<1.6	<0.8	<160	<16	<16	18	28.9
Dichlorobromomethane	<220	<2.2	<1.1	<220	<22	<22	<1	<22
Dichlorodifluoromethane	<1,000	<10	NA	NA	<100	<100	<1	<100
1,1-Dichloroethane	<470	8.86	<0.8	<160	<47	<47	<1	<47
1,2-Dichloroethane	3,510	<2.8	<1.5	<300	<28	<28	<1	<28
1,1-Dichloroethene	<280	<2.8	<1.9	260	<28	<28	<1	<28
1,2-Dichloropropane	<600	<6.0	<1.5	<300	<60	<60	<1	<60
cis-1,3-Dichloropropene	<500	<5.0	<1.5	<300	<50	<50	<1	<50
Ethylbenzene	<720	<7.2	<0.4	<80	<72	<72	14	<72
Methyl bromide	<1,000	<10	<1.5	<300	<100	<100	<1	<100
Methyl chloride	<1,000	<10	<1.6	<320	<100	<100	<1	<100
Methylene chloride	<280	<2.8	1,740	8,100	<28	<28	50	<28
1,1,2,2-Tetrachloroethane	<690	<6.9	<1.4	<280	<69	<69	<1	<69
Tetrachloroethene	<410	<4.1	<1.5	<300	<41	<41	<1	<41
Toluene	<600	<6.0	16,200	18,500	<60	<60	195	532
trans-1,2-Dichloroethene	<160	4.64	<1.5	<300	<16	<16	<1	<16
1,1,1-Trichloroethane	<380	<3.8	<1.2	<240	<38	<38	<1	<38
1,1,2-Trichloroethane	<500	<5.0	<1.6	<320	<50	<50	<1	<50
Trichloroethene	<190	<1.9	<1.3	<260	<19	<19	2	
Trichlorofluoromethane	<1,000	<10	<1.2	<240	<100	<100	<1	<100
Vinyl chloride	<1,000	<10	<1.2	<240	<100	<100	<1	<100
trans-1,3-Dichloropropene	<1,000	<10	<1.5	<300	<100	<100	<1	<100
Sub Total 1	16,610	214	25,520	39,238	1,510	929	2,267	1,881
Miscellaneous Volatile Organic Compounds								
Acetone	NA	<10	NA	NA	NA	<100	NA	NA
Methyl ethyl ketone	NA	<10	NA	NA	NA	<100	NA	NA
Carbon disulfide	NA	<10	NA	NA	NA	<100	NA	NA
2-Hexanone	NA	<10	NA	NA	NA	<100	NA	NA
Styrene	NA	<10	NA	NA	NA	<100	NA	NA
Methylisobutyl ketone (MIBK)	<1,000	<10	<5	40,400.0	<100	<100	NA	248.0
Methyl isoamyl ketone	<1,000	NA	<5	<1,000	<100	NA	NA	<100
m-Xylene	<1,000	<10	<5	<1,000	<100	<100	NA	<100
o-Xylene/p-Xylene	<1,000	<10	<5	<1,000	<100	<100	NA	<100
Sub Total 2	0	0	0	40,400	0	0	0	248
Total VOCs Analyzed	16,610	214	25,520	79,638	1,510	929	2,267	2,129

See last page for footnotes.

Well Number:	B-29B	B-29B	B-29B	B-29B	B-29B	B-30B	P-1	P-1
Sample Date:	6/84	6/84*	6/84#	11/84	11/85	9/84**	9/84**	3/87
Laboratory:	ETC	ETC	EEI	ETC	ETC	EEI	EEI	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<1	<1	<50,000	<10,000	<1,000	NA	NA	<100
Acrylonitrile	<1	<1	<50,000	<10,000	<1,000	NA	NA	<100
Benzene	20	16	<5,000	<1,000	<44	176	<0.5	<4.4
bis(Chloromethyl) ether	<1	<1	<5,000	<1,000	<100	<1.5	<1.5	<10
Bromoform	<1	<1	<5,000	<1,000	<47	<3.2	<3.2	<4.7
Carbon tetrachloride	<1	<1	<5,000	<1,000	<28	<1.5	<1.5	<2.8
Chlorobenzene	769	828	<5,000	1,500	1,710	2,350	<0.6	454
Chlorodibromomethane	<1	<1	<5,000	<1,000	<31	<2.0	<2.0	<3.1
Chloroethane	<1	<1	<5,000	<1,000	<100	<2.4	<2.4	<10
2-Chloroethylvinyl ether	<1	<1	<5,000	<1,000	<100	<5.9	<5.9	<10
Chloroform	39	38	<5,000	<1,000	48.7	64	<0.8	<1.6
Dichlorobromomethane	<1	<1	<5,000	<1,000	<22	<1.1	<1.1	<2.2
Dichlorodifluoromethane	<1	<1	<5,000	<1,000	<100	NA	NA	<10
1,1-Dichloroethane	<1	<1	<5,000	<1,000	<47	3	<0.8	<4.7
1,2-Dichloroethane	<1	<1	<5,000	<1,000	<28	142	<1.5	<2.8
1,1-Dichloroethene	<1	<1	<5,000	<1,000	<28	<1.9	<1.9	<2.8
1,2-Dichloropropane	<1	<1	<5,000	<1,000	<60	<1.5	<1.5	<6.0
cis-1,3-Dichloropropene	<1	<1	<5,000	<1,000	<50	<1.5	<1.5	<5.0
Ethylbenzene	33	30	<5,000	<1,000	<72	359	<0.4	<7.2
Methyl bromide	<1	<1	<5,000	<1,000	<100	<1.5	<1.5	<10
Methyl chloride	<1	<1	57,000	<1,000	<100	<1.6	<1.6	<10
Methylene chloride	19	17	127,000	<1,000	<28	48	4	<2.8
1,1,2,2-Tetrachloroethane	<1	<1	<5,000	<1,000	<69	<1.4	<1.4	<6.9
Tetrachloroethene	<1	<1	<5,000	<1,000	<41	940	<1.5	<4.1
Toluene	225	227	<5,000	<1,000	491	228	<0.4	<6.0
trans-1,2-Dichloroethene	<1	<1	<5,000	<1,000	<16	163	<1.5	<1.6
1,1,1-Trichloroethane	<1	<1	<5,000	<1,000	<38	<1.2	<1.2	<3.8
1,1,2-Trichloroethane	<1	<1	<5,000	<1,000	<50	<1.6	<1.6	<5.0
Trichloroethene	<1	<1	<5,000	<1,000	<19	36	<1.3	<1.9
Trichlorofluoromethane	<1	<1	<5,000	<1,000	<100	<1.2	<1.2	<10
Vinyl chloride	<1	<1	<5,000	<1,000	<100	<1.2	<1.2	<10
trans-1,3-Dichloropropene	<1	<1	<5,000	<1,000	<100	<1.5	<1.5	<10
Sub Total 1	1,105	1,156	184,000	1,500	2,250	4,509	4	454
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	30.4
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	<10
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	<10
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	<10
Styrene	NA	NA	NA	NA	NA	NA	NA	<10
Methylisobutyl ketone (MIBK)	NA	NA	NA	<1,000	177.0	2,640.0	<5	<10
Methyl isoamyl ketone	NA	NA	NA	<1,000	<100	<5	<5	NA
m-Xylene	NA	NA	NA	<1,000	218.0	d)	<5	<10
o-Xylene/p-Xylene	NA	NA	NA	<1,000	146.0	d)	<5	<10
Sub Total 2	0	0	0	0	541	2,640	0	30
Total VOCs Analyzed	1,105	1,156	184,000	1,500	2,791	7,149	4	484

See last page for footnotes.

Well Number:	P-1	P-2	P-2	P-2	P-2	P-2	P-2	P-...
Sample Date:	11/87	6/84	11/85	12/86	5/87	11/87	5/88	11/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<1,000	<1	<1,000	<100	<100	<1,000	<2,000	<2,000
Acrylonitrile	<1,000	<1	<1,000	<100	<100	<1,000	<2,000	<2,000
Benzene	102	54	106	56.1	50.8	140	88.3	571
bis(Chloromethyl) ether	<100	<1	<100	<10	<10	<100	<200	<200
Bromoform	<47	<1	<47	<4.7	<4.7	<47	<94	<94
Carbon tetrachloride	<28	<1	<28	<2.8	<2.8	<28	<56	<56
Chlorobenzene	1,110	687	764	618	497	1,040	605	1,510
Chlorodibromomethane	<31	<1	<31	<3.1	<3.1	<31	<62	<62
Chloroethane	<100	<1	<100	<10	<10	<100	<200	<200
2-Chloroethylvinyl ether	<100	<1	<100	<10	<10	<100	<200	<200
Chloroform	<16	<1	<16	<1.6	<1.6	<16	<32	<32
Dichlorobromomethane	<22	<1	<22	<2.2	<2.2	<22	<44	<44
Dichlorodifluoromethane	<100	<1	<100	<10	<10	<100	<200	<200
1,1-Dichloroethane	<47	<1	<47	<4.7	<4.7	<47	<94	<94
1,2-Dichloroethane	<28	<1	<28	<2.8	<2.8	<28	<56	<56
1,1-Dichloroethene	35.1	<1	<28	<2.8	<2.8	<28	<56	<56
1,2-Dichloropropane	<60	<1	<60	<6	<6	<60	<120	<120
cis-1,3-Dichloropropene	<50	<1	<50	<5	<5	<50	<100	<100
Ethylbenzene	<72	1	<72	<7.2	<7.2	<72	<140	<140
Methyl bromide	<100	<1	<100	<10	<10	<100	<200	<200
Methyl chloride	<100	<1	<100	<10	<10	<100	<200	<200
Methylene chloride	95.0	81	<28	13.6	<2.8	<28	<56	664
1,1,2,2-Tetrachloroethane	<69	<1	<69	<6.9	<6.9	<69	<140	<140
Tetrachloroethene	<41	<1	<41	<4.1	<4.1	<41	<82	<82
Toluene	<60	4	<60	<6	<6	<60	<120	198
trans-1,2-Dichloroethene	29.2	<1	<16	<1.6	<1.6	<16	<32	[illegible]
1,1,1-Trichloroethane	<38	<1	<38	<3.8	<3.8	<38	<76	
1,1,2-Trichloroethane	<50	<1	<50	<5	<5	<50	<100	[illegible]
Trichloroethene	<19	<1	<19	<1.9	<1.9	<19	<38	249
Trichlorofluoromethane	<100	<1	<100	<10	<10	<100	<200	<200
Vinyl chloride	<100	<1	<100	<10	<10	<100	<200	1,290
trans-1,3-Dichloropropene	<100	<1	<100	<10	<10	<100	<200	<200
Sub Total 1	1,371	827	870	688	548	1,180	693	5,237
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	<100	NA	<100	NA	NA	<100	NA	NA
Methyl isoamyl ketone	<100	NA	<100	NA	NA	<100	NA	NA
m-Xylene	<100	NA	<100	NA	NA	<100	NA	NA
o-Xylene/p-Xylene	<100	NA	<100	NA	NA	<100	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0
Total VOCs Analyzed	1,371	827	870	688	548	1,180	693	5,237

See last page for footnotes.

Well Number:	P-2	P-2	P-2	P-3	P-6	P-6	P-6	P-6
Sample Date:	11/89	11/90	11/91	11/87	6/84	11/85	12/86	5/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<5000	<5,000	<2500	<1,000	<1	<100	<100	<100
Acrylonitrile	<5000	<5,000	<2500	<1,000	<1	<100	<100	<100
Benzene	272	241	514	2,220	31	24.3	79.2	<4.4
bis(Chloromethyl) ether	<500	<500	<250	<100	<1	<10	<10	<10
Bromoform	<240	<240	<120	<47	<1	<4.7	<4.7	<4.7
Carbon tetrachloride	<140	<140	<70	<28	<1	<2.8	<2.8	<2.8
Chlorobenzene	1,810	2,950	3,670	346	130	98.1	366	33.1
Chlorodibromomethane	<160	<160	<78	<31	<1	<3.1	<3.1	<3.1
Chloroethane	<500	<500	<250	<100	<1	<10	<10	<10
2-Chloroethylvinyl ether	<500	<500	<250	<100	<1	<10	<10	<10
Chloroform	<80	<80	<40	<16	<1	<1.6	<1.6	<1.6
Dichlorobromomethane	<110	<110	<55	<22	<1	<2.2	<2.2	<2.2
Dichlorodifluoromethane	<500	<500	<250	<100	<1	<10	<10	<10
1,1-Dichloroethane	<240	<240	<120	<47	<1	<4.7	<4.7	<4.7
1,2-Dichloroethane	<140	<140	<70	<28	<1	<2.8	<2.8	<2.8
1,1-Dichloroethene	<140	<140	<70	<28	<1	<2.8	<2.8	<2.8
1,2-Dichloropropane	<300	<300	<150	<60	<1	<6	<6	<6
cis-1,3-Dichloropropene	<250	<250	<130	<50	<1	<5	<5	<5
Ethylbenzene	<360	<360	<180	<72	1	<7.2	<7.2	<7.2
Methyl bromide	<500	<500	<250	<100	<1	<10	<10	<10
Methyl chloride	<500	<500	<250	<100	<1	<10	<10	<10
Methylene chloride	<140	<140	<70	<28	99	<2.8	33.9	<2.8
1,1,2,2-Tetrachloroethane	<350	<350	<170	<69	<1	<6.9	<6.9	<6.9
Tetrachloroethene	<210	<210	<100	<41	<1	<4.1	<4.1	<4.1
Toluene	<300	306	717	<60	5	<6	<6	<6
trans-1,2-Dichloroethene	<80	<80	<40	<16	<1	<1.6	<1.6	<1.6
1,1,1-Trichloroethane	<190	<190	<95	<38	<1	<3.8	<3.8	<3.8
1,1,2-Trichloroethane	<250	<250	<130	<50	<1	<5	<5	<5
Trichloroethene	<95	<95	<48	<19	<1	<1.9	<1.9	<1.9
Trichlorofluoromethane	<500	<500	<250	<100	<1	<10	<10	<10
Vinyl chloride	<500	<500	<250	<100	<1	<10	<10	<10
trans-1,3-Dichloropropene	<500	<500	<250	<100	<1	<10	<10	<10
Sub Total 1	2,082	3,497	4,901	2,566	266	122	479	33
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	NA	NA	NA	400	NA	<10	NA	NA
Methyl isoamyl ketone	NA	NA	NA	<100	NA	<10	NA	NA
m-Xylene	NA	NA	NA	<100	NA	<10	NA	NA
o-Xylene/p-Xylene	NA	NA	NA	<100	NA	<10	NA	NA
Sub Total 2	0	0	0	400	0	0	0	0
Total VOCs Analyzed	2,082	3,497	4,901	2,966	266	122	479	33

See last page for footnotes.

Well Number:	P-6	P-6	P-6	P-6	P-6	P-6	P-7	P-7
Sample Date:	11/87	5/88	11/88	11/89	11/90	11/91	6/84	11/85
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<100	<100	<1,000	<5000	<500	<100	<1	<25,000
Acrylonitrile	<100	<100	<1,000	<5000	<500	<100	<1	<25,000
Benzene	<4.4	<4.4	419	434	230	117	2,080	1,810
bis(Chloromethyl) ether	<10	<10	<100	<500	<50	<10	<1	<2,500
Bromoform	<4.7	<4.7	<47	<240	<24	<4.7	<1	<1,200
Carbon tetrachloride	<2.8	<2.8	<28	<140	<14	<2.8	<1	<700
Chlorobenzene	7.48	<6.0	837	1,000	998	292	4,040	5,110
Chlorodibromomethane	<3.1	<3.1	<31	<160	<16	<3.1	<1	<780
Chloroethane	<10	<10	<100	<500	<50	<10	<1	<2,500
2-Chloroethylvinyl ether	<10	<10	<100	<500	<50	<10	<1	<2,500
Chloroform	<1.6	<1.6	28.8	<80	<8.0	<1.6	7	<400
Dichlorobromomethane	<2.2	<2.2	<22	<110	<11	<2.2	<1	<550
Dichlorodifluoromethane	<10	10	<100	<500	<50	<10	<1	<2,500
1,1-Dichloroethane	<4.7	<4.7	154	<240	<24	<4.7	<1	<1,200
1,2-Dichloroethane	<2.8	<2.8	<28	<140	<14	<2.8	<1	700
1,1-Dichloroethene	<2.8	<2.8	<28	<140	<14	<2.8	<1	<700
1,2-Dichloropropane	<6.0	<6.0	<60	<300	<30	<6.0	<1	<1,500
cis-1,3-Dichloropropene	<5.0	<5.0	<50	<250	<25	<5.0	<1	<1,300
Ethylbenzene	<7.2	<7.2	<72	<360	<36	<7.2	12	<1,800
Methyl bromide	<10	<10	<100	<500	<50	<10	<1	<2,500
Methyl chloride	<10	<10	<100	<500	<50	<10	<1	<2,500
Methylene chloride	3.87	<2.8	581.0	170	<14	<2.8	68	<700
1,1,2,2-Tetrachloroethane	<6.9	<6.9	<69	<350	<35	<6.9	<1	<1,700
Tetrachloroethene	<4.1	<4.1	<41	<210	<21	<4.1	<1	<1,000
Toluene	<6.0	<6.0	189	<300	<30	<6.0	322	<1,500
trans-1,2-Dichloroethene	<1.6	<1.6	585	<80	<8.0	<1.6	<1	<400
1,1,1-Trichloroethane	<3.8	<3.8	104	<190	<19	<3.8	<1	<950
1,1,2-Trichloroethane	<5.0	<5.0	<50	<250	<25	<5.0	<1	<1,300
Trichloroethene	<1.9	<1.9	207	<95	<9.5	<1.9	<1	[illegible]
Trichlorofluoromethane	<10	<10	<100	<500	<50	<10	<1	[illegible]
Vinyl chloride	<10	<10	1,580	<500	<50	<10	<1	[illegible]
trans-1,3-Dichloropropene	<10	<10	<100	<500	<50	<10	<1	<2,500
Sub Total 1	11	0	4,685	1,604	1,228	409	6,529	7,620
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	<10	NA	NA	NA	NA	NA	NA	<2,500
Methyl isoamyl ketone	<10	NA	NA	NA	NA	NA	NA	<2,500
m-Xylene	<10	NA	NA	NA	NA	NA	NA	<2,500
o-Xylene/p-Xylene	<10	NA	NA	NA	NA	NA	NA	<2,500
Sub Total 2	0	0	0	0	0	0	0	0
Total VOCs Analyzed	11	0	4,685	1,604	1,228	409	6,529	7,620

See last page for footnotes.

Well Number:	P-7	P-7	P-7	P-7	P-7	P-7	P-7	P-7
Sample Date:	12/86	3/87	5/87	11/87	5/88	11/88	3/89	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<10,000	<10,000	<50,000	<1,000	<2,000	<10,000	<10000	<5000
Acrylonitrile	<10,000	<10,000	<50,000	<1,000	<2,000	<10,000	<10000	<5000
Benzene	523	1,420	11,300	1,830	861	5,650	2,690	1,570
bis(Chloromethyl) ether	<1,000	<1,000	<5,000	<100	<200	<1,000	<1000	<500
Bromoform	<470	<470	<2,400	62.3	<94	<470	<470	<240
Carbon tetrachloride	<280	<280	<1,400	<28	<56	<280	<280	<140
Chlorobenzene	1,470	4,310	25,200	3,290	1,560	9,000	7,660	5 090
Chlorodibromomethane	<310	<310	<1,600	<31	<62	<310	<310	<160
Chloroethane	<1,000	<1,000	<5,000	<100	<200	<1,000	<1000	<500
2-Chloroethylvinyl ether	<1,000	<1,000	<5,000	<100	<200	<1,000	<1000	<500
Chloroform	<160	<160	<800	<16	<32	462	<160	<80
Dichlorobromomethane	<220	<220	<1,100	<22	<44	<220	<220	<110
Dichlorodifluoromethane	<1,000	<1,000	<5,000	<100	<200	<1,000	<1000	<500
1,1-Dichloroethane	<470	<470	<2,400	<47	<94	2,880	<470	<240
1,2-Dichloroethane	<280	<280	<1,400	<28	<56	<280	<280	<140
1,1-Dichloroethene	<280	<280	<1,400	<28	<56	373	<280	<140
1,2-Dichloropropane	<600	<600	<3,000	<60	<120	<600	<600	<300
cis-1,3-Dichloropropene	<500	<500	<2,500	<50	<100	<500	<500	<250
Ethylbenzene	<720	<720	<3,600	<72	<140	<720	<1000	<360
Methyl bromide	<1,000	<1,000	<5,000	<100	<200	<1,000	<1000	<500
Methyl chloride	<1,000	<1,000	<5,000	<100	<200	<1,000	458	<500
Methylene chloride	1,230	<280	18,200	<28	<56	10,200	<690	560
1,1,2,2-Tetrachloroethane	<690	<690	<3,500	117	<140	<690	<410	<350
Tetrachloroethene	<410	<410	<2,100	<41	<82	<410	721	<210
Toluene	<600	<600	<3,000	251	<120	3,620	<160	368
trans-1,2-Dichloroethene	<160	<160	<800	<16	<32	11,300	<380	<80
1,1,1-Trichloroethane	<380	<380	<1,900	<38	<76	2,720	<500	<190
1,1,2-Trichloroethane	<500	<500	<2,500	<50	<100	<500	<190	<250
Trichloroethene	<190	<190	<950	<19	<38	4,610	<1000	<95
Trichlorofluoromethane	<1,000	<1,000	<5,000	<100	<200	<1,000	<1000	<500
Vinyl chloride	<1,000	<1,000	<5,000	<100	<200	24,500	<1000	<500
trans-1,3-Dichloropropene	<1,000	<1,000	<5,000	<100	<200	<1,000	<720	<500
Sub Total 1	3,223	5,730	54,700	5,550	2,421	75,315	11,529	7,588
Miscellaneous Volatile Organic Compounds								
Acetone	NA	3,120	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	<1,000	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	<1,000	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	<1,000	NA	NA	NA	NA	NA	NA
Styrene	NA	<1,000	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	NA	<1,000	NA	172	NA	NA	<1000	NA
Methyl isoamyl ketone	NA	NA	NA	<100	NA	NA	<1000	NA
m-Xylene	NA	<1,000	NA	<100	NA	NA	<1000	NA
o-Xylene/p-Xylene	NA	<1,000	NA	<100	NA	NA	<1000	NA
Sub Total 2	0	3,120	0	172	0	0	0	0
Total VOCs Analyzed	3,223	8,850	54,700	5,722	2,421	75,315	11,529	7,588

See last page for footnotes.

Well Number:	P-7	P-7	P-8	P-8	P-8	P-8	P-8	P
Sample Date:	11/90	11/91	6/84	11/85	12/86	5/87	11/87	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<5,000	<2500	<1	<1,000	<1,000	<1,000	<1,000	<1,000
Acrylonitrile	<5,000	<2500	<1	<1,000	<1,000	<1,000	<1,000	<1,000
Benzene	1,790	1,460	162	531	194	424	1,390	1,720
bis(Chloromethyl) ether	<500	<250	<1	<100	<100	<100	<100	<100
Bromoform	<240	<120	<1	<47	<47	<47	<47	<47
Carbon tetrachloride	<140	<70	<1	<28	<28	<28	<28	<28
Chlorobenzene	4,860	4,250	585	2,490	909	2,180	4,910	3,180
Chlorodibromomethane	<160	<78	<1	<31	<31	<31	<31	<31
Chloroethane	<500	<250	<1	<100	<100	<100	<100	<100
2-Chloroethylvinyl ether	<500	<250	<1	<100	<100	<100	<100	<100
Chloroform	<80	<40	<1	<16	<16	<16	<16	<16
Dichlorobromomethane	<110	<55	<1	<22	<22	<22	<22	<22
Dichlorodifluoromethane	<500	<250	<1	<100	<100	<100	<100	<100
1,1-Dichloroethane	<240	<120	<1	<47	<47	<47	<47	<47
1,2-Dichloroethane	<140	<70	<1	<28	<28	<28	73.9	<28
1,1-Dichloroethene	<140	<70	<1	<28	<28	<28	<28	<28
1,2-Dichloropropane	<300	<150	<1	<60	<60	<60	<60	<60
cis-1,3-Dichloropropene	<250	<130	<1	<50	<50	<50	<50	<50
Ethylbenzene	<360	<180	13	74.6	<72	<72	79.1	<72
Methyl bromide	<500	<250	<1	<100	<100	<100	<100	<100
Methyl chloride	<500	<250	<1	<100	<100	<100	<100	<100
Methylene chloride	<140	<70	19	<28	<28	<28	217	558
1,1,2,2-Tetrachloroethane	<350	<170	<1	<69	<69	<69	<69	<69
Tetrachloroethene	<210	<100	<1	<41	<41	<41	<41	<41
Toluene	613	408	56	<60	<60	<60	590	538
trans-1,2-Dichloroethene	<80	<40	<1	<16	<16	<16	<16	<16
1,1,1-Trichloroethane	<190	<95	<1	<38	<38	<38	<38	<38
1,1,2-Trichloroethane	<250	<130	<1	<50	<50	<50	<50	<50
Trichloroethene	<95	<48	<1	<19	<19	<19	<19	24.3
Trichlorofluoromethane	<500	<250	<1	<100	<100	<100	<100	<100
Vinyl chloride	<500	<250	<1	<100	<100	<100	<100	<100
trans-1,3-Dichloropropene	<500	<250	<1	<100	<100	<100	<100	<100
Sub Total 1	7,263	6,118	835	3,096	1,103	2,604	7,260	6,020
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	NA	NA	NA	<100	NA	NA	2,860	NA
Methyl isoamyl ketone	NA	NA	NA	<100	NA	NA	<100	NA
m-Xylene	NA	NA	NA	<100	NA	NA	173	NA
o-Xylene/p-Xylene	NA	NA	NA	<100	NA	NA	144	NA
Sub Total 2	0	0	0	0	0	0	3,177	0
Total VOCs Analyzed	7,263	6,118	835	3,096	1,103	2,604	10,437	6,020

See last page for footnotes.

Well Number:	P-8	P-8	P-8	P-8	P-8	P-10	P-10	P-11
Sample Date:	11/88	3/89	11/89	11/90	11/91	9/84**	11/87	9/84**
Laboratory:	ETC	ETC	ETC	ETC	ETC	EEI	ETC	EEI
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<2,000	<10000	<5000	<5,000	<2500	NA	<1,000	NA
Acrylonitrile	<2,000	<10000	<5000	<5,000	<2500	NA	<1,000	NA
Benzene	1,980	1,680	3,340	1,990	2,380	132	1,080	113
bis(Chloromethyl) ether	<200	<1000	<500	<500	<250	<1.5	<100	<1.5
Bromoform	<94	<470	<240	<240	<120	<3.2	<47	<3.2
Carbon tetrachloride	<56	<280	<140	<140	<70	<1.5	<28	<1.5
Chlorobenzene	3,810	3,660	4,340	5,280	4,450	2,000	5,210	842
Chlorodibromomethane	<62	<310	<160	<160	<78	<2.0	<31	<2.0
Chloroethane	<200	<1000	<500	<500	<250	<2.4	<100	<2.4
2-Chloroethylvinyl ether	<200	<1000	<500	<500	<250	<5.9	<100	<5.9
Chloroform	121	<160	<80	<80	<40	<0.8	<16	<0.8
Dichlorobromomethane	<44	<220	<110	<110	<55	<1.1	<22	<1.1
Dichlorodifluoromethane	<200	<1000	<500	<500	<250	NA	<100	NA
1,1-Dichloroethane	<94	<470	<240	<240	<120	<0.8	<47	<0.8
1,2-Dichloroethane	303	<280	<140	409	2200	<1.5	49.6	<1.5
1,1-Dichloroethene	<56	<280	<140	<140	<70	2	<28	<1.9
1,2-Dichloropropane	<120	<600	<300	<300	<150	<1.5	<60	<1.5
cis-1,3-Dichloropropene	<100	<500	<250	<250	<130	<1.5	<50	<1.5
Ethylbenzene	<140	<1000	<360	<360	<180	<0.4	137	5
Methyl bromide	<200	<1000	<500	<500	<250	<1.5	<100	<1.5
Methyl chloride	<200	466	<500	<500	<250	<1.6	<100	<1.6
Methylene chloride	495	<690	1,080	516	279	41	653	21
1,1,2,2-Tetrachloroethane	<140	<410	<350	<350	<170	<1.4	<69	<1.4
Tetrachloroethene	<82	<600	<210	<210	<100	<1.5	<41	<1.5
Toluene	603	<160	512	1,300	637	24	103	10
trans-1,2-Dichloroethene	<32	<380	<80	<80	<40	<1.5	25.4	<1.5
1,1,1-Trichloroethane	<76	<500	<190	<190	<95	<1.2	<38	<1.2
1,1,2-Trichloroethane	<100	<190	<250	<250	<130	<1.6	<50	<1.6
Trichloroethene	<38	<1000	<95	<95	<48	<1.3	<19	<1.3
Trichlorofluoromethane	<200	<1000	<500	<500	<250	<1.2	<100	<1.2
Vinyl chloride	<200	<1000	<500	<500	<250	<1.2	<100	<1.2
trans-1,3-Dichloropropene	<200	<720	<500	<500	<250	<1.5	<100	<1.5
Sub Total 1	7,312	5,806	9,272	9,495	9,946	2,199	7,258	991
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	NA	1,920	NA	NA	NA	<5	<100	<5
Methyl isoamyl ketone	NA	<1000	NA	NA	NA	<5	<100	<5
m-Xylene	NA	<1000	NA	NA	NA	<5	<100	<5
o-Xylene/p-Xylene	NA	<1000	NA	NA	NA	<5	137	<5
Sub Total 2	0	1,920	0	0	0	0	137	0
Total VOCs Analyzed	7,312	7,726	9,272	9,495	9,946	2,199	7,395	991

See last page for footnotes.

Table A-1. Volatile Organic Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget, Illinois.

Well Number:	P-11	P-11	P-12	P-12	P-13	P-13	P-13	P-1
Sample Date:	3/87	11/87	9/84**	11/87	6/84	6/84*	6/84#	11 85
Laboratory:	ETC	ETC	EEI	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<100	<1,000	NA	<50,000	<1	<1	<50,000	<1 000
Acrylonitrile	<100	<1,000	NA	<50,000	<1	<1	<50,000	<1,000
Benzene	120	337	560	7,330	61	60	<5,000	89 4
bis(Chloromethyl) ether	<10	<100	<1.5	<5,000	<1	<1	<5,000	<100
Bromoform	<4.7	<47	<3.2	<2,400	<1	<1	<5,000	<47
Carbon tetrachloride	<2.8	<28	<1.5	<1,400	<1	<1	<5,000	<28
Chlorobenzene	483	1,660	690	37,400	81	75	<5,000	265
Chlorodibromomethane	<3.1	<31	<2.0	<1,600	<1	<1	<5,000	<31
Chloroethane	<10	<100	<2.4	<5,000	<1	<1	<5,000	<100
2-Chloroethylvinyl ether	<10	<100	<5.9	<5,000	<1	<1	<5,000	<100
Chloroform	<1.6	<16	<0.8	<800	<1	<1	<5,000	<16
Dichlorobromomethane	<2.2	<22	<1.1	<1,100	<1	<1	<5,000	<22
Dichlorodifluoromethane	<10	<100	NA	<5,000	<1	<1	<5,000	<100
1,1-Dichloroethane	<4.7	<47	<0.8	<2,400	<1	<1	<5,000	<47
1,2-Dichloroethane	<2.8	<28	<1.5	<1,400	<1	<1	<5,000	<28
1,1-Dichloroethene	<2.8	<28	<1.9	<1,400	<1	<1	<5,000	<28
1,2-Dichloropropane	<6.0	<60	<1.5	<3,000	<1	<1	<5,000	<60
cis-1,3-Dichloropropene	<5.0	<50	<1.5	<2,500	<1	<1	<5,000	<50
Ethylbenzene	<7.2	<72	32	<5,000	16	<1	<5,000	<72
Methyl bromide	<10	<100	<1.5	<5,000	<1	<1	<5,000	<100
Methyl chloride	<10	<100	<1.6	<5,000	<1	<1	138,000	<100
Methylene chloride	<2.8	2,260	42	<1,400	33	26	37,100	<28
1,1,2,2-Tetrachloroethane	<6.9	<69	<1.4	<3,500	<1	<1	<5,000	<69
Tetrachloroethene	<4.1	<41	<1.5	<2,100	<1	<1	<5,000	<41
Toluene	<6.0	<60	19	<3,000	5	4	19,200	<60
trans-1,2-Dichloroethene	<1.6	<16	<1.5	<800	<1	<1	<5,000	<16
1,1,1-Trichloroethane	<3.8	<38	<1.2	<1,900	<1	<1	<5,000	
1,1,2-Trichloroethane	<5.0	<50	<1.6	<2,500	<1	<1	<5,000	
Trichloroethene	<1.9	<19	<1.3	<950	<1	<1	<5,000	<19
Trichlorofluoromethane	<10	<100	<1.2	<5,000	<1	<1	<5,000	<100
Vinyl chloride	<10	<100	<1.2	<5,000	<1	<1	<5,000	<100
trans-1,3-Dichloropropene	<10	<100	<1.5	<3,600	<1	<1	<5,000	<100
Sub Total 1	603	4,257	1,343	44,730	196	165	194,300	354
Miscellaneous Volatile Organic Compounds								
Acetone	22.9	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	<10	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	<10	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	<10	NA	NA	NA	NA	NA	NA	NA
Styrene	<10	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	<10	<100	<5	<5,000	NA	NA	NA	<100
Methyl isoamyl ketone	NA	<100	<5	<5,000	NA	NA	NA	<100
m-Xylene	<10	<100	<5	<5,000	NA	NA	NA	<100
o-Xylene/p-Xylene	<10	<100	<5	<5,000	NA	NA	NA	<100
Sub Total 2	23	0	0	0	0	0	0	0
Total VOCs Analyzed	626	4,257	1,343	44,730	196	165	194,300	354

See last page for footnotes.

Well Number:	P-13	P-13	P-13	P-13	P-13	P-13	P-13	P-13
Sample Date:	12/86	5/87	11/87	5/88	11/88	11/89	11/90	11/91
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<1,000	<100	<1,000	<1,000	<1,000	<5000	<5,000	<2500
Acrylonitrile	<1,000	<100	<1,000	<1,000	<1,000	<5000	<5,000	<2500
Benzene	45.8	89.7	365	684	1,040	3,410	2,200	2,970
bis(Chloromethyl) ether	<100	<10	<100	<100	<100	<500	<500	<250
Bromoform	<47	<4.7	<47	<47	<47	<240	<240	<120
Carbon tetrachloride	<28	<2.8	<28	<28	<28	<140	<140	<70
Chlorobenzene	225	305	881	1,050	1,500	5,530	4,560	6,400
Chlorodibromomethane	<31	<3.1	<31	<31	<31	<160	<160	<78
Chloroethane	<100	<10	<100	<100	<100	<500	<500	<250
2-Chloroethylvinyl ether	<100	<10	<100	<100	<100	<500	<500	<250
Chloroform	<16	<1.6	<16	<16	<16	<80	<80	<40
Dichlorobromomethane	<22	<2.2	<22	<22	<22	<110	<110	<55
Dichlorodifluoromethane	<100	<10	<100	<100	<100	<500	<500	<250
1,1-Dichloroethane	<47	<4.7	<47	<47	<47	<240	<240	<120
1,2-Dichloroethane	<28	<2.8	<28	<28	<28	<140	<140	<70
1,1-Dichloroethene	<28	<2.8	<28	<28	<28	<140	<140	<70
1,2-Dichloropropane	<60	<6	<60	<60	<60	<300	<300	<150
cis-1,3-Dichloropropene	<50	<5	<50	<50	<50	<250	<250	<130
Ethylbenzene	<72	<7.2	<72	<72	<72	<360	<360	<180
Methyl bromide	<100	<10	<100	<100	<100	<500	<500	<250
Methyl chloride	<100	<10	<100	<100	<100	<500	<500	<250
Methylene chloride	114	<2.8	<28	<28	136	398	<140	<70
1,1,2,2-Tetrachloroethane	<69	<6.9	<69	<69	<69	<350	<350	<170
Tetrachloroethene	<41	<4.1	<41	<41	<41	<210	<210	<100
Toluene	<60	<6	<60	<60	<60	928	<300	448
trans-1,2-Dichloroethene	<16	<1.6	<16	<16	<16	<80	<80	<40
1,1,1-Trichloroethane	<38	<3.8	<38	<38	<38	<190	<190	<95
1,1,2-Trichloroethane	<50	<5	<50	<50	<50	<250	<250	<130
Trichloroethene	<19	<1.9	<19	<19	<19	<95	<95	<48
Trichlorofluoromethane	<100	<10	<100	<100	<100	<500	<500	<250
Vinyl chloride	<100	<10	<100	<100	<100	<500	<500	<250
trans-1,3-Dichloropropene	<100	<10	<100	<100	<100	<500	<500	<250
Sub Total 1	385	395	1,246	1,734	2,676	10,266	6,760	9,818
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	NA	NA	<100	NA	NA	NA	NA	NA
Methyl isoamyl ketone	NA	NA	<100	NA	NA	NA	NA	NA
m-Xylene	NA	NA	<100	NA	NA	NA	NA	NA
o-Xylene/p-Xylene	NA	NA	<100	NA	NA	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0
Total VOCs Analyzed	385	395	1,246	1,734	2,676	10,266	6,760	9,818

See last page for footnotes.

Well Number:	P-14	P-14	P-14	P-14	P-14	P-14	P-14	P-14
Sample Date:	6/84	11/85	12/86	5/87	11/87	5/88	11/88	11/89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)								
Acrolein	<1	<10,000	<100	<100,000	<100	<100,000	<50,000	<5000
Acrylonitrile	<1	<10,000	<100	<100,000	<100	<100,000	<50,000	<5000
Benzene	269	<440	<4.4	<4,400	<4.4	<4,400	<2,200	<220
bis(Chloromethyl) ether	<1	<1,000	<10	<10,000	<10	<10,000	<5,000	<500
Bromoform	<1	<470	<4.7	<4,700	<4.7	<4,700	<2,400	<240
Carbon tetrachloride	<1	<280	<2.8	<2,800	<2.8	<2,800	<1,400	<140
Chlorobenzene	23,480	16,000	<6	158,000	<6.0	37,200	12,100	17,500
Chlorodibromomethane	<1	<310	<3.1	<3,100	<3.1	<3,100	<1,600	<160
Chloroethane	<1	<1,000	<10	<10,000	<10	<10,000	<5,000	<500
2-Chloroethylvinyl ether	<1	<1,000	<10	<10,000	<10	<10,000	<5,000	<500
Chloroform	<1	<160	<1.6	<1,600	<1.6	<1,600	<800	<80
Dichlorobromomethane	<1	<220	<2.2	<2,200	<2.2	<2,200	<1,100	<110
Dichlorodifluoromethane	<1	<1,000	<10	<10,000	<10	<10,000	<5,000	<500
1,1-Dichloroethane	<1	<470	<4.7	<4,700	<4.7	<4,700	<2,400	<240
1,2-Dichloroethane	<1	<280	<2.8	<2,800	<2.8	<2,800	<1,400	<140
1,1-Dichloroethene	<1	<280	<2.8	<2,800	<2.8	<2,800	<1,400	<140
1,2-Dichloropropane	<1	<600	<6	<6,000	<6.0	<6,000	<3,000	<300
cis-1,3-Dichloropropene	<1	<500	<5	<5,000	<5.0	<5,000	<2,500	<250
Ethylbenzene	4	<720	<7.2	<7,200	<7.2	<7,200	<5,000	<360
Methyl bromide	<1	<1,000	<10	<10,000	<10	<10,000	<5,000	<500
Methyl chloride	<1	<1,000	<10	<10,000	<10	<10,000	<5,000	<500
Methylene chloride	53	<280	468	22,400	26.5	<2,800	<1,400	280
1,1,2,2-Tetrachloroethane	<1	<690	<6.9	<6,900	<6.9	<6,900	<3,500	<350
Tetrachloroethene	<1	<410	<4.1	<4,100	<4.1	<4,100	<2,100	<210
Toluene	6	<600	<6	<6,000	<6.0	<6,000	<3,000	<300
trans-1,2-Dichloroethene	<1	<160	<1.6	<1,600	<1.6	<1,600	<800	<80
1,1,1-Trichloroethane	<1	<380	<3.8	<3,800	<3.8	<3,800	<1,900	<190
1,1,2-Trichloroethane	<1	<500	<5	<5,000	<5.0	<5,000	<2,500	<250
Trichloroethene	<1	<190	<1.9	<1,900	<1.9	<1,900	<950	<95
Trichlorofluoromethane	<1	<1,000	<10	<10,000	<10	<10,000	<5,000	<500
Vinyl chloride	<1	<1,000	<10	<10,000	<10	<10,000	<5,000	<500
trans-1,3-Dichloropropene	<1	<1,000	<10	<10,000	<10	<10,000	<3,600	<500
Sub Total 1	23,812	16,000	468	180,400	27	37,200	12,100	17,780
Miscellaneous Volatile Organic Compounds								
Acetone	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone (MIBK)	NA	<1,000	NA	NA	<10	NA	NA	NA
Methyl isoamyl ketone	NA	<1,000	NA	NA	<10	NA	NA	NA
m-Xylene	NA	<1,000	NA	NA	<10	NA	NA	NA
o-Xylene/p-Xylene	NA	<1,000	NA	NA	<10	NA	NA	NA
Sub Total 2	0	0	0	0	0	0	0	0
Total VOCs Analyzed	23,812	16,000	468	180,400	27	37,200	12,100	17,780

See last page for footnotes.

Table A-1. Volatile Organic Compounds in Ground Water. Sauget Site R, Monsanto Company, Sauget, Illinois

Well Number:	P-14	P-14
Sample Date:	11/90	11/91
Laboratory:	ETC	ETC
Volatile Organic Compounds (concentrations are in ug/L)		
Acrolein	<100,000	<50,000
Acrylonitrile	<100,000	<50,000
Benzene	<4,400	2,200
bis(Chloromethyl) ether	<10,000	<5,000
Bromoform	<4,700	<2,400
Carbon tetrachloride	<2,800	<1,400
Chlorobenzene	40,900	59,400
Chlorodibromomethane	<3,100	<1,600
Chloroethane	<10,000	<5,000
2-Chloroethylvinyl ether	<10,000	<5,000
Chloroform	<1,600	<800
Dichlorobromomethane	<2,200	<1,100
Dichlorodifluoromethane	<10,000	<5,000
1,1-Dichloroethane	<4,700	<2,400
1,2-Dichloroethane	<2,800	<1,400
1,1-Dichloroethene	<2,800	<1,400
1,2-Dichloropropane	<6,000	<3,000
cis-1,3-Dichloropropene	<5,000	<2,500
Ethylbenzene	<7,200	<3,600
Methyl bromide	<10,000	<5,000
Methyl chloride	<10,000	<5,000
Methylene chloride	<2,800	<1,400
1,1,2,2-Tetrachloroethane	<6,900	<3,500
Tetrachloroethene	<4,100	<2,100
Toluene	<6,000	<3,000
trans-1,2-Dichloroethene	<1,600	<800
1,1,1-Trichloroethane	<3,800	<1,900
1,1,2-Trichloroethane	<5,000	<2,500
Trichloroethene	<1,900	<950
Trichlorofluoromethane	<10,000	<5,000
Vinyl chloride	<10,000	<5,000
trans-1,3-Dichloropropene	<10,000	<5,000
Sub Total 1	40,900	61,600
Miscellaneous Volatile Organic Compounds		
Acetone	NA	NA
Methyl ethyl ketone	NA	NA
Carbon disulfide	NA	NA
2-Hexanone	NA	NA
Styrene	NA	NA
Methylisobutyl ketone (MIBK)	NA	NA
Methyl isoamyl ketone	NA	NA
m-Xylene	NA	NA
o-Xylene/p-Xylene	NA	NA
Sub Total 2	0	0
Total VOCs Analyzed	40,900	61,600

NA Not analyzed.
* Replicate analyses.
** Prior to analysis, this sample was held by Envirodyne Engineers, Inc. longer than the maximum allowable USEPA holding time.
ETC Environmental Testing and Certification, Edison, New Jersey.
EEI Envirodyne Engineers Inc., St. Louis, Missouri.
SL Savannah Laboratories and Environmental Testing, Savannah, Georgia.
SLES Savannah Laboratories and Environmental Services, Inc., Savannah Georgia (formerly Savannah Laboratories and Environmental Testing, Savannah, Georgia).
+ Concentration includes both the cis and trans isomers.
# Concentration includes ortho, para, and meta isomers.
J Estimated value.
b) Envirodyne Engineers, Inc. reported 4 ug/L, 18 ug/L and 10 ug/L for wells GM-25B, GM-27B and GM27C, respectively. Their results did not differentiate between the xylene compounds.
c) Envirodyne Engineers, Inc. reported 66 ug/L, greater than 119 ug/L and 1 ug/L for wells GM-28B, GM-28C and GM-30, respectively. Their results did not differentiate between the xylene compounds.

Table A-2. Acid Extractable Organic Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget, Illinois.

Well Number:	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27C	GM-27C	GM-27C	GM-2
Sample Date:	9/84**	11/85	2/86	11/87	11/91	9/84**	11/85	2/86	12/86
Laboratory:	EEI	ETC	ETC	ETC	ETC	EEI	ETC	ETC	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	12	<3.3	<3.4	<3.8	<330	<6	9.8	6.9	NA
2,4-Dichlorophenol	115	3.3	<2.8	<3.1	<270	<8	<2.7	<2.8	NA
2,4-Dimethylphenol	<10	<2.7	<2.8	7.44	<270	<10	<2.7	<2.8	NA
4,6-Dinitro-o-cresol	<38	<24	<25	<27	<2400	<38	<24	<24	NA
2,4-Dinitrophenol	<52	<42	<43	<48	<4200	<52	<42	<43	NA
2-Nitrophenol	<11	<3.6	<3.7	<4.1	<360	<11	<3.6	<3.7	NA
4-Nitrophenol	<35	<2.4	<2.5	<2.7	<240	<35	<2.4	<2.4	NA
p-Chloro-m-cresol	<8	<3	<3.1	<3.4	<300	<8	<3	<3.1	NA
Pentachlorophenol	170	<3.6	<3.7	<4.1	<360	<34	<3.6	<3.7	NA
Phenol	6	<1.5	2.2	<1.7	1910	<4	158	<1.5	NA
2,4,6-Trichlorophenol	77	<2.7	<2.8	<3.1	<270	<12	<2.7	<2.8	NA
4-Chlorophenol	<10	<10	<10	<11	NA	<10	164	111	<11
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Acid Compounds Analyzed	380	3.3	2.2	7.44	1910	0	331.8	117.9	0

See last page for footnotes.

Well Number:	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-28B
Sample Date:	5/87	11/87	5/88	11/88	11/89	11/89	11/90	11/91	9/84**
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	EEI
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	NA	6.34	4.7	<3.4	12.7	12.7	<3.3	<33	24
2,4-Dichlorophenol	NA	<3.1	<3.1	<2.8	<3.1	<3.1	<2.7	<27	<8
2,4-Dimethylphenol	NA	8.44	18.6	59.9	18.3	18.3	<2.7	<27	<10
4,6-Dinitro-o-cresol	NA	<27	<27	<24	<28	<28	<24	<240	<38
2,4-Dinitrophenol	NA	<48	<48	<43	<48	<48	<42	<420	<52
2-Nitrophenol	NA	<4.1	<4.1	<3.7	<4.1	<4.1	<3.6	<36	<11
4-Nitrophenol	NA	<2.7	<2.7	<2.4	<2.8	<2.8	<2.4	<24	<35
p-Chloro-m-cresol	NA	<3.4	<3.4	<3.1	<3.4	<3.4	<3.0	<30	<8
Pentachlorophenol	NA	<4.1	<4.1	<3.7	<4.1	<4.1	<3.6	<36	9
Phenol	NA	<1.7	2.7	113	<1.7	<1.7	<1.5	<15	<4
2,4,6-Trichlorophenol	NA	<3.1	<3.1	<2.8	<3.1	<3.1	<2.7	<27	8
4-Chlorophenol	<10	25.0	24.9	387	<11	<11	<10	<100	<10
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Acid Compounds Analyzed	0	39.78	50.9	559.9	31	31	0	0	41

See last page for footnotes.

Table A-2. Acid Extractable Organic Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget, Illinois.

Well Number:	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-
Sample Date:	11/85	2/86	12/86	5/87	11/87	5/88	3/89	11/89	90
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	256	481	NA	NA	5,570	5,610	1140	5510	111
2,4-Dichlorophenol	13.3	767	NA	NA	18,600	34,700	5070	1930	2700
2,4-Dimethylphenol	134	224	NA	NA	1,220	2,040	311	531	24.8
4,6-Dinitro-o-cresol	<26	<25	NA	NA	<1200	<300	<250	<260	<24
2,4-Dinitrophenol	<45	<43	NA	NA	<2100	<520	<430	<460	<42
2-Nitrophenol	<3.9	<3.7	NA	NA	<180	<44	<37	<40	<3.6
4-Nitrophenol	<2.6	<2.5	NA	NA	<120	<30	<25	<26	<2.4
p-Chloro-m-cresol	<3.2	<3.1	NA	NA	<150	<37	<31	<33	<3.0
Pentachlorophenol	<3.9	33.1	NA	NA	<180	1,270	296	<40	43.7
Phenol	264	224	NA	NA	21,300	29,500	3390	7840	352
2,4,6-Trichlorophenol	<2.9	310	NA	NA	5,950	13,800	<28	501	457
4-Chlorophenol	2,490	3,440	684	<56	8,070	11,900	6,580	<110	<10
2-Methylphenol	NA	NA	NA	NA	NA	NA	<1,030	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	840	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	<1,030	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Acid Compounds Analyzed	3157.3	5479.1	684	0	60710	98820	17627	16312	3688.5

See last page for footnotes.

Well Number:	GM-28B	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C
Sample Date:	11/91	9/84**	11/85	2/86	12/86	5/87	11/87	5/88	11 88
Laboratory:	ETC	EEI	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	206	NA	107	237	NA	NA	868	1,120	<3 8
2,4-Dichlorophenol	804	NA	153	818	NA	NA	4,430	8,440	4,630
2,4-Dimethylphenol	<55	NA	150	186	NA	NA	253	192	42 7
4,6-Dinitro-o-cresol	<490	NA	<24	<24	NA	NA	<270	<34	<27
2,4-Dinitrophenol	<850	NA	<42	<42	NA	NA	<470	<59	<48
2-Nitrophenol	<73	NA	<3.6	<3.6	NA	NA	<40	<5.1	<4 1
4-Nitrophenol	<49	NA	<2.4	<2.4	NA	NA	<27	<3.4	<2.7
p-Chloro-m-cresol	<61	NA	<3	<3	NA	NA	<33	<4.2	<3.4
Pentachlorophenol	<73	NA	<3.6	26.4	NA	NA	113	116	57
Phenol	442	NA	16.6	67.9	NA	NA	1,260	2,910	<1 7
2,4,6-Trichlorophenol	225	NA	14.6	149	NA	NA	1,660	1,570	<3 1
4-Chlorophenol	1,380	NA	1,240	1,920	439	<64	2,250	2,610	691
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Acid Compounds Analyzed	3057	0	1681.2	3404.3	439	0	10834	16958	5420.7

See last page for footnotes.

Table A-2. Acid Extractable Organic Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget, Illinois.

Well Number:	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-55C	GM-55C	GM-55C	GM-
Sample Date:	3/89	3/89 *	11/89	11/90	11/1/91	11/87	5/88	11/88	89
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	<3400	<330	205	<3,300	149	10.9	31.0	<370	<400
2,4-Dichlorophenol	<2800	3,630	461	<2,700	497	<2.8	196	<300	417
2,4-Dimethylphenol	<2800	<270	39.0	<2,700	<55	<2.8	4.3	<300	<330
4,6-Dinitro-o-cresol	<24000	<2400	<28	<24,000	<490	<25	<28	<2,700	<2900
2,4-Dinitrophenol	<43000	<4200	<49	<42,000	<860	<44	<49	<4,700	<5100
2-Nitrophenol	<3700	<360	<4.2	<3,600	<73	<3.8	<4.2	<400	<430
4-Nitrophenol	<2400	<240	<2.8	<2,400	<49	<2.5	<2.8	<270	<290
p-Chloro-m-cresol	<3100	<300	<3.5	<3,000	<61	<3.1	<3.5	<340	<360
Pentachlorophenol	<3700	<360	<4.2	<3,600	<73	<3.8	<4.2	<400	<430
Phenol	<1500	263	119	<1,500	229	<1.6	24.6	<170	<180
2,4,6-Trichlorophenol	<2800	415	383	<2,700	78.4	<2.8	22.0	<300	<330
4-Chlorophenol	<10,000	<1,000	<12	<10,000	<200	<10	254	<1,100	<1,200
2-Methylphenol	<10,200	<10,000	NA	NA	NA	NA	NA	<1,120	NA
4-Methylphenol	<10,200	<10,000	NA	NA	NA	NA	NA	<1,120	NA
Benzoic acid	<10,200	<10,000	NA	NA	NA	NA	NA	<1,120	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Acid Compounds Analyzed	0	4308	1207	0	953.4	10.9	531.9	0	417

See last page for footnotes.

Well Number:	GM-55C	GM-55C	GM-56C	GM-56C	GM-56C	GM-56C	GM-56C	GM-56C	GM-56C
Sample Date:	11/90	11/91	11/87	5/88	11/88	11/88	11/89	11/90	11/91
Laboratory:	ETC	ETC	ETC	ETC	ETC	SL	ETC	ETC	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	<33	<340	2,020	4,680	239	240	584	<340	2,650
2,4-Dichlorophenol	<27	281	6,010	5,190	3,010	3,100	1,410	1,910	1,380
2,4-Dimethylphenol	58.5	<280	348	563	<160	<100	<3.1	<280	<27
4,6-Dinitro-o-cresol	<240	<2500	<1200	<29	<1,500	<500	<27	<2500	<240
2,4-Dinitrophenol	<420	<4300	<2100	<51	<2,600	<500	<48	<4300	<420
2-Nitrophenol	<36	<370	<180	<4.4	<220	<100	<4.1	<370	<36
4-Nitrophenol	<24	<250	<120	<2.9	<150	<500	<2.7	<250	<24
p-Chloro-m-cresol	<30	<310	<150	<3.7	<180	<100	<3.4	<310	<30
Pentachlorophenol	<36	<370	<180	18	<220	<100	<4.1	<370	<36
Phenol	<15	<150	2,340	5,100	1,880	210	<1.7	233	9,150
2,4,6-Trichlorophenol	62.5	<280	2,020	1,830	1,420	1,300	880	1,050	<27
4-Chlorophenol	<100	<1000	9,200	14,100	<610	<100	<11	<1000	9,440
2-Methylphenol	NA	NA	NA	NA	<610	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	<610	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	<610	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Acid Compounds Analyzed	121	281	21938	31480.9	6549	4850	2874	3193	22620

See last page for footnotes.

Table A-2. Acid Extractable Organic Compounds in Ground Water. Sauget Site R. Monsanto Company, Sauget, Illinois.

Well Number:	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C
Sample Date:	11/87	11/87*	5/88	5/88*	11/88	11/88	3/89	11/89	11/89*
Laboratory:	ETC	ETC	ETC	ETC	ETC	SL	ETC	ETC	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	5,690	5,460	4,680	8,440	5,110	8,500	1,280	4 390	5,330
2,4-Dichlorophenol	4,530	4,560	5,990	9,470	6,310	7,800	4,260	8,750	9,710
2,4-Dimethylphenol	196	<160	180	209	<300	<100	<28	192	200
4,6-Dinitro-o-cresol	<1300	<1400	<240	<25	<2,700	<500	<250	<290	<250
2,4-Dinitrophenol	<2300	<2400	<420	<43	<4,700	<500	<444	<500	<440
2-Nitrophenol	<200	<210	<36	<3.7	<400	<100	<38	<43	<38
4-Nitrophenol	<130	<140	<24	<2.5	<270	<500	<25	<29	<25
p-Chloro-m-cresol	<160	<170	<30	<3.1	<330	<100	<32	<36	<32
Pentachlorophenol	<200	<210	<36	24	<400	<100	<38	<43	<38
Phenol	28,700	33,000	14,400	28,000	13,700	13,000	3,100	7,650	10,300
2,4,6-Trichlorophenol	992	922	1,250	1,580	1,120	1,300	523	1,490	1,260
4-Chlorophenol	11,300	11,700	7,530	12,300	13,700	18,000	4,310	5,360	3,630
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Acid Compounds Analyzed	51408	55642	34030	60023.4	39940	48600	13473	27832	30430

See last page for footnotes.

Well Number:	GM-57C	GM-57C	GM-57C	GM-57C	GM-62A	GM-62A	GM-62B	GM-62B	GM-62B
Sample Date:	11/90	11/90*	11/91	11/91*	8/88	11/88	8/88	8/88*	11/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	4,270	3,480	879	878	<3.5	<3.8	<3.5	<3.4	<3.4
2,4-Dichlorophenol	11,990	12,800	3,660	4,120	<2.8	<3.1	<2.9	<2.8	<2.8
2,4-Dimethylphenol	200	222	<140	<140	<2.8	<3.1	<2.9	<2.8	<2.8
4,6-Dinitro-o-cresol	<1,200	<250	<1200	<1200	<25	<27	<26	<24	<24
2,4-Dinitrophenol	<2,100	<430	<2100	<2100	<44	<48	<45	<43	<43
2-Nitrophenol	<180	<37	<180	<180	<3.8	<4.1	<3.8	<3.7	<3.7
4-Nitrophenol	<120	<25	<120	<120	<2.5	<2.7	<2.6	<2.4	<2.4
p-Chloro-m-cresol	<150	<31	<150	<150	<3.2	<3.4	<3.2	<3.1	<3.1
Pentachlorophenol	<180	80.8	<180	<180	<3.8	<4.1	<3.8	<3.7	<3.7
Phenol	4,490	4,460	961	963	<1.6	<1.7	<1.6	<1.5	<1.5
2,4,6-Trichlorophenol	3,030	2,680	1,040	1,220	<2.8	<3.1	<2.9	<2.8	<2.8
4-Chlorophenol	5,110	6,710	2,360	2,690	<11	<11	<11	<10	<10
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Acid Compounds Analyzed	29000	30432.8	8900	9871	0	0	0	0	0

See last page for footnotes.

Table A-2. Acid Extractable Organic Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget, Illinois

Well Number:	GM-62B	GM-62C	GM-62C	B-24A	B-25A	B-25A	B-25A	B-25B	B-25B
Sample Date:	11/88	8/88	11/88	2/86	6/84	11/85	3/87	6/84	11/85
Laboratory:	SL	ETC	ETC	ETC	EEI	ETC	ETC	EEI	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	<10	<3.3	<3.6	202,000	14900	89,200	116,000	10,200	23,300
2,4-Dichlorophenol	<10	<2.7	<3.0	62,400	13300	1,520,000	182,000	34,800	52,100
2,4-Dimethylphenol	<10	<2.7	<3.0	<1,100	<200	<26	1,620	<200	48.6
4,6-Dinitro-o-cresol	<50	<24	<26	<10,000	<760	<240	<13,000	<760	<240
2,4-Dinitrophenol	<50	<42	<46	<18,000	<1,040	<410	<24,000	<1,040	<420
2-Nitrophenol	<10	<3.6	<4.0	<1,500	<220	<35	<2,000	<220	<36
4-Nitrophenol	<50	<2.4	<2.6	<1,000	<700	167	<1,300	497	2,320
p-Chloro-m-cresol	<10	<3.0	<3.3	<1,300	<160	<29	<1,700	<160	<30
Pentachlorophenol	<10	<3.6	<4.0	<1,500	<680	546	<2,000	<680	<36
Phenol	<10	<1.5	<1.6	280,000	34900	965,000	403,000	39,400	32,700
2,4,6-Trichlorophenol	<10	<2.7	<3.0	21,900	5160	13,900	25,900	<240	6,870
4-Chlorophenol	<10	<10	<11	37,200	NA	42,500	NA	NA	22,600
2-Methylphenol	NA	NA	NA	<4,170	NA	NA	<5,600	NA	NA
4-Methylphenol	NA	NA	NA	<4,170	NA	NA	47,000	NA	NA
Benzoic acid	NA	NA	NA	<4,170	NA	NA	50,800	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	<5,600	NA	NA
Total Acid Compounds Analyzed	0	0	0	603500	68260	2631313	826320	84897	139938.6

See last page for footnotes.

Well Number:	B-26A	B-27B	B-27B	B-28A	B-28A	B-29A	B-29A	B-29B	B-29B
Sample Date:	3/87	9/84**	9/84*	2/86	3/87	6/84	11/85	6/84	6/84*
Laboratory:	ETC	EEI	EEI	ETC	ETC	EEI	ETC	EEI	EEI
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	10.3	NA	NA	<3.5	10.5	176,000	718,000	103,000	116,000
2,4-Dichlorophenol	<2.7	NA	NA	<2.9	<2.7	12,900	44,700	33,800	97,400
2,4-Dimethylphenol	<2.7	NA	NA	<2.9	<2.7	7,740	44,500	38,300	13,500
4,6-Dinitro-o-cresol	<24	NA	NA	<26	<24	<760	<2,400	<7,600	<760
2,4-Dinitrophenol	<42	NA	NA	<45	<42	<1,040	<4,200	<10,400	<1,040
2-Nitrophenol	<3.6	NA	NA	<3.8	<3.6	<220	<360	<2,200	<220
4-Nitrophenol	<2.4	NA	NA	<2.6	<2.4	<700	<240	7,590	<700
p-Chloro-m-cresol	<3	NA	NA	<3.2	<3	<160	<300	<1,600	<160
Pentachlorophenol	<3.6	NA	NA	<3.8	<3.6	9,280	10,600	1,700	<680
Phenol	5.4	NA	NA	<1.6	<1.5	657,000	771,000	609,000	1,070,000
2,4,6-Trichlorophenol	<2.7	NA	NA	<2.9	<2.7	11,300	15,300	31,200	16,000
4-Chlorophenol	NA	NA	NA	<11	NA	NA	299,000	NA	NA
2-Methylphenol	<10	NA	NA	NA	<10	NA	NA	NA	NA
4-Methylphenol	<10	NA	NA	NA	<10	NA	NA	NA	NA
Benzoic acid	<10	NA	NA	NA	<10	NA	NA	NA	NA
2,4,5-Trichlorophenol	<10	NA	NA	NA	<10	NA	NA	NA	NA
Total Acid Compounds Analyzed	15.7	0	0	0	10.5	874220	1903100	824590	1312900

See last page for footnotes.

Well Number:	B-29B	B-29B	B-29B	B-30B	B-101	GM-106	GM-106	GM-106	GM-
Sample Date:	6/84#	11/84	11/85	9/84**	9/84**	11/85	2/86	2/86*	12/86
Laboratory:	ETC	EEI	ETC	EEI	EEI	ETC	ETC	ETC	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	27,400	953	70,900	NA	5,630	15.7	52.1	40.9	26.5
2,4-Dichlorophenol	68,100	<250	37,500	NA	31,200	22	133	128	38.5
2,4-Dimethylphenol	18,700	<250	21,200	NA	<10	<2.7	4.8	4.5	<2.9
4,6-Dinitro-o-cresol	<25,000	<2500	<480	NA	<38	<24	<25	<24	<26
2,4-Dinitrophenol	<25,000	<2500	<840	NA	<52	<42	<43	<43	<45
2-Nitrophenol	<2,500	<250	<72	NA	<11	<3.6	<3.7	<3.7	<3.8
4-Nitrophenol	3,690	<250	1,860	NA	<35	<2.4	<2.5	3	<2.6
p-Chloro-m-cresol	<2,500	<250	<60	NA	<8	<3	<3.1	<3.1	<3.2
Pentachlorophenol	3,690	<250	3,090	NA	1,360	<3.6	<3.7	<3.7	<3.8
Phenol	19,800	5,010	133,000	NA	<4	35.9	65.2	53.5	12.9
2,4,6-Trichlorophenol	16,000	<250	11,800	NA	14,600	52.9	207	181	52.1
4-Chlorophenol	NA	<250	49,900	NA	<10	<10	37.1	36.3	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Acid Compounds Analyzed	157380	5963	329250	0	52790	126.5	499.2	447.2	130

See last page for footnotes.

Well Number:	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106	P-1	P-1
Sample Date:	5/87	11/87	5/88	11/88	11/89	11/90	11/91	9/84**	3/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	EEI	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	58.7	174	261	266	<380	242	307	<6	5.6
2,4-Dichlorophenol	58.7	552	1,260	884	1,290	542	1,440	2	<3.0
2,4-Dimethylphenol	4.4	14.9	19.1	<27	<310	21.3	<54	<10	<3.0
4,6-Dinitro-o-cresol	<24	<24	<25	<240	<2800	<24	<480	<38	<27
2,4-Dinitrophenol	<42	<42	<43	<420	<4800	<42	<840	<52	<47
2-Nitrophenol	<3.6	<3.6	<3.7	<36	<410	<3.6	<72	<11	<4.0
4-Nitrophenol	<2.4	<2.4	<2.5	<24	<280	<2.4	<48	<35	<2.7
p-Chloro-m-cresol	<3	<3.0	<3.1	<30	<340	<3.0	<60	<8	<3.3
Pentachlorophenol	<3.6	10.9	9.6	<36	<410	17.9	<72	1	<4.0
Phenol	1.8	71.3	184	104	224	117	331	<4	<1.7
2,4,6-Trichlorophenol	82.2	667	1,070	1,100	1,000	976	1,420	1	<3.0
4-Chlorophenol	NA	183	NA	NA	<1100	NA	NA	<10	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	<11
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	<11
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	<11
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	<11
Total Acid Compounds Analyzed	205.8	1673.1	2803.7	2354	2514	1916.2	3498	4	5.6

See last page for footnotes.

Table A-2. Acid Extractable Organic Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget, Illinois.

Well Number:	P-1	P-2	P-2	P-2	P-3	P-6	P-6	P-6	
Sample Date:	11/87	6/84	11/85	11/87	11/87	6/84	11/85	11/87	11/91
Laboratory:	EEI	EEI	ETC	ETC	ETC	EEI	ETC	ETC	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	11.3	16	8.5	8.82	<3.3	<1	<3.7	<3.3	<3.3
2,4-Dichlorophenol	<2.7	40	<2.7	<2.8	<2.7	<1	<3.1	<2.7	<2.7
2,4-Dimethylphenol	<2.7	<1	<2.7	<2.8	<2.7	<1	<3.1	<2.7	<2.7
4,6-Dinitro-o-cresol	<24	<	<24	<25	<24	<1	<27	<24	<24
2,4-Dinitrophenol	<42		<42	<43	<42	<1	<47	<42	<42
2-Nitrophenol	<3.6	<1	<3.6	<3.7	<3.6	<1	<4.1	<3.6	<3.6
4-Nitrophenol	<2.4	<1	<2.4	<2.5	<2.4	<1	<2.7	<2.4	<2.4
p-Chloro-m-cresol	<3.0	<1	<3	<3.1	<3.0	<1	<3.4	<3.0	<3.0
Pentachlorophenol	<3.6	1	<3.6	<3.7	<3.6	<1	<4.1	<3.6	<3.6
Phenol	<1.5	291	<1.5	70.4	22.8	6	<1.7	<1.5	<1.5
2,4,6-Trichlorophenol	<2.7	7	<2.7	<2.8	<2.7	<1	<3.1	<2.7	<2.7
4-Chlorophenol	12.7	NA	<10	<10	<10	NA	<11	<10	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Acid Compounds Analyzed	24	355	8.5	79.22	22.8	6	0	0	0

See last page for footnotes.

Well Number:	P-7	P-7	P-7	P-7	P-7	P-7	P-7	P-7	P-7
Sample Date:	6/84	11/85	12/86	5/87	3/87	11/87	5/88	11/88	3/89
Laboratory:	EEI	ETC	ETC	EEI	ETC	ETC	ETC	ETC	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	10,200	2,660	776	866	1,660	331	1,590	982	580
2,4-Dichlorophenol	8,180	7,790	2,540	2,120	<30	748	7,960	5,490	1,910
2,4-Dimethylphenol	1,930	<5.5	<2.7	<2.7	<30	<2.8	<3.1	<28	<28
4,6-Dinitro-o-cresol	<760	<48	<24	<24	<260	<24	<27	<250	<250
2,4-Dinitrophenol	<1,040	<85	<42	<42	<460	<43	<48	<430	<430
2-Nitrophenol	<220	<7.3	<3.6	<3.6	<40	<3.7	<4.1	<37	<37
4-Nitrophenol	<700	133	68.6	<2.4	130	18.2	79.5	<25	<25
p-Chloro-m-cresol	<160	<6.1	<3.0	<3.0	<33	<3.1	<3.4	<31	<31
Pentachlorophenol	<680	<7.3	<3.6	<3.6	<40	<3.7	<4.1	<37	<37
Phenol	123,000	22,300	9,410	8,930	11,400	3,090	19,000	7,410	6,750
2,4,6-Trichlorophenol	1,920	3,430	599	602	2170	336	2820	3,180	509
4-Chlorophenol	NA	13,100	2,600	4,820	NA	4,650	5,660	2,130	2,650
2-Methylphenol	NA	NA	NA	NA	<110	NA	NA	NA	<1,030
4-Methylphenol	NA	NA	NA	NA	<110	NA	NA	NA	<1,030
Benzoic acid	NA	NA	NA	NA	1,720	NA	NA	NA	<1,030
2,4,5-Trichlorophenol	NA	NA	NA	NA	<110	NA	NA	NA	NA
Total Acid Compounds Analyzed	145230	49413	15993.6	17338	17080	9173.2	37109.5	19192	12399

See last page for footnotes.

Well Number:	P-7	P-7	P-7	P-8	P-8	P-8	P-8	P-8	[illegible]
Sample Date:	11/89	11/90	11/91	3/89	6/84	11/85	12/86	5/87	11/87
Laboratory:	ETC	ETC	ETC	ETC	BEI	ETC	ETC	ETC	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	2,550	1,080	402	6,450	1	27.2	NA	NA	1 330
2,4-Dichlorophenol	7,090	4,530	2,000	3,680	<1	<2.7	NA	NA	413
2,4-Dimethylphenol	<32	<54	<2.8	<1400	1	32.1	NA	NA	<54
4,6-Dinitro-o-cresol	<280	<480	<25	<12000	<1	<24	NA	NA	<480
2,4-Dinitrophenol	<490	<840	<43	<21000	<1	<42	NA	NA	<840
2-Nitrophenol	<42	<72	<3.7	<1800	<1	<3.6	NA	NA	<72
4-Nitrophenol	<28	<48	57.5	<1200	<1	<2.4	NA	NA	<48
p-Chloro-m-cresol	<35	<60	<3.1	<1500	<1	<3	NA	NA	<60
Pentachlorophenol	<42	<72	<3.7	<1800	<1	<3.6	NA	NA	<72
Phenol	21,500	5,930	4,550	8,490	9	<1.5	NA	NA	10,400
2,4,6-Trichlorophenol	3,810	1,720	741	<1400	<1	<2.7	NA	NA	112
4-Chlorophenol	<120	<200	<10	<5100	NA	182	<11	<11	3,820
2-Methylphenol	NA	NA	NA	<5100	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	<5100	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	<5100	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Acid Compounds Analyzed	34950	13260	7750.5	18620	11	241.3	0	0	16075

See last page for footnotes.

Well Number:	P-8	P-8	P-8	P-8	P-8	P-10	P-10	P-11	P-11
Sample Date:	5/88	11/88	11/89	11/90	11/91	9/84**	11/87	9/84**	3/87
Laboratory:	ETC	ETC	ETC	ETC	ETC	EEI	ETC	EEI	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	5,290	8,100	10,700	3,590	5,050	<6	22.4	<6	<3.6
2,4-Dichlorophenol	3,880	4,450	9,780	4,140	5,230	<8	<2.7	<8	<3.0
2,4-Dimethylphenol	410	318	<1500	185	111	<10	9.64	<10	<3.0
4,6-Dinitro-o-cresol	<2,600	<2,400	<14000	<240	<480	<38	<24	<38	<26
2,4-Dinitrophenol	<4,500	<4,300	<24000	<430	<850	<52	<42	<52	<46
2-Nitrophenol	<380	<370	<2000	<37	<73	<11	<3.6	<11	<4.0
4-Nitrophenol	<260	<240	<1400	<24	<48	<35	<2.4	<35	<2.6
p-Chloro-m-cresol	<320	<310	<1700	<31	<61	<8	<3.0	<8	<3.3
Pentachlorophenol	<380	<370	<2000	<37	<73	<34	<3.6	<34	<4.0
Phenol	38,700	6,080	29,200	10,800	9,320	<4	69.3	<4	5.1
2,4,6-Trichlorophenol	446	370	<1500	452	414	<12	<2.7	<12	<3
4-Chlorophenol	13,400	9,600	19400	6,200	28,600	<10	2,330	<10	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	<11
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	<11
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	<11
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	<11
Total Acid Compounds Analyzed	62126	28918	69080	25367	48725	0	2431.34	0	5.1

See last page for footnotes.

Well Number:	P-11	P-12	P-12	P-13	P-13	P-13	P-13	P-13	P-
Sample Date:	11/87	9/84**	11/87	6/84	6/84*	6/84#	11/85	11/87	6/84
Laboratory:	ETC	EEI	ETC	EEI	EEI	ETC	ETC	ETC	EEI
Acid Extractable Organic Compounds (concentrations are in ug/L)									
2-Chlorophenol	<3.4	<6	45.7	<1	<1	<25	<3.3	3.80	<1
2,4-Dichlorophenol	<2.8	<8	<2.7	<1	<1	<25	<2.7	<2.7	<1
2,4-Dimethylphenol	<2.8	<10	32.7	<1	<1	<25	<2.7	<2.7	<1
4,6-Dinitro-o-cresol	<25	<38	<24	<1	<1	<250	<24	<24	<1
2,4-Dinitrophenol	<43	<52	<42	<1	<1	<250	<42	<42	<1
2-Nitrophenol	<3.7	<11	<3.6	<1	<1	<25	<3.6	<3.6	<1
4-Nitrophenol	<2.5	<35	<2.4	<1	<1	<25	<2.4	<2.4	<1
p-Chloro-m-cresol	<3.1	<8	<3.0	<1	<1	<25	<3	<3.0	<1
Pentachlorophenol	<3.7	<34	<3.6	<1	<1	<25	<3.6	<3.6	<1
Phenol	<1.5	<4	2,680	<1	4	<25	4.3	<1.5	1
2,4,6-Trichlorophenol	<2.8	<12	<2.7	<1	<1	<25	<2.7	<2.7	<1
4-Chlorophenol	<10	<10	3,380	NA	NA	NA	<10	<10	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Acid Compounds Analyzed	0	0	6138.4	0	4	0	4.3	3.8	1

See last page for footnotes.

Well Number:	P-14	P-14
Sample Date:	11/85	11/87
Laboratory:	ETC	ETC
Acid Extractable Organic Compounds (concentrations are in ug/L)		
2-Chlorophenol	74.5	26.6
2,4-Dichlorophenol	<2.8	<3.0
2,4-Dimethylphenol	<2.8	<3.0
4,6-Dinitro-o-cresol	<25	<26
2,4-Dinitrophenol	<43	<46
2-Nitrophenol	<3.7	<4.0
4-Nitrophenol	<2.5	<2.6
p-Chloro-m-cresol	<3.1	<3.3
Pentachlorophenol	<3.7	<4.0
Phenol	<1.5	<1..6
2,4,6-Trichlorophenol	<2.8	<3.0
4-Chlorophenol	29.4	12.9
2-Methylphenol	NA	NA
4-Methylphenol	NA	NA
Benzoic acid	NA	NA
2,4,5-Trichlorophenol	NA	NA
Total Acid Compounds Analyzed	103.9	39.5

NA Not analyzed.
* Replicate sample.
**
EEI Envirodyne Engineers Inc., St. Louis, Missouri.
ETC Environmental Testing and Certification, Edison, New Jersey.
SLES Savannah Laboratories and Environmental Services, Inc., Savannah Georgia (formerly Savannah Laboratories and Environmental Testing, Savannah, Georgia).
SL Savannah Laboratories and Environmental Testing, Savannah, Georgia.
J Estimated value.
D Concentration determined at a secondary dilution factor.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois.

Well Number:	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	[illegible]
Sample Date:	9/84**	11/85	2/86	11/87	11/89	11/90	11/91	9/84
Laboratory:	EEI	ETC	ETC	ETC	ETC	ETC	ETC	EE
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<4	<1.9	<2.0	<2.2	<210	<100	<190	<
Acenapthylene	<3	<3.5	<3.6	<4.0	<390	<190	<350	<
Anthracene	<4	<1.9	<2.0	<2.2	<210	<100	<190	<.
Benzidine	<60	<44	<45	<50	<4900	<2,300	<4400	<6
Benzo(a)anthracene	<9	<7.8	<8	<8.9	<870	<410	<780	<
Benzo(a)pyrene	<12	<2.5	<2.6	<2.8	<280	<130	<250	<1.
Benzo(b)fluoroanthene	<11	<4.8	<4.9	<11	<530	<260	<480	<1
Benzo(ghi)perylene	<14	<4.1	<4.2	<4.7	<460	<220	<410	<1.
Benzo(k)fluoranthene	<11	<3.5	<3.6	<4.0	<280	<130	<250	<1
bis(2-Chloroethoxy)methane	<4	<5.3	<5.5	<6.0	<590	<280	<530	<.
bis(2-Chloroethyl)ether	<4	<5.7	<5.9	<6.5	<630	<300	<570	<.
bis(2-Chloroisopropyl)ether	<3	<5.7	<5.9	<6.5	<630	<300	<570	<
bis(2-Ethylhexyl)phthalate	9	<10	11.7	<11	<1100	<530	<1000	.
4-Bromophenyl phenyl ether	<16	<1.9	<2	<2.2	<210	<100	<190	<1
Butyl benzyl phthalate	<13	<10	<10	<11	<1100	<530	<1000	<1
2-Chloronaphthalene	<4	<1.9	<2	<2.2	<210	<100	<190	<.
4-Chlorophenyl phenyl ether	<9	<4.2	<4.3	<4.8	<470	<220	<420	<9
Chrysene	<9	<2.5	<2.6	3.77	<280	<130	<250	<9
Dibenzo(a,h)anthracene	<16	<10	<10	<11	<1100	<130	<250	<1
1,2-Dichlorobenzene	3	2.6	<2	<2.2	<210	<100	<190	3
1,3-Dichlorobenzene	<6	<1.9	<2	<2.2	<210	<100	<190	<6
1,4-Dichlorobenzene	11	13.3	27.6	397	617	812	888	2
3,3-Dichlorobenzidine	<161	<17	<17	<19.3	<1800	<878	<1650	<161
Diethylphthalate	<4	<10	<10	<11	<1100	<530	<1000	<4
Dimethylphthalate	<4	<10	<10	<11	<1100	<530	<1000	<4
Di-n-butylphthalate	6	<10	<10	<11	<1100	<530	<1000	6
2,4-Dinitrotoluene	<14	<5.7	<5.9	<6.5	<630	<300	<570	<14
2,6-Dinitrotoluene	<16	<1.9	<2.0	<2.2	<210	<100	<190	<16
Di-n-octylphthalate	<6	<10	<10	<11	<1100	<530	<1000	<6
1,2-Diphenylhydrazine	<10	<10	<10	<11	<1100	<530	<1000	<10
Fluoranthene	<5	<2.2	<2.3	6.58	<240	<120	<220	<5
Fluorene	<4	<1.9	<2.0	<2.2	<210	<100	<190	<4
Hexachlorobenzene	<15	<1.9	<2.0	<2.2	<210	<100	<190	<15
Hexachlorobutadiene	<13	<0.9	<0.9	<1.0	<100	<48	<90	<13
Hexachlorocyclopentadiene	<12	<10	<10	<11	<1100	<530	<1000	<12
Hexachloroethane	<10	<1.6	<1.6	<1.8	<180	<85	<160	<10
Indeno(1,2,3-c,d)pyrene	<7	<4.7	<4.8	<5.3	<520	<200	<370	<7
Isophorone	<2	<2.2	<2.3	<2.5	<240	<120	<220	<2
Naphthalene	<2	<1.6	<1.6	23.9	<180	<85	<160	<2
Nitrobenzene	<5	<1.9	<2.0	<2.2	<210	<100	<190	<5
N-Nitrosodimethylamine	<10	<10	<10	<11	<1100	<530	<1000	<10
N-Nitrosodi-n-propylamine	<6	<10	<10	<11	<1100	<530	<1000	<6
N-Nitrosodiphenylamine	<82	<1.9	<2.0	2.84	<210	<100	<190	<82
Phenanthrene	<4	<5.4	<5.6	<6.1	<600	<290	<540	<4
Pyrene	<5	<1.9	<2.0	5.59	<210	<100	<190	<5
1,2,4-Trichlorobenzene	<7	<1.9	<2.0	<2.2	<210	<100	<190	<7
Sub Total 1	29	15.9	39.3	439.7	617	812	888	17

See last page for footnotes.

Well Number:	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27
Sample Date:	9/84**	11/85	2/86	11/87	11/89	11/90	11/91	9/84*
Laboratory:	EEI	ETC	ETC	ETC	ETC	ETC	ETC	EE
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<10	<10	<10	<11	<1100	<530	<1000	<1
2-Nitroaniline	<25-30	<10	<10	<11	<1100	<530	<1000	<25-3
4-Nitroaniline	<25-30	<10	<10	<11	<1100	<530	<1000	<25-3
2-Nitrochlorobenzene	<10	<10	<10	<11	<1100	<530	<1000	<1
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	<1000	NA
4-Nitrochlorobenzene	<10	<10	<10	<11	<1100	<530	<1000	<1(
4-Nitrodiphenylamine	<10	<10	<10	<11	<1100	<530	<1000	<1(
Triphenylphosphate	<10	<10	<10	<11	<1100	<530	<1000	<1(
2,3,7,8-Tetrachlorodibenzo-p-dioxin	<0.001	NA	NA	NA	NA	NA	<1000	NA
2-Nitrobiphenyl	<10	NA	NA	NA	<1100	NA	<1000	<1(
4-Nitrobiphenyl	<10	NA	NA	NA	<1100	NA	<1000	<1(
Benzyl alcohol	NA	NA	NA	NA	NA	NA	<1000	NA
Aniline	NA	NA	NA	NA	444,000	302,000	159,000	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	31,600	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	<1000	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	<1000	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	<1000	NA
3-Chloroaniline	NA	NA	NA	NA	NA	NA	34,400	NA
2-Chloroaniline	NA	NA	NA	NA	NA	NA	24,800	NA
Sub Total 2	0.0	0.0	0.0	0.0	444,000.0	302,000.0	249,800.0	0.0
Total Base/Neutral Compounds	29.0	15.9	39.3	439.7	444,617.0	302,812.0	250,688.0	17.0

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois.

Well Number:	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-28B	[illegible]
Sample Date:	11/85	2/86	11/87	11/89	11/90	11/91	9/84**	[illegible]
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	EEI	ET
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<1.9	<1.9	<2.2	<2.2	<1.9	<19	<4	<2
Acenapthylene	<3.5	<3.6	<4.0	<4.0	<3.5	<35	<3	<3
Anthracene	<1.9	<1.9	<2.2	<2.2	<1.9	<19	<4	<2
Benzidine	<44	<45	<50	<51	<44	<440	<60	<4
Benzo(a)anthracene	<7.8	<8	<8.9	<9.0	<7.9	<78	<9	<8
Benzo(a)pyrene	<2.5	<2.6	6.33	<2.9	<2.5	<25	<12	<2
Benzo(b)fluoroanthene	<4.8	<4.9	<11	<5.5	<4.8	<48	<11	<5
Benzo(ghi)perylene	<4.1	<4.2	<4.7	<4.7	<4.1	<41	<14	<4
Benzo(k)fluoranthene	<3.5	<3.6	9.51	<2.9	<2.5	<25	<11	<3
bis(2-Chloroethoxy)methane	<5.3	<5.4	<6.0	<6.1	<5.4	<53	4	<5
bis(2-Chloroethyl)ether	<5.7	<5.8	<6.5	<6.6	<5.8	<57	<4	<6
bis(2-Chloroisopropyl)ether	<5.7	<5.8	<6.5	<6.6	<5.8	<57	<3	<6
bis(2-Ethylhexyl)phthalate	54	<10	<11	<11	27.0	<100	11	<1
4-Bromophenyl phenyl ether	<1.9	<1.9	<2.2	<2.2	<1.9	<19	<16	<2
Butyl benzyl phthalate	<10	<10	<11	<11	<10	<100	<13	<1
2-Chloronaphthalene	<1.9	<1.9	<2.2	<2.2	<1.9	<19	<4	<2
4-Chlorophenyl phenyl ether	<4.2	<4.3	<4.8	<4.8	<4.2	<42	<9	<4
Chrysene	<2.5	<2.6	8.73	<2.9	<2.5	<25	<9	<2
Dibenzo(a,h)anthracene	<10	<10	<11	<11	<2.5	<25	<16	<1
1,2-Dichlorobenzene	72.8	103	400	22.6	6.21	25.5	<5	10
1,3-Dichlorobenzene	5.5	3.1	<2.2	3.36	2.78	<19	<6	<2
1,4-Dichlorobenzene	52	76.5	65.1	94.5	122	159	127	18
3,3-Dichlorobenzidine	<17	<17	<19.3	<19	<16.7	<165	<161	<1
Diethylphthalate	<10	<10	<11	<11	<10	<100	<4	<1
Dimethylphthalate	<10	<10	<11	<11	<10	<100	<4	<1
Di-n-butylphthalate	<10	<10	<11	<11	34.1	<100	7	<1
2,4-Dinitrotoluene	<5.7	<5.8	<6.5	<6.6	<5.8	<57	<14	<6
2,6-Dinitrotoluene	<1.9	<1.9	<2.2	<2.2	<1.9	<19	<16	<2.0
Di-n-octylphthalate	<10	<10	<11	<11	<10	<100	<6	<11
1,2-Diphenylhydrazine	<10	<10	<11	<11	<10	<100	<10	<11
Fluoranthene	<2.2	<2.2	15.7	<2.5	<2.2	<22	<5	<2.4
Fluorene	<1.9	<1.9	<2.2	<2.2	<1.9	<19	<4	<2.0
Hexachlorobenzene	<1.9	<1.9	<2.2	<2.2	<1.9	<19	<15	<2.0
Hexachlorobutadiene	<0.9	<0.9	<1.0	<1.0	<91	<9.0	<13	<1
Hexachlorocyclopentadiene	<10	<10	<11	<11	<10	<100	<12	<11
Hexachloroethane	<1.6	<1.6	<1.8	<1.8	<1.6	<16	<10	<1.7
Indeno(1,2,3-c,d)pyrene	<4.7	<4.8	<5.3	<5.4	<3.7	<37	<7	<5.1
Isophorone	<2	<2.2	<2.5	<2.5	<2.2	<22	<2	<2.4
Naphthalene		<1.6	4.55	3.92	5.79	<16	<2	2.3
Nitrobenzene	<1.9	<1.9	<2.2	<2.2	<1.9	<19	<5	<2.0
N-Nitrosodimethylamine	<10	<10	<11	<11	<10	<100	<10	<11
N-Nitrosodi-n-propylamine	<10	<10	<11	<11	<10	<100	<6	<11
N-Nitrosodiphenylamine	<1.9	<1.9	<2.2	<2.2	<1.9	<19	<82	<2.0
Phenanthrene	<5.4	<5.5	<6.1	<6.2	<5.5	<54	<4	<5.8
Pyrene	<1.9	<1.9	13.9	<2.2	<1.9	<19	<5	<2.0
1,2,4-Trichlorobenzene	<1.9	<1.9	<2.2	<2.2	<1.9	<19	<7	<10.5
Sub Total 1	189.5	182.6	523.8	124	198	185	145	123.1

See last page for footnotes.

Well Number:	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-28B	GM-28
Sample Date:	11/85	2/86	11/87	11/89	11/90	11/91	9/84**	11/8
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	EEI	ET
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<10	<10	<11	<11	<10	<100	<10	<1
2-Nitroaniline	<10	<10	<11	<11	<10	<100	<25-30	<1
4-Nitroaniline	<10	<10	<11	<11	126	<100	<25-30	<1
2-Nitrochlorobenzene	<10	<10	<11	79.8	<10	<100	<10	<1
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	<100	NA	NA
4-Nitrochlorobenzene	<10	<10	<11	20.1	<10	<100	<10	<1
4-Nitrodiphenylamine	<10	<10	<11	<11	<10	<100	<10	<1
Triphenylphosphate	<10	<10	<11	<11	<10	<100	<10	<1
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	<0.0016	NA
2-Nitrobiphenyl	NA	NA	NA	<11	NA	NA	<10	NA
4-Nitrobiphenyl	NA	NA	NA	<11	NA	NA	<10	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	869	48,000	27,600	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	12,500	NA	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA
3-Chloroaniline	NA	NA	NA	NA	NA	10,800	NA	NA
2-Chloroaniline	NA	NA	NA	NA	NA	6,590	NA	NA
Sub Total 2	0.0	0.0	0.0	968.9	48,126	57,490	0.0	0.0
Total Base/Neutral Compounds	189.5	182.6	523.8	1,093.3	48,324	57,675	145.0	123.1

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois.

Well Number:	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	M-2
Sample Date:	2/86	12/86	5/87	11/87	5/88	3/89	11/89	11
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	E
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<1.9	NA	NA	<190	<120	<20	<21	<1
Acenapthylene	<3.6	NA	NA	<350	<220	<36	<38	<3
Anthracene	<1.9	NA	NA	<190	<120	<20	<21	<1
Benzidine	<45	NA	NA	<4400	<2,700	<450	<480	<4
Benzo(a)anthracene	<8	NA	NA	<790	<480	<80	<86	<7
Benzo(a)pyrene	<2.6	NA	NA	<250	<150	<26	<27	<2
Benzo(b)fluoroanthene	<4.9	NA	NA	<1000	<300	<49	<53	<4
Benzo(ghi)perylene	<4.2	NA	NA	<410	<250	<42	<45	<4
Benzo(k)fluoranthene	<3.6	NA	NA	<350	<150	<26	<27	<2
bis(2-Chloroethoxy)methane	<5.4	NA	NA	<540	<330	<55	<58	<5
bis(2-Chloroethyl)ether	<5.8	NA	NA	<580	<350	<59	<63	<5
bis(2-Chloroisopropyl)ether	<5.8	NA	NA	<580	<350	<59	<63	<5
bis(2-Ethylhexyl)phthalate	<10	NA	NA	<1000	<620	<100	<110	11
4-Bromophenyl phenyl ether	<1.9	NA	NA	<190	<120	<20	<21	<1
Butyl benzyl phthalate	<10	NA	NA	<1000	<620	<100	<110	<1
2-Chloronaphthalene	<1.9	NA	NA	<190	<120	<20	<21	<1
4-Chlorophenyl phenyl ether	<4.3	NA	NA	<420	<260	<43	<46	<4
Chrysene	<2.6	NA	NA	<250	<150	<26	<27	<2
Dibenzo(a,h)anthracene	<10	NA	NA	<1000	<620	<100	<110	<2
1,2-Dichlorobenzene	1,720	NA	NA	3,830	4,560	3,380	6,770	2,43
1,3-Dichlorobenzene	5.4	NA	NA	<190	<120	<20	<21	11
1,4-Dichlorobenzene	231	NA	NA	<440	338	200	378	12
3,3-Dichlorobenzidine	<17	NA	NA	<1700	<1,000	<170	<180	<16
Diethylphthalate	<10	NA	NA	<1000	<620	<100	<110	<1
Dimethylphthalate	<10	NA	NA	<1000	<620	<100	<110	<1
Di-n-butylphthalate	<10	NA	NA	<1000	<620	<100	<110	<1
2,4-Dinitrotoluene	<5.8	NA	NA	<580	<350	<59	<63	<5
2,6-Dinitrotoluene	<1.9	NA	NA	<190	<120	<20	<21	<1
Di-n-octylphthalate	<10	NA	NA	<1000	<620	<100	<110	<1
1,2-Diphenylhydrazine	<10	NA	NA	<1000	<620	<100	<110	<1
Fluoranthene	<2.3	NA	NA	<220	<140	<23	<24	<2
Fluorene	<1.9	NA	NA	<190	<120	<20	<21	<1
Hexachlorobenzene	<1.9	NA	NA	<190	<120	<20	<21	<1
Hexachlorobutadiene	<0.9	NA	NA	<91	<56	<9.3	<9.9	<9
Hexachlorocyclopentadiene	<10	NA	NA	<1000	<620	<100	<110	<1
Hexachloroethane	<1.6	NA	NA	<160	<99	<16	<18	<1
Indeno(1,2,3-c,d)pyrene	<4.8	NA	NA	<470	<290	<48	<52	<3
Isophorone	<2.3	NA	NA	<220	<140	<23	<24	<2
Naphthalene	<1.6	NA	NA	<160	<99	<16	<18	<1
Nitrobenzene	<1.9	NA	NA	1,190	919	<20	<21	154
N-Nitrosodimethylamine	<10	NA	NA	<1000	<620	<100	<110	<1
N-Nitrosodi-n-propylamine	<10	NA	NA	<1000	<620	<100	<110	<1
N-Nitrosodiphenylamine	<1.9	NA	NA	<190	<120	<20	<21	<1
Phenanthrene	<5.5	NA	NA	<550	<330	<56	<59	<5
Pyrene	<1.9	NA	NA	<190	<120	<20	<21	<1
1,2,4-Trichlorobenzene	29.6	NA	NA	<190	<120	<20	<21	172
Sub Total 1	1,986	0	0	5,020	5,817	3,580	7,148	3,011

See last page for footnotes.

Well Number:	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-2
Sample Date:	2/86	12/86	5/87	11/87	5/88	3/89	11/89	
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ET
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<10	<11	<1100	<1000	<620	<100	<110	<
2-Nitroaniline	<10	<11	<1100	<1000	<620	<100	<110	<
4-Nitroaniline	<10	<11	<1100	<1000	<620	<100	<110	<
2-Nitrochlorobenzene	180	<11	<1100	13,100	17,900	8,660	222	22.7
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	N
4-Nitrochlorobenzene	36.6	<11	<1100	28,800	43,800	34,700	470	63.0
4-Nitrodiphenylamine	<10	<11	<1100	<1000	<620	<100	<110	<
Triphenylphosphate	<10	<11	<1100	<1000	<620	<100	<110	<
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	N
2-Nitrobiphenyl	NA	NA	NA	NA	<620	NA	<110	N
4-Nitrobiphenyl	NA	NA	NA	NA	<620	NA	<110	N
Benzyl alcohol	NA	NA	NA	NA	NA	<1,030	NA	N
Aniline	NA	NA	NA	NA	NA	3,360	6,780	2,63
4-Chloroaniline	NA	NA	NA	NA	NA	113,000	NA	N
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	N
N-nitrosaniline	NA	NA	NA	NA	NA	NA	NA	N
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	N
3-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	N
2-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	N
Sub Total 2	216.6	0.0	0.0	41,900.0	61,700.0	159,720.0	7,472.0	88.33
Total Base/Neutral Compounds	2,202.6	0.0	0.0	46,920.0	67,517.0	163,300.0	14,620.0	91.34

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois.

Well Number:	GM-28B	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	
Sample Date:	11/91	9/84**	11/85	2/86	12/86	5/87	11/87	
Laboratory:	ETC	EEI	ETC	ETC	ETC	ETC	ETC	E
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<39	NA	<1.9	<1.9	NA	NA	<1.9	<1
Acenapthylene	<71	NA	<3.5	<3.5	NA	NA	<3.5	<2
Anthracene	<39	NA	<1.9	<1.9	NA	NA	<1.9	<1
Benzidine	<890	NA	<44	<44	NA	NA	<44	<3.1
Benzo(a)anthracene	<160	NA	<7.8	<7.9	NA	NA	<7.8	<5
Benzo(a)pyrene	<51	NA	<2.5	<2.5	NA	NA	<2.5	<1
Benzo(b)fluoranthene	<97	NA	<4.8	<4.8	NA	NA	<10	<3
Benzo(ghi)perylene	<83	NA	<4.1	<4.1	NA	NA	<4.1	<2
Benzo(k)fluoranthene	<51	NA	<3.5	<3.5	NA	NA	<3.5	<1
bis(2-Chloroethoxy)methane	<110	NA	<5.3	<5.4	NA	NA	<5.3	<3
bis(2-Chloroethyl)ether	<120	NA	<5.7	<5.8	NA	NA	<5.7	<4
bis(2-Chloroisopropyl)ether	<120	NA	<5.7	<5.8	NA	NA	<5.7	<4
bis(2-Ethylhexyl)phthalate	<200	NA	<10	<10	NA	NA	<10	<7
4-Bromophenyl phenyl ether	<39	NA	<1.9	<1.9	NA	NA	<1.9	<1
Butyl benzyl phthalate	<200	NA	<10	<10	NA	NA	<10	<7
2-Chloronaphthalene	<39	NA	<1.9	<1.9	NA	NA	<1.9	<1
4-Chlorophenyl phenyl ether	<85	NA	<4.2	<4.2	NA	NA	<4.2	<3
Chrysene	<51	NA	<2.5	<2.5	NA	NA	<2.5	<1
Dibenzo(a,h)anthracene	<51	NA	<10	<10	NA	NA	<10	<7
1,2-Dichlorobenzene	4,160	NA	38	3,270	NA	NA	3,040	3,3
1,3-Dichlorobenzene	<39	NA	<1.9	14.7	NA	NA	<1.9	<1
1,4-Dichlorobenzene	188	NA	10	103	NA	NA	193	<3
3,3-Dichlorobenzidine	<335	NA	<17	<17	NA	NA	47.0	<1,2
Diethylphthalate	<200	NA	<10	<10	NA	NA	<10	<7
Dimethylphthalate	<200	NA	<10	<10	NA	NA	<10	<7
Di-n-butylphthalate	<200	NA	<10	<10	NA	NA	<10	<7
2,4-Dinitrotoluene	<120	NA	<5.7	<5.8	NA	NA	<5.7	<4
2,6-Dinitrotoluene	<39	NA	<1.9	<1.9	NA	NA	<1.9	<1
Di-n-octylphthalate	<200	NA	<10	<10	NA	NA	<10	<7
1,2-Diphenylhydrazine	<200	NA	<10	<10	NA	NA	<10	<7
Fluoranthene	<45	NA	<2.2	<2.2	NA	NA	<2.2	<1
Fluorene	<39	NA	<1.9	<1.9	NA	NA	<1.9	<1
Hexachlorobenzene	<39	NA	<1.9	<1.9	NA	NA	<1.9	<1
Hexachlorobutadiene	<18	NA	<0.9	<0.9	NA	NA	< 90	<6
Hexachlorocyclopentadiene	<200	NA	<10	<10	NA	NA	<10	<7
Hexachloroethane	<32	NA	<1.6	<1.6	NA	NA	<1.6	<1
Indeno(1,2,3-c,d)pyrene	<75	NA	<4.7	<4.7	NA	NA	<4.7	<3
Isophorone	<45	NA	<2.2	<2.2	NA	NA	<2.2	<1
Naphthalene	<32	NA	<1.6	<1.6	NA	NA	<1.6	<1
Nitrobenzene	<39	NA	<1.9	<1.9	NA	NA	<1.9	<1
N-Nitrosodimethylamine	<200	NA	<10	<10	NA	NA	<10	<7
N-Nitrosodi-n-propylamine	<200	NA	<10	<10	NA	NA	<10	<7
N-Nitrosodiphenylamine	<39	NA	<1.9	<1.9	NA	NA	<1.9	<1
Phenanthrene	<110	NA	<5.4	<5.5	NA	NA	<5.4	<3
Pyrene	<39	NA	<1.9	<1.9	NA	NA	<1.9	<1
1,2,4-Trichlorobenzene	62.9	NA	16.2	20.3	NA	NA	<1.9	<1
Sub Total 1	4,411	0	64	3,408	0	0	3,280	3,3

See last page for footnotes.

Well Number:	GM-28B	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28
Sample Date:	11/91	9/84**	11/85	2/86	12/86	5/87	11/87	5/
Laboratory:	ETC	EEI	ETC	ETC	ETC	ETC	ETC	E
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<200	NA	<10	<10	<11	<1300	<10	<7
2-Nitroaniline	<200	NA	<10	<10	<11	<1300	<10	<7
4-Nitroaniline	<200	NA	<10	<10	<11	<1300	<10	<7
2-Nitrochlorobenzene	2,120	NA	<10	494	<11	<1300	17,400	15 40
3-Nitrochlorobenzene	918	NA	NA	NA	NA	NA	NA	N
4-Nitrochlorobenzene	2,030	NA	<10	1,460	<11	<1300	36,000	30 60
4-Nitrodiphenylamine	<200	NA	<10	<10	<11	<1300	56 3	<7
Triphenylphosphate	<200	NA	<10	<10	<11	<1300	<10	<7
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	N
2-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	NA	<7
4-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	NA	<7
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	N
Aniline	1,020	NA	NA	NA	NA	NA	NA	N
4-Chloroaniline	53,100	NA	NA	NA	NA	NA	NA	N
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	N
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	N
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	N
3-Chloroaniline	46,000	NA	NA	NA	NA	NA	NA	N
2-Chloroaniline	36,200	NA	NA	NA	NA	NA	NA	N
Sub Total 2	141,388	0.0	0.0	1,954.0	0.0	0.0	53,456.3	46 000
Total Base/Neutral Compounds	145,799	0.0	64.2	5,362.0	0.0	0.0	56,736.3	49.370

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois.

Well Number:	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-55C	[illegible]
Sample Date:	11/88	3/89	3/89 *	11/89	11/90	11/91	11/87	5/8
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ET
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<2.2	<1900	<190	<2.2	<1,900	<39	<2.0	<4
Acenapthylene	<4.0	<3600	<350	<4.1	<3,500	<71	<3.6	<8
Anthracene	<2.2	<1900	<190	<2.2	<1,900	<39	<2.0	<4
Benzidine	<50	<45000	<4400	<51	<44,000	<900	<46	<1 00
Benzo(a)anthracene	<8.9	<8000	<780	<9.1	<7,800	<160	<8.1	<18
Benzo(a)pyrene	<2.8	<2600	<250	<2.9	<2,500	<51	<2.6	<5
Benzo(b)fluoroanthene	<5.5	<4900	<480	<5.6	<4,800	<98	<10	<11
Benzo(ghi)perylene	<4.7	<4200	<410	<4.8	<4,100	<84	<4.3	<9
Benzo(k)fluoranthene	<2.8	<2600	<250	<2.9	<2,500	<51	<3.6	<5
bis(2-Chloroethoxy)methane	<6.0	<5400	<530	<6.2	<5,300	<110	<5.5	<12
bis(2-Chloroethyl)ether	<6.5	<5800	<570	<6.6	<5,700	<120	5.9	<13
bis(2-Chloroisopropyl)ether	<6.5	<5800	<570	<6.6	<5,700	<120	5.9	<13
bis(2-Ethylhexyl)phthalate	32.7	<10000	<1000	23.9	<10,000	<200	<10	<24
4-Bromophenyl phenyl ether	<2.2	<1900	<190	<2.2	<1,900	<39	<2.0	<4
Butyl benzyl phthalate	<11	<10000	<1000	<12	<10,000	<200	<10	<24
2-Chloronaphthalene	<2.2	<1900	<190	<2.2	<1,900	<39	<2.0	<4
4-Chlorophenyl phenyl ether	<4.8	<4300	<430	<4.9	<4,200	<86	<4.4	<9
Chrysene	<2.8	<2600	<250	<2.9	<2,500	<51	<2.6	<5
Dibenzo(a,h)anthracene	<11	<10000	<1000	<12	<2,500	<51	<10	<24
1,2-Dichlorobenzene	5,810	5,470	5,640	3,880	9,810	3,330	6.00	69
1,3-Dichlorobenzene	11.1	<1900	<190	17.4	<1,900	<39	<2.0	<4
1,4-Dichlorobenzene	199	<4500	<440	167	<4,400	138	38.7	31
3,3-Dichlorobenzidine	<19	<17000	<1700	<19	<16,500	<337	<17	<39
Diethylphthalate	<11	<10000	<1000	<12	<10,000	<200	<10	<24
Dimethylphthalate	<11	<10000	<1000	<12	<10,000	<200	<10	<24
Di-n-butylphthalate	<11	<10000	<1000	<12	<10,000	<200	<10	40
2,4-Dinitrotoluene	<6.5	<5800	<570	<6.6	<5,700	<120	<5.9	130
2,6-Dinitrotoluene	<2.2	<1900	<190	<2.2	<1,900	<39	<2.0	<45
Di-n-octylphthalate	<11	<10000	<1000	<12	<10,000	<200	<10	<240
1,2-Diphenylhydrazine	<11	<10000	<1000	<12	<10,000	<200	<10	<240
Fluoranthene	<2.5	<2200	<220	<2.6	<2,200	<45	4.21	<52
Fluorene	<2.2	<1900	<190	<2.2	<1,900	<39	<2.0	<45
Hexachlorobenzene	<2.2	<1900	<190	<2.2	<1,900	<39	<2.0	<45
Hexachlorobutadiene	<1.0	<920	<90	<1.0	<900	<18	<.94	<21
Hexachlorocyclopentadiene	<11	10000	<1000	<12	<10,000	<200	<10	<240
Hexachloroethane	<1.8	<2600	<160	<1.9	<1,600	<33	<1.7	<38
Indeno(1,2,3-c,d)pyrene	<5.3	<4800	<470	<5.5	<3,700	<76	<4.9	<110
Isophorone	<2.5	<2200	<220	<2.6	<2,200	<45	<2.3	<52
Naphthalene	<1.8	<1600	<160	2.91	<1,600	<33	<1.7	<38
Nitrobenzene	9.81	<1900	210	<2.2	<1,900	<39	<2.0	<45
N-Nitrosodimethylamine	<11	<10000	<1000	<12	<10,000	<200	<10	<240
N-Nitrosodi-n-propylamine	<11	<10000	<1000	<12	<10,000	<200	<10	<240
N-Nitrosodiphenylamine	<2.2	<1900	<190	<2.2	,1,900	<39	<2.0	<45
Phenanthrene	<6.1	<5500	<540	<6.3	<5,400	<110	<5.6	<130
Pyrene	<2.2	<1900	<190	<2.2	<1,900	<39	3.14	<45
1,2,4-Trichlorobenzene	138	<1900	<190	57.1	<1,900	43.3	<2.0	<45
Sub Total 1	6,201	15,470	5,850	4,148	9,810	3,511	63.9	1,004

See last page for footnotes.

Well Number:	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-55C	GM-55
Sample Date:	11/88	3/89	3/89 *	11/89	11/90	11/91	11/87	5/8
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ET
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<11	<10000	<1000	<12	<10,000	<200	<10	<24
2-Nitroaniline	21.9	<10000	<1000	<12	<10,000	<200	<10	<24
4-Nitroaniline	<11	<10000	<1000	<12	<10,000	<200	<10	<24
2-Nitrochlorobenzene	23,700	20,500	26,300	238	70,100	1,740	<10	2.98
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	730	NA	N
4-Nitrochlorobenzene	45,300	27,600	55,800	591	79,500	1,420	14.6	1.14
4-Nitrodiphenylamine	107	<10000	<1000	<12	<10,000	<200	<10	<24
Triphenylphosphate	<11	<10000	<1000	<12	<10,000	<200	<10	<24
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	N
2-Nitrobiphenyl	NA	NA	NA	<12	NA	NA	NA	<24
4-Nitrobiphenyl	NA	NA	NA	<12	NA	NA	NA	<24
Benzyl alcohol	NA	<10,200	<10,000	NA	NA	NA	NA	N
Aniline	NA	7,330	8,790	8,920	<10,000	3,930	NA	N
4-Chloroaniline	NA	220,000	251,000	NA	NA	51,900	NA	N
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	N
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	N
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	N
3-Chloroaniline	NA	NA	NA	NA	NA	52,400	NA	N
2-Chloroaniline	NA	NA	NA	NA	NA	59,100	NA	N
Sub Total 2	69,128.9	275,430.0	341,890.0	9,749.0	149,600	171,220	14.6	4 120
Total Base/Neutral Compounds	75,329.5	290,900.0	347,740.0	13,897.3	159,410	174,731	78.5	5 124

See last page for footnotes.

Table A-3 Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois

Well Number:	GM-55C	GM-55C	GM-55C	GM-55C	GM-56C	GM-56C	GM-56C	
Sample Date:	11/88	11/89	11/90	11/91	11/87	5/88	11/88	
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<210	<230	<19	<200	<190	<120	<120	<1(
Acenapthylene	<390	<420	<35	<360	<360	<210	<210	<1(
Anthracene	<210	<230	<19	<200	<190	<120	<120	<1(
Benzidine	<4,900	<5300	<440	<4500	<4500	<2700	<2700	<8(
Benzo(a)anthracene	<880	<940	<78	<800	<800	<480	<480	<1(
Benzo(a)pyrene	<280	<300	<25	<260	<260	<150	<150	<1(
Benzo(b)fluoroanthene	<540	<580	<48	<490	<1000	<290	<290	<1(
Benzo(ghi)perylene	<460	<490	<41	<420	<420	<250	<250	<1(
Benzo(k)fluoranthene	<280	<300	<25	<260	<360	<150	<150	<1(
bis(2-Chloroethoxy)methane	<600	<640	<53	<550	<540	<320	<320	
bis(2-Chloroethyl)ether	<640	<690	<57	<590	<580	<350	<350	
bis(2-Chloroisopropyl)ether	<640	<690	<57	<590	<580	<350	<350	
bis(2-Ethylhexyl)phthalate	<1,100	<1200	<100	<1000	<1000	<610	<610	
4-Bromophenyl phenyl ether	<210	<230	<19	<200	<190	<120	<120	<1(
Butyl benzyl phthalate	<1,100	<1200	<100	<1000	<1000	<610	<610	<1(
2-Chloronaphthalene	<210	<230	<19	<200	<190	<120	<120	<1(
4-Chlorophenyl phenyl ether	<470	<510	<42	<430	<430	<260	<260	<1(
Chrysene	<280	<300	<25	<260	<260	<150	<150	<1(
Dibenzo(a,h)anthracene	<1,100	<1200	<25	<260	<1000	<610	<610	<1(
1,2-Dichlorobenzene	4,030	4,760	2,390	8,730	1,570	880	1,260	1 00(
1,3-Dichlorobenzene	<210	<230	<19	<200	<190	<120	<120	<1(
1,4-Dichlorobenzene	<490	<530	<44	<450	<450	<270	<270	12(
3,3-Dichlorobenzidine	<1,900	<2000	<165	<1700	<1700	<1040	<1000	<20(
Diethylphthalate	<1,100	<1200	<100	<1000	<1000	<610	<610	<10(
Dimethylphthalate	<1,100	<1200	<100	<1000	<1000	<610	<610	
Di-n-butylphthalate	<1,100	<1200	<100	<1000	<1000	<610	<610	
2,4-Dinitrotoluene	<640	<690	<57	<590	<580	<350	<350	
2,6-Dinitrotoluene	<210	<230	<19	<200	<190	<120	<120	<1(
Di-n-octylphthalate	<1,100	<1200	<100	<1000	<1000	<610	<610	<10(
1,2-Diphenylhydrazine	<1,100	<1200	<100	<1000	<1000	<610	<610	<10(
Fluoranthene	<250	<270	<22	<230	<220	<130	<130	<10(
Fluorene	<210	<230	<19	<200	<190	<120	<120	<10(
Hexachlorobenzene	<210	<230	<19	<200	<190	<120	<120	<100
Hexachlorobutadiene	<100	<110	<9.0	<93	<92	<55	<55	<100
Hexachlorocyclopentadiene	<1,100	<1200	<100	<1000	<1000	<610	<610	<100
Hexachloroethane	<180	<190	<16	<160	<160	<98	<98	<100
Indeno(1,2,3-c,d)pyrene	<530	<570	<37	<380	<480	<290	<290	<100
Isophorone	<250	<270	<22	<230	<220	<130	<130	<100
Naphthalene	<180	<190	<16	<160	<160	<98	<98	<100
Nitrobenzene	<210	<230	<19	<200	<190	<120	223	220
N-Nitrosodimethylamine	<1,100	<1200	<100	<1000	<1000	<610	<610	<100
N-Nitrosodi-n-propylamine	<1,100	<1200	<100	<1000	<1000	<610	<610	<100
N-Nitrosodiphenylamine	<210	<230	<19	<200	<190	<120	<120	<100
Phenanthrene	<610	<650	<54	<560	<550	<330	<330	<100
Pyrene	<210	<230	<19	<200	<190	<120	<120	<100
1,2,4-Trichlorobenzene	<210	<230	<19	<200	<190	<120	<120	<100
Sub Total 1	4,030	4,760	2,390	8,730	1,570	880	1,483	1,340

See last page for footnotes.

Well Number:	GM-55C	GM-55C	GM-55C	GM-55C	GM-56C	GM-56C	GM-56C	GM-5
Sample Date:	11/88	11/89	11/90	11/91	11/87	5/88	11/88	
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<1,100	<1200	<100	<1000	<1000	<610	<610	<1
2-Nitroaniline	<1,100	<1200	<100	<1000	<1000	<610	<610	<5
4-Nitroaniline	<1,100	<1200	<100	<1000	<1000	<610	<610	<5
2-Nitrochlorobenzene	41,700	38,800	<100	42,300	84,900	26,300	70,700	130 0
3-Nitrochlorobenzene	NA	NA	NA	30,900	NA	NA	NA	N
4-Nitrochlorobenzene	74,600	66,700	<100	34,800	24,800	7,360	17,500	30 0
4-Nitrodiphenylamine	<1,100	<1200	<100	<1000	<1000	<610	<610	<2
Triphenylphosphate	<1,100	<1200	<100	<1000	<1000	<610	<610	<1
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	N
2-Nitrobiphenyl	NA	<1200	NA	NA	NA	<610	NA	N
4-Nitrobiphenyl	NA	<1200	NA	NA	NA	<610	NA	N
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	N
Aniline	NA	1,220	24,800	<1000	NA	NA	NA	N
4-Chloroaniline	NA	NA	NA	17,200	NA	NA	NA	N
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	N
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	N
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	N
3-Chloroaniline	NA	NA	NA	9,170	NA	NA	NA	N
2-Chloroaniline	NA	NA	NA	35,300	NA	NA	NA	N
Sub Total 2	116,300.0	106,720.0	24,800	169,670	109,700.0	33,660.0	88,200.0	160 000
Total Base/Neutral Compounds	120,330.0	111,480.0	27,190	178,400	111,270.0	34,540.0	89,683.0	161 340

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois

Well Number:	GM-56C	GM-56C	GM-56C	GM-57C	GM-57C	GM-57C	GM-57C	
Sample Date:	11/89	11/90	11/91	11/87	11/87*	5/88	5/88*	
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	E
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<2.2	<200	<19	<210	<220	<96	<98	<2
Acenapthylene	<4.0	<360	<35	<380	<400	<180	<180	<3
Anthracene	<2.2	<200	<19	<210	<220	<96	<98	<2
Benzidine	<50	<4500	<440	<4800	<5100	<2,200	<2,300	<4,9
Benzo(a)anthracene	<8.9	<800	<79	<860	<900	<390	<400	<8
Benzo(a)pyrene	<2.8	<260	<25	<270	<290	<130	<130	<2
Benzo(b)fluoroanthene	<5.5	<490	<48	<1100	<1100	<240	<250	<5
Benzo(ghi)perylene	<4.7	<420	<41	<450	<470	<210	<210	<4
Benzo(k)fluoranthene	<2.8	<260	<25	<380	<400	<130	<130	<2
bis(2-Chloroethoxy)methane	<6.0	<550	<54	<580	<610	<270	<270	<5
bis(2-Chloroethyl)ether	<6.5	<590	<58	<630	<660	<290	<290	<6
bis(2-Chloroisopropyl)ether	<6.5	<590	<58	<630	<660	<290	<290	<6
bis(2-Ethylhexyl)phthalate	<11	<1000	<100	<1100	<1100	<510	<520	<1,1
4-Bromophenyl phenyl ether	<2.2	<200	<19	<210	<220	<96	<98	<2
Butyl benzyl phthalate	<11	<1000	<100	<1100	<1100	<510	<520	<1,1
2-Chloronaphthalene	<2.2	<200	<19	<210	<220	<96	<98	<2
4-Chlorophenyl phenyl ether	<4.8	<430	<42	<460	<480	<210	<220	<4
Chrysene	<2.8	<260	<25	<270	<290	<130	<130	<2
Dibenzo(a,h)anthracene	<11	<260	<25	<1100	<1100	<510	<520	<1,1
1,2-Dichlorobenzene	693	1,100	204	638	575	837	922	6
1,3-Dichlorobenzene	13.1	<200	<19	<210	<220	<96	<98	<2
1,4-Dichlorobenzene	96.8	<450	<44	<480	<510	387	395	<4
3,3-Dichlorobenzidine	<19	<1700	<167	<1800	<1900	<830	<850	<1,8
Diethylphthalate	<11	<1000	<100	<1100	<1100	<510	<520	<1,1
Dimethylphthalate	<11	<1000	<100	<1100	<1100	<510	<	<1,1
Di-n-butylphthalate	<11	<1000	<100	<1100	<1100	<510		1
2,4-Dinitrotoluene	<6.5	<590	<58	<630	<660	<290	<	<6
2,6-Dinitrotoluene	<2.2	<200	<19	<210	<220	<96	<98	<2
Di-n-octylphthalate	<11	<1000	<100	<1100	<1100	<510	<520	<1,1
1,2-Diphenylhydrazine	<11	<1000	<100	<1100	<1100	<510	<520	<1,1
Fluoranthene	<2.5	<230	<22	<240	<250	<110	<110	<2
Fluorene	<2.2	<200	<19	<210	<220	<96	<98	<2
Hexachlorobenzene	<2.2	<200	<19	<210	<220	<96	<98	<2
Hexachlorobutadiene	<1.0	<93	<9.1	<99	<100	<45	<46	<1
Hexachlorocyclopentadiene	<11	<1000	<100	<1100	<1100	<510	<520	<1,1
Hexachloroethane	<1.8	<160	<16	<180	<180	<81	<82	<1
Indeno(1,2,3-c,d)pyrene	<5.3	<380	<37	<520	<540	<240	<240	<5
Isophorone	<2.5	<230	<22	<240	<250	<110	<110	<2
Naphthalene	40.9	<160	19.7	<180	<180	<81	<82	<1
Nitrobenzene	135	306	<19	430	449	<96	<98	3
N-Nitrosodimethylamine	<11	<1000	<100	<1100	<1100	<510	<520	<1,1
N-Nitrosodi-n-propylamine	<11	<1000	<100	<1100	<1100	<510	<520	<1,1
N-Nitrosodiphenylamine	<2.2	<200	<19	<210	<220	<96	<98	<2
Phenanthrene	<6.1	<560	<55	<590	<620	<270	<280	<6
Pyrene	<2.2	<200	<19	<210	<220	<96	<98	<2
1,2,4-Trichlorobenzene	39.8	<200	<19	<210	<220	<96	<98	<2
Sub Total 1	1,019	1,406	224	1,068	1,024	1,224	1,317	9

See last page for footnotes.

Well Number:	GM-56C	GM-56C	GM-56C	GM-57C	GM-57C	GM-57C	GM-57C	GM-5
Sample Date:	11/89	11/90	11/91	11/87	11/87*	5/88	5/88*	11
Laboratory:	SL	ETC	ETC	ETC	ETC	ETC	ETC	E
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<11	<1000	<100	<1100	<1100	<510	<520	<1 1
2-Nitroaniline	<11	<1000	<100	<1100	<1100	<510	<520	<1 1
4-Nitroaniline	<11	<1000	<100	<1100	<1100	<510	<520	<1 1
2-Nitrochlorobenzene	68,800	136,000	564	82,100	85,600	124,000	142,000	219,0
3-Nitrochlorobenzene	NA	NA	2,030	NA	NA	NA	NA	N
4-Nitrochlorobenzene	17,000	33,500	<100	21,400	21,700	25,800	30,600	40,5
4-Nitrodiphenylamine	<11	<1000	<100	<1100	<1100	<510	<520	<1 1
Triphenylphosphate	<11	<1000	<100	<1100	<1100	<510	<520	<1 1
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	N
2-Nitrobiphenyl	<11	NA	NA	<1100	<1100	<510	<520	N
4-Nitrobiphenyl	<11	NA	NA	<1100	<1100	<510	<520	N
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	N
Aniline	34,300	23,100	20,600	NA	NA	NA	NA	N
4-Chloroaniline	NA	NA	56,900	NA	NA	NA	NA	N
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	N
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	N
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	N
3-Chloroaniline	NA	NA	25,200	NA	NA	NA	NA	N
2-Chloroaniline	NA	NA	183,000	NA	NA	NA	NA	N
Sub Total 2	120,100.0	192,600	288,294	103,500.0	107,300.0	149,800.0	172,600.0	259,500
Total Base/Neutral Compounds	121,118.6	194,006	288,518	104,568.0	108,324.0	151,024.0	173,917.0	260,471

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois.

Well Number:	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	[illegible]
Sample Date:	11/88	3/89	11/89	11/89 *	11/90	11/90*	11/91	[illegible]
Laboratory:	SL	ETC	ETC	ETC	ETC	ETC	ETC	[illegible]
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<100	<20	<23	<20	<96	<20	<95	<95
Acenapthylene	<100	<37	<42	<37	<180	<36	<180	<180
Anthracene	<100	<20	<23	<20	<96	<20	<95	<95
Benzidine	<800	<460	<520	<460	<2,200	<450	<2200	<2200
Benzo(a)anthracene	<100	<82	<93	<82	<390	<80	[illegible]	<390
Benzo(a)pyrene	<100	<26	<30	<26	<130	<26	[illegible]	<130
Benzo(b)fluoroanthene	<100	<51	<57	<51	<240	<49	<240	<240
Benzo(ghi)perylene	<100	<43	<49	<43	<210	<42	<210	<210
Benzo(k)fluoranthene	<100	<26	<30	<26	<130	<26	<130	<130
bis(2-Chloroethoxy)methane	<100	<56	<63	<56	<270	<55	<270	<270
bis(2-Chloroethyl)ether	<100	<60	<68	<60	<290	<59	<290	<290
bis(2-Chloroisopropyl)ether	<100	<60	<68	<60	<290	<59	<290	<290
bis(2-Ethylhexyl)phthalate	<100	<110	<120	<110	<510	<100	<500	<500
4-Bromophenyl phenyl ether	<100	<20	<23	<20	<96	<20	<95	<95
Butyl benzyl phthalate	<100	<110	<120	<110	<510	<100	<500	<500
2-Chloronaphthalene	<100	<20	<23	<20	<96	<20	<95	<95
4-Chlorophenyl phenyl ether	<100	<44	<50	<44	<210	<43	<210	<210
Chrysene	<100	<26	<30	<26	<130	<26	<130	<130
Dibenzo(a,h)anthracene	<100	<110	<120	<110	<130	<26	<130	<130
1,2-Dichlorobenzene	540	598	562	591	555	599	674	709
1,3-Dichlorobenzene	<100	<20	<23	<20	<96	<20	<95	<95
1,4-Dichlorobenzene	320	298	413	449	456	447	312	346
3,3-Dichlorobenzidine	<200	<170	<200	<170	<833	<170	[illegible]	<825
Diethylphthalate	<100	<110	<120	<110	<510	<100	[illegible]	<500
Dimethylphthalate	<100	<110	<120	<110	<510	<100	<500	[illegible]
Di-n-butylphthalate	<100	<110	<120	<110	<510	<100	<500	[illegible]
2,4-Dinitrotoluene	<100	<60	<68	<60	<290	<59	<290	[illegible]
2,6-Dinitrotoluene	<100	<20	<23	<20	<96	<20	<95	<95
Di-n-octylphthalate	<100	<110	<120	<110	<510	<100	<500	<500
1,2-Diphenylhydrazine	<100	<110	<120	<110	<510	<100	<500	<500
Fluoranthene	<100	<23	<26	<23	<110	<23	<110	<110
Fluorene	<100	<20	<23	<20	<96	<20	<95	<95
Hexachlorobenzene	<100	<20	<23	<20	<96	<20	<95	<95
Hexachlorobutadiene	<100	<9.5	<11	<9.5	<45	<9.3	<45	<45
Hexachlorocyclopentadiene	<100	<110	<120	<110	<510	<100	<500	<500
Hexachloroethane	<100	<17	<19	<17	<81	<16	<80	<80
Indeno(1,2,3-c,d)pyrene	<100	<49	<56	<49	<190	<38	<190	<190
Isophorone	<100	<23	<26	<23	<110	<23	<110	<110
Naphthalene	<100	<17	35.5	34.9	<81	22.2	<80	<80
Nitrobenzene	260	<20	579	219	674	1010	<95	<95
N-Nitrosodimethylamine	<100	<110	<120	<110	<510	<100	<500	<500
N-Nitrosodi-n-propylamine	<100	<110	<120	<110	<510	<100	<500	<500
N-Nitrosodiphenylamine	<100	<20	<23	<20	<96	<20	<95	<95
Phenanthrene	<100	<57	<64	<57	<270	<56	<270	<270
Pyrene	<100	<20	<23	<20	<96	<20	<95	<95
1,2,4-Trichlorobenzene	<100	<20	98.8	95.7	<96	59.0	<95	99.5
Sub Total 1	1,120	896	1,688	1,390	1,685	2,137	986	1,155

See last page for footnotes.

Well Number:	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57
Sample Date:	11/88	3/89	11/89	11/89 *	11/90	11/90*	11 91	' ' 9
Laboratory	SL	ETC	ETC	ETC	ETC	ETC	ETC	E
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<100	<110	<120	<110	<510	<100	<500	<5
2-Nitroaniline	<500	<110	<120	<110	<510	<100	<500	<5
4-Nitroaniline	<500	<110	<120	<110	<510	<100	<500	<5
2-Nitrochlorobenzene	100,000	112,000	109,000	123,000	116,000	169,000	<500	<5
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	<500	<5
4-Nitrochlorobenzene	31,000	33,900	21,400	21,200	26,300	33,000	<500	<5
4-Nitrodiphenylamine	<200	<110	<120	<110	<510	<100	<500	<5
Triphenylphosphate	<100	<110	<120	<110	<510	<100	<500	<5
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	N
2-Nitrobiphenyl	NA	NA	<120	NA	NA	NA	NA	N
4-Nitrobiphenyl	NA	NA	<120	NA	NA	NA	NA	N
Benzyl alcohol	NA	<1,050	NA	NA	NA	NA	NA	N
Aniline	NA	25,500	38,800	44,800	35,200	41,300	31,100	34 5
4-Chloroaniline	NA	39,600	NA	NA	NA	NA	26,200	44 3
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	N
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	N
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	N
3-Chloroaniline	NA	NA	NA	NA	NA	NA	41,800	25 5
2-Chloroaniline	NA	NA	NA	NA	NA	NA	195,000	<5
Sub Total 2	131,000.0	211,000.0	169,200.0	189,000.0	177,500	243,300	294,100	104,3
Total Base/Neutral Compounds	132,120.0	211,896.0	170,888.3	190,389.6	179,185	245,437	295,086	105,45

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois

Well Number:	GM-62A	GM-62A	GM-62A	GM-62B	GM-62B	GM-62B	GM-62B	GM-62
Sample Date:	8/88	11/88	11/89	8/88	8/88*	11/88	11/89	
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<2.0	<2.2	<2.2	<2.2	<2.0	<1.9	<2.0	<
Acenapthylene	<3.7	<4.0	<4.1	<4.0	<3.6	<3.6	<3.8	<
Anthracene	<2.0	<2.2	<2.2	<2.2	<2.0	<1.9	<2.0	<
Benzidine	<47	<50	<52	<50	<46	<45	<47	<
Benzo(a)anthracene	<8.3	<8.9	<9.2	<8.9	<8.1	<8.0	<8.4	<
Benzo(a)pyrene	<2.7	<2.8	<2.9	<2.8	<2.6	<2.6	<2.7	<
Benzo(b)fluoroanthene	<5.1	<5.5	<5.6	<5.5	<5.0	<4.9	<5.2	<
Benzo(ghi)perylene	<4.4	<4.7	<4.8	<4.7	<4.3	<4.2	<4.4	<
Benzo(k)fluoranthene	<2.7	<2.8	<2.9	<2.8	<3.6	<2.6	<2.7	<
bis(2-Chloroethoxy)methane	<5.6	<6.0	<6.2	<6.0	<5.5	<5.4	<5.7	<
bis(2-Chloroethyl)ether	<6.1	<6.5	<6.7	<6.5	<5.9	<5.8	<6.1	<
bis(2-Chloroisopropyl)ether	<6.1	<6.5	<6.7	<6.5	<5.9	<5.8	<6.1	<
bis(2-Ethylhexyl)phthalate	<11	<11	<12	<11	<10	<10	<11	<
4-Bromophenyl phenyl ether	<2.0	<2.2	<2.2	<2.2	<2.0	<1.9	<2.0	<
Butyl benzyl phthalate	<11	<11	<12	<11	<10	<10	<11	<
2-Chloronaphthalene	<2.0	<2.2	<2.2	<2.2	<2.0	<1.9	<2.0	<
4-Chlorophenyl phenyl ether	<4.5	<4.8	<4.9	<4.8	<4.4	<4.3	<4.5	<
Chrysene	<2.7	<2.8	<2.9	<2.8	<2.6	<2.6	<2.7	<
Dibenzo(a,h)anthracene	<11	<11	<12	<11	<10	<10	<11	<
1,2-Dichlorobenzene	<2.0	<2.2	<2.2	<2.2	<2.0	<1.9	<2.0	<
1,3-Dichlorobenzene	<2.0	<2.2	<2.2	<2.2	<2.0	2.81	<2.0	<
1,4-Dichlorobenzene	<4.7	<5.0	<5.2	<5.0	<4.6	<4.5	<4.7	<
3,3-Dichlorobenzidine	<18	<19	<19	<19	<17	<17	<18	<2
Diethylphthalate	<11	<11	<12	<11	<10	<10	<11	<1
Dimethylphthalate	<11	<11	<12	<11	<10	<10	<11	<1
Di-n-butylphthalate	<11	<11	<12	<11	<10	<10	<11	1
2,4-Dinitrotoluene	<6.1	<6.5	<6.7	<6.5	<5.9	<5.8	<6.1	<1
2,6-Dinitrotoluene	<2.0	<2.2	<2.2	<2.2	<2.0	<1.9	<2.0	<1
Di-n-octylphthalate	<11	<11	<12	<11	<10	<10	<11	<1
1,2-Diphenylhydrazine	<11	<11	<12	<11	<10	<10	<11	<1
Fluoranthene	<2.3	<2.5	<2.6	<2.5	<2.3	<2.2	<2.4	<1
Fluorene	<2.0	<2.2	<2.2	<2.2	<2.0	<1.9	<2.0	<1
Hexachlorobenzene	<2.0	<2.2	<2.2	<2.2	<2.0	<1.9	<2.0	<1
Hexachlorobutadiene	< 96	<1.0	<1.1	<1.0	< 94	<0.92	< 97	<1
Hexachlorocyclopentadiene	<11	<11	<12	<11	<10	<10	<11	<1
Hexachloroethane	<1.7	<1.8	<1.9	<1.8	<1.7	<1.6	<1.7	<1
Indeno(1,2,3-c,d)pyrene	<5.0	<5.3	<5.5	<5.3	<4.9	<4.8	<5.1	<1
Isophorone	<2.3	<2.5	<2.6	<2.5	<2.3	<2.2	<2.4	<1
Naphthalene	<1.7	NA	<1.9	<1.8	<1.7	<1.6	<1.7	<1
Nitrobenzene	<2.0	<2.2	<2.2	<2.2	<2.0	<1.9	<2.0	<1
N-Nitrosodimethylamine	<11	<11	<12	<11	<10	<10	<11	<1
N-Nitrosodi-n-propylamine	<11	<11	<12	<11	<10	<10	<11	<1
N-Nitrosodiphenylamine	<2.0	<2.2	<2.2	<2.2	<2.0	<1.9	<2.0	<1
Phenanthrene	<5.7	<6.1	<6.4	<6.1	<5.6	<5.5	<5.8	<1
Pyrene	<2.0	<2.2	<2.2	<2.2	<2.0	<1.9	<2.0	<1
1,2,4-Trichlorobenzene	<2.0	<2.2	<2.2	<2.2	<2.0	<1.9	<2.0	<1
Sub Total 1	0	0	0	0	0	3	0	0

See last page for footnotes.

Well Number:	GM-62A	GM-62A	GM-62A	GM-62B	GM-62B	GM-62B	GM-62B	GM-6
Sample Date:	8/88	11/88	11/89	5/88	8/88*	11/88	11/89	
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<11	<11	NA	<11	<10	<10	NA	<
2-Nitroaniline	<11	<11	<12	<11	<10	<10	<11	<
4-Nitroaniline	<11	<11	NA	<11	<10	<10	NA	<
2-Nitrochlorobenzene	<11	<11	NA	<11	<10	<10	NA	<
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	
4-Nitrochlorobenzene	<11	<11	<12	<11	<10	<10	<11	<
4-Nitrodiphenylamine	<11	<11	NA	<11	<10	<10	NA	<
Triphenylphosphate	<11	<11	NA	<11	<10	<10	NA	<
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	<12	NA	NA	NA	<11	N
2-Nitrobiphenyl	NA	NA	<12	NA	NA	NA	<11	N
4-Nitrobiphenyl	NA	NA	<12	NA	NA	NA	<11	N
Benzyl alcohol	NA	NA	<12	NA	NA	NA	<11	N
Aniline	NA	NA	<12	NA	NA	NA	<11	N
4-Chloroaniline	NA	NA	<12	NA	NA	NA	<11	N
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	N
N-nitroaniline	NA	NA	<12	NA	NA	NA	<11	N
Dibenzofuran	NA	NA	<12	NA	NA	NA	<11	N
3-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	N
2-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	N
Sub Total 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Total Base/Neutral Compounds	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois.

Well Number:	GM-62B	GM-62B	GM-62C	GM-62C	GM-62C	GM-62C	GM-106	[illegible]
Sample Date:	5/89	5/89*	8/88	11/88	5/89	11/89	12.86	[illegible]
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	[illegible]
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<2.0	<2.0	<2.0	<2.1	<2.3	<2.0	<2.0	<1
Acenapthylene	<3.7	<3.6	<3.6	<3.8	<4.3	<3.8	<3.7	<3
Anthracene	<2.0	<2.0	<2.0	<2.1	<2.3	<2.0	<2.0	<1
Benzidine	<47	<45	<46	<48	<54	<47	<47	<4
Benzo(a)anthracene	<8.3	<8.0	<8.1	<8.6	<9.5	<8.4	<8.3	<7
Benzo(a)pyrene	<2.7	<2.6	<2.6	<2.7	<3.0	<2.7	<2.7	<2
Benzo(b)fluoroanthene	<5.1	<4.9	<5.0	<5.3	<5.9	<5.2	<11	<1
Benzo(ghi)perylene	<4.4	<4.2	<4.3	<4.5	<5.0	<4.4	<4.4	<4
Benzo(k)fluoranthene	<2.7	<2.6	<3.6	<2.7	<3.0	<2.7	<3.7	<3
bis(2-Chloroethoxy)methane	<5.6	<5.5	<5.5	<5.8	<6.5	<5.7	<5.6	<5
bis(2-Chloroethyl)ether	<6.1	<5.9	<5.9	<6.3	<7.0	<6.1	<6.1	<5
bis(2-Chloroisopropyl)ether	<6.1	<5.9	<5.9	<6.3	<7.0	<6.1	<6.1	<5
bis(2-Ethylhexyl)phthalate	<11	<10	<10	13.9	<12	<11	<11	<1
4-Bromophenyl phenyl ether	<2.0	<2.0	<2.0	<2.1	<2.3	<2.0	<2	<1
Butyl benzyl phthalate	<11	<10	<10	<11	<12	<11	<11	<1
2-Chloronaphthalene	<2.0	<2.0	<2.0	NA	<2.3	<2.0	<2	<1
4-Chlorophenyl phenyl ether	<4.5	<4.3	<4.4	<4.6	<5.1	<4.5	<4.5	<4
Chrysene	<2.7	<2.6	<2.6	<2.7	<3.0	<2.7	<2.7	<2
Dibenzo(a,h)anthracene	<11	<10	<10	<11	<12	<11	<11	<1
1,2-Dichlorobenzene	<2.0	<2.0	<2.0	<2.1	4.88	3.89	2.7	6
1,3-Dichlorobenzene	<2.0	<2.0	<2.0	5.46	<2.3	<2.0	<2	<1
1,4-Dichlorobenzene	<4.7	<4.5	<4.6	<4.8	6.80	<4.7	<4.7	<4
3,3-Dichlorobenzidine	<18	<17	<17	<18	<20	<18	<18	<1
Diethylphthalate	<11	<10	<10	<11	<12	<11	<11	<1(
Dimethylphthalate	<11	<10	<10	<11	<12	<11	<11	<1(
Di-n-butylphthalate	<11	<10	<10	<11	<12	<11	<11	<1(
2,4-Dinitrotoluene	<6.1	<5.9	<5.9	<6.3	<7.0	<6.1	<6.1	<5.8
2,6-Dinitrotoluene	<2.0	<2.0	<2.0	<2.1	<2.3	<2.0	<2.0	<1
Di-n-octylphthalate	<11	<10	<10	<11	<12	<11	<11	<1(
1,2-Diphenylhydrazine	<11	<10	<10	<11	<12	<11	<11	<1(
Fluoranthene	<2.3	<2.3	<2.3	<2.4	<2.7	<2.4	<2.3	<2.2
Fluorene	<2.0	<2.0	<2.0	<2.1	<2.3	<2.0	<2.0	<1.9
Hexachlorobenzene	<2.0	<2.0	<2.0	<2.1	<2.3	<2.0	<2.0	<1.9
Hexachlorobutadiene	<.96	<0.93	<.94	<.99	<1.1	<.97	<1.0	<0.9
Hexachlorocyclopentadiene	<11	<10	<10	<11	<12	<11	<11	<1(
Hexachloroethane	<1.7	<1.6	<1.7	<1.8	<2.0	<1.7	<1.7	<1.6
Indeno(1,2,3-c,d)pyrene	<5.0	<4.8	<4.9	<5.2	<5.7	<5.1	<5.0	<4.7
Isophorone	<2.3	<2.3	<2.3	<2.4	<2.7	<2.4	<2.3	<2.2
Naphthalene	<1.7	<1.6	<1.7	<1.8	<2.0	<1.7	<1.7	2.7
Nitrobenzene	<2.0	<2.0	<2.0	<2.1	<2.3	<2.0	<2.0	<1.9
N-Nitrosodimethylamine	<11	<10	<10	<11	<12	<11	<11	<10
N-Nitrosodi-n-propylamine	<11	<10	<10	<11	<12	<11	<11	<10
N-Nitrosodiphenylamine	<2.0	<2.0	<2.0	<2.1	<2.3	<2.0	<2.0	<1.9
Phenanthrene	<5.7	<5.6	<5.6	<5.9	<6.6	<5.8	<5.7	<5.5
Pyrene	<2.0	<2.0	<2.0	<2.1	<2.3	<2.0	<2.0	<1.9
1,2,4-Trichlorobenzene	<2.0	<2.0	<2.0	<2.1	<2.3	<2.0	<2.0	<1.9
Sub Total 1	0	0	0	19	12	4	2.7	9.1

See last page for footnotes.

Well Number:	GM-62B	GM-62B	GM-62C	GM-62C	GM-62C	GM-62C	GM-106	GM-10
Sample Date:	5/89	5/89*	8/88	11/88	5/89	11/89	11/85	2
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	E
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	NA	NA	<10	<11	NA	NA	<10	<1
2-Nitroaniline	NA	NA	<10	<11	NA	<11	<10	<1
4-Nitroaniline	NA	NA	<10	<11	NA	NA	<10	<1
2-Nitrochlorobenzene	NA	NA	<10	<11	NA	NA	598	11
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrochlorobenzene	NA	NA	<10	<11	NA	<11	108	35
4-Nitrodiphenylamine	NA	NA	<10	<11	NA	NA	<10	<1
Triphenylphosphate	NA	NA	<10	<11	NA	NA	<10	<1
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	<11	NA	NA
2-Nitrobiphenyl	NA	NA	NA	NA	NA	<11	NA	NA
4-Nitrobiphenyl	NA	NA	NA	NA	NA	<11	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	<11	NA	NA
Aniline	NA	NA	NA	NA	NA	<11	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	<11	NA	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	<11	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	<11	NA	NA
3-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0.0	0.0	0.0	0.0	0.0	0.0	706.0	468
Total Base/Neutral Compounds	0.0	0.0	0.0	19.4	11.7	3.9	708.7	477

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois.

Well Number:	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106	10-
Sample Date:	11/85	2/86	2/86*	11/87	5/88	11/88	11/89	9-
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ET
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<1.9	<2.0	<1.9	<1.9	<39	<19	<220	<1
Acenapthylene	<3.5	<3.6	<3.6	<3.5	<72	<35	<400	<3
Anthracene	<1.9	<2.0	<1.9	<1.9	<39	<19	<220	<1
Benzidine	<44	<45	<45	<44	<910	<440	<5100	<4
Benzo(a)anthracene	<7.9	<8	<8	<7.8	<160	<79	<900	<7
Benzo(a)pyrene	<2.5	<2.6	<2.6	<2.5	<52	<25	<290	<2
Benzo(b)fluoroanthene	<4.8	<4.9	<4.9	<10	<99	<48	<550	<4
Benzo(ghi)perylene	<4.1	<4.2	<4.2	<4.1	<85	<41	<470	<4
Benzo(k)fluoranthene	<3.5	<3.6	<3.6	<3.5	<52	<25	<290	<2
bis(2-Chloroethoxy)methane	<5.4	<5.5	<5.4	<5.3	<110	<54	<610	<5
bis(2-Chloroethyl)ether	<5.8	<5.9	<5.8	<5.7	<120	<58	<660	<5
bis(2-Chloroisopropyl)ether	<5.8	<5.9	<5.8	<5.7	<120	<58	<660	<5
bis(2-Ethylhexyl)phthalate	<10	<10	<10	<10	<210	<100	<1100	<10
4-Bromophenyl phenyl ether	<1.9	<2	<1.9	<1.9	<39	<19	<220	<1
Butyl benzyl phthalate	<10	<10	<10	<10	<210	<100	<1100	<10
2-Chloronaphthalene	<1.9	<2	<1.9	<1.9	<39	<19	<220	<1
4-Chlorophenyl phenyl ether	<4.2	<4.3	<4.3	<4.2	<87	<42	<480	<4
Chrysene	<2.5	<2.6	<2.6	<2.5	<52	<25	<290	<2
Dibenzo(a,h)anthracene	<10	<10	<10	<10	<210	<100	<1100	<2
1,2-Dichlorobenzene	<1.9	4.9	4.8	56.6	85.8	126	<220	120
1,3-Dichlorobenzene	<1.9	<2	<1.9	<1.9	<39	<19	<220	4.23
1,4-Dichlorobenzene	<4.4	<4.5	<4.5	10.4	<91	<44	<510	26.8
3,3-Dichlorobenzidine	<17	<17	<17	<17.0	<340	<170	<1900	<16.5
Diethylphthalate	<10	<10	<10	<10	<210	<100	<1100	<10
Dimethylphthalate	<10	<10	<10	<10	<210	<100	<1100	<10
Di-n-butylphthalate	<10	<10	<10	<10	<210	<100	<1100	
2,4-Dinitrotoluene	<5.8	<5.9	<5.8	<5.7	<120	<58	<660	
2,6-Dinitrotoluene	<1.9	<2.0	<1.9	<1.9	<39	<19	<220	<1.9
Di-n-octylphthalate	<10	<10	<10	<10	<210	<100	<1100	<10
1,2-Diphenylhydrazine	<10	<10	<10	<10	<210	<100	<1100	<10
Fluoranthene	<2.2	<2.3	<2.2	<2.2	<45	<22	<250	<2.2
Fluorene	<1.9	<2.0	<1.9	<1.9	<39	<19	<220	<1.9
Hexachlorobenzene	<1.9	<2.0	<1.9	<1.9	<39	<19	<220	<1.9
Hexachlorobutadiene	<0.9	<0.9	<0.9	<0.90	<19	<9.1	<100	<90
Hexachlorocyclopentadiene	<10	<10	<10	<10	<210	<100	<1100	<10
Hexachloroethane	<1.6	<1.6	<1.6	<1.6	<33	<16	<180	<1.6
Indeno(1,2,3-c,d)pyrene	<4.7	<4.8	<4.8	<4.7	<97	<47	<540	<3.7
Isophorone	<2.2	<2.3	<2.2	<2.2	<45	<22	<250	<2.2
Naphthalene	<1.6	<1.6	<1.6	6.35	<33	16.8	<180	11.5
Nitrobenzene	3.3	7.9	8.2	19.8	<39	50.9	<220	132
N-Nitrosodimethylamine	<10	<10	<10	<10	<210	<100	<1100	<10
N-Nitrosodi-n-propylamine	<10	<10	<10	<10	<210	<100	<1100	<10
N-Nitrosodiphenylamine	<1.9	<2.0	<1.9	<1.9	<39	<19	<220	<1.9
Phenanthrene	<5.5	<5.6	<5.5	<5.4	<110	<55	<620	<5.4
Pyrene	<1.9	<2.0	<1.9	<1.9	<39	<19	<220	<1.9
1,2,4-Trichlorobenzene	<1.9	<2.0	<1.9	<1.9	<39	<19	<220	4.75
Sub Total 1	3.3	12.8	13	93.2	85.8	193.7	0	299

See last page for footnotes.

Well Number:	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106	GM-10
Sample Date:	2/86*	12/86	5/87	11/87	5/88	11/88	11/89	11 9
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	E
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<10	<11	<10	<10	<210	<100	<1100	<1
2-Nitroaniline	<10	<11	<10	<10	<210	<100	<1100	<1
4-Nitroaniline	<10	<11	<10	<10	<210	<100	<1100	<1
2-Nitrochlorobenzene	99.9	1,450	2,670	59,900	5,050	99,000	5,410	66,80
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrochlorobenzene	398	172	452	9,950	795	14,300	<1100	1530
4-Nitrodiphenylamine	<10	<11	<10	<10	<210	<100	<1100	<1
Triphenylphosphate	<10	<11	<10	<10	<210	<100	<1100	<1
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	NA	NA	<210	NA	<1100	NA
4-Nitrobiphenyl	NA	NA	NA	NA	<210	NA	<1100	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	3,420	2,250
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA
3-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	497.9	1,622.0	3,122.0	69,850.0	5,845.0	113,300.0	8,830.0	84,350
Total Base/Neutral Compounds	501.2	1,634.8	3,135.0	69,943.2	5,930.8	113,493.7	8,830.0	84 649

See last page for footnotes.

Well Number:	GM-106	B-24A	B-25A	B-25A	B-25A	B-25B	B-25B	B-2
Sample Date:	11/91	2/86	6/84	11/85	3/87	6/84	11/85	3
Laboratory:	ETC	ETC	EEI	ETC	ETC	EEI	ETC	E
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<38	<2.0	<80	<3.7	<210	<80	<2.0	<2
Acenapthylene	<70	<3.6	<60	<6.9	<390	<60	<3.7	<3
Anthracene	<38	<2.0	<80	<3.7	<210	<80	<2.0	<2
Benzidine	<880	<45	<1,200	<86	<4,900	<1,200	<47	<4
Benzo(a)anthracene	<160	<8	<180	<15	<880	<180	<8.3	<8
Benzo(a)pyrene	<50	<2.6	<240	<4.9	<280	<240	<2.7	<2
Benzo(b)fluoroanthene	<96	<10	<220	<9.4	<1,100	<220	<5.1	<5
Benzo(ghi)perylene	<82	<4.2	<280	<8.0	<460	<280	<4.4	<4
Benzo(k)fluoranthene	<50	<3.6	<220	<6.9	<390	<220	<3.7	<3
bis(2-Chloroethoxy)methane	<110	<5.5	<80	<10	<600	<80	<5.6	<5
bis(2-Chloroethyl)ether	<110	<5.9	<80	<11	<640	<80	<6.1	<6
bis(2-Chloroisopropyl)ether	<110	<5.9	<60	<11	<640	<60	<6.1	<6
bis(2-Ethylhexyl)phthalate	<200	<10	<200	61.8	<1,100	<200	<11	13
4-Bromophenyl phenyl ether	<38	<2	<320	<3.7	<210	<320	<2	<2
Butyl benzyl phthalate	<200	<10	<260	<20	<1,100	<260	<11	<1
2-Chloronaphthalene	<38	<2	<80	<3.7	<210	<80	<2	<2
4-Chlorophenyl phenyl ether	<84	<4.3	<180	<8.2	<470	<180	<4.5	<4
Chrysene	<50	<2.6	<180	<4.9	<280	<180	<2.7	<2
Dibenzo(a,h)anthracene	<50	<10	<320	<20	<1,100	<320	<11	<1
1,2-Dichlorobenzene	184	180	<100	3,790	8,800	<100	124	2.7
1,3-Dichlorobenzene	<38	2.5	<120	12.6	<210	<120	2.7	<2
1,4-Dichlorobenzene	<88	114	35	190	<490	<100	31	<4
3,3-Dichlorobenzidine	<330	<17	<3,220	<32	<1,900	<3,220	<18	<1
Diethylphthalate	<200	<10	<80	<20	<1,100	<80	<11	<1
Dimethylphthalate	<200	<10	<80	<20	<1,100	<80	<11	<1
Di-n-butylphthalate	<200	<10	<60	<20	<1,100	91	<11	<1
2,4-Dinitrotoluene	<110	<5.9	<280	<11	<640	<280	<6.1	<6
2,6-Dinitrotoluene	<38	<2.0	<320	<3.7	<210	<320	<2.0	<2
Di-n-octylphthalate	<200	<10	<120	<20	<1,100	<120	<11	<1
1,2-Diphenylhydrazine	<200	<10	<200	<20	<1,100	<200	<11	<1
Fluoranthene	<44	<2.3	<100	<4.3	<250	<100	<2.3	<2
Fluorene	<38	<2.0	<80	<3.7	<210	<80	<2.0	<2
Hexachlorobenzene	<38	<2.0	<300	<3.7	<210	<300	<2.0	<2.1
Hexachlorobutadiene	<18	<0.9	<260	<1.8	<100	<260	<1	<1.0
Hexachlorocyclopentadiene	<200	<10	<240	<20	<1,100	<240	<11	<11
Hexachloroethane	<32	<1.6	<200	<3.1	<180	<200	<1.7	<1.8
Indeno(1,2,3-c,d)pyrene	<74	<4.8	<140	<9.2	<530	<140	<5.0	<5.2
Isophorone	<44	<2.3	<40	<4.3	<250	<40	<2.3	<2.4
Naphthalene	<32	15.7	2,350	193	872	<40	31.7	<1.8
Nitrobenzene	<38	2,850	<100	8,080	12,900	<100	4,030	15.8
N-Nitrosodimethylamine	<200	<10	<200	<20	<1,100	<200	<11	<11
N-Nitrosodi-n-propylamine	<200	<10	<120	<20	<1,100	<120	<11	<11
N-Nitrosodiphenylamine	<38	<2.0	<1,640	<3.7	<210	<1,640	<2.0	<2.1
Phenanthrene	<110	<5.6	<80	<11	<610	<80	<5.7	<6.0
Pyrene	<38	<2.0	<100	<3.7	<210	<100	<2.0	<2.1
1,2,4-Trichlorobenzene	<38	17.2	<140	929	2,170	<140	37.8	<2.1
Sub Total 1	184	3,179	2,385	13,256	24,742	91	4,257.2	31.7

See last page for footnotes.

Well Number:	GM-106	B-24A	B-25A	B-25A	B-25A	B-25B	B-25B	B-26
Sample Date:	11/91	2/86	6/84	11/85	3/87	6/84	11/85	3
Laboratory:	ETC	ETC	EEI	ETC	ETC	EEI	ETC	ET
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<200	<10	NA	<20	NA	NA	<11	N
2-Nitroaniline	<200	<10	NA	570	1,160	NA	3,280	<
4-Nitroaniline	<200	<10	NA	79.2	<1,100	NA	1,780	<
2-Nitrochlorobenzene	<200	368,000	NA	226,000	NA	NA	25,600	N
3-Nitrochlorobenzene	<200	NA	NA	NA	NA	NA	NA	N
4-Nitrochlorobenzene	<200	108,000	NA	102,000	NA	NA	15,500	N
4-Nitrodiphenylamine	<200	161	NA	255	NA	NA	34.5	N
Triphenylphosphate	<200	<10	NA	412	NA	NA	<11	N
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	N
2-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	NA	N
4-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	NA	N
Benzyl alcohol	NA	334	NA	NA	1,830	NA	NA	<
Aniline	3,290	1,190	NA	NA	<1,000	NA	NA	2
4-Chloroaniline	19,900	5,820	NA	NA	5,380	NA	NA	71
2-Methylnaphtalene	NA	NA	NA	NA	<1,000	NA	NA	<
N-nitrosaniline	NA	NA	NA	NA	<1,000	NA	NA	<
Dibenzofuran	NA	NA	NA	NA	<1,000	NA	NA	<
3-Chloroaniline	7,820	NA	NA	NA	NA	NA	NA	N
2-Chloroaniline	10,900	NA	NA	NA	NA	NA	NA	N
Sub Total 2	41,910	483,505.0	0.0	329,316.2	8,370.0	0.0	46,194.5	730
Total Base/Neutral Compounds	42,094	486,684.4	2,385.0	342,572.6	33,112.0	91.0	50,451.7	761

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois

Well Number:	B-27B	B-27B	B-28A	B-28A	B-29A	B-29A	B-29B	29
Sample Date:	9/84**	9/84*	2/86	3/87	6/84	11/85	6/84	8-
Laboratory:	EEI	EEI	ETC	ETC	EEI	ETC	EEI	E:
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	NA	NA	<2.0	<2.0	<80	<3.7	<800	<8
Acenapthylene	NA	NA	<3.7	<3.8	<60	<6.9	<600	<6
Anthracene	NA	NA	<2.0	<2.0	<80	<3.7	<800	<8
Benzidine	NA	NA	<47	<47	<1,200	<86	<12,000	<1,20
Benzo(a)anthracene	NA	NA	<8.3	<8.4	<180	<15	<1,800	<18
Benzo(a)pyrene	NA	NA	<2.7	<2.7	<240	<4.9	<2,400	<24
Benzo(b)fluoroanthene	NA	NA	<5.1	<11	<220	<9.4	<2,200	<22
Benzo(ghi)perylene	NA	NA	<4.4	<4.4	<280	<8.0	<2,800	<28
Benzo(k)fluoranthene	NA	NA	<3.7	<3.8	<220	<6.9	<2,200	<22
bis(2-Chloroethoxy)methane	NA	NA	<5.6	<5.7	<80	<10	<800	<8
bis(2-Chloroethyl)ether	NA	NA	<6.1	<6.1	<80	<11	<800	<8
bis(2-Chloroisopropyl)ether	NA	NA	<6.1	<6.1	<60	<11	<600	<6
bis(2-Ethylhexyl)phthalate	NA	NA	<11	<11	<200	<20	591	<20
4-Bromophenyl phenyl ether	NA	NA	<2	<2.0	<320	<3.7	<3,200	<32
Butyl benzyl phthalate	NA	NA	<11	<11	<260	<20	<2,600	<26
2-Chloronaphthalene	NA	NA	<2	<2.0	<80	<3.7	<800	<8
4-Chlorophenyl phenyl ether	NA	NA	<4.5	<4.5	<180	<8.2	<1,800	<18
Chrysene	NA	NA	<2.7	<2.7	<180	<4.9	<1,800	<18
Dibenzo(a,h)anthracene	NA	NA	<11	<11	<320	<20	<3,200	<32
1,2-Dichlorobenzene	NA	NA	<2	<2.0	<100	221	1,070	<10
1,3-Dichlorobenzene	NA	NA	<2	<2.0	<120	24	<1,200	<12
1,4-Dichlorobenzene	NA	NA	<4.7	<4.7	<100	73.1	<1,000	24
3,3-Dichlorobenzidine	NA	NA	<18	<18.3	<3,220	<33.3	<32,200	<3,22
Diethylphthalate	NA	NA	<11	<11	<80	<20	<800	<80
Dimethylphthalate	NA	NA	<11	<11	<80	<20	<800	<80
Di-n-butylphthalate	NA	NA	<11	<11	127	<20	304	<60
2,4-Dinitrotoluene	NA	NA	<6.1	<6.1	<280	<11	<2,800	280
2,6-Dinitrotoluene	NA	NA	<2.0	<2.0	<320	<3.7	<3,200	<320
Di-n-octylphthalate	NA	NA	<11	<11	<120	<20	<1,200	<120
1,2-Diphenylhydrazine	NA	NA	<11	<11	<200	<20	<2,000	<200
Fluoranthene	NA	NA	<2.3	<2.4	<100	<4.3	<1,000	<100
Fluorene	NA	NA	<2.0	<2.0	<80	<3.7	<800	<80
Hexachlorobenzene	NA	NA	<2.0	<2.0	<300	<3.7	<3,000	<300
Hexachlorobutadiene	NA	NA	<1	<.97	<260	<1.8	<2,600	<260
Hexachlorocyclopentadiene	NA	NA	<11	<11	<240	<20	<2,400	<240
Hexachloroethane	NA	NA	<1.7	<1.7	<200	<3.1	<2,000	<200
Indeno(1,2,3-c,d)pyrene	NA	NA	<5.0	<5.1	<140	<9.2	<1,400	<140
Isophorone	NA	NA	<2.3	<2.4	<40	27.5	<400	<40
Naphthalene	NA	NA	<1.7	<1.7	<40	<3.1	<400	11,600
Nitrobenzene	NA	NA	<2.0	<2.0	<100	1,650	<1,000	<100
N-Nitrosodimethylamine	NA	NA	<11	<11	<200	<20	<2,000	<200
N-Nitrosodi-n-propylamine	NA	NA	<11	<11	<120	<20	<1,200	<120
N-Nitrosodiphenylamine	NA	NA	<2.0	<2.0	<1,640	<3.7	<16,400	<1,640
Phenanthrene	NA	NA	<5.7	<5.8	<80	<11	<800	<80
Pyrene	NA	NA	<2.0	<2.0	<100	<3.7	<1,000	<100
1,2,4-Trichlorobenzene	NA	NA	<2.0	<2.0	<140	25.5	<1,400	<140
Sub Total 1	0.0	0.0	0	0	127	2021.1	1965	11840

See last page for footnotes.

Well Number:	B-27B	B-27B	B-28A	B-28A	B-29A	B-29A	B-29B	B-29E
Sample Date:	9/84**	9/84*	2/86	3/87	6/84	11/85	6/84	6/84*
Laboratory:	EEI	EEI	ETC	ETC	EEI	ETC	EEI	EE
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	NA	NA	<11	NA	NA	<20	NA	NA
2-Nitroaniline	NA	NA	<11	<11	NA	<20	NA	NA
4-Nitroaniline	NA	NA	<11	<11	NA	189	NA	NA
2-Nitrochlorobenzene	NA	NA	<11	NA	NA	<20	NA	NA
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrochlorobenzene	NA	NA	<11	NA	NA	<20	NA	NA
4-Nitrodiphenylamine	NA	NA	<11	NA	NA	628	NA	NA
Triphenylphosphate	NA	NA	<11	NA	NA	132	NA	NA
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrobiphenyl	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	<11	NA	NA	NA	NA
Aniline	NA	NA	NA	<11	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	<11	NA	NA	NA	NA
2-Methylnaphtalene	NA	NA	NA	<11	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	<11	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	<11	NA	NA	NA	NA
3-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0.0	0.0	0.0	0.0	0.0	949.0	0.0	0.0
Total Base/Neutral Compounds	0.0	0.0	0.0	0.0	127.0	2,970.1	1,965.0	11,840.0

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois.

Well Number:	B-29B	B-29B	B-29B	B-30B	B-101	P-1	P-1	P
Sample Date:	6/84#	11/84	11/85	9/84**	9/84**	9/84**	3/87	[illegible]
Laboratory:	ETC	EEI	ETC	EEI	EEI	EEI	ETC	ET
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<100	<50	<3.8	NA	<4	<4	<2.1	<1
Acenapthylene	<100	<50	<7.0	NA	<3	<3	<3.9	<3
Anthracene	<100	<50	<3.8	NA	<4	<4	<2.1	<1
Benzidine	<100	<60	<88	NA	<60	<60	<49	<4
Benzo(a)anthracene	<100	<50	<16	NA	<9	<9	<8.7	<7
Benzo(a)pyrene	<100	<50	<5.0	NA	<12	<12	<2.8	<2
Benzo(b)fluoroanthene	<100	<50	<9.6	NA	<11	<11	<11	<1
Benzo(ghi)perylene	<100	<50	<8.2	NA	<14	<14	<4.6	<4
Benzo(k)fluoranthene	<100	<50	<7.0	NA	<11	<11	<3.9	<3
bis(2-Chloroethoxy)methane	<100	<50	<11	NA	<4	<4	<5.9	<5
bis(2-Chloroethyl)ether	<100	<50	<11	NA	<4	<4	<6.3	<5
bis(2-Chloroisopropyl)ether	<100	<50	<11	NA	<3	<3	<6.3	<5
bis(2-Ethylhexyl)phthalate	<100	<50	<20	NA	109	4	<11	<1
4-Bromophenyl phenyl ether	<100	<50	<3.8	NA	<16	<16	<2.1	<1
Butyl benzyl phthalate	<100	<50	<20	NA	<13	<13	<11	<1
2-Chloronaphthalene	<100	<50	<3.8	NA	<4	<4	<2.1	<1
4-Chlorophenyl phenyl ether	<100	<50	<8.4	NA	<9	<9	<4.7	<4
Chrysene	<100	<50	<5.0	NA	<9	<9	<2.8	<2
Dibenzo(a,h)anthracene	<100	<50	<20	NA	<16	<16	<11	<1
1,2-Dichlorobenzene	13,500	4,200	779	NA	<5	9	<2.1	2.5
1,3-Dichlorobenzene	<100	<50	<3.8	NA	28,500	<6	<2.1	2.1
1,4-Dichlorobenzene	<100	<50	<8.8	NA	<5	1	10.2	18
3,3-Dichlorobenzidine	<100	<50	<34	NA	<161	<161	<18	<1
Diethylphthalate	<100	<50	<20	NA	<4	<4	<11	<1
Dimethylphthalate	<100	<50	<20	NA	<4	<4	<11	<1
Di-n-butylphthalate	<100	<50	<20	NA	<3	2	<11	<1
2,4-Dinitrotoluene	<100	<50	<11	NA	65,700	<14	<[illegible]	<5
2,6-Dinitrotoluene	<100	<50	<3.8	NA	<16	<16	<2.1	<1.9
Di-n-octylphthalate	<100	<50	<20	NA	<6	<6	<11	<1
1,2-Diphenylhydrazine	<100	<50	<20	NA	<10	<10	<11	<1
Fluoranthene	<100	<50	<4.4	NA	<5	<5	<2.4	<2.2
Fluorene	<100	<50	<3.8	NA	<4	<4	<2.1	<1.9
Hexachlorobenzene	<100	<50	<3.8	NA	<15	<15	<2.1	<1.9
Hexachlorobutadiene	<100	<50	<1.8	NA	<13	<13	<1.0	<0.90
Hexachlorocyclopentadiene	<100	<50	<20	NA	<12	<12	<11	<1
Hexachloroethane	<100	<50	<3.2	NA	<10	<10	<1.8	<1.6
Indeno(1,2,3-c,d)pyrene	<100	<50	<9.4	NA	<7	<7	<5.2	<4.7
Isophorone	<100	55	76.6	NA	<2	<2	<2.4	<2.2
Naphthalene	<100	125	58.6	NA	<2	<2	<1.8	<1.6
Nitrobenzene	<100	2,170	1,060	NA	<5	<5	<2.1	<1.9
N-Nitrosodimethylamine	<100	<50	<20	NA	<10	<10	<11	<10
N-Nitrosodi-n-propylamine	<100	<50	<20	NA	<6	<6	<11	<10
N-Nitrosodiphenylamine	<100	<50	<3.8	NA	<82	<82	<2.1	<1.9
Phenanthrene	<100	<50	<11	NA	<4	<4	<6.0	<5.4
Pyrene	<100	<50	<3.8	NA	<5	<5	<2.1	<1.9
1,2,4-Trichlorobenzene	<100	520	65.5	NA	<7	1	<2.1	<1.9
Sub Total 1	13,500	7,070	2,040	NA	94,309	17	10.2	22.9

See last page for footnotes.

Well Number:	B-29B	B-29B	B-29B	B-30B	B-101	P-1	P-1	P-
Sample Date:	6/84#	11/84	11/85	9/84**	9/84**	9/84**	3/87	11 8
Laboratory:	ETC	EEI	ETC	EEI	EEI	EEI	ETC	ETC
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	NA	<50	<20	NA	<10	<10	NA	<1
2-Nitroaniline	NA	<50	<20	NA	<25-30	<25-30	<11	<1
4-Nitroaniline	NA	375	601	NA	<25-30	<25-30	<11	<1
2-Nitrochlorobenzene	NA	e)	282	NA	<10	c)	NA	<1
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrochlorobenzene	NA	e)	<20	NA	<10	c)	NA	<1
4-Nitrodiphenylamine	NA	601	949	NA	<10	<10	NA	<1
Triphenylphosphate	NA	607	548	NA	<10	<10	NA	<1
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	NA	NA	<10	<10	NA	NA
4-Nitrobiphenyl	NA	NA	NA	NA	<10	<10	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	<11	NA
Aniline	NA	NA	NA	NA	NA	NA	<11	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	<11	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	<11	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	<11	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	<11	NA
3-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	0.0	1,583.0	2,380.0	0.0	0.0	0.0	0.0	0.0
Total Base/Neutral Compounds	13,500.0	8,653.0	4,419.7	#VALUE!	94,309.0	17.0	10.2	22.9

See last page for footnotes.

Well Number:	P-2	P-2	P-2	P-2	P-2	P-2	P-3	P-
Sample Date:	6/84	11/85	11/87	11/89	11/90	11/91	11/87	6/8
Laboratory:	EEI	ETC	ETC	ETC	ETC	ETC	ETC	EE
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<1	<1.9	<2.0	<21	<21	<19	<1.9	<
Acenapthylene	<1	<3.5	<3.6	<39	<38	<35	<3.5	<
Anthracene	<1	<1.9	<2.0	<21	<21	<19	<1.9	<
Benzidine	<1	<44	<45	<490	<480	<440	<44	<
Benzo(a)anthracene	<1	<7.8	<8.0	<87	<85	<78	<7.8	<
Benzo(a)pyrene	<1	<2.5	<2.6	<28	<27	<25	<2.5	<
Benzo(b)fluoroanthene	<1	<4.8	<10	<53	<52	<48	<10	<
Benzo(ghi)perylene	<1	<4.1	<4.2	<46	<45	<41	<4.1	<
Benzo(k)fluoranthene	<1	<3.5	<3.6	<28	<27	<25	<3.5	<
bis(2-Chloroethoxy)methane	<1	<5.3	<5.5	<59	<58	<53	<5.3	<
bis(2-Chloroethyl)ether	<1	<5.7	<5.9	<63	<62	<57	<5.7	<
bis(2-Chloroisopropyl)ether	<1	<5.7	<5.9	<63	<62	<57	<5.7	<
bis(2-Ethylhexyl)phthalate	1	<10	<10	<110	<110	<100	<10	<
4-Bromophenyl phenyl ether	<1	<1.9	<2.0	<21	<21	<19	<1.9	<
Butyl benzyl phthalate	<1	<10	<10	<110	<110	<100	<10	<
2-Chloronaphthalene	<1	<1.9	<2.0	<21	<21	<19	<1.9	<
4-Chlorophenyl phenyl ether	<1	<4.2	<4.3	<47	<46	<42	<4.2	<
Chrysene	<1	<2.5	<2.6	<28	<27	<25	<2.5	<
Dibenzo(a,h)anthracene	<1	<10	<10	<110	<27	<25	<10	<
1,2-Dichlorobenzene	1	<1.9	4.59	769	5,770	1,890	<1.9	<
1,3-Dichlorobenzene	<1	<1.9	<2.0	<21	<21	<19	<1.9	<
1,4-Dichlorobenzene	7	21.4	25.4	64.8	<48	75.0	<4.4	<1
3,3-Dichlorobenzidine	<1	<17	<17	<180	<179	<165	<17	<1
Diethylphthalate	<1	<10	<10	<110	<110	<100	[illegible]	<
Dimethylphthalate	<1	<10	<10	<110	<110	<100	<	<
Di-n-butylphthalate	1	<10	<10	<110	<110	<100	<1	
2,4-Dinitrotoluene	<1	<5.7	<5.9	<63	<62	<57	<5.7	<
2,6-Dinitrotoluene	<1	<1.9	<2.0	<21	<21	<19	<1.9	<1
Di-n-octylphthalate	<1	<10	<10	<110	<110	<100	<10	<1
1,2-Diphenylhydrazine	<1	<10	<10	<110	<110	<100	<10	<1
Fluoranthene	<1	<2.2	<2.3	<24	<24	<22	<2.2	<1
Fluorene	<1	<1.9	<2.0	<21	<21	<19	<1.9	<1
Hexachlorobenzene	<1	<1.9	<2.0	<21	<21	<19	<1.9	<1
Hexachlorobutadiene	<1	<0.9	< 93	<10	<9.8	<9.0	<0.90	<1
Hexachlorocyclopentadiene	<1	<10	<10	<110	<110	<100	<10	<1
Hexachloroethane	<1	<1.6	<1.6	<18	<17	<16	<1.6	<1
Indeno(1,2,3-c,d)pyrene	<1	<4.7	<4.8	<52	<40	<37	<4.7	<1
Isophorone	<1	<2.2	<2.3	<24	<24	<22	<2.2	<1
Naphthalene	<1	<1.6	<1.6	<18	<17	<16	<1.6	<1
Nitrobenzene	<1	<1.9	<2.0	<21	46.3	<19	<1.9	<1
N-Nitrosodimethylamine	<1	<10	<10	<110	<110	<100	<10	<1
N-Nitrosodi-n-propylamine	<1	<10	<10	<110	<110	<100	<10	<1
N-Nitrosodiphenylamine	<1	<1.9	<2.0	<21	<21	<19	<1.9	<1
Phenanthrene	<1	<5.4	<5.6	<60	<59	<54	<5.4	<1
Pyrene	<1	<1.9	<2.0	<21	<21	<19	<1.9	<1
1,2,4-Trichlorobenzene	<1	<1.9	<2.0	<21	44.9	<19	<1.9	<1
Sub Total 1	10	21.4	30.0	834	5,861	1,965	0	0

See last page for footnotes.

Well Number:	P-2	P-2	P-2	P-2	P-2	P-2	P-3	P
Sample Date:	6/84	11/85	11/87	11/89	11/90	11/91	11/87	6/8
Laboratory:	EEI	ETC	ETC	ETC	ETC	ETC	ETC	E
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	NA	<10	<10	<110	<110	<100	<10	N
2-Nitroaniline	NA	<10	<10	<110	<110	<100	<10	N
4-Nitroaniline	NA	<10	<10	<110	<110	<100	<10	N
2-Nitrochlorobenzene	NA	<10	<10	<110	52,600	179	<10	N
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	865	NA	N
4-Nitrochlorobenzene	NA	<10	<10	<110	98,000	<100	<10	N
4-Nitrodiphenylamine	NA	<10	<10	<110	<110	<100	<10	N
Triphenylphosphate	NA	<10	<10	<110	<110	<100	<10	N
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	N
2-Nitrobiphenyl	NA	NA	NA	<110	NA	NA	NA	N
4-Nitrobiphenyl	NA	NA	NA	<110	NA	NA	NA	N
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	N
Aniline	NA	NA	NA	35,000	2,400	19,400	NA	N
4-Chloroaniline	NA	NA	NA	NA	NA	50,400	NA	N
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	N
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	N
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	N
3-Chloroaniline	NA	NA	NA	NA	NA	57,200	NA	N
2-Chloroaniline	NA	NA	NA	NA	NA	72,000	NA	N
Sub Total 2	0.0	0.0	0.0	35,000.0	153,000	200,044	0.0	0
Total Base/Neutral Compounds	10.0	21.4	30.0	35,833.8	158,861	202,009	0.0	0

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois.

Well Number:	P-6	P-6	P-6	P-6	P-6	P-7	P-7	[illegible]-7
Sample Date:	11/85	11/87	11/89	11/90	11/91	6/84	11/85	2/86
Laboratory:	ETC	ETC	ETC	ETC	ETC	EEI	ETC	ETC
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<2.0	<1.9	<2.0	<1.9	<1.9	<80	<380	<1.9
Acenapthylene	<3.7	<3.5	<3.6	<3.5	<3.5	<60	<710	<3.5
Anthracene	<2.0	<1.9	<2.0	<1.9	<1.9	<80	<380	<1.9
Benzidine	<47	<44	<46	<44	<44	1,940	<8900	<44
Benzo(a)anthracene	<8.3	<7.8	<8.1	<7.8	<7.9	<180	<1600	<7.8
Benzo(a)pyrene	<2.7	<2.5	<2.6	<2.5	<2.5	<240	<510	<2.5
Benzo(b)fluoroanthene	<5.1	<10	<5.0	<4.8	<4.8	<220	<970	<4.8
Benzo(ghi)perylene	<4.4	<4.1	<4.3	<4.1	<4.1	<280	<830	<4.1
Benzo(k)fluoranthene	<3.7	<3.5	<2.6	<2.5	<2.5	<220	<710	<2.5
bis(2-Chloroethoxy)methane	<5.6	<5.3	<5.5	<5.3	<5.4	<80	<1100	<5.3
bis(2-Chloroethyl)ether	<6.1	<5.7	<5.9	<5.7	<5.8	<80	<1200	<5.7
bis(2-Chloroisopropyl)ether	<6.1	<5.7	<5.9	<5.7	<5.8	<60	<1200	<5.7
bis(2-Ethylhexyl)phthalate	<11	<10	<10	<10	<10	21	<2000	<2.5
4-Bromophenyl phenyl ether	<2	<1.9	<2.0	<1.9	<1.9	<320	<380	<1.9
Butyl benzyl phthalate	<11	<10	<10	<10	<10	<260	<2000	<2.5
2-Chloronaphthalene	<2	<1.9	<2.0	<1.9	<1.9	<80	<380	<1.9
4-Chlorophenyl phenyl ether	<4.5	<4.2	<4.4	<4.2	<4.2	<180	<850	<4.2
Chrysene	<2.7	<2.5	<2.6	<2.5	<2.5	<180	<510	<2.5
Dibenzo(a,h)anthracene	<11	<10	<10	<2.5	<2.5	<320	<2000	<2.5
1,2-Dichlorobenzene	<2	2.82	44.6	33.3	11.0	73	531	88.1
1,3-Dichlorobenzene	<2	<1.9	<2.0	<1.9	<1.9	<120	<380	2
1,4-Dichlorobenzene	<4.7	<4.4	53.4	49.9	16.7	64	<890	154
3,3-Dichlorobenzidine	<18	<17	<17	<16.5	<16.7	<3,220	<3300	<16.5
Diethylphthalate	<11	<10	<10	<10	<10	<80	<2000	<1.9
Dimethylphthalate	<11	<10	<10	<10	<10	<80	<2000	<1.6
Di-n-butylphthalate	<11	<10	<10	<10	<10	72	<2000	5
2,4-Dinitrotoluene	<6.1	<5.7	<5.9	<5.7	<5.8	<280	<1200	[illegible]7
2,6-Dinitrotoluene	<2.0	<1.9	<2.0	<1.9	<1.9	<320	<380	<1.9
Di-n-octylphthalate	<11	<10	<10	<10	<10	<120	<2000	<2.5
1,2-Diphenylhydrazine	<11	<10	<10	<10	<10	<200	<2000	<10
Fluoranthene	<2.3	<2.2	<2.3	<2.2	<2.2	<100	<440	<2.2
Fluorene	<2.0	<1.9	<2.0	<1.9	<1.9	<80	<380	<1.9
Hexachlorobenzene	<2.0	<1.9	<2.0	<1.9	<1.9	<300	<380	<1.9
Hexachlorobutadiene	<1.0	<0.90	<.94	<90	<.91	<260	<180	<0.9
Hexachlorocyclopentadiene	<11	<10	<10	<10	<10	<240	<2000	<10
Hexachloroethane	<1.7	<1.6	<1.7	<1.6	<1.6	<200	<320	<1.6
Indeno(1,2,3-c,d)pyrene	<5.0	<4.7	<4.9	<3.7	<3.7	<140	<950	<3.7
Isophorone	<2.3	<2.2	<2.3	<2.2	<2.2	<40	<440	<2.2
Naphthalene	<1.7	<1.6	<1.7	<1.6	<1.6	<40	<320	<1.6
Nitrobenzene	<2.0	<1.9	<2.0	<1.9	<1.9	<100	714	357
N-Nitrosodimethylamine	<11	<10	<10	<10	<10	<200	<2000	<10
N-Nitrosodi-n-propylamine	<11	<10	<10	<10	<10	<120	<2000	<10
N-Nitrosodiphenylamine	<2.0	<1.9	<2.0	<1.9	<1.9	<1,640	<380	<1.9
Phenanthrene	<5.7	<5.4	<5.6	<5.4	<5.5	<80	<1100	<5.4
Pyrene	<2.0	<1.9	<2.0	<1.9	<1.9	<100	<380	<1.9
1,2,4-Trichlorobenzene	<2.0	<1.9	<2.0	<1.9	<1.9	<140	<380	4.8
Sub Total 1	0	2.8	98	83	28	2,170	1,245	605.9

See last page for footnotes.

Well Number:	P-6	P-6	P-6	P-6	P-6	P-7	P-7	P-
Sample Date:	11/85	11/87	11/89	11/90	11/91	6/84	11/85	3/8
Laboratory:	ETC	ETC	ETC	ETC	ETC	EEI	ETC	ET
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<11	<10	<10	<10	<10	NA	<2000	N
2-Nitroaniline	<11	<10	<10	<10	<10	NA	<2000	<1
4-Nitroaniline	<11	<10	<10	<10	<10	NA	<2000	62
2-Nitrochlorobenzene	<11	<10	<10	<10	<10	NA	303,000	N
3-Nitrochlorobenzene	NA	NA	NA	NA	<10	NA	NA	N
4-Nitrochlorobenzene	<11	<10	<10	<10	<10	NA	75,000	N
4-Nitrodiphenylamine	<11	<10	<10	<10	<10	NA	<2000	N
Triphenylphosphate	<11	<10	<10	<10	<10	NA	<2000	N
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	N
2-Nitrobiphenyl	NA	NA	<10	NA	NA	NA	NA	N
4-Nitrobiphenyl	NA	NA	<10	NA	NA	NA	NA	N
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	17
Aniline	NA	NA	10,200	95.5	<10	NA	NA	6,36
4-Chloroaniline	NA	NA	NA	NA	1,570	NA	NA	15,00
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	<1
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	<1
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	<1
3-Chloroaniline	NA	NA	NA	NA	<10	NA	NA	N
2-Chloroaniline	NA	NA	NA	NA	3,880	NA	NA	N
Sub Total 2	0.0	0.0	10,200.0	96	5,450	0.0	378,000.0	21,593
Total Base/Neutral Compounds	0.0	2.8	10,298.0	179	5,478	2,170.0	379,245.0	22,199

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois.

Well Number:	P-7	P-7	P-7	P-7	P-7	P-7	P-7	P
Sample Date:	3/87	5/87	11/87	5/88	11/88	3/89	11/89	11
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	E
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<2.1	<38	<1.9	<220	<20	<20	<22	<
Acenapthylene	<3.8	<70	<3.6	<400	<36	<36	<41	<
Anthracene	<2.1	<38	<1.9	<220	<20	<20	<22	<
Benzidine	<48	<880	<45	<5000	<450	<450	<520	<8
Benzo(a)anthracene	<8.6	<160	<8.0	<890	<80	<80	<92	<1
Benzo(a)pyrene	<2.7	<50	<2.6	<290	<26	<26	<29	<
Benzo(b)fluoroanthene	<11	<200	<10	<550	<49	<49	<56	<
Benzo(ghi)perylene	<4.5	<82	<4.2	<470	<42	<42	<48	<
Benzo(k)fluoranthene	<3.8	<70	<3.6	<290	<26	<26	<29	<
bis(2-Chloroethoxy)methane	<5.8	<110	<5.4	<610	<55	<55	<62	<1
bis(2-Chloroethyl)ether	<6.3	<110	<5.8	<650	<59	<59	<67	<1
bis(2-Chloroisopropyl)ether	<6.3	<110	<5.8	<650	<59	<59	<67	<1
bis(2-Ethylhexyl)phthalate	<11	<200	<10	<1,100	188	<100	<120	<2
4-Bromophenyl phenyl ether	<2.1	<38	<1.9	<220	<20	<20	<22	<
Butyl benzyl phthalate	<11	<200	<10	<1,100	<100	<100	<120	<2
2-Chloronaphthalene	940	<38	<1.9	<220	<20	<20	<22	<
4-Chlorophenyl phenyl ether	<4.6	<84	<4.3	<480	<43	<43	<49	<
Chrysene	<2.7	<50	<2.6	<290	<26	<26	<29	<
Dibenzo(a,h)anthracene	<11	<200	<10	<1,100	<100	<100	<120	<
1,2-Dichlorobenzene	346	190	106	424	949	250	781	60
1,3-Dichlorobenzene	7.00	<38	2.29	<220	<20	<20	<22	<
1,4-Dichlorobenzene	585	321	148	797	1,580	441	1,350	99
3,3-Dichlorobenzidine	<18.7	<330	<17	<1,900	<175	<170	<190	<3
Diethylphthalate	<11	<200	<10	<1,100	<100	<100	<120	<2
Dimethylphthalate	<11	<200	<10	<1,100	<100	<100	<120	<2
Di-n-butylphthalate	<11	<200	<10	<1,100	<100	<100	<120	
2,4-Dinitrotoluene	<6.3	<110	<5.8	<650	<59	<59	<67	<1
2,6-Dinitrotoluene	<2.1	<38	<1.9	<220	<20	<20	<22	<3
Di-n-octylphthalate	<11	<200	<10	<1,100	<100	<100	<120	<2
1,2-Diphenylhydrazine	<11	<200	<10	<1,100	<100	<100	<120	<2
Fluoranthene	<2.4	<44	<2.2	<250	<23	<23	<26	<4
Fluorene	<2.1	<38	<1.9	<220	<20	<20	<22	<3
Hexachlorobenzene	<2.1	<38	<1.9	<220	<20	<20	<22	<3
Hexachlorobutadiene	<.99	<18	<.92	<100	<9.3	<9.3	<11	<1
Hexachlorocyclopentadiene	<11	<200	<10	<1,100	<100	<100	<120	<2
Hexachloroethane	<1.8	<32	<1.6	<180	<16	<16	<19	<3
Indeno(1,2,3-c,d)pyrene	<5.2	<94	<4.8	<540	<48	<48	<55	<7
Isophorone	<2.4	<44	<2.2	<250	<23	<23	<26	<4
Naphthalene	7.95	<32	<1.6	<180	<16	<16	<19	<3
Nitrobenzene	113	286	<1.9	6,770	516	473	1,760	1,0
N-Nitrosodimethylamine	<11	<200	<10	<1,100	<100	<100	<120	
N-Nitrosodi-n-propylamine	<11	<200	<10	<1,100	<100	<100	<120	
N-Nitrosodiphenylamine	<2.1	<38	<1.9	<220	<20	<20	<22	
Phenanthrene	<5.9	<110	<5.5	<620	<56	<56	<64	<110
Pyrene	<2.1	<38	<1.9	<220	<20	<20	<22	<38
1,2,4-Trichlorobenzene	33.4	<38	<1.9	<220	117	<20	46.6	39.2
Sub Total 1	2,032.4	797	256.3	7,991	3,350	1,164	3,938	2,678

See last page for footnotes.

Well Number:	P-7	P-7	P-7	P-7	P-7	P-7	P-7	P-
Sample Date:	12/86	5/87	11/87	5/88	11/88	3/89	11/89	11 9
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ET
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<10	<200	<10	<1,100	NA	<100	<120	<20
2-Nitroaniline	<10	<200	<10	<1,100	NA	<100	<120	<20
4-Nitroaniline	52	<200	11.3	<1,100	NA	<100	<120	<20
2-Nitrochlorobenzene	27,000	40,800	22,400	64,900	NA	62,600	357,000	196,00
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrochlorobenzene	8,590	11,900	5,230	29,100	NA	19,400	90,600	48,10
4-Nitrodiphenylamine	202	<200	160	<1,100	NA	<100	627	<20
Triphenylphosphate	<10	<200	<10	<1,100	NA	NA	<120	<20
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	NA	<1,100	NA	NA	<120	NA
4-Nitrobiphenyl	NA	NA	NA	<1,100	NA	NA	<120	NA
Benzyl alcohol	NA	NA	NA	NA	NA	<1,030	NA	NA
Aniline	NA	NA	NA	NA	NA	21,200	22,300	7,23
4-Chloroaniline	NA	NA	NA	NA	NA	51,200	NA	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA
3-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA
Sub Total 2	35,843.9	52,700.0	27,801.3	94,000.0	0.0	154,400.0	470,527.0	251,33
Total Base/Neutral Compounds	37,876.3	53,497.0	28,057.6	101,991.0	3,350.0	155,564.0	474,464.6	254,00

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois.

Well Number:	P-7	P-8	P-8	P-8	P-8	P-8	P-8	P-
Sample Date:	11/91	6/84	11/85	11/87	3/89	11/89	11/90	11 9
Laboratory:	ETC	EEI	ETC	ETC	ETC	ETC	ETC	ET
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<2.0	<1	<1.9	<190	<970	<1100	<19	<3
Acenapthylene	<3.6	<1	<3.5	<350	<1800	<2000	<36	<7
Anthracene	<2.0	<1	<1.9	<190	<970	<1100	<19	<3
Benzidine	<45	1	<44	<4400	<22000	<25000	<450	<89
Benzo(a)anthracene	<8.0	<1	<7.8	<790	<4000	<4400	<80	<16
Benzo(a)pyrene	<2.6	<1	<2.5	<250	<1300	<1400	<26	<5
Benzo(b)fluoroanthene	<4.9	<1	<4.8	<1000	<2400	<2700	<49	<9
Benzo(ghi)perylene	<4.2	<1	<4.1	<410	<2100	<2300	<42	<8
Benzo(k)fluoranthene	<2.6	<1	<3.5	<350	<1300	<1400	<26	<5
bis(2-Chloroethoxy)methane	<5.5	<1	<5.3	<530	<2700	<3000	<54	<11
bis(2-Chloroethyl)ether	<5.9	<1	<5.7	<570	<2900	<3200	<58	<12
bis(2-Chloroisopropyl)ether	<5.9	<1	<5.7	<580	<2900	<3200	<58	<12
bis(2-Ethylhexyl)phthalate	<10	19	12.7	<1000	<5100	<5700	<100	<20
4-Bromophenyl phenyl ether	<2.0	<1	<1.9	<190	<970	<1100	<19	<3
Butyl benzyl phthalate	<10	<1	<10	<1000	<5100	<5700	<100	<20
2-Chloronaphthalene	<2.0	<1	<1.9	<190	<970	<1100	<19	<3
4-Chlorophenyl phenyl ether	<4.3	<1	<4.2	<420	<2100	<2400	<43	<8
Chrysene	<2.6	<1	<2.5	<250	<1300	<1400	<26	<5
Dibenzo(a,h)anthracene	<2.6	<1	<10	<1000	<5100	<5700	<26	<5
1,2-Dichlorobenzene	396	1	45.4	<190	<970	<1100	153	17
1,3-Dichlorobenzene	8.68	<1	<1.9	<190	<970	<1100	<19	<3
1,4-Dichlorobenzene	572	12	121	<440	<2200	<2500	265	23
3,3-Dichlorobenzidine	<17.0	<1	<17	<1700	<8400	<9400	<168	<33
Diethylphthalate	<10	<1	<10	<1000	<5100	<5700	<100	<20
Dimethylphthalate	<10	<1	<10	<1000	<5100	<5700	<100	<20
Di-n-butylphthalate	<10	1	<10	<1000	<5100	<5700	<100	00
2,4-Dinitrotoluene	<5.9	<1	<5.7	<570	<2900	<3200	<58	12
2,6-Dinitrotoluene	<2.0	<1	<1.9	<190	<970	<1100	<19	<3
Di-n-octylphthalate	<10	<1	<10	<1000	<5100	<5700	<100	<20
1,2-Diphenylhydrazine	<10	<1	<10	<1000	<5100	<5700	<100	<20
Fluoranthene	<2.3	<1	<2.2	<220	<1100	<1200	<22	<4
Fluorene	<2.0	<1	<1.9	<190	<970	<1100	<19	<3
Hexachlorobenzene	<2.0	<1	<1.9	<190	<970	<1100	<19	<3
Hexachlorobutadiene	< 93	<1	<0.9	<90	<460	<510	<9.2	<1
Hexachlorocyclopentadiene	<10	<1	<10	<1000	<5100	<5700	<100	<20
Hexachloroethane	<1.6	<1	<1.6	<160	<820	<910	<16	<3
Indeno(1,2,3-c,d)pyrene	<3.8	<1	<4.7	<470	<2400	<2700	<38	<7
Isophorone	<2.3	<1	<2.2	<220	<1100	<1200	<22	<4
Naphthalene	7.73	<1	<1.6	<160	<820	<910	<16	<3
Nitrobenzene	169	<1	<1.9	<190	2,220	4,270	2,470	1,94
N-Nitrosodimethylamine	<10	<1	<10	<1000	<5100	<5700	<100	<20
N-Nitrosodi-n-propylamine	<10	<1	<10	<1000	<5100	<5700	<100	<
N-Nitrosodiphenylamine	<2.0	<1	<1.9	<190	<970	<1100	<19	
Phenanthrene	<5.6	<1	<5.4	<540	<2800	<3100	<55	<1
Pyrene	<2.0	<1	<1.9	<190	<970	<1100	<19	<3
1,2,4-Trichlorobenzene	37.7	<1	<1.9	<190	<970	<1100	<19	<3
Sub Total 1	1,191	34	179.1	0	2,220	4,270	2,888	2,34

See last page for footnotes.

Well Number:	P-7	P-8	P-8	P-8	P-8	P-8	P-8	P-
Sample Date:	11/91	6/84	11/85	11/87	3/89	11/89	11/90	9
Laboratory:	ETC	EEI	ETC	ETC	ETC	ETC	ETC	ET
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<10	NA	<10	<1000	<5100	<5700	<100	<20
2-Nitroaniline	<10	NA	<10	<1000	<5100	<5700	<100	<20
4-Nitroaniline	<10	NA	<10	<1000	<5100	<5700	<100	<20
2-Nitrochlorobenzene	29,700	NA	<10	55,100	57,100	463,000	180,000	171 00
3-Nitrochlorobenzene	114,000	NA	NA	NA	NA	NA	NA	461 00
4-Nitrochlorobenzene	4,900	NA	<10	32,400	14,200	185,000	88,500	21,50
4-Nitrodiphenylamine	<10	NA	<10	<1000	<5100	<5700	<100	<20
Triphenylphosphate	<10	NA	<10	<1000	<5100	<5700	<100	<20
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrobiphenyl	NA	NA	NA	NA	NA	<5700	NA	NA
4-Nitrobiphenyl	NA	NA	NA	NA	NA	<5700	NA	NA
Benzyl alcohol	NA	NA	NA	NA	<5100	NA	NA	NA
Aniline	3,100	NA	NA	NA	155,000	522,000	160,000	163,00
4-Chloroaniline	12,500	NA	NA	NA	49,100	NA	NA	105,00
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA
3-Chloroaniline	3,110	NA	NA	NA	NA	NA	NA	22,50
2-Chloroaniline	58,900	NA	NA	NA	NA	NA	NA	329,00
Sub Total 2	226,210	0.0	0.0	87,500.0	275,400.0	1,170,000.0	428,500	1,273,00
Total Base/Neutral Compounds	227,401	34.0	179.1	87,500.0	277,620.0	1,174,270.0	431,388	1,275,342

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois

Well Number:	P-10	P-10	P-11	P-11	P-11	P-12	P-12	P-1
Sample Date:	9/84**	11/87	9/84**	3/87	11/87	9/84**	11/87	6/8
Laboratory:	EEI	ETC	EEI	ETC	ETC	EEI	ETC	EE
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<4	<190	<4	<2.1	<2.0	<4	<1.9	<
Acenapthylene	<3	<350	<3	<3.8	<3.6	<3	<3.5	<
Anthracene	<4	<190	<4	<2.1	<2.0	<4	<1.9	<
Benzidine	<60	<4400	<60	<48	<45	<60	<44	<
Benzo(a)anthracene	<9	<790	<9	<8.6	<8.0	<9	<7.8	<
Benzo(a)pyrene	<12	<250	<12	<2.7	<2.6	<12	<2.5	<
Benzo(b)fluoroanthene	<11	<1000	<11	<11	<10	<11	<10	<
Benzo(ghi)perylene	<14	<410	<14	<4.5	<4.2	<14	<4.1	<
Benzo(k)fluoranthene	<11	<350	<11	<3.8	<3.6	<11	<3.5	<
bis(2-Chloroethoxy)methane	<4	<540	<4	<5.8	<5.5	<4	<5.3	<
bis(2-Chloroethyl)ether	<4	<580	<4	<6.3	<5.9	<4	<5.7	<
bis(2-Chloroisopropyl)ether	<3	<580	<3	<6.3	<5.9	<3	<5.7	<
bis(2-Ethylhexyl)phthalate	3	<1000	15	<11	<10	<10	<10	<
4-Bromophenyl phenyl ether	<16	<190	<16	<2.1	<2.0	<16	<1.9	<
Butyl benzyl phthalate	<13	<1000	<13	<11	<10	<13	<10	<
2-Chloronaphthalene	<4	<190	<4	<2.1	<2.0	<4	<1.9	<
4-Chlorophenyl phenyl ether	<9	<420	<9	<4.6	<4.3	<9	<4.2	<
Chrysene	<9	<250	<9	<2.7	<2.6	<9	<2.5	<
Dibenzo(a,h)anthracene	<16	<1000	<16	<11	<10	<16	<10	<
1,2-Dichlorobenzene	<5	<190	<5	5.4	6.00	61	1,790	<1
1,3-Dichlorobenzene	<6	<190	<6	<2.1	<2.0	<6	<1.9	<
1,4-Dichlorobenzene	<5	449	74	82.3	111	77	252	
3,3-Dichlorobenzidine	<161	<1700	<161	<18.7	<17	<161	<17	<1
Diethylphthalate	<4	<1000	<4	<11	<10	<4	<10	<1
Dimethylphthalate	<4	<1000	<4	<11	<10	<4	<10	<1
Di-n-butylphthalate	5	<1000	6	<11	<10	6	<10	<1
2,4-Dinitrotoluene	<14	<580	<14	<6.3	<5.9	<14	<5.7	<1
2,6-Dinitrotoluene	<16	<190	<16	<2.1	<2.0	<16	<1.9	<1
Di-n-octylphthalate	<6	<1000	<6	<11	<10	<6	<10	<1
1,2-Diphenylhydrazine	<10	<1000	<10	<11	<10	<10	<10	<1
Fluoranthene	<5	<220	<5	<2.4	<2.3	<5	<2.2	<1
Fluorene	<4	<190	<4	<2.1	<2.0	<4	<1.9	<1
Hexachlorobenzene	<15	<190	<15	<2.1	<2.0	<15	<1.9	<1
Hexachlorobutadiene	<13	<91	<13	<.99	<.93	<13	<0.90	<1
Hexachlorocyclopentadiene	<12	<1000	<12	<11	<10	<12	<10	<1
Hexachloroethane	<10	<160	<10	<1.8	<1.6	<10	<1.6	<1
Indeno(1,2,3-c,d)pyrene	<7	<470	<7	<5.2	<4.8	<7	<4.7	<1
Isophorone	<2	<220	<2	<2.4	<2.3	<2	<2.2	<1
Naphthalene	<2	<160	<2	<1.8	<1.6	<2	<1.6	<1
Nitrobenzene	<5	<190	<5	<2.1	<2.0	<5	<1.9	<1
N-Nitrosodimethylamine	<10	<1000	<10	<11	<10	<10	<10	<1
N-Nitrosodi-n-propylamine	<6	<1000	<6	<11	<10	<6	<10	<1
N-Nitrosodiphenylamine	<82	<190	11	<2.1	<2.0	<82	<1.9	<1
Phenanthrene	<4	<550	<4	<5.9	<5.6	<4	<5.4	<1
Pyrene	<5	<190	<5	<2.1	<2.0	<5	<1.9	<1
1,2,4-Trichlorobenzene	<7	<190	<7	<2.1	<2.0	<7	<1.9	<1
Sub Total 1	8	449	106	87.7	117	144	2,042	1

See last page for footnotes.

Well Number:	P-10	P-10	P-11	P-11	P-11	P-12	P-12	P
Sample Date:	9/84**	11/87	9/84**	3/87	11/87	9/84**	11/87	8
Laboratory:	EEI	ETC	EEI	ETC	ETC	EEI	ETC	E
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<10	<1000	<10	NA	<10	<10	<10	
2-Nitroaniline	<25-30	<1000	<25-30	<11	<10	<25-30	<10	
4-Nitroaniline	<25-30	<1000	<25-30	<11	<10	<25-30	<10	
2-Nitrochlorobenzene	<10	<1000	<10	NA	<10	<10	<10	
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	NA	
4-Nitrochlorobenzene	<10	<1000	<10	NA	<10	<10	<10	
4-Nitrodiphenylamine	<10	<1000	<10	NA	<10	<10	<10	
Triphenylphosphate	<10	<1000	<10	NA	<10	<10	<10	
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	
2-Nitrobiphenyl	<10	NA	<10	NA	NA	<10	NA	
4-Nitrobiphenyl	<10	NA	<10	<11	NA	<10	NA	
Benzyl alcohol	NA	NA	NA	<11	NA	NA	NA	
Aniline	NA	NA	NA	<11	NA	NA	NA	
4-Chloroaniline	NA	NA	NA	4,020	NA	NA	NA	
2-Methylnaphtalene	NA	NA	NA	<11	NA	NA	NA	
N-nitroaniline	NA	NA	NA	<11	NA	NA	NA	
Dibenzofuran	NA	NA	NA	<11	NA	NA	NA	
3-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	
2-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	
Sub Total 2	0.0	0.0	0.0	4,020.0	0.0	0.0	0.0	
Total Base/Neutral Compounds	8.0	449.0	106.0	4,107.7	117.0	144.0	2,042.0	

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois.

Well Number:	P-13	P-13	P-13	P-13	P-13	P-13	P-13	
Sample Date:	6/84*	6/84#	11/85	11/87	11/89	11/90	11/91	
Laboratory:	EEI	ETC	ETC	ETC	ETC	ETC	ETC	
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<1	<10	<1.9	<1.9	<200	<2.0	<390	
Acenapthylene	<1	<10	<3.5	<3.5	<370	<3.8	<710	
Anthracene	<1	<10	<1.9	<1.9	<200	<2.0	<390	
Benzidine	<1	<10	<44	<44	<4600	<47	<9000	
Benzo(a)anthracene	<1	<10	<7.8	<7.8	<820	<8.4	<1600	
Benzo(a)pyrene	<1	<10	<2.5	<2.5	<260	<2.7	<510	
Benzo(b)fluoranthene	<1	<10	<4.8	<10	<510	<5.2	<980	
Benzo(ghi)perylene	<1	<10	<4.1	<4.1	<430	<4.4	<840	
Benzo(k)fluoranthene	<1	<10	<3.5	<3.5	<260	<2.7	<510	
bis(2-Chloroethoxy)methane	<1	<10	<5.3	<5.3	<560	<5.7	<1100	
bis(2-Chloroethyl)ether	<1	<10	<5.7	<5.7	<600	<6.1	<1200	
bis(2-Chloroisopropyl)ether	<1	<10	<5.7	<5.7	<600	<6.1	<2000	
bis(2-Ethylhexyl)phthalate	779	<10	<10	<10	<1100	<11	<390	
4-Bromophenyl phenyl ether	<1	<10	<1.9	<1.9	<200	<2.0	<2000	
Butyl benzyl phthalate	<1	<10	<10	<10	<1100	<11	<390	
2-Chloronaphthalene	<1	<10	<1.9	<1.9	<200	<2.0	<860	
4-Chlorophenyl phenyl ether	<1	<10	<4.2	<4.2	<440	<4.5	<510	
Chrysene	<1	<10	<2.5	<2.5	<260	<2.7	<510	
Dibenzo(a,h)anthracene	<1	<10	<2.5	<10	<1100	<2.7	<390	
1,2-Dichlorobenzene	<1	<10	<1.9	<1.9	<200	6.51	<390	
1,3-Dichlorobenzene	<1	<10	<1.9	<1.9	<200	<2.0	<900	
1,4-Dichlorobenzene	4	<10	15.9	22.5	<460	104	<3370	
3,3-Dichlorobenzidine	<1	<10	<17	<17	<1700	<17.7	<2000	
Diethylphthalate	<1	<10	<10	<10	<1100	<11	<2000	
Dimethylphthalate	<1	<10	<10	<10	<1100	<11	<2000	
Di-n-butylphthalate	16	<10	<10	<10	<1100	<11	<120	
2,4-Dinitrotoluene	<1	<10	<5.7	<5.7	<600	<6.1	<39	
2,6-Dinitrotoluene	<1	<10	<1.9	<1.9	<200	<2.0	<2000	
Di-n-octylphthalate	<1	<10	<10	<10	<1100	<11	<2000	
1,2-Diphenylhydrazine	<1	<10	<10	<10	<1100	<11	<450	
Fluoranthene	<1	<10	<2.2	<2.2	<230	<2.4	<390	
Fluorene	<1	<10	<1.9	<1.9	<200	<2.0	<390	
Hexachlorobenzene	<1	<10	<1.9	<1.9	<200	<2.0	<180	
Hexachlorobutadiene	<1	<10	<0.9	<0.90	<95	<97	<2000	
Hexachlorocyclopentadiene	<1	<10	<10	<10	<1100	<11	<330	
Hexachloroethane	<1	<10	<1.6	<1.6	<170	<1.7	<760	
Indeno(1,2,3-c,d)pyrene	<1	<10	<4.7	<4.7	<490	<4.0	<450	
Isophorone	<1	<10	<2.2	<2.2	<230	<2.4	<330	
Naphthalene	<1	<10	<1.6	<1.6	<170	7.94	<390	
Nitrobenzene	<1	<10	<1.9	<1.9	<200	<2.0	<2000	
N-Nitrosodimethylamine	<1	<10	<10	<10	<1100	<11	<2000	
N-Nitrosodi-n-propylamine	<1	<10	<10	<10	<1100	<11	<390	
N-Nitrosodiphenylamine	<1	<10	4.9	9.00	<200	<2.0	<1100	
Phenanthrene	1	<10	<5.4	<5.4	<570	<5.8	<390	
Pyrene	<1	<10	<1.9	<1.9	<200	<2.0	<390	
1,2,4-Trichlorobenzene	<1	<10	<1.9	<1.9	<200	<2.0	<2000	
Sub Total 1	800	0	20.8	31.5	0	118	0	10

See last page for footnotes.

Well Number:	P-13	P-13	P-13	P-13	P-13	P-13	P-13	P
Sample Date:	6/84*	6/84#	11/85	11/87	11/89	11/90	11/91	5
Laboratory:	EEI	ETC	ETC	ETC	ETC	ETC	ETC	
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	NA	NA	<10	<10	<1100	<11	<2000	
2-Nitroaniline	NA	NA	<10	<10	<1100	<11	<2000	
4-Nitroaniline	NA	NA	<10	<10	<1100	<11	<2000	
2-Nitrochlorobenzene	NA	NA	<10	<10	<1100	<11	<2000	
3-Nitrochlorobenzene	NA	NA	NA	NA	NA	NA	<2000	
4-Nitrochlorobenzene	NA	NA	<10	<10	<1100	<11	<2000	
4-Nitrodiphenylamine	NA	NA	<10	<10	<1100	<11	<2000	
Triphenylphosphate	NA	NA	<10	<10	<1100	<11	<2000	
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	NA	
2-Nitrobiphenyl	NA	NA	NA	NA	<1100	NA	NA	
4-Nitrobiphenyl	NA	NA	NA	NA	<1100	NA	NA	
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	
Aniline	NA	NA	NA	NA	685000	71,600	288,000	
4-Chloroaniline	NA	NA	NA	NA	NA	NA	9,970	
2-Methylnaphtalene	NA	NA	NA	NA	NA	NA	NA	
N-nitroaniline	NA	NA	NA	NA	NA	NA	NA	
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	
3-Chloroaniline	NA	NA	NA	NA	NA	NA	13,500	
2-Chloroaniline	NA	NA	NA	NA	NA	NA	12,400	
Sub Total 2	0.0	0.0	0.0	0.0	685,000.0	71,600	323,870	0
Total Base/Neutral Compounds	800.0	0.0	20.8	31.5	685,000.0	71,718	323,870	10

See last page for footnotes.

Table A-3. Base/Neutral Compounds in Ground Water, Sauget Site R, Monsanto Company, Sauget Illinois

Well Number:	P-14	P-14	P-14	P-14	P-14	Field Blank	Field Blank	F
Sample Date:	11/85	11/87	11/89	11/90	11/91	3/87	11/90	[illegible]
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ET
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
Acenaphthene	<2.0	<1.9	<2.0	<2.0	<1.9	<2.0	<1.9	<1
Acenapthylene	<3.6	<3.5	<3.6	<3.8	<3.6	<3.7	<3.5	<3
Anthracene	<2.0	<1.9	<2.0	<2.0	<1.9	<2.0	<1.9	<1
Benzidine	<45	<44	<45	<47	<45	<47	<44	<4
Benzo(a)anthracene	<8.0	<7.8	<8.0	<8.4	<8.0	<8.3	<7.8	<8
Benzo(a)pyrene	<2.6	<2.5	<2.6	<2.7	<2.6	<2.7	<2.5	<2
Benzo(b)fluoroanthene	<4.9	<10	<4.9	<5.2	<4.9	<11	<4.8	<4
Benzo(ghi)perylene	<4.2	<4.1	<4.2	<4.4	<4.2	<4.4	<4.1	<4
Benzo(k)fluoranthene	<3.6	<3.5	<2.6	<2.7	<2.6	<3.7	<2.5	<2
bis(2-Chloroethoxy)methane	<5.5	<5.3	<5.5	<5.7	<5.4	<5.6	<5.3	<5
bis(2-Chloroethyl)ether	<5.9	<5.7	<5.9	<6.1	<5.8	<6.1	<5.7	<5
bis(2-Chloroisopropyl)ether	<5.9	<5.7	<5.9	<6.1	<5.8	<6.1	<5.7	<5
bis(2-Ethylhexyl)phthalate	<10	<10	<10	<11	<10	<11	<10	<1
4-Bromophenyl phenyl ether	<2	<1.9	<2.0	<2.0	<1.9	<2.0	<1.9	<1
Butyl benzyl phthalate	<10	<10	<10	<11	<10	<11	<10	<1
2-Chloronaphthalene	<2	<1.9	<2.0	<2.0	<1.9	<2.0	<1.9	<1
4-Chlorophenyl phenyl ether	<4.3	<4.2	<4.3	<4.5	<4.3	<4.5	<4.2	<4
Chrysene	<2.6	<2.5	<2.6	<2.7	<2.6	<2.7	<2.5	<2
Dibenzo(a,h)anthracene	<10	<10	<10	<2.7	<2.6	<11	<2.5	<2
1,2-Dichlorobenzene	18.7	22.0	20.7	29.4	18.2	<2.0	<1.9	<1
1,3-Dichlorobenzene	<2	<1.9	<2.0	<2.0	<1.9	<2.0	<1.9	<1
1,4-Dichlorobenzene	34	35.7	35.5	47.3	28.7	<4.7	<4.4	<4
3,3-Dichlorobenzidine	<17	<17	<17	<17.7	<16.8	<18	<16.5	<16
Diethylphthalate	<10	<10	<10	<11	<10	<11	<10	<1
Dimethylphthalate	<10	<10	<10	<11	<10	<11	<10	<1
Di-n-butylphthalate	<10	<10	<10	<11	<10	<11	<10	<1
2,4-Dinitrotoluene	<5.9	<5.7	<5.9	<6.1	<5.8	<6.1	<5.7	<5
2,6-Dinitrotoluene	<2.0	<1.9	<2.0	<2.0	<1.9	<2.0	<1.9	<1
Di-n-octylphthalate	<10	<10	<10	<11	<10	<11	<10	<1
1,2-Diphenylhydrazine	<10	<10	<10	<11	<10	<11	<10	<1
Fluoranthene	<2.3	<2.2	<2.3	<2.4	<2.2	<2.3	<2.2	<2
Fluorene	<2.0	<1.9	<2.0	<2.0	<1.9	<2.0	<1.9	<1
Hexachlorobenzene	<2.0	<1.9	<2.0	<2.0	<1.9	<2.0	<1.9	<1
Hexachlorobutadiene	<0.9	<0.90	<.93	<97	<.92	<.96	<90	<.92
Hexachlorocyclopentadiene	<10	<10	<10	<11	<10	<11	<10	<1
Hexachloroethane	<1.6	<1.6	<1.6	<1.7	<1.6	<1.7	<1.6	<1
Indeno(1,2,3-c,d)pyrene	<4.8	<4.7	<4.8	<4.0	<3.8	<5.0	<3.7	<3
Isophorone	<2.3	<2.2	<2.3	<2.4	<2.2	<2.3	<2.2	<2
Naphthalene	2.9	<1.6	<1.6	<1.7	<1.6	<1.7	<1.6	<1
Nitrobenzene	<2.0	<1.9	<2.0	<2.0	<1.9	<2.0	<1.9	<1
N-Nitrosodimethylamine	<10	<10	<10	<11	<10	<11	<10	<1
N-Nitrosodi-n-propylamine	<10	<10	<10	<11	<10	<11	<10	<1
N-Nitrosodiphenylamine	<2.0	<1.9	<2.0	<2.0	<1.9	<2.0	<1.9	<1
Phenanthrene	<5.6	<5.4	<5.6	<5.8	<5.5	<5.7	<5.4	<5
Pyrene	<2.0	<1.9	<2.0	<2.0	<1.9	<2.0	<1.9	<1
1,2,4-Trichlorobenzene	<2.0	<1.9	<2.0	<2.0	<1.9	<2.0	<1.9	<1
Sub Total 1	55.6	57.7	56	77	47	0	0	0

See last page for footnotes.

Well Number:	P-14	P-14	P-14	P-14	P-14	Field Blank	Field Blank	Fie Blan
Sample Date:	11/85	11/87	11/89	11/90	11/91	3/87	11/90	11 9
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ET
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)								
2,4-and 3,4-Dinitrochlorobenzene	<10	<10	<10	<11	<10	NA	<10	NA
2-Nitroaniline	<10	<10	<10	<11	<10	<11	<10	NA
4-Nitroaniline	<10	<10	<10	<11	<10	<11	<10	NA
2-Nitrochlorobenzene	<10	<10	<10	<11	<10	NA	<10	NA
3-Nitrochlorobenzene	NA	NA	NA	NA	<10	NA	NA	NA
4-Nitrochlorobenzene	<10	<10	<10	<11	<10	NA	<10	NA
4-Nitrodiphenylamine	<10	<10	<10	<11	<10	NA	<10	NA
Triphenylphosphate	<10	<10	<10	<11	<10	NA	<10	NA
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NA	NA	NA	NA	NA	NA	<10	NA
2-Nitrobiphenyl	NA	NA	<10	NA	NA	NA	NA	NA
4-Nitrobiphenyl	NA	NA	<10	NA	NA	<11	<10	NA
Benzyl alcohol	NA	NA	NA	NA	NA	<11	<10	NA
Aniline	NA	NA	11.2	<11	<10	<11	NA	NA
4-Chloroaniline	NA	NA	NA	NA	<10	<11	<10	NA
2-Methylnaphtalene	NA	NA	NA	NA	NA	<11	NA	NA
N-nitroaniline	NA	NA	NA	NA	NA	<11	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	<11	NA	NA
3-Chloroaniline	NA	NA	NA	NA	<10	NA	NA	NA
2-Chloroaniline	NA	NA	NA	NA	103	NA	NA	NA
Sub Total 2	0.0	0.0	11.2	0	103	0.0	0	0
Total Base/Neutral Compounds	55.6	57.7	67.4	77	150	0.0	0	0

See last page for footnotes.

	Well Number:	Trip Blank
	Sample Date:	3/87
	Laboratory:	ETC
Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)		
Acenaphthene		<2.1
Acenapthylene		<3.9
Anthracene		<2.1
Benzidine		<49
Benzo(a)anthracene		<8.7
Benzo(a)pyrene		<2.8
Benzo(b)fluoroanthene		<11
Benzo(ghi)perylene		<4.6
Benzo(k)fluoranthene		<3.9
bis(2-Chloroethoxy)methane		<5.9
bis(2-Chloroethyl)ether		<6.3
bis(2-Chloroisopropyl)ether		<6.3
bis(2-Ethylhexyl)phthalate		<11
4-Bromophenyl phenyl ether		<2.1
Butyl benzyl phthalate		<11
2-Chloronaphthalene		<2.1
4-Chlorophenyl phenyl ether		<4.7
Chrysene		<2.8
Dibenzo(a,h)anthracene		<11
1,2-Dichlorobenzene		<2.1
1,3-Dichlorobenzene		<2.1
1,4-Dichlorobenzene		<4.9
3,3-Dichlorobenzidine		<18
Diethylphthalate		<11
Dimethylphthalate		<11
Di-n-butylphthalate		<11
2,4-Dinitrotoluene		<6.3
2,6-Dinitrotoluene		<2.1
Di-n-octylphthalate		<11
1,2-Diphenylhydrazine		<11
Fluoranthene		<2.4
Fluorene		<2.1
Hexachlorobenzene		<2.1
Hexachlorobutadiene		<1.0
Hexachlorocyclopentadiene		<11
Hexachloroethane		<1.8
Indeno(1,2,3-c,d)pyrene		<5.2
Isophorone		<2.4
Naphthalene		<1.8
Nitrobenzene		<2.1
N-Nitrosodimethylamine		<11
N-Nitrosodi-n-propylamine		<11
N-Nitrosodiphenylamine		<2.1
Phenanthrene		<6.0
Pyrene		<2.1
1,2,4-Trichlorobenzene		<2.1
Sub Total 1		0

See last page for footnotes.

	Well Number:	Trip Blank
	Sample Date:	3/87
	Laboratory:	ETC
Miscellaneous Base/Neutral Extractable Organic Compounds (concentrations are in ug/L)		
2,4-and 3,4-Dinitrochlorobenzene		NA
2-Nitroaniline		<11
4-Nitroaniline		<11
2-Nitrochlorobenzene		NA
3-Nitrochlorobenzene		NA
4-Nitrochlorobenzene		NA
4-Nitrodiphenylamine		NA
Triphenylphosphate		NA
2,3,7,8-Tetrachlorodibenzo-p-dioxin		NA
2-Nitrobiphenyl		NA
4-Nitrobiphenyl		<11
Benzyl alcohol		<11
Aniline		<11
4-Chloroaniline		<11
2-Methylnaphtalene		<11
N-nitroaniline		<11
Dibenzofuran		<11
3-Chloroaniline		NA
2-Chloroaniline		NA
	Sub Total 2	0.0
	Total Base/Neutral Compounds	0.0

NA Not analyzed.
* Replicate sample.
EEI Envirodyne Engineers Inc., St. Louis, Missouri
ETC Environmental Testing and Certification, Edison, New Jersey.
SL Savannah Laboratories and Environmental Testing, Savannah, Georgia.
SLES Savannah Laboratories and Environmental Services, Inc. Savannah, Georgia (formerly Savannah Laboratories and Environmental Testing, Savannah, Georgia).
\+ Tentatively identified with an estimated concentration.
J Estimated value.
D Concentration determined at a secondary dilution factor.
E Compound concentration exceeded the calibration range of the instrument.

Table A-4. Pesticide/PCB Compounds in Ground Water, Sauget Site R, Sauget, Illinois.

Well Designation:	GM-27B	GM-27B	GM-27B	GM-27C	GM-27C	GM-27C	GM-28B	GM-28B	GM-28B	G[illegible]
Sample Date:	9/84	2/86	11/87	9/84	2/86	11/87	9/84	2/86	11/87	3/89
Laboratory:	EEI	ETC	ETC	EEI	ETC	ETC	EEI	ETC	ETC	ETC
Pesticide/PCB Compounds (concentrations are in ug/L)										
Aldrin	0.016	<2	<2.2	0.034	<1.9	<2.2	<0.004	<1.9	<190	<20
alpha-BHC	<0.002	<10	<11	<0.002	<10	<11	17.5	<10	<1000	<100
beta-BHC	<0.005	<4.5	<5.0	<0.005	<4.5	<5.0	6.0	<4.5	<440	<43
gamma-BHC	<0.003	<10	<11	19.3	<10	<11	42	<10	<100	<100
delta-BHC	<0.004	<3.2	<3.5	0.014	<3.2	<3.5	<0.004	<3.2	<310	<32
Chlordane	<0.061	<10	<11	<0.061	<10	<11	<0.061	<10	<1000	<100
4,4'-DDT	<0.096	<2.9	<3.2	<0.096	<2.9	<3.2	<0.096	<2.9	<280	<29
4,4'-DDE	<0.007	<5.8	<6.4	<0.007	<5.7	<6.4	<0.007	<5.7	<570	<58
4,4'-DDD	<0.007	<4.8	<5.3	<0.007	<4.8	<5.3	<0.007	<4.8	<470	<48
Dieldrin	<0.007	<2.6	<2.8	<0.07	<2.6	<2.8	<0.007	<2.6	<250	<26
Endosulfan I	<0.006	<10	<11	<0.06	<10	<11	<0.006	<10	<1000	<100
Endosulfan II	<1.1	<10	<11	<0.11	<10	<11	<1.1	<10	<1000	<100
Endosulfan sulfate	<4.2	<5.8	<6.4	0.316	<5.7	<6.4	<4.2	<5.7	<570	<58
Endrin	35.8	<10	<11	15.2	<10	<11	283	<10	<1000	<100
Endrin aldehyde	<0.22	<10	<11	<0.22	<10	<11	0.014	<10	<1000	<100
Heptachlor	0.01	<2	<2.2	0.082	<1.9	<2.2	2.09	<1.9	<190	<20
Heptachlor epoxide	<0.005	<2.3	<2.5	<0.005	<2.2	<2.5	<0.005	<2.3	<220	<23
PCB-1016	<0.034	<37	<41	<0.034	<37	<41	<0.034	<37	<3600	<370
PCB-1221	<0.133	<31	<41	<0.133	<31	<41	<0.133	<31	<3600	<370
PCB-1232	<0.062	<37	<41	<0.062	<37	<41	<0.062	<37	<3600	<370
PCB-1242	<0.082	<37	<41	<0.082	<37	<41	<0.082	<37	<3600	<370
PCB-1248	<0.086	<37	<41	<0.086	<37	<41	<0.086	<37	<3600	<370
PCB-1254	<0.123	<37	<41	<0.123	<37	<41	<0.123	<37	<3600	
PCB-1260	0.94	<37	<41	<0.174	<37	<41	<0.174	<37	<3600	[illegible]
Toxaphene	<0.694	<10	<11	<0.694	<10	<11	<0.694	<10	<1000	<100
Methoxychlor										
Endrin keytone										
Total Pesticide/PCB Compounds	36.766	0	0	34.946	0	0	350.604	0	0	0

See last page for footnotes.

Well Designation:	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-55C	GM-55C	GM-56C	GM-56C	GM-57C
Sample Date:	9/84	2/86	11/87	3/89	3/89 *	11/87	5/88	11/87	5/88	11/87
Laboratory:	EEI	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Pesticide/PCB Compounds (concentrations are in ug/L)										
Aldrin	<0.04	<1.9	<1.9	<1900	<190	<2.0	<45	<190	<120	<210
alpha-BHC	<0.002	<10	<10	<10000	<1000	<10	<240	<1000	<610	<1100
beta-BHC	<0.005	<4.4	<4.4	<4300	<420	<4.6	<99	<450	<260	<480
gamma-BHC	0.04	<10	<10	<10000	<1000	<10	<240	<1000	<610	<1100
delta-BHC	<0.04	<3.1	<3.1	<3200	<310	<3.2	<73	<320	<190	<340
Chlordane	<0.61	<10	<10	<10000	<1000	<10	<240	<1000	<610	<1100
4,4'-DDT	<0.96	<2.8	<2.8	<2900	<280	<2.9	<66	<290	<170	<310
4,4'-DDE	<0.07	<5.7	<5.6	<5700	<560	<5.8	<130	<570	<340	<620
4,4'-DDD	<0.07	<4.7	<4.7	<4800	<470	<4.9	<110	<480	<290	<520
Dieldrin	<0.7	<2.5	<2.5	<2600	<250	<2.6	<59	<260	<150	<270
Endosulfan I	<0.6	<10	<10	<10000	<1000	<10	<240	<1000	<610	<1100
Endosulfan II	<1.1	<10	<10	<10000	<1000	<10	<240	<1000	<610	<1100
Endosulfan sulfate	<4.2	<5.7	<5.6	<5700	<560	<5.8	<130	<570	<340	<620
Endrin	<2.0	<10	<10	<10000	<1000	<10	<240	<1000	<610	<1100
Endrin aldehyde	0.014	<10	<10	<10000	<1000	<10	<240	<1000	<610	<1100
Heptachlor	0.47	<1.9	<1.9	<1900	<190	<2.0	<45	<190	<120	<210
Heptachlor epoxide	<0.05	<2.2	<2.2	<2200	<220	<2.3	<52	<220	<130	<240
PCB-1016	<0.34	<36	<36	<37000	<3600	<38	<850	<3700	<2200	<4000
PCB-1221	<1.33	<30	<36	<37000	<3600	<38	<850	<3700	<2200	<4000
PCB-1232	<0.62	<36	<36	<37000	<3600	<38	<850	<3700	<2200	<4000
PCB-1242	<0.82	<36	<36	<37000	<3600	<38	<850	<3700	<2200	<4000
PCB-1248	<0.86	<36	<36	<37000	<3600	<38	<850	<3700	<2200	<4000
PCB-1254	<1.23	<36	<36	<37000	<3600	<38	<850	<3700	<2200	<4000
PCB-1260	<1.74	<36	<36	<37000	<3600	<38	<850	<3700	<2200	<4000
Toxaphene	<6.94	<10	<10	<10000	<1000	<10	<240	<1000	<610	<1100
Methoxychlor										
Endrin keytone										
Total Pesticide/PCB Compounds	0.524	0	0	0	0	0	0	0	0	0

See last page for footnotes.

Well Designation:	GM-57C	GM-57C	GM-57C	GM-57C	GM-62A	GM-62A	GM-62B	GM-62B	GM-62B	GM-62B
Sample Date:	11/87*	5/88	5/88*	3/89	8/88	11/88	8/88	8/88 *	11/88	11/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	SL
Pesticide/PCB Compounds (concentrations are in ug/L)										
Aldrin	<220	<96	<98	<20	<2.0	<2.2	<2.2	<2.0	<1.9	<10
alpha-BHC	<1100	<510	<520	<110	<11	<11	<11	<11	<10	<10
beta-BHC	<510	<210	<220	<44	<4.5	<4.8	<4.8	<4.5	<4.3	<40
gamma-BHC	<1100	<510	<520	<110	<11	<11	<11	<11	<10	<10
delta-BHC	<360	<160	<160	<33	<3.3	<3.5	<3.5	<3.3	<3.2	<30
Chlordane	<1100	<510	<520	<110	<11	<11	<11	<11	<10	<20
4,4'-DDT	<320	<140	<140	<29	<3.0	<3.2	<3.2	<3.0	<2.9	<10
4,4'-DDE	<640	<280	<290	<59	<6.0	<6.4	<6.4	<6.0	<5.7	<10
4,4'-DDD	<540	<240	<240	<49	<5.1	<5.3	<5.3	<5.1	<4.8	<10
Dieldrin	<290	<130	<130	<26	<2.7	<2.8	<2.8	<2.7	<2.6	<10
Endosulfan I	<1100	<510	<520	<110	<11	<11	<11	<11	<10	<10
Endosulfan II	<1100	<510	<520	<110	<11	<11	<11	<11	<10	<10
Endosulfan sulfate	<640	<280	<290	<59	<6.0	<6.4	<6.4	<6.0	<5.7	<10
Endrin	<1100	<510	<520	<110	<11	<11	<11	<11	<10	<10
Endrin aldehyde	<1100	<510	<520	<110	<11	<11	<11	<11	<10	<10
Heptachlor	<220	<96	<98	<20	<2.0	<2.2	<2.2	<2.0	<1.9	<10
Heptachlor epoxide	<250	<110	<110	<23	<2.4	<2.5	<2.5	<2.4	<2.2	<10
PCB-1016	<4100	<1800	<1900	<380	<38	<41	<41	<38	<37	<50
PCB-1221	<4100	<1800	<1900	<380	<38	<41	<41	<38	<37	<50
PCB-1232	<4100	<1800	<1900	<380	<38	<41	<41	<38	<37	<50
PCB-1242	<4100	<1800	<1900	<380	<38	<41	<41	<38	<37	<50
PCB-1248	<4100	<1800	<1900	<380	<38	<41	<41	<38	<37	<50
PCB-1254	<4100	<1800	<1900	<380	<38	<41	<41	<38	<37	
PCB-1260	<4100	<1800	<1900	<380	<38	<41	<41	<38	<37	<50
Toxaphene	<1100	<510	<520	<110	<11	<11	<11	<11	<10	<100
Methoxychlor										
Endrin keytone										
Total Pesticide/PCB Compounds	0	0	0	0	0	0	0	0	0	0

See last page for footnotes.

Well Designation:	GM-62C	GM-106	GM-106	GM-106	B-24A	B-25A	B-25A	B-25B	B-26A	B-27B
Sample Date:	11/88	11/85	2/86	2/86*	2/86	6/84	3/87	6/84	3/87	9/84
Laboratory:	ETC	ETC	ETC	ETC	ETC	EEI	ETC	EEI	ETC	EEI
Pesticide/PCB Compounds (concentrations are in ug/L)										
Aldrin	<2.1	<1.9	<2	<1.9	<2	<10	<210	<10	<2.1	<4
alpha-BHC	<11	<10	<10	<10	<10	<10	<1,100	<10	<11	<11
beta-BHC	<4.6	<4.5	<4.5	<4.5	<4.5	<10	<490	<10	<4.9	<5
gamma-BHC	<11	<10	<10	<10	<10	<10	<1,100	<10	<11	<3
delta-BHC	<3.4	<3.2	<3.2	<3.2	<3.2	<10	<350	<10	<3.4	<4
Chlordane	<11	<10	<10	<10	<10	<100	<1,100	<100	<11	<61
4,4'-DDT	<3.1	<2.9	<2.9	<2.9	<2.9	<10	<310	<10	<3.1	<96
4,4'-DDE	<6.2	<5.7	<5.8	<5.7	<5.8	<10	<630	<10	<6.2	<7
4,4'-DDD	<5.2	<4.8	<4.8	<4.8	<4.8	<10	<530	<10	<5.2	<7
Dieldrin	<2.7	<2.6	<2.6	<2.6	<2.6	<10	<280	<10	<2.8	<7
Endosulfan I	<11	<10	<10	<10	<10	<10	<1,100	<10	<11	<6
Endosulfan II	<11	<10	<10	<10	<10	<10	<1,100	<10	<11	<5.5
Endosulfan sulfate	<6.2	<5.7	<5.8	<5.7	<5.8	<10	<630	<10	<6.2	<21
Endrin	<11	<10	<10	<10	<10	<10	<1,100	<10	<11	<20
Endrin aldehyde	<11	<10	<10	<10	<10	<10	<1,100	<10	<11	<22
Heptachlor	<2.1	<1.9	<2	<1.9	<2	<10	<210	<10	<2.1	<4
Heptachlor epoxide	<2.4	<2.2	<2.3	<2.2	<2.3	<10	<250	<10	<2.4	<5
PCB-1016	<40	<37	<37	<37	<37	<50	<4,000	<50	<40	<34
PCB-1221	<40	<31	<31	<31	<31	<50	<4,000	<50	<40	<133
PCB-1232	<40	<37	<37	<37	<37	<50	<4,000	<50	<40	<62
PCB-1242	<40	<37	<37	<37	<37	<50	<4,000	<50	<40	<82
PCB-1248	<40	<37	<37	<37	<37	<50	<4,000	<50	<40	<86
PCB-1254	<40	<37	<37	<37	<37	<50	<4,000	<50	<40	<123
PCB-1260	<40	<37	<37	<37	<37	<50	<4,000	<50	<40	<174
Toxaphene	<11	<10	<10	<10	<10	<250	<1,100	<250	<11	<694
Methoxychlor										
Endrin keytone										
Total Pesticide/PCB Compounds	0	0	0	0	0	0	0	0	0	0

See last page for footnotes.

Table A-4. Pesticide/PCB Compounds in Ground Water, Sauget Site R, Sauget, Illinois.

Well Designation:	B-28A	B-28A	B-29A	B-29B	B-29B	B-29B	B-29B	B-101	P-1	[illegible]
Sample Date:	2/86	3/87	6/84	6/84	6/84*	6/84#	11/84	9/84	9/84	87
Laboratory:	ETC	ETC	EEI	EEI	EEI	ETC	ETC	EEI	EEI	ETC
Pesticide/PCB Compounds (concentrations are in ug/L)										
Aldrin	<2	<2.0	<10	<10	<10	<100	<50	NA	<0.08	<2.1
alpha-BHC	<11	<11	<10	<10	<10	<100	<50	NA	<0.04	<11
beta-BHC	<4.7	<4.7	<10	<10	<10	<100	<50	NA	<0.1	<4.9
gamma-BHC	<11	<11	<10	<10	<10	<100	<50	NA	<0.06	<11
delta-BHC	<3.3	<3.3	<10	<10	<10	<100	<50	NA	<0.08	<3.4
Chlordane	<11	<11	<100	<100	<100	<100	<50	NA	<1.22	<11
4,4'-DDT	<3	<3.0	<10	<10	<10	<100	<50	NA	<1.92	<3.1
4,4'-DDE	<6	<6.0	<10	<10	<10	<100	<50	NA	<0.14	<6.2
4,4'-DDD	<5	<5.1	<10	<10	<10	<100	<50	NA	<0.14	<5.2
Dieldrin	<2.7	<2.7	<10	<10	<10	<100	<50	<70	<0.007	<2.8
Endosulfan I	<11	<11	<10	<10	<10	<100	<50	<60	<0.006	<11
Endosulfan II	<11	<11	<10	<10	<10	<100	<50	<1.1	<0.011	<11
Endosulfan sulfate	<6	<6.0	<10	<10	<10	<100	<50	<4.2	<0.042	<6.2
Endrin	<11	<11	<10	<10	<10	<100	<50	<200	<0.02	<11
Endrin aldehyde	<11	<11	<10	<10	<10	<100	<50	<220	<0.022	<11
Heptachlor	<2	<2.0	<10	<10	<10	<100	<50	NA	<0.08	<2.1
Heptachlor epoxide	<2.3	<2.4	<10	<10	<10	<100	<50	NA	<0.1	<2.4
PCB-1016	<38	<39	<50	<50	<50	<100	<50	NA	<0.68	<40
PCB-1221	<32	<39	<50	<50	<50	<100	<50	NA	<2.66	<40
PCB-1232	<38	<39	<50	<50	<50	<100	<50	NA	<1.24	<40
PCB-1242	<38	<39	<50	<50	<50	<100	<50	NA	<1.64	<40
PCB-1248	<38	<39	<50	<50	<50	<100	<50	NA	<1.72	<40
PCB-1254	<38	<39	<50	<50	<50	<100	<50	NA	<2.46	[illegible]
PCB-1260	<38	<39	<50	<50	<50	<100	<50	NA	<3.48	<40
Toxaphene	<11	<11	<250	<250	<250	<100	<50	NA	<13.88	<11
Methoxychlor										
Endrin keytone										
Total Pesticide/PCB Compounds	0	0	0	0	0	0	0	0	0	0

See last page for footnotes.

Well Designation:	P-1	P-2	P-2	P-3	P-6	P-6	P-7	P-7	P-7	P-7
Sample Date:	11/87	6/84	11/87	11/87	6/84	11/87	6/84	3/87	11/87	3/89
Laboratory:	ETC	EEI	ETC	ETC	EEI	ETC	EEI	ETC	ETC	ETC
Pesticide/PCB Compounds (concentrations are in ug/L)										
Aldrin	<1.9	<10	<2.0	<1.9	<10	<1.9	<10	<2.1	<1.9	<20
alpha-BHC	<10	<10	<10	<10	<10	<10	<10	<11	<10	<100
beta-BHC	<4.4	<10	<4.5	<4.4	<10	<4.4	<10	<4.8	<4.5	<43
gamma-BHC	<10	<10	<10	<10	<10	<10	<10	<11	<10	<100
delta-BHC	<3.1	<10	<3.2	<3.1	<10	<3.1	<10	<3.4	<3.2	<32
Chlordane	<10	<100	<10	<10	<100	<10	<100	<11	<10	<100
4,4'-DDT	<2.8	<10	<2.9	<2.8	<10	<2.8	<10	<3.1	<2.9	<29
4,4'-DDE	<5.6	<10	<5.8	<5.6	<10	<5.6	<10	<6.2	<5.7	<58
4,4'-DDD	<4.7	<10	<4.8	<4.7	<10	<4.7	<10	<5.2	<4.8	<48
Dieldrin	<2.5	<10	<2.6	<2.5	<10	<2.5	<10	<2.7	<2.6	<26
Endosulfan I	<10	<10	<10	<10	<10	<10	<10	<11	<10	<100
Endosulfan II	<10	<10	<	<10	<10	<10	<10	<11	<10	<100
Endosulfan sulfate	<5.6	<10	<5.8	<5.6	<10	<5.6	<10	<6.2	<5.7	<58
Endrin	<10	<10	<10	<10	<10	<10	<10	<11	<10	<100
Endrin aldehyde	<10	<10	<10	<10	<10	<10	<10	<11	<10	<100
Heptachlor	<1.9	<10	<2.0	<1.9	<10	<1.9	<10	<2.1	<1.9	<20
Heptachlor epoxide	<2.2	<10	<2.3	<2.2	<10	<2.2	<10	<2.4	<2.2	<23
PCB-1016	<36	<50	<37	<36	<50	<36	<50	<40	<37	<370
PCB-1221	<36	<50	<37	<36	<50	<36	<50	<40	<37	<370
PCB-1232	<36	<50	<37	<36	<50	<36	<50	<40	<37	<370
PCB-1242	<36	<50	<37	<36	<50	<36	<50	<40	<37	<370
PCB-1248	<36	<50	<37	<36	<50	<36	<50	<40	<37	<370
PCB-1254	<36	<50	<37	<36	<50	<36	<50	<40	<37	<370
PCB-1260	<36	<50	<37	<36	<50	<36	<50	<40	<37	<370
Toxaphene	<10	<250	<10	<10	<250	<10	<250	<11	<10	<100
Methoxychlor										
Endrin keytone										
Total Pesticide/PCB Compounds	0	0	0	0	0	0	0	0	0	0

See last page for footnotes.

Well Designation:	P-8	P-8	P-8	P-10	P-10	P-11	P-11	P-11	P-12	[illegible]
Sample Date:	6/84	11/87	3/89	9/84	11/87	9/84	3/87	11/87	9/84	11/87
Laboratory:	EEI	ETC	ETC	EEI	ETC	EEI	ETC	ETC	EEI	ETC
Pesticide/PCB Compounds (concentrations are in ug/L)										
Aldrin	<10	<190	<970	<0.04	<190	0.139	<2.1	<2.0	<0.004	<1.9
alpha-BHC	<10	<1000	<5100	0.562	<1000	0.012	<11	<10	<0.002	<10
beta-BHC	<10	<440	<2100	<0.05	<440	<0.005	<4.8	<4.5	<0.005	<4.4
gamma-BHC	<10	<1000	<5100	<0.03	<1000	0.021	<11	<10	<0.003	<10
delta-BHC	<10	<310	<1600	<0.04	<310	0.068	<3.4	<3.2	<0.004	<3.1
Chlordane	<100	<1000	<5100	<0.61	<1000	0.469	<11	<10	<0.061	<10
4,4'-DDT	<10	<280	<1400	<0.96	<280	<0.096	<3.1	<2.9	<0.096	<2.8
4,4'-DDE	<10	<560	<2900	<0.07	<560	<0.07	<6.2	<5.8	<0.007	<5.6
4,4'-DDD	<10	<470	<2400	<0.07	<470	0.148	<5.2	<4.8	<0.007	<4.7
Dieldrin	<10	<250	<1300	<0.07	<250	0.018	<2.7	<2.6	<0.07	<2.5
Endosulfan I	<10	<1000	<5100	<0.06	<1000	<0.006	<11	<10	<0.06	<10
Endosulfan II	<10	<1000	<5100	<0.11	<1000	<0.011	<11	<10	<0.1	<10
Endosulfan sulfate	<10	<560	<2900	<0.42	<570	<0.042	<6.2	<5.8	<0.15	<5.6
Endrin	<10	<1000	<5100	<0.2	<1000	0.135	<11	<10	33.43	<10
Endrin aldehyde	<10	<1000	<5100	<0.22	<1000	<0.022	<11	<10	<0.22	<10
Heptachlor	<10	<190	<970	<0.04	<190	0.301	<2.1	<2.0	0.110	<1.9
Heptachlor epoxide	<10	<220	<1100	<0.05	<220	<0.005	<2.4	<2.3	<0.005	<2.2
PCB-1016	<50	<3600	<18000	<0.34	<3600	<0.034	<40	<37	<0.034	<36
PCB-1221	<50	<3600	<18000	<0.133	<3600	<0.133	<40	<37	<0.133	<36
PCB-1232	<50	<3600	<18000	<0.62	<3600	<0.062	<40	<37	<0.062	<36
PCB-1242	<50	<3600	<18000	<0.62	<3600	<0.062	<40	<37	<0.062	<36
PCB-1248	<50	<3600	<18000	<0.86	<3600	<0.086	<40	<37	<0.086	<36
PCB-1254	<50	<3600	<18000	<1.23	<3600	<0.123	<40	<37	<0.123	[illegible]
PCB-1260	<50	<3600	<18000	<0.174	<3600	<0.174	<40	<37	<0.174	<36
Toxaphene	<250	<1000	<5100	<6.94	<1000	<0.694	<11	<10	<0.694	<10
Methoxychlor										
Endrin keytone										
Total Pesticide/PCB Compounds	0	0	0	0.562	0	1.311	0	0	33.54	0

See last page for footnotes.

Well Designation:	P-13	P-13	P-13	P-13	P-14	P-14
Sample Date:	6/84	6/84*	6/84	11/87	6/84	11/87
Laboratory:	EEI	EEI	ETC	ETC	EEI	ETC
Pesticide/PCB Compounds (concentrations are in ug/L)						
Aldrin	<10	<10	<10	<1.9	<10	<1.9
alpha-BHC	<10	<10	<10	<10	<10	<10
beta-BHC	<10	<10	<10	<4.4	<10	<4.4
gamma-BHC	<10	<10	<10	<10	<10	<10
delta-BHC	<10	<10	<10	<3.1	<10	<3.1
Chlordane	<100	<100	<10	<10	<100	<10
4,4'-DDT	<10	<10	<10	<2.8	<10	<2.8
4,4'-DDE	<10	<10	<10	<5.6	<10	<5.6
4,4'-DDD	<10	<10	<10	<4.7	<10	<4.7
Dieldrin	<10	<10	<10	<2.5	<10	<2.5
Endosulfan I	<10	<10	<10	<10	<10	<10
Endosulfan II	<10	<10	<10	<10	<10	<10
Endosulfan sulfate	<10	<10	<10	<5.6	<10	<5.6
Endrin	<10	<10	<10	<10	<10	<10
Endrin aldehyde	<10	<10	<10	<10	<10	<10
Heptachlor	<10	<10	<10	<1.9	<10	<1.9
Heptachlor epoxide	<10	<10	<10	<2.2	<10	<2.2
PCB-1016	<50	<50	<10	<36	<50	<36
PCB-1221	<50	<50	<10	<36	<50	<36
PCB-1232	<50	<50	<10	<36	<50	<36
PCB-1242	<50	<50	<10	<36	<50	<36
PCB-1248	<50	<50	<10	<36	<50	<36
PCB-1254	<50	<50	<10	<36	<50	<36
PCB-1260	<50	<50	<10	<36	<50	<36
Toxaphene	<250	<250	<10	<10	<250	<10
Methoxychlor						
Endrin keytone						
Total Pesticide/PCB Compounds	0	0	0	0	0	0

NA Not analyzed.
* Replicate sample.
** In 1992, chlordane was analyzed separately as alpha-chlordane and gamma-chlordane. The sums are the reported values except for P-7 in which the R is denoted for alpha-chlordane only.
EEI Envirodyne Engineers Inc., St. Louis, Missouri.
ETC Environmental Testing and Certification, Edison, New Jersey.
SL Savannah Laboratories and Environmental Testing, Savannah, Georgia.
SLES Savannah Laboratories and Environmental Services, Inc., Savannah, Georgia (formerly Savannah Laboratories and Environmental Testing, Savannah, Georgia).
ug/L Micrograms per liter.
J Estimated value.
N Presumptive evidence of compound present.
R Unusable value.
P Precision criteria were not met.

Table A-5. Metals and Miscellaneous Parameters in Ground Water, Sauget Site R, Monsanto Company, Sauget, Illinois.

Well Number:	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B	GM-27B
Sample Date:	9/84	11/85	2/86	12/86	5/87	11/87	5/88	11/89	11/90	11/91
Laboratory:	EEI	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	0.012	NA	<0.06	NA	NA	NA	NA	NA	NA	NA
Arsenic	<0.001	NA	<0.01	NA	NA	NA	NA	NA	NA	NA
Beryllium	<0.002	NA	<0.0009	NA	NA	NA	NA	NA	NA	NA
Cadmium	<0.002	NA	<0.003	NA	NA	NA	NA	NA	NA	NA
Chromium	<0.004	NA	<0.008	NA	NA	NA	NA	NA	NA	NA
Copper	<0.004	NA	<0.006	NA	NA	NA	NA	NA	NA	NA
Lead	<0.004	NA	<0.06	NA	NA	NA	NA	NA	NA	NA
Mercury	<0.0002	NA	<0.0002	NA	NA	NA	NA	NA	NA	
Nickel	<0.004	NA	<0.009	NA	NA	NA	NA	NA	NA	
Selenium	<0.001	NA	<0.005	NA	NA	NA	NA	NA	NA	
Silver	<0.01	NA	<0.010	NA	NA	NA	NA	NA	NA	
Thallium	0.051	NA	<0.005	NA	NA	NA	NA	NA	NA	NA
Zinc	0.032	NA	0.02	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	7.1	8.4	NA	7.1	7.6	6.8	6.7	7	6.1	6.1
Spec. conductance (umhos/cm)	420	550	410	1,250	350	2,200	2,400	–	4,200	4,740
Temperature (deg. centigrade)	18	12	12	13	20	17	14	16	10	17
Cyanide	NA	<0.025	<0.025	NA	NA	<.025	NA	NA	NA	NA
Phenols	NA	<0.05	0.0636	NA	NA	0.602	NA	NA	NA	NA
Total Organic Carbon (TOX)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	294	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	35	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	10	10.4#	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C	GM-27C
Sample Date:	9/84	11/85	2/86	12/86	5/87	11/87	5/88	11/88	11/89	11/90
Laboratory:	EEI	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	0.011	NA	<0.06	NA	NA	NA	NA	NA	NA	NA
Arsenic	<0.001	NA	<0.01	NA	NA	NA	NA	NA	NA	NA
Beryllium	<0.002	NA	<0.0009	NA	NA	NA	NA	NA	NA	NA
Cadmium	<0.002	NA	<0.003	NA	NA	NA	NA	NA	NA	NA
Chromium	<0.004	NA	<0.008	NA	NA	NA	NA	NA	NA	NA
Copper	<0.004	NA	<0.006	NA	NA	NA	NA	NA	NA	NA
Lead	<0.004	NA	<0.06	NA	NA	NA	NA	NA	NA	NA
Mercury	<0.0002	NA	<0.0002	NA	NA	NA	NA	NA	NA	NA
Nickel	<0.004	NA	0.01	NA	NA	NA	NA	NA	NA	NA
Selenium	<0.001	NA	<0.005	NA	NA	NA	NA	NA	NA	NA
Silver	<0.01	NA	<0.01	NA	NA	NA	NA	NA	NA	NA
Thallium	0.102	NA	<0.005	NA	NA	NA	NA	NA	NA	NA
Zinc	0.07	NA	0.058	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	7.1	6.8	7.0	7.0	7.5	7.1	6.6	6.7	7.3	6.6
Spec. conductance (umhos/cm)	700	1,600	1,000	825	600	2,000	2,900	3,500	–	2,440
Temperature (deg. centigrade)	20	12	12	13	17	17	13	14	16	10
Cyanide	NA	NA	<0.025	NA	NA	< 025	NA	NA	NA	NA
Phenols	NA	0.346	0.152	NA	NA	0.364	NA	NA	NA	NA
Total Organic Carbon (TOX)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	482	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	55	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	18	113.4#	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	GM-27C	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B	GM-28B
Sample Date:	11/91	9/84	11/85	2/86	12/86	5/87	11/87	5/88	3/89	11/89
Laboratory:	ETC	EEI	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	0.015	NA	<0.06	NA	NA	NA	NA	<0.06	NA
Arsenic	NA	<0.001	NA	<0.01	NA	NA	NA	NA	<0.01	NA
Beryllium	NA	<0.002	NA	<0.0009	NA	NA	NA	NA	<0.001	NA
Cadmium	NA	<0.002	NA	<0.003	NA	NA	NA	NA	<0.002	NA
Chromium	NA	<0.004	NA	<0.008	NA	NA	NA	NA	<0.01	NA
Copper	NA	<0.004	NA	<0.006	NA	NA	NA	NA	<0.01	NA
Lead	NA	<0.004	NA	<0.06	NA	NA	NA	NA	<0.075	NA
Mercury	NA	<0.0002	NA	<0.0002	NA	NA	NA	NA	<0.0002	NA
Nickel	NA	<0.004	NA	0.01	NA	NA	NA	NA	<0.02	NA
Selenium	NA	<0.001	NA	<0.005	NA	NA	NA	NA	<0.005	NA
Silver	NA	<0.01	NA	<0.01	NA	NA	NA	NA	<0.01	NA
Thallium	NA	0.106	NA	<0.005	NA	NA	NA	NA	<0.01	NA
Zinc	NA	0.038	NA	0.04	NA	NA	NA	NA	<0.15	NA
Miscellaneous Parameters										
pH	6.8	7.2	6.7	NA	7.0	7.1	7.0	6.9	6.9	7.5
Spec. conductance (umhos/cm)	3,900	1,100	2,500	1,230	1,100	1,700	2,300	1,750	1,300	–
Temperature (deg. centigrade)	17	19	NA	13	13	16	16	13	14	14
Cyanide	NA	NA	<0.025	<0.025	NA	NA	0.027	NA	<0.025	NA
Phenols	NA	NA	5.5	3.76	NA	NA	NA	NA	11.4	NA
Total Organic Carbon (TOX)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	NA	832	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	[illegible]	NA
Chloride	NA	175	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	114	182#	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	GM-28B	GM-28B	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C
Sample Date:	11/90	11/91	9/84	11/85	2/86	12/86	5/87	11/87	5/88	11/88
Laboratory:	ETC	ETC	EEI	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	0.039	NA	<0.06	NA	NA	NA	NA	NA
Arsenic	NA	NA	0.002	NA	<0.01	NA	NA	NA	NA	NA
Beryllium	NA	NA	<0.002	NA	<0.0009	NA	NA	NA	NA	NA
Cadmium	NA	NA	0.003	NA	<0.003	NA	NA	NA	NA	NA
Chromium	NA	NA	<0.004	NA	<0.008	NA	NA	NA	NA	NA
Copper	NA	NA	<0.004	NA	<0.006	NA	NA	NA	NA	NA
Lead	NA	NA	<0.004	NA	<0.06	NA	NA	NA	NA	NA
Mercury	NA	NA	<0.0002	NA	<0.0002	NA	NA	NA	NA	NA
Nickel	NA	NA	0.007	NA	<0.009	NA	NA	NA	NA	NA
Selenium	NA	NA	<0.001	NA	<0.005	NA	NA	NA	NA	NA
Silver	NA	NA	<0.01	NA	<0.01	NA	NA	NA	NA	NA
Thallium	NA	NA	0.279	NA	<0.005	NA	NA	NA	NA	NA
Zinc	NA	NA	0.043	NA	0.16	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.4	6.8	6.9	7.3	NA	7.0	6.8	6.7	6.9	7.1
Spec. conductance (umhos/cm)	2,280	1,245	2,500	2,500	1,290	2,200	2,150	1,500	1,400	1,600
Temperature (deg. centigrade)	11	16	19	NA	10	12	16	17	13	15
Cyanide	NA	NA	NA	<0.025	<0.025	NA	NA	0.028	NA	NA
Phenols	NA	NA	NA	1.036	1.980	NA	NA	NA	NA	NA
Total Organic Carbon (TOX)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	NA	720	2,250	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	820	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	228	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	705	384	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	252	188#	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	85.2	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	66.6	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	11.9	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	232	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	16	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	GM-28C	GM-28C	GM-28C	GM-28C	GM-28C	GM-55C	GM-55C	GM-55C	GM-55C	GM-55C
Sample Date:	3/89	3/89 *	11/89	11/90	11/91	11/87	5/88	11/88	11/89	11/90
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	<0.06	<0.06	NA	NA	NA	<.066	< 076	NA	NA	NA
Arsenic	<0.05	<0.01	NA	NA	NA	< 010	0.012	NA	NA	NA
Beryllium	<0.001	<0.001	NA	NA	NA	< 00064	< 0004	NA	NA	NA
Cadmium	<0.002	<0.002	NA	NA	NA	< 0023	< 003	NA	NA	NA
Chromium	<0.01	<0.01	NA	NA	NA	< 015	0.056	NA	NA	NA
Copper	<0.01	<0.01	NA	NA	NA	<.016	< 008	NA	NA	NA
Lead	<0.075	<0.075	NA	NA	NA	<.063	<.052	NA	NA	NA
Mercury	<0.0002	<0.0002	NA	NA	NA	< 00024	< 0002	NA	NA	NA
Nickel	<0.02	<0.02	NA	NA	NA	0.019	<.009	NA	NA	NA
Selenium	<0.005	<0.005	NA	NA	NA	<.005	< 005	NA	NA	NA
Silver	<0.01	<0.01	NA	NA	NA	<.011	<.006	NA	NA	NA
Thallium	<0.01	<0.01	NA	NA	NA	<.010	< 010	NA	NA	NA
Zinc	0.035	0.053	NA	NA	NA	<.020	0.035	NA	NA	NA
Miscellaneous Parameters										
pH	6.9	6.9	7.2	6.4	6.0	7.0	7.1	7.2	6.7	7.0
Spec. conductance (umhos/cm)	2,200	2,200	–	2,320	1,860	1,400	1,200	1,500	–	1,990
Temperature (deg. centigrade)	14	14	14	11	17	17	13	15	15	10
Cyanide	<0.025	0.035	NA	NA	NA	< 025	<.025	NA	NA	NA
Phenols	3.07	2.84	NA	NA	NA	0.167	2.6	NA	NA	NA
Total Organic Carbon (TOX)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	890	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	GM-55C	GM-56C	GM-56C	GM-56C	GM-56C	GM-56C	GM-56C	GM-57C	GM-57C	GM-57C
Sample Date:	11/91	11/87	5/88	11/88	11/89	11/90	11/91	11/87	11/87*	5/88
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	< 080	< 076	NA	NA	NA	NA	< 080	< 080	0 090
Arsenic	NA	< 010	< 010	NA	NA	NA	NA	< 010	< 010	< 010
Beryllium	NA	< 00078	< 0004	NA	NA	NA	NA	< 00078	< 00078	< 0004
Cadmium	NA	< 0055	< 003	NA	NA	NA	NA	< 0055	< 0055	< 003
Chromium	NA	< 032	0.050	NA	NA	NA	NA	< 032	< 032	0 089
Copper	NA	< 012	< 008	NA	NA	NA	NA	< 012	< 012	< 008
Lead	NA	< 062	< 052	NA	NA	NA	NA	< 062	< 062	< 052
Mercury	NA	< 00020	< 0002	NA	NA	NA	NA	< 00020	< 00020	< 0002
Nickel	NA	< 015	0.011	NA	NA	NA	NA	< 015	0.029	0 032
Selenium	NA	< 005	< 005	NA	NA	NA	NA	< 005	< 005	< 005
Silver	NA	< 027	< 006	NA	NA	NA	NA	< 027	< 027	< 006
Thallium	NA	< 010	< 010	NA	NA	NA	NA	< 010	< 010	< 010
Zinc	NA	0.100	0.034	NA	NA	NA	NA	0.037	0.042	0 082
Miscellaneous Parameters										
pH	5.6	6.8	6.8	6.9	6.8	6.6	7.0	6.6	6.6	6.7
Spec. conductance (umhos/cm)	2,340	1,200	2,100	2,200	--	2,470	1,970	3,200	3,200	2,900
Temperature (deg. centigrade)	16	15	13	15	15	15	17	16	16	13
Cyanide	NA	0.063	< 025	NA	NA	NA	NA	0.035	0.037	< 025
Phenols	NA	17.0	10.4	NA	NA	NA	NA	74.5	71.5	45.8
Total Organic Carbon (TOX)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-57C	GM-62A	GM-62A	GM-62A
Sample Date:	5/88*	11/88	3/89	11/89	11/90	11/90*	11/91	8/88	11/88	11/91
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	0.096	NA	<0.06	NA	NA	NA	NA	< 060	<0.060	NA
Arsenic	< 010	NA	<0.01	NA	NA	NA	NA	< 010	<0.010	NA
Beryllium	< 0004	NA	<0.001	NA	NA	NA	NA	< 001	<0.001	NA
Cadmium	< 003	NA	<0.002	NA	NA	NA	NA	< 002	<0.002	NA
Chromium	0.087	NA	<0.01	NA	NA	NA	NA	< 010	<0.010	NA
Copper	< 006	NA	<0.01	NA	NA	NA	NA	< 010	<0.010	NA
Lead	< 052	NA	<0.075	NA	NA	NA	NA	< 075	< 075	NA
Mercury	< 0002	NA	<0.0002	NA	NA	NA	NA	< 0002	<0.0002	NA
Nickel	0.030	NA	<0.02	NA	NA	NA	NA	< 020	<0.020	NA
Selenium	< 005	NA	<0.005	NA	NA	NA	NA	< 005	<0.005	NA
Silver	0.006	NA	<0.01	NA	NA	NA	NA	< 010	<0.010	NA
Thallium	< 010	NA	<0.01	NA	NA	NA	NA	< 010	<0.010	NA
Zinc	0.082	NA	0.087	NA	NA	NA	NA	0.079	0.051	NA
Miscellaneous Parameters										
pH	7.2	6.7	6.7	6.4	6.3	6.3	6.7	7.0	6.8	6.3
Spec. conductance (umhos/cm)	800	2,800	2,900	1,500	2,540	2,540	2,770	600	1,200	1,620
Temperature (deg. centigrade)	15	15	14	14	10	10	17	18	15	16
Cyanide	< 025	NA	<0.025	NA	NA	NA	NA	<0.025	<0.025	NA
Phenols	49.6	NA	11.1	NA	NA	NA	NA	<0.050	<0.050	NA
Total Organic Carbon (TOX)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	GM-62B	GM-62B	GM-62B	GM-62B	GM-62B	GM-62B	GM-62C	GM-62C	GM-62C	GM-62C
Sample Date:	8/88	8/88*	11/88	11/88	5/89	11/91	8/88	11/88	5/89	11 91
Laboratory:	ETC	ETC	ETC	SL	SL	ETC	ETC	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	< 060	< 060	<0.060	<0.05	NA	NA	< 060	<0.060	NA	NA
Arsenic	< 010	< 010	<0.010	<0.01	NA	NA	< 010	<0.010	NA	NA
Beryllium	<.001	< 001	<0.001	<0.005	NA	NA	< 001	<0.001	NA	NA
Cadmium	< 002	< 002	<0.002	<0.005	NA	NA	< 002	<0.002	NA	NA
Chromium	< 010	< 010	<0.010	<0.01	NA	NA	< 010	<0.010	NA	NA
Copper	< 010	< 010	<0.010	0.015	NA	NA	< 010	<0.010	NA	NA
Lead	<.075	< 075	< 075	<0.005	NA	NA	< 075	< 075	NA	NA
Mercury	< 0002	< 0002	<0.0002	<0.0002	NA	NA	< 0002	<0.0002	NA	NA
Nickel	0.022	0.021	<0.020	<0.01	NA	NA	<0.020	<0.020	NA	NA
Selenium	< 005	< 005	<0.005	<0.01	NA	NA	< 005	<0.025	NA	NA
Silver	< 010	< 010	<0.010	<0.01	NA	NA	< 010	<0.010	NA	NA
Thallium	< 010	< 010	<0.010	<0.01	NA	NA	< 010	<0.010	NA	NA
Zinc	0.110	0.057	0.053	0.17	NA	NA	0.110	0.130	NA	NA
Miscellaneous Parameters										
pH	7.5	NA	7.2	NA	NA	6.6	8.7	7.0	NA	5 2
Spec. conductance (umhos/cm)	650	NA	1,900	NA	NA	2,400	600	2,100	NA	2,490
Temperature (deg. centigrade)	19	NA	14	NA	16	17	18	14	16	17
Cyanide	<0.025	<0.025	<0.025	<0.01	NA	NA	<0.025	<0.025	NA	NA
Phenols	<0.050	<0.050	<0.050	0.06	NA	NA	<0.050	<0.050	NA	NA
Total Organic Carbon (TOX)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106	GM-106
Sample Date:	11/85	2/86	2/86*	12/86	5/87	11/87	5/88	11/88	11/89	11/90
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	<0.06	<0.050	<0.050	NA	NA	NA	NA	NA	NA	NA
Arsenic	<0.01	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA
Beryllium	<0.001	<0.001	<0.001	NA	NA	NA	NA	NA	NA	NA
Cadmium	<0.004	<0.003	<0.003	NA	NA	NA	NA	NA	NA	NA
Chromium	<0.02	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA
Copper	<0.01	<0.009	<0.009	NA	NA	NA	NA	NA	NA	NA
Lead	<0.05	<0.06	<0.060	NA	NA	NA	NA	NA	NA	NA
Mercury	<0.0002	<0.0002	<0.0002	NA	NA	NA	NA	NA	NA	NA
Nickel	<0.02	<0.01	<0.010	NA	NA	NA	NA	NA	NA	NA
Selenium	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	NA	NA
Silver	<0.008	<0.010	<0.010	NA	NA	NA	NA	NA	NA	NA
Thallium	<0.005	<0.010	<0.005	NA	NA	NA	NA	NA	NA	NA
Zinc	<0.02	0.030	0.050	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	7.5	7.6	7.6	7.7	7.9	7.8	8.5	7.7	9.6	7.3
Spec. conductance (umhos/cm)	1,300	1,060	1,060	1,475	1,150	1,400	1,900	1,500	–	1640
Temperature (deg. centigrade)	12	14	14	13	15	11	15	15	15	10
Cyanide	0.24	0.172	0.179	NA	NA	NA	NA	NA	NA	NA
Phenols	0.19	0.4	0.4	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOX)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	100#	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	GM-106	B-21B	B-21B	B-21B	B-21B	B-22A	B-22A	B-22A	B-22A	B-22B
Sample Date:	11/91	1/84	2/84	3/84	5/84	1/84	2/84	3/84	5/84	1/84
Laboratory:	ETC	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	8.1	6.0	6.6	6.6	7.0	6.5	6.7	6.5	6.5	6.0
Spec. conductance (umhos/cm)	1840	4,100	1,850	3,150	3,350	2,750	1,300	3,200	4,200	2,050
Temperature (deg. centigrade)	16	14.5	16.5	15.5	16	13.0	14	15	14.0	16.0
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenols	NA	530#	630	380	380	21	35	28.5#	59	150
Total Organic Carbon (TOX)	NA	260	490	440	540	330	92#	70	130	120
Total Dissolved Solids (TDS)	990	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	630	750	1,600	1,600	NA	130	390	300	230
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	B-22B	B-22B	B-22B	B-24A	B-24A	B-24A	B-24A	B-24A	B-24B	B-24B
Sample Date:	2/84	3/84	5/84	1/84	2/84	3/84	5/84	2/86	1/84	2/84
Laboratory:	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	<0.06	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	0.01	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	0.002	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	<0.003	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	0.11	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	<0.006	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	<0.06	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	0.05	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	0.01	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	<0.01	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	0.14	NA	NA
Miscellaneous Parameters										
pH	6.6	6.4	6.5	6.0	7.2	6.4	7.0	NA	6.0	6.6
Spec. conductance (umhos/cm)	1,000	1,950	1,850	9,750	1,700	5,500	11,500	2,750	3,050	330
Temperature (deg. centigrade)	17	15	16.5	7	16.5	10	16	11	12.0	14
Cyanide	NA	NA	NA	NA	NA	NA	NA	0.0638	NA	NA
Phenols	100	210	47#	1,200	1,360	1,500	1,400	520	230	300
Total Organic Carbon (TOX)	5.3	38	80	1,500	800	840	980	NA	310	430
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA		
Calcium	NA	NA	NA	NA	NA	NA	NA	NA		NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	180	1,000	420	920	1,300	3,700	3,600	NA	380	360
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	B-24B	B-24B	B-24C	B-24C	B-24C	B-24C	B-25A	B-25A	B-25A	B-25A
Sample Date:	3/84	5/84	1/84	2/84	3/84	5/84	1/84	2/84	3/84	5/84
Laboratory:	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.4	6.0	7.0	6.4	6.4	6.5	6.2	6.3	5.9	6.5
Spec. conductance (umhos/cm)	1,500	1,600	3,630	570	2,700	1,900	9,000	1,250	11,500	1,250
Temperature (deg. centigrade)	12.5	14.5	12.5	14.5	14	15.0	NA	14	13.5	14.0
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenols	90	39#	390	360	800	68.5#	1,500	460	1,400	1,400
Total Organic Carbon (TOX)	98	190	1,300	480	340	640	1,500	540	990	780
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	380	600	520	360	1,000	670	1,000	540	4,900	3,400
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	B-25A	B-25A	B-25A	B-25B	B-25B	B-25B	B-25B	B-25B	B-25B	B-26A
Sample Date:	6/84	11/85	3/87	1/84	2/84	3/84	5/84	6/84	11/85	1-84
Laboratory:	EEI	ETC	ETC	EEI	EEI	EEI	EEI	EEI	ETC	EEI
Metals (concentrations are in mg/L, except where noted)										
Antimony	0.68	NA	NA	NA	NA	NA	NA	<0.06	NA	NA
Arsenic	<0.001	NA	NA	NA	NA	NA	NA	<0.001	NA	NA
Beryllium	<0.01	NA	NA	NA	NA	NA	NA	0.002	NA	NA
Cadmium	0.074	NA	NA	NA	NA	NA	NA	0.008	NA	NA
Chromium	0.06	NA	NA	NA	NA	NA	NA	0.150	NA	NA
Copper	0.03	NA	NA	NA	NA	NA	NA	0.009	NA	NA
Lead	0.027	NA	NA	NA	NA	NA	NA	0.041	NA	NA
Mercury	0.0052	NA	NA	NA	NA	NA	NA	0.0006	NA	NA
Nickel	2.21	NA	NA	NA	NA	NA	NA	0.091	NA	NA
Selenium	<0.001	NA	NA	NA	NA	NA	NA	<0.001	NA	NA
Silver	0.018	NA	NA	NA	NA	NA	NA	0.004	NA	NA
Thallium	0.108	NA	NA	NA	NA	NA	NA	<0.002	NA	NA
Zinc	3.21	NA	NA	NA	NA	NA	NA	0.054	NA	NA
Miscellaneous Parameters										
pH	6.4	6.0	NA	6.3	6.3	6.3	6.5	7.0	6.7	6.0
Spec. conductance (umhos/cm)	16,000	5,500	NA	3,150	1,500	1,250	2,900	2,600	4,500	1,370
Temperature (deg. centigrade)	14	13	NA	10.0	14	13.5	14.5	14	13	NA
Cyanide	<0.005	<0.025	0.035	NA	NA	NA	NA	<0.005	<0.025	NA
Phenols	720	1,500	NA	380	425#	280	160	85	410	0.46
Total Organic Carbon (TOX)	NA	NA	NA	380	430	310	180	NA	NA	14
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	NA	370	590	980	820	NA	NA	4
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	B-26A	B-26A	B-26A	B-26A	B-26B	B-26B	B-26B	B-26B	B-27B	B-27B
Sample Date:	2/84	3/84	5/84	3/87	1/84	2/84	3/84	5/84	1/84	2/84
Laboratory:	EEI	EEI	EEI	ETC	EEI	EEI	EEI	EEI	EEI	EEI
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	< 057	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	0.054	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	< 00052	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	< 0025	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	< 013	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	< 0052	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	< 050	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	< 00022	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	< 0096	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	< 0050	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	< 011	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	< 0050	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	0.036	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.9	6.8	6.5	6.5	6.0	6.8	6.6	6.5	6.6	6.2
Spec. conductance (umhos/cm)	440	1,000	1,600	2,300	2,030	490	1,100	1,050	3,000	1,200
Temperature (deg. centigrade)	13	15	15.0	10	13.0	13.5	14.0	13.0	NA	13
Cyanide	NA	NA	NA	< 025	NA	NA	NA	NA	NA	NA
Phenols	0.36#	0.34	0.155#	NA	2.65#	2.85#	1.7	1.55#	190	200
Total Organic Carbon (TOX)	1.8	0.35	1.8	NA	20	8.4	0.85	2.0	190	140
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	19	76	13	NA	2	41	310	220	270	330
Iron	NA	NA	NA	39.5	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	< 088	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	0.171	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	< 026	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	< 052	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	< 011	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	21.2	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	4.65	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	B-27B	B-27B	B-27B	B-27B	B-28A	B-28A	B-28A	B-28A	B-28A	B-28A
Sample Date:	3/84	5/84	9/84	9/84*	1/84	2/84	3/84	5/84	2/86	3/87
Laboratory:	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	0.056	NA	NA	NA	NA	NA	<0.06	< 057
Arsenic	NA	NA	<0.001	NA	NA	NA	NA	NA	0.11	0.077
Beryllium	NA	NA	<0.002	NA	NA	NA	NA	NA	<0.0009	052
Cadmium	NA	NA	0.003	NA	NA	NA	NA	NA	<0.003	25
Chromium	NA	NA	0.008	NA	NA	NA	NA	NA	<0.008	< 013
Copper	NA	NA	<0.004	NA	NA	NA	NA	NA	<0.006	< 0052
Lead	NA	NA	<0.004	NA	NA	NA	NA	NA	<0.06	< 0050
Mercury	NA	NA	<0.0002	NA	NA	NA	NA	NA	<0.0002	< 00022
Nickel	NA	NA	0.054	NA	NA	NA	NA	NA	0.01	< 0096
Selenium	NA	NA	<0.001	NA	NA	NA	NA	NA	0.01	< 0050
Silver	NA	NA	<0.01	NA	NA	NA	NA	NA	<0.01	< 011
Thallium	NA	NA	0.125	NA	NA	NA	NA	NA	0.005	< 0050
Zinc	NA	NA	0.185	NA	NA	NA	NA	NA	0.04	0 023
Miscellaneous Parameters										
pH	6.5	6.5	6.3	6.3	7.0	7.1	6.9	6.5	NA	7 6
Spec. conductance (umhos/cm)	2,000	3,100	2,200	2,200	1,950	380	1,750	2,500	1,300	2,800
Temperature (deg. centigrade)	14.5	14	20	20	12.0	13	17.0	15.0	13	11
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	<0.025	< 025
Phenols	130	150	NA	NA	0.48	0.3	0.5	0.70#	<0.05	NA
Total Organic Carbon (TOX)	74	78	NA	NA	530	1.1	1.8	1.6	NA	NA
Total Dissolved Solids (TDS)	NA	NA	3,658	485	NA	NA	NA	NA	NA	
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	450	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	430	520	575	NA	NA	12	20	24	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	30.1
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 088
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.110
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 026
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 052
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 011
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	29.1
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.74

See last page for footnotes.

Well Number:	B-28B	B-28B	B-28B	B-28B	B-29A	B-29A	B-29A	B-29A	B-29A	B-29A
Sample Date:	1/84	2/84	3/84	5/84	1/84	2/84	3/84	5/84	6/84	11.85
Laboratory:	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	2.6	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	0.001	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	<0.01	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	0.012	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	<0.04	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	0.02	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	0.0069	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	0.185	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	<0.02	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	0.042	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	0.069	NA
Miscellaneous Parameters										
pH	6.9	6.6	6.6	6.5	6.8	6.5	6.7	6.5	6.8	6.9
Spec. conductance (umhos/cm)	1,450	390	1,100	1,250	8,000	2,900	8,500	9,000	7,000	11,500
Temperature (deg. centigrade)	12.5	13.0	15.0	14.0	12.0	9.0	15.0	15.0	14	13
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.025
Phenols	0.705#	0.41#	0.44#	0.375#	7,200	7,600	8,800	6,800	2.0	10,000
Total Organic Carbon (TOX)	6.7	1.1	0.85	1.5	390	645#	630#	580	NA	NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	80	30	30	30	5,400	7,000	380	7,900	NA	4,400
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	B-29B	B-29B	B-29B	B-29B	B-29B	B-29B	B-29B	B-29B	B-29B	B-30B
Sample Date:	1/84	2/84	3/84	5/84	6/84	6/84*	6/84**	11/84	11/85	1/84
Laboratory:	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI	ETC	EEI
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	0.15	<0.14	<0.1	<0.07	NA	NA
Arsenic	NA	NA	NA	NA	0.003	<0.001	<0.005	0.019	NA	NA
Beryllium	NA	NA	NA	NA	<0.01	<0.010	<0.005	<0.005	NA	NA
Cadmium	NA	NA	NA	NA	<0.01	<0.010	<0.007	<0.005	NA	NA
Chromium	NA	NA	NA	NA	<0.04	<0.050	<0.020	<0.008	NA	NA
Copper	NA	NA	NA	NA	<0.04	<0.040	<0.010	<0.008	NA	NA
Lead	NA	NA	NA	NA	<0.01	<0.1	<0.1	<0.06	NA	NA
Mercury	NA	NA	NA	NA	0.0064	<0.0051	<0.003	<0.002	NA	NA
Nickel	NA	NA	NA	NA	0.076	0.079	0.04	0.031	NA	NA
Selenium	NA	NA	NA	NA	<0.001	<0.001	0.009	<0.01	NA	NA
Silver	NA	NA	NA	NA	<0.02	0.020	<0.01	<0.008	NA	NA
Thallium	NA	NA	NA	NA	0.025	0.021	<0.005	<0.01	NA	NA
Zinc	NA	NA	NA	NA	0.049	0.071	0.02	0.013	NA	NA
Miscellaneous Parameters										
pH	6.8	6.9	6.7	6.5	6.8	6.8	6.8	7.2	6.9	6.8
Spec. conductance (umhos/cm)	4,550	1,500	4,000	4,300	4,100	4,100	4,100	5,000	5,400	8,000
Temperature (deg. centigrade)	12.5	14	13.5	14	13.5	13.5	13.5	14	14	NA
Cyanide	NA	NA	NA	NA	<0.005	<0.005	<0.025	<0.025	<0.025	1,800
Phenols	5,100	3,400	5,000	4,400	5,100	2,000	3,040	3,300	10,000	310
Total Organic Carbon (TOX)	1200	410	300	400	NA	NA	NA	NA	N	NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA		NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	1	
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	5	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	351	1,400
Total Organic Carbon (TOC)	3,100	2,200#	4,500	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	0.6	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	20 5	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	11.5	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	1,150	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	730	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	B-30B	B-30B	B-30B	B-30B	B-101	P-1	P-1	P-1	P-1	P-1
Sample Date:	2/84	3/84	5/84	9/84	9/84	1/84	2/84	3/84	5/84	9/84
Laboratory:	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	0.072	0.019	NA	NA	NA	NA	0.065
Arsenic	NA	NA	NA	0.006	<0.001	NA	NA	NA	NA	0.007
Beryllium	NA	NA	NA	<0.002	<0.002	NA	NA	NA	NA	<0.002
Cadmium	NA	NA	NA	0.003	<0.002	NA	NA	NA	NA	<0.002
Chromium	NA	NA	NA	<0.004	<0.004	NA	NA	NA	NA	<0.004
Copper	NA	NA	NA	0.004	<0.004	NA	NA	NA	NA	<0.004
Lead	NA	NA	NA	0.005	0.013	NA	NA	NA	NA	<0.004
Mercury	NA	NA	NA	0.00091	<0.0004	NA	NA	NA	NA	<0.0004
Nickel	NA	NA	NA	0.033	<0.004	NA	NA	NA	NA	0.006
Selenium	NA	NA	NA	<0.001	<0.001	NA	NA	NA	NA	<0.001
Silver	NA	NA	NA	<0.01	<0.002	NA	NA	NA	NA	<0.002
Thallium	NA	NA	NA	0.41	0.018	NA	NA	NA	NA	0.013
Zinc	NA	NA	NA	0.12	0.26	NA	NA	NA	NA	0.124
Miscellaneous Parameters										
pH	6.7	6.6	7.0	6.9	6.9	7.0	7.3	7.0	6.0	7.3
Spec. conductance (umhos/cm)	1,850	2,200	4,950	3,500	1,050	850	NA	650	750	650
Temperature (deg. centigrade)	NA	NA	NA	19	21	NA	12	14	13.5	20
Cyanide	630	420	410#	NA	NA	NA	NA	NA	NA	NA
Phenols	420	270	240	NA	NA	0.170	0.11	0.16#	0.22	NA
Total Organic Carbon (TOX)	NA	NA	NA	NA	NA	1.9	2	0.35	1.1	NA
Total Dissolved Solids (TDS)	NA	NA	NA	4,704	876	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	680	730	1,100	990	200	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	NA	127	257	9	26	15	32	13
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	P-1	P-1	P-2	P-2	P-2	P-2	P-2	P-2	P-2	P-2
Sample Date:	3/87	11/87	1/84	2/84	3/84	5/84	6/84	11/85	12/86	5/87
Laboratory:	ETC	ETC	EEI	EEI	EEI	EEI	EEI	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	<.057	NA	NA	NA	NA	NA	0.004	NA	NA	NA
Arsenic	0.042	NA	NA	NA	NA	NA	0.041	NA	NA	NA
Beryllium	<.00052	NA	NA	NA	NA	NA	0.098	NA	NA	NA
Cadmium	<.0025	NA	NA	NA	NA	NA	0.002	NA	NA	NA
Chromium	<.013	NA	NA	NA	NA	NA	0.005	NA	NA	NA
Copper	<.0052	NA	NA	NA	NA	NA	0.007	NA	NA	NA
Lead	<.0050	NA	NA	NA	NA	NA	<0.004	NA	NA	NA
Mercury	<.00022	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA
Nickel	<.0096	NA	NA	NA	NA	NA	0.007	NA	NA	NA
Selenium	<.0050	NA	NA	NA	NA	NA	<0.001	NA	NA	
Silver	<.011	NA	NA	NA	NA	NA	<0.01	NA	NA	
Thallium	<.0050	NA	NA	NA	NA	NA	<0.02	NA	NA	
Zinc	0.050	NA	NA	NA	NA	NA	0.034	NA	NA	
Miscellaneous Parameters										
pH	7.0	7.0	7.1	7.2	7.0	6.0	6.9	7.0	6.5	6.9
Spec. conductance (umhos/cm)	2,200	2,000	600	340	550	675	600	2,300	1,400	1,700
Temperature (deg. centigrade)	10	17	NA	12	15	13	15	14	13	15
Cyanide	<.025	<.025	NA	NA	NA	NA	<0.005	<0.025	NA	NA
Phenols	NA	NA	0.29	0.16#	0.34	0.17	0.036	0.0959	NA	NA
Total Organic Carbon (TOX)	NA	NA	0.88	1.5	0.39	1.6	NA	NA	NA	NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	22	25	8	110	NA	NA	NA	NA
Iron	16.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	<.088	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	0.257	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	<.026	NA	NA	NA	NA	NA	NA	NA	NA	
Tin	<.052	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	<.011	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	4.16	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	2.64	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	P-2	P-2	P-2	P-2	P-2	P-2	P-3	P-3	P-3	P-3
Sample Date:	11/87	5/88	11/88	11/89	11/90	11/91	1/84	2/84	3/84	5/84
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	EEI	EEI	EEI	EEI
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.9	6.8	6.8	6.7	6.9	5.7	6.5	6.7	6.6	7.0
Spec. conductance (umhos/cm)	2,200	2,000	3,600	–	3,100	2,850	950	340	950	1,300
Temperature (deg. centigrade)	17	13	15	14	9	17	12.5	12	15	13.5
Cyanide	<.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenols	NA	NA	NA	NA	NA	NA	0.43	0.565#	0.40	0.48
Total Organic Carbon (TOX)	NA	NA	NA	NA	NA	NA	2.6	8.9	0.25	0.29
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	NA	NA	NA	NA	50	72	76	280
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	P-3	P-4	P-4	P-4	P-4	P-5	P-5	P-5	P-5	P-6
Sample Date:	11/87	1/84	2/84	3/84	5/84	1/84	2/84	3/84	5/84	1 84
Laboratory:	ETC	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI	EEI
Metals (concentrations are in mg/L, except where noted)										
Antimony	<.066	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	<.00064	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	<.0023	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	<.015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	<.016	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	<.063	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	<.00024	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	<.013	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	<.005	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	<.011	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	<.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	0.062	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.7	6.0	7.0	6.9	6.5	6.0	7.0	6.9	6.5	6.0
Spec. conductance (umhos/cm)	2,500	1,250	390	600	900	875	350	350	380	850
Temperature (deg. centigrade)	17	NA	NA	NA	NA	11.5	13	14	13	NA
Cyanide	<.025	NA	13.5	13	13	NA	13	13	13	NA
Phenols	0.123	1.08	0.855#	0.73	0.46	1.72#	1.44	0.56#	0.52#	0.225#
Total Organic Carbon (TOX)	NA	10	7.2	0.68	0.46	3.5	4.5	0.29	0.17	1.5
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	3	86	70	55	7	90	35	24	16
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	P-6	P-6	P-6	P-6	P-6	P-6	P-6	P-6	P-6	P-6
Sample Date:	2/84	3/84	5/84	6/84	11/85	12/86	5/87	11/87	5/88	11/88
Laboratory:	EEI	EEI	EEI	EEI	ETC	ETC	ETC	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	<0.003	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	0.074	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	0.02	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	0.003	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	0.008	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	0.028	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	0.006	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	<0.0002	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	0.009	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	<0.001	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	<0.01	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	0.043	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	7.3	6.9	6.5	6.9	7.1	6.4	7.0	7.5	7.1	7.3
Spec. conductance (umhos/cm)	550	1,250	1,700	1,500	3,000	1,100	1,400	1,750	1,700	2,600
Temperature (deg. centigrade)	14	13	15	14	15	13	15	16	13	14
Cyanide	NA	NA	NA	<0.005	<0.025	NA	NA	< 025	NA	NA
Phenols	0.555#	1.6	0.44	0.045	0.0791	NA	NA	NA	NA	NA
Total Organic Carbon (TOX)	2.6	1.35#	0.62	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	20	38	24	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	P-6	P-6	P-6	P-7	P-7	P-7	P-7	P-7	P-7	P-7
Sample Date:	11/89	11/90	11/91	1/84	2/84	3/84	5/84	6/84	11/85	12/86
Laboratory:	ETC	ETC	ETC	EEI	EEI	EEI	EEI	EEI	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	0.004	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	0.004	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	0.005	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	0.007	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	0.023	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	<0.004	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	0.014	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	0.0047	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	0.177	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	<0.001	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	<0.01	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	<0.02	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	0.120	NA	NA
Miscellaneous Parameters										
pH	7.1	7.5	6.1	6	6.3	7.4	7	6.6	6.4	6.4
Spec. conductance (umhos/cm)	–	2,520	3,180	4,300	800	4,200	4,700	4,650	4,500	1,200
Temperature (deg. centigrade)	14	11	15	11	14	13	15	14	14	13
Cyanide	NA	NA	NA	NA	NA	NA	NA	<0.005	0.035	NA
Phenols	NA	NA	NA	260	260	360	270	130	134.5	NA
Total Organic Carbon (TOX)	NA	NA	NA	670	370	500	280	NA		NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA		NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA		
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	330	360	260	890	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	P-7	P-7	P-7	P-7	P-7	P-7	P-7	P-7	P-7	P-8
Sample Date:	5/87	3/87	11/87	5/88	11/88	3/89	11/89	11/90	11/91	1/84
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	ETC	EEI
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	< 057	NA	NA	NA	<0.06	NA	NA	NA	NA
Arsenic	NA	0.011	NA	NA	NA	<0.01	NA	NA	NA	NA
Beryllium	NA	< 00052	NA	NA	NA	<0.001	NA	NA	NA	NA
Cadmium	NA	<.0025	NA	NA	NA	<0.002	NA	NA	NA	NA
Chromium	NA	<.013	NA	NA	NA	<0.01	NA	NA	NA	NA
Copper	NA	<.0052	NA	NA	NA	<0.01	NA	NA	NA	NA
Lead	NA	<.0050	NA	NA	NA	<0.075	NA	NA	NA	NA
Mercury	NA	<.00022	NA	NA	NA	<0.0002	NA	NA	NA	NA
Nickel	NA	0.033	NA	NA	NA	<0.02	NA	NA	NA	NA
Selenium	NA	<.0050	NA	NA	NA	<0.005	NA	NA	NA	NA
Silver	NA	<.011	NA	NA	NA	<0.01	NA	NA	NA	NA
Thallium	NA	<.0050	NA	NA	NA	<0.01	NA	NA	NA	NA
Zinc	NA	0.120	NA	NA	NA	0.067	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.7	7.0	6.8	6.8	6.7	6.8	6.5	6.8	5.3	6.0
Spec. conductance (umhos/cm)	1,400	3,400	2,800	2,100	2,700	3,600	–	4,100	3,920	3,250
Temperature (deg. centigrade)	15	10	18	12	15	14	14	12	15	11
Cyanide	NA	<.025	0.041	NA	NA	<0.025	NA	NA	NA	NA
Phenols	NA	NA	NA	NA	NA	41.5	NA	NA	NA	10.8
Total Organic Carbon (TOX)	NA	NA	NA	NA	NA	NA	NA	NA	NA	74
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	2650	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	885
Iron	NA	22.4	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	<.088	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	0.027	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	0.140	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	<.052	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	0.022	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	34	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	14.8	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	P-8	P-8	P-8	P-8	P-8	P-8	P-8	P-8	P-8	P-8
Sample Date:	2/84	3/84	5/84	6/84	11/85	12/86	5/87	11/87	5/88	11/88
Laboratory:	EEI	EEI	EEI	EEI	ETC	ETC	ETC	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	<0.03	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	0.015	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	0.001	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	0.002	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	<0.2	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	0.009	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	0.011	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	<0.0002	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	0.01	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	<0.001	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	0.002	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	<0.002	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	0.05	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.6	6.7	6.5	6.8	6.9	6.4	6.8	6.8	6.6	6.5
Spec. conductance (umhos/cm)	490	1,500	900	800	2,300	1,260	800	3,700	3,300	4,900
Temperature (deg. centigrade)	13	12	14.5	13.5	14	13	15	16	14	15
Cyanide	NA	NA	NA	<0.005	0.033	NA	NA	0.065	NA	NA
Phenols	10.8	3.6	1.2	<0.005	0.34	NA	NA	NA	NA	NA
Total Organic Carbon (TOX)	77	22	0.46	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	140	140	120	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	P-8	P-8	P-8	P-8	P-9	P-9	P-9	P-9	P-10	P-10
Sample Date:	3/89	11/89	11/90	11/91	1/84	2/84	3/84	5/84	1/84	2/84
Laboratory:	ETC	ETC	ETC	ETC	EEI	EEI	EEI	EEI	EEI	EEI
Metals (concentrations are in mg/L, except where noted)										
Antimony	<0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	<0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	<0.075	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	<0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	<0.067	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	<0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	0.041	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.7	6.4	6.1	6.3	6.0	6.7	7.0	6.5	6.0	6.3
Spec. conductance (umhos/cm)	12,500	–	5,620	4,730	2,340	NA	775	900	1,450	440
Temperature (deg. centigrade)	14	15	11	16	12	13	13	14	9.5	14
Cyanide	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenols	24.5	NA	NA	NA	1.46	1.04	0.88	0.46	5.8	2.0#
Total Organic Carbon (TOX)	NA	NA	NA	NA	330	9.2	0.45	0.33	7.4	9.5
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	NA	NA	NA	150	91	42	330	160
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	P-10	P-10	P-10	P-10	P-11	P-11	P-11	P-11	P-11	P-11
Sample Date:	3/84	5/84	9/84	11/87	1/84	2/84	3/84	5/84	9/84	3/87
Laboratory:	EEI	EEI	EEI	ETC	EEI	EEI	EEI	EEI	EEI	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	0.018	NA	NA	NA	NA	NA	0.022	< 057
Arsenic	NA	NA	0.004	NA	NA	NA	NA	NA	0.008	0.043
Beryllium	NA	NA	<0.002	NA	NA	NA	NA	NA	<0.002	< 00052
Cadmium	NA	NA	<0.002	NA	NA	NA	NA	NA	<0.002	< 0025
Chromium	NA	NA	<0.004	NA	NA	NA	NA	NA	<0.004	< 013
Copper	NA	NA	<0.004	NA	NA	NA	NA	NA	<0.004	< 0052
Lead	NA	NA	<0.004	NA	NA	NA	NA	NA	<0.004	< 0050
Mercury	NA	NA	<0.0002	NA	NA	NA	NA	NA	<0.0002	< 00022
Nickel	NA	NA	<0.004	NA	NA	NA	NA	NA	0.012	< 0096
Selenium	NA	NA	<0.001	NA	NA	NA	NA	NA	<0.001	< 005
Silver	NA	NA	<0.01	NA	NA	NA	NA	NA	<0.01	< 01
Thallium	NA	NA	0.067	NA	NA	NA	NA	NA	0.07	< 0050
Zinc	NA	NA	0.066	NA	NA	NA	NA	NA	0.049	0.040
Miscellaneous Parameters										
pH	6.9	6.5	7.1	6.9	6.0	5.6	6.9	6.0	7.3	7.7
Spec. conductance (umhos/cm)	700	730	850	1,550	1,550	550	800	650	800	1,000
Temperature (deg. centigrade)	13	13	19.5	16	13	14	13	13	18	11
Cyanide	NA	NA	NA	0.029	NA	NA	NA	NA	NA	< 025
Phenols	1.15#	0.61	NA	NA	0.74#	1.00	0.50	0.31	NA	NA
Total Organic Carbon (TOX)	6.1	0.39	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	NA	NA	570	NA	NA	NA	NA	NA	NA	
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	110	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	35	39	52	NA	230	81	91	55	48	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 088
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.155
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 026
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 052
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 011
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.54
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.31

See last page for footnotes.

Well Number:	P-11	P-12	P-12	P-12	P-12	P-12	P-12	P-13	P-13	P-13
Sample Date:	11/87	1/84	2/84	3/84	5/84	9/84	11/87	1/84	2/84	3/84
Laboratory:	ETC	EEI	EEI	EEI	EEI	EEI	ETC	EEI	EEI	EEI
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	0.017	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	0.009	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	<0.002	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	<0.002	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	<0.004	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	<0.004	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	<0.004	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	<0.004	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	<0.01	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	0.043	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	0.056	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.9	6.7	5.3	6.6	6.5	7.2	6.9	6.9	6.9	6.8
Spec. conductance (umhos/cm)	1,300	1,000	440	500	580	600	1,680	1,500	1,100	950
Temperature (deg. centigrade)	17	11	14	13	11	18	15	5	14	13
Cyanide	<.025	NA	NA	NA	NA	NA	0.027	NA	NA	NA
Phenols	NA	19	5	1.4	1.3	NA	18.9	0.94	0.15	0.19
Total Organic Carbon (TOX)	NA	320	0.8	2.3	0.47	NA	NA	200	2.5	0.36
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	482	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	76	120	12	22	27	NA	69	46	57
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	P-13	P-13	P-13	P-13	P-13	P-13	P-13	P-13	P-13	P-13
Sample Date:	5/84	6/84	6/84*	6/84**	11/85	12/86	5/87	/87	5/88	11/88
Laboratory:	EEI	EEI	EEI	EEI	ETC	ETC	ETC	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	0.004	0.004	<0.1	NA	NA	NA	NA	NA	NA
Arsenic	NA	0.093	0.013	0.014	NA	NA	NA	NA	NA	NA
Beryllium	NA	0.134	0.192	<0.005	NA	NA	NA	NA	NA	NA
Cadmium	NA	0.002	0.002	<0.007	NA	NA	NA	NA	NA	NA
Chromium	NA	0.005	0.006	<0.02	NA	NA	NA	NA	NA	NA
Copper	NA	0.006	<0.004	<0.01	NA	NA	NA	NA	NA	NA
Lead	NA	0.005	0.004	<0.1	NA	NA	NA	NA	NA	NA
Mercury	NA	<0.0002	<0.0002	<0.003	NA	NA	NA	NA	NA	NA
Nickel	NA	0.004	0.005	<0.01	NA	NA	NA	NA	NA	NA
Selenium	NA	0.001	<0.001	<0.005	NA	NA	NA	NA	NA	NA
Silver	NA	<0.01	<0.01	<0.01	NA	NA	NA	NA	NA	NA
Thallium	NA	<0.02	<0.02	<0.005	NA	NA	NA	NA	NA	NA
Zinc	NA	0.020	0.06	<0.01	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters										
pH	6.5	7.0	7.0	7.0	6.9	7.2	6.9	6.9	6.9	6.7
Spec. conductance (umhos/cm)	950	1,000	1,000	1,100	2,000	1,700	1,100	1,300	1,800	3,700
Temperature (deg. centigrade)	13	14	14	14	14	13	15	16	13	15
Cyanide	NA	<0.005	<0.025	<0.005	<0.025	NA	NA	< 025	NA	NA
Phenols	0.22	0.06	0.06	<0.05	0.099	NA	NA	0.2	NA	NA
Total Organic Carbon (TOX)	0.30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	P-13	P-13	P-13	P-14	P-14	P-14	P-14	P-14	P-14	P-14
Sample Date:	11/89	11/90	11/91	1/84	2/84	3/84	5/84	6/84	11/85	12/86
Laboratory:	ETC	ETC	ETC	EEI	EEI	EEI	EEI	EEI	ETC	ETC
Metals (concentrations are in mg/L, except where noted)										
Antimony	NA	NA	NA	NA	NA	NA	NA	0.018	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	0.101	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	0.057	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	0.006	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	0.01	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	0.008	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	<0.004	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	<0.01	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	<0.001	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	<0.01	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	<0.02	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	0.04	NA	NA
Miscellaneous Parameters										
pH	6.4	7.1	5.3	6.7	6.8	6.7	6.5	6.8	NA	7.0
Spec. conductance (umhos/cm)	–	1,460	5,730	2,850	1,200	2,700	3,100	2,800	NA	2,500
Temperature (deg. centigrade)	15	13	16	12	15.5	14	13	14	NA	13
Cyanide	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.025	NA
Phenols	NA	NA	NA	1.41#	0.64	0.48	0.38	0.06	0.143	NA
Total Organic Carbon (TOX)	NA	NA	NA	300	14	0.65	1.8	NA	NA	NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	NA	160	44	87	42	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See last page for footnotes.

Well Number:	P-14	P-14	P-14	P-14	P-14	P-14	P-14
Sample Date:	5/87	11/87	5/88	11/88	11/89	11/90	11/91
Laboratory:	ETC	ETC	ETC	ETC	ETC	ETC	ETC
Metals (concentrations are in mg/L, except where noted)							
Antimony	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA
Miscellaneous Parameters							
pH	7.0	7.4	7.4	7.2	7.1	6.8	5.9
Spec. conductance (umhos/cm)	2,650	2,750	2,400	3,400	–	3580	3990
Temperature (deg. centigrade)	15	18	13	15	15	6	16
Cyanide	NA	<.025	NA	NA	NA	NA	NA
Phenols	NA	0.160	NA	NA	NA	NA	NA
Total Organic Carbon (TOX)	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)	NA	NA	NA	NA	NA	NA	NA
Bicarbonate, as CACO3	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA
Sulfate, as SO4	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA
Boron	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA

* Replicate sample.
NA Not analyzed.
+ Cold weather prevented proper operation of the field instrument.
a Malfunctioning probe.
Average of two analyses.
EEI Envirodyne Engineers Inc., St. Louis, Missouri.
ETC Environmental Testing and Certification, Edison, New Jersey.
SL Savannah Laboratories and Environmental Testing, Savannah, Georgia.
SLES Savannah Laboratories and Environmental Services, Inc. Savannah, Georgia (formerly Savannah Laboratories and Environmental Testing, Savannah, Georgia).
B Concentration is between the contract required detection limit and the instrument detection limit.

SAUGET Analytical Data
Site R

GROUNDWATER SAMPLES
Total Metals and Misc.(mg/L unless otherwise noted)
Collected by IEPA

	Sample Number	MW - 5	RANNEY WELL	MW - 1	MW - 2	MW - 3	MW - 4	MW - 5	RANNEY WELL	MW - 2	MW - 4
	Sample Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	Date Collected	2/22/73	2/22/73	5/6/74	5/6/74	5/6/74	5/6/74	5/6/74	5/6/74	10/28/75	10/28/75
Metals											
Calcium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia		1.3	0.98	NA	NA	NA	NA	NA	NA	ND	ND
Arsenic		NA	NA	0.001	0.001	0.005	ND	0.001	0.002	ND	0.002
Barium		NA	NA	0.1	0.3	0.2	0.1	0.2	0.2	0.1	0.1
Boron		NA	NA	0.3	0.9	8.4	0.2	0.1	ND	0.9	0.5
Cadmium		NA	NA	ND	0.02	ND	ND	ND	ND	ND	ND
Cyanide		NA	NA	ND	0.008	ND	ND	ND	0.005	0.02	0.01
Chromium (total)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron		6.6	1.9	15	43.2	11.9	2.71	7.5	2.65	13.4	1.45
Lead		NA	NA	0.008	0.01	ND	0.008	0.014	0.95	ND	0.01
Manganese		1.05	0.92	0.69	1.4	1.1	0.2	0.9	0.95	0.2	0.1
Mercury		0.0002	ND	NA	NA	NA	NA	NA	NA	NA	NA
Nickel		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		1.5	ND	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride		NA	NA	90	215	30	17	16	25	200	23
Fluoride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate		NA	NA	ND	ND	ND	ND	ND	0.4	0.3	0.2
Phosphate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate		NA	NA	220	78	305	48	41	31	6	22
Conductivity (mmhos)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenols		ND	7.5	0.35	120	0.1	0.02	0.1	15	1.1	0.025
Oil		NA	NA	4	7	1	ND	ND	5	6	2
Hardness		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COD		13	220	44	990	21	14	17	340	210	12
BOD		1	85	NA	NA	NA	NA	NA	NA	NA	NA
R.O.E		NA	NA	72	1600	750	270	240	820	920	230
Selenium		NA	NA	N	ND	ND	ND	ND	ND	ND	ND
PCBs (µg/l)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

mg/L - Milligrams per liter.
NA - Parameter not analyzed.
ND - Not detected.
µg/L - Micrograms per liter.

SAUGET Analytical Data
Site R

GROUNDWATER SAMPLES
Total Metals and Misc.(mg/L unless otherwise noted)
Collected by IEPA

Sample Number	MW - 1	MW - 2	MW - 3	MW - 5	Pond 221	Pond 270	Spent Pond	MW - 1	MW - 2	MW - 4
Sample Type	Groundwater	Groundwater	Groundwater	Groundwater	Surface water	Surface water	Surface water	Groundwater	Groundwater	Groundwater
Date Collected	12/5/72	12/5/72	12/5/72	12/5/72	1/18/73	1/18/73	1/18/73	2/22/73	2/22/73	2/22/73
Metals										
Calcium	50.2	147	36	49	NA	NA	NA	NA	NA	NA
Magnesium	15.8	36	18	18.5	NA	NA	NA	NA	NA	NA
Sodium	18.5	112	15	18.5	NA	NA	NA	NA	NA	NA
Potassium	3.6	6.7	4.2	3.5	NA	NA	NA	NA	NA	NA
Ammonia	1.5	2	0.65	0.92	NA	NA	NA	1.6	2.6	0.7
Arsenic	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	0.1	0.7	0.1	0.1	NA	NA	NA	NA	NA	NA
Cadmium	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (total)	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Copper	ND	0.1	ND	ND	NA	NA	NA	NA	NA	NA
Iron	2.4	28.2	1.4	8.5	NA	NA	NA	6.8	11	0.8
Lead	ND	ND	ND	0.02	NA	NA	NA	NA	NA	NA
Manganese	0.35	0.61	0.12	0.95	NA	NA	NA	0.35	0.55	0.05
Mercury	ND	ND	ND	ND	NA	NA	NA	0.0004	ND	ND
Nickel	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Zinc	0.4	1.42	0.21	2.05	NA	NA	NA	1.9	0.6	ND
Alkalinity	180	430	145	185	NA	NA	NA	NA	NA	NA
Chloride	22	225	22	22	NA	NA	NA	NA	NA	NA
Fluoride	0.2	0.2	0.2	2	NA	NA	NA	NA	NA	NA
Nitrate	0.1	0.3	0.1	0.1	NA	NA	NA	NA	NA	NA
Phosphate	0.003	0.21	0.05	0.34	NA	NA	NA	NA	NA	NA
Sulfate	16	12	29	32	NA	NA	NA	NA	NA	NA
Conductivity (mmhos)	445	1400	390	470	NA	NA	NA	NA	NA	NA
Phenols	0.088	0.2	0.007	0.014	2800	50000	2000	0.15	0.08	ND
Oil	1	0	1	0	NA	NA	NA	NA	NA	NA
Hardness	200	530	170	200	NA	NA	NA	NA	NA	NA
COD	46	135	3	8	NA	NA	NA	51	78	16
BOD	NA	NA	NA	NA	NA	NA	NA	31	48	1
R.O.E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (µg/l)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

mg/L - Milligrams per liter.
NA - Parameter not analyzed.
ND - Not detected.
µg/L - Micrograms per liter.

recycled paper

SAUGET Analytical Data
Site R

GROUNDWATER SAMPLES
Total Metals and Misc.(mg/L unless otherwise noted)
Collected by IEPA

	Sample Number	B-9S	B-9D	B-13D	B-15S	B-17S	B-19S	Maximum
	Sample Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Concentration
	Date Collected	10/12/79	10/12/79	10/12/79	10/12/79	10/12/79	10/12/79	Detected
Metals								
Calcium		NA	NA	NA	NA	NA	NA	147
Magnesium		31	10	27	83	11	28	83
Sodium		NA	NA	NA	NA	NA	NA	112
Potassium		NA	NA	NA	NA	NA	NA	6.7
Ammonia		NA	NA	NA	NA	NA	NA	2.6
Arsenic		0.01	0.004	0.002	0.002	0.002	0.007	0.01
Barium		NA	NA	NA	NA	NA	NA	0.3
Boron		NA	NA	NA	NA	NA	NA	8.4
Cadmium		0.02	ND	0.01	ND	ND	0.01	0.02
Cyanide		NA	NA	NA	NA	NA	NA	0.02
Chromium (total)		0.03	ND	0.04	ND	ND	0.03	0.04
Copper		1.2	0.32	0.87	0.14	0.42	1.6	1.6
Iron		290	100	130	56	110	230	290
Lead		0.2	ND	0.3	ND	0.1	0.2	0.95
Manganese		7.6	1	1.4	1.6	0.99	2.6	7.6
Mercury (ug/L)		NA	NA	NA	NA	NA	NA	0.0004
Nickel		0.6	0.2	1.9	0.1	0.1	0.2	1.9
Zinc		3.3	0.36	3	0.4	0.52	0.87	3.3
Alkalinity		NA	NA	NA	NA	NA	NA	430
Chloride		NA	NA	NA	NA	NA	NA	410
Fluoride		NA	NA	NA	NA	NA	NA	2
Nitrate		NA	NA	NA	NA	NA	NA	0.8
Phosphate		NA	NA	NA	NA	NA	NA	0.34
Sulfate		NA	NA	NA	NA	NA	NA	305
Conductivity (mmhos)		NA	NA	NA	NA	NA	NA	1400
Phenols		21	56	10	14.3	41.5	22	50000
Oil		NA	NA	NA	NA	NA	NA	7
Hardness		NA	NA	NA	NA	NA	NA	530
COD		NA	NA	NA	NA	NA	NA	990
BOD		NA	NA	NA	NA	NA	NA	85
R.O.E		NA	NA	NA	NA	NA	NA	1600
Selenium		NA	NA	NA	NA	NA	NA	0.02
PCBs (ppb)		NA	NA	NA	NA	NA	NA	7.7
Aliphatic hydrocarbons		ND	ND	ND	*	*	*	ND
Chlorophenol		*	*	ND	ND	ND	0.81	0.81
Chlorotoluene		70	40	10	0.34	11	18	70
Dichlorobenzene		ND	ND	ND	ND	ND	1.6	1.6
Diphenylether		ND	ND	ND	ND	0.32	2.1	2.1

mg/L - Milligrams per liter.
NA - Parameter not analyzed.
ND - Not detected.
µg/L - Micrograms per liter.
* - Contaminants present, but not quantified.

SAUGET Analytical Data
Site R

GROUNDWATER SAMPLES
Total Metals and Misc.(mg/L unless otherwise noted)
Collected by IEPA

	Sample Number	MW - 5	RANNEY WELL	MW - 1	MW - 2	MW - 3	MW - 4	MW - 5	RANNEY WELL
	Sample Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	Date Collected	10/28/75	10/28/75	2/17/76	2/17/76	2/17/76	2/17/76	2/17/76	2/17/76
Metals									
Calcium		NA	NA	NA	NA	NA	NA	NA	NA
Magnesium		NA	NA	NA	NA	NA	NA	NA	NA
Sodium		NA	NA	NA	NA	NA	NA	NA	NA
Potassium		NA	NA	NA	NA	NA	NA	NA	NA
Ammonia		ND	ND	NA	NA	NA	NA	NA	NA
Arsenic		ND	0.002	ND	ND	ND	ND	ND	0.001
Barium		0.2	0.1	ND	ND	ND	0.2	0.3	0.1
Boron		0.2	0.7	0.3	0.8	8	0.5	0.1	1.4
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND
Cyanide		ND	ND	0.01	0.01	0.01	0.01	0.01	0.01
Chromium (total)		NA	NA	NA	NA	NA	NA	NA	NA
Copper		NA	NA	NA	NA	NA	NA	NA	NA
Iron		11	4.5	5.1	19.5	4.3	0.7	7.1	4.6
Lead		0.04	0.02	0.01	0.02	ND	ND	0.02	ND
Manganese		0.7	1.3	0.27	0.27	0.1	0.1	0.85	1.45
Mercury (ug/L)		NA	NA	NA	NA	NA	NA	NA	NA
Nickel		NA	NA	NA	NA	NA	NA	NA	NA
Zinc		NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity		NA	NA	NA	NA	NA	NA	NA	NA
Chloride		20	110	60	410	65	35	35	250
Fluoride		NA	NA	NA	NA	NA	NA	NA	NA
Nitrate		0.1	ND	0.8	0.1	ND	ND	ND	0.3
Phosphate		NA	NA	NA	NA	NA	NA	NA	NA
Sulfate		15	95	110	20	100	44	36	180
Conductivity (mmhos)		NA	NA	NA	NA	NA	NA	NA	NA
Phenols		0.013	19	0.03	0.01	ND	ND	ND	ND
Oil		3	3	NA	NA	NA	NA	NA	NA
Hardness		NA	NA	NA	NA	NA	NA	NA	NA
COD		16	345	28	130	8	16	15	390
BOD		NA	NA	NA	NA	NA	NA	NA	NA
R.O.E		200	300	370	890	260	220	260	900
Selenium		ND	0.02	ND	ND	ND	ND	ND	ND
PCBs (µg/l)		NA	NA	ND	ND	ND	ND	ND	7.7

mg/L - Milligrams per liter.
NA - Parameter not analyzed.
ND - Not detected.
µg/L - Micrograms per liter.

recycled paper
PRINTED ON RECYCLED PAPER

SAUGET Analytical Data
Site R

GROUNDWATER SAMPLES
Organic Compounds (µg/L)
Collected by IEPA

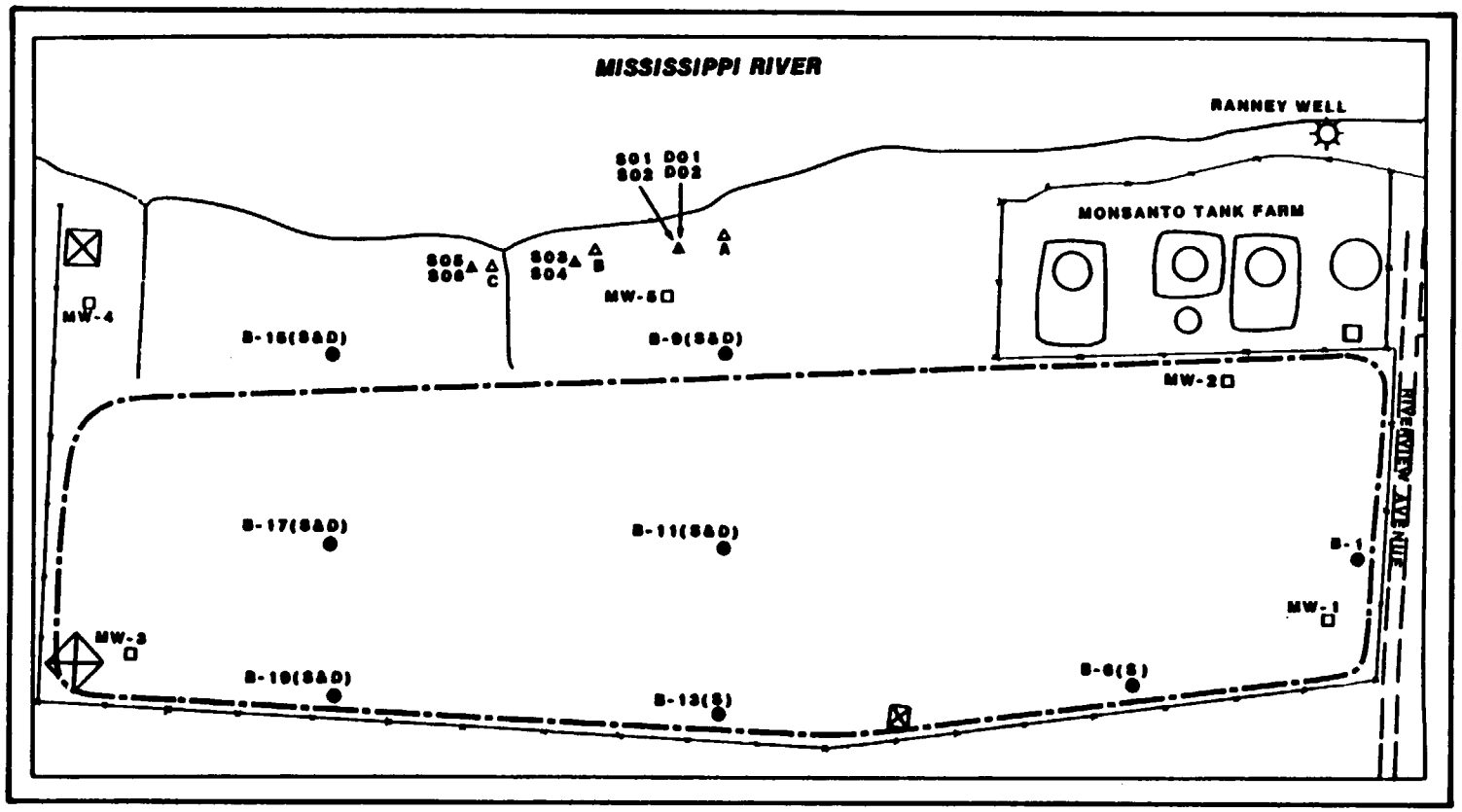
	Sample Number	B-1	B-6S	B-9S	B-9D	B-11S	B-11D	B-15D	B-17D	B-19D	Maximum
	Well Number	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Surface water	Groundwater	Groundwater	Concentration
	Date Collected	3/25/81	3/25/81	3/25/81	3/25/81	3/25/81	3/25/81	3/25/81	3/25/81	3/25/81	Detected
Organics											
Aliphatic hydrocarbons		ND	ND	ND	ND	4000	ND	ND	ND	ND	4000
Biphenylamine		1800	250	ND	ND	15000	1100	1300	860	660	15000
Chlorobenzene		3000	130	720	810	1000	2800	2800	650	300	3000
Chlorophenol		6600	5300	11000	12000	13000	3200	3200	ND	950	13000
Chloronitrobenzene		ND	ND	2500	1500	ND	ND	ND	ND	ND	2500
Dichlorobenzene		2600	ND	ND	ND	1000	800	930	420	360	2600
Dichlorophenol		1100	700	ND	ND	ND	630	2900	670	ND	2900
Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	1200	ND	1200

µg/L - Micrograms per liter.
ND - Not detected.

recycled paper

ecology and environment

recycled paper



LEGEND

A	IEPA LEACHATE & SEDIMENT SAMPLING LOCATION
S01	USEPA - FIT LEACHATE & SEDIMENT SAMPLING LOCATION
D01	DUPLICATE SAMPLE
MW-1	IEPA MONITORING WELL SAMPLING LOCATION (PRIOR TO 1979)
B-1	IEPA MONITORING WELL SAMPLING LOCATION (1979-1981)

SCALE
0 100 400 800 FEET

FIGURE R-1
STATE AND USEPA SAMPLING LOCATIONS AT SITE R.

ecology and environment

Site R Groundwater Data

Post - 1992

Table 5-15. Summary of Target Compound List Semivolatile Organic Compound Parameters Detected in Groundwater Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

	Shallow Zone				Intermediate Zone				
Sample Identification	P-6	P-7	P-14	GM-62A	GM-27B	GM-28B	P-1	P-2	P-3
Sample Date	6/3/92	6/4/92	6/5/92	6/10/92	6/9/92	6/5/92	6/3/92	6/3/92	6/3/92
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameters									
Aniline	--	2600 DJ	2 J	--	2400000 DJ	--	--	--	160 DJ
Phenol	34 J	18000 DJ	7 J	--	--	2500 J	--	47000 J	--
2-Chlorophenol	9 J	640 J	68 J	--	--	--	20 J	11000 J	--
1,3-Dichlorobenzene	--	--	--	--	--	--	3 J	--	--
1,4-Dichlorobenzene	13 J	190 J	22 J	--	13000 J	--	24 J	--	--
1,2-Dichlorobenzene	11 J	120 J	12 J	--	--	6500 J	4 J	2200 J	0.7 J
2-Methylphenol	--	--	--	--	--	--	--	--	--
4-Methylphenol	--	27 J	--	--	7100 J	--	--	9800 J	--
Nitrobenzene	--	88 J	--	--	--	--	--	--	--
2-Chloroaniline	530 J	85000 D	--	--	--	130000 DJ	62 J	41000 J	68 J
2,4-Dimethylphenol	--	--	--	--	--	--	--	2400 J	19 J
2,4-Dichlorophenol	--	1500 J	2 J	--	--	6000 J	--	12000 J	0.7 J
1,2,4-Trichlorobenzene	--	5 J	--	--	--	--	--	--	--
Naphthalene	--	93 J	--	--	--	--	1 J	11000 J	--
3-Chloroaniline	270 DJ	4700 DJ	47 J	--	500000 DJ	220000 DJ	1700 DJ	35000 J	1400 DJ
4-Chloroaniline	1600 DJ	22000 DJ	200 J	--	1000000 DJ	320000 DJ	450 DJ	44000 J	680 DJ
2,4,6-Trichlorophenol	--	450 J	--	--	--	--	--	3800 J	0.4 J
Acenaphthene	--	--	--	--	--	--	--	--	0.2 J
4-Nitrophenol	--	84 J	--	--	--	--	--	--	--
Phenanthrene	--	--	--	--	--	--	0.6 J	--	0.4 J
Di-n-butylphthalate	--	--	--	--	--	--	--	--	0.2 J
Fluoranthene	--	--	--	--	--	--	1 J	--	0.2 J
Pyrene	--	--	--	--	--	--	0.6 J	--	--
Butylbenzylphthalate	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	--	--	--	3 J	--	--	2 J	--	--
Di-n-octylphthalate	--	--	--	--	--	--	--	--	--
Total SVOCs	2467	135497	360	3	3920100	685000	2268.2	219200	2329.8

ug/L	Micrograms per liter.
J	Estimated value.
E	Compound exceeded the calibration range.
D	Compound determined at a secondary dilution factor.
--	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

recycled paper

ecology and environment

Table 5-15. Summary of Target Compound List Semivolatile Organic Compound Parameters Detected in Groundwater Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameters	Sample Identification:	P-8	P-10	P-11	P-12	P-13	GM-62B	GM-62B Dup	GM-27C	GM-28C
	Sample Date:	6/4/92	6/4/92	6/4/92	6/4/92	6/8/92	6/9/92	6/9/92	6/9/92	6/8/92
	Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
		Intermediate Zone							Deep Zone	
Aniline		40000 J	19000 J	95000 DJ	–	86000 DJ	30 J	14 J	92000 DJ	1200 J
Phenol		57000 J	83000 J	5400 J	120000 DJ	–	–	–	–	310 J
2-Chlorophenol		13000 J	26000 J	–	21000 DJ	–	–	–	–	92 J
1,3-Dichlorobenzene		–	–	–	–	–	–	–	–	–
1,4-Dichlorobenzene		–	–	–	–	–	–	–	–	140 J
1,2-Dichlorobenzene		–	–	300 J	1500 J	200 J	3 J	2 J	1200 J	220000 DJ
2-Methylphenol		–	–	34 J	960 J	–	9 J	1 J	–	–
4-Methylphenol		–	–	–	3400 DJ	–	–	–	–	–
Nitrobenzene		1800 J	5400 J	2700 J	150 J	–	–	–	–	–
2-Chloroaniline		3600 J	2500 J	–	13000 EJ	1200 J	–	–	–	15000 EJ
2,4-Dimethylphenol		100000 EJ	140000 J	–	480 J	39 J	–	–	22000 J	–
2,4-Dichlorophenol		430 J	920 J	580 J	25000 DJ	–	–	–	–	760 J
1,2,4-Trichlorobenzene		10000 J	18000 J	170 J	–	–	1 J	1 J	–	76 J
Naphthalene		–	–	–	13000 DJ	–	–	–	–	–
3-Chloroaniline		11000 J	–	–	5400 DJ	5800 EJ	16 J	–	77000 J	1400000 DJ
4-Chloroaniline		18000 J	9700 J	22000 J	10000 DJ	4300 EJ	19 J	5 J	49000 J	2300000 DJ
2,4,6-Trichlorophenol		59000 J	29000 J	38000 J	6400 DJ	–	–	0.6 J	–	120 J
Acenaphthene		830 J	–	–	–	–	–	–	–	–
4-Nitrophenol		–	–	–	–	–	–	–	–	–
Phenanthrene		–	–	–	–	–	–	–	–	–
Di-n-butylphthalate		–	–	–	–	–	–	–	–	–
Fluoranthene		–	–	–	–	–	–	–	–	–
Pyrene		–	–	73 J	–	–	–	–	–	–
Butylbenzylphthalate		–	–	–	–	–	–	–	–	–
bis(2-Ethylhexyl)phthalate		–	–	–	–	–	–	–	–	–
Di-n-octylphthalate		–	–	–	–	–	–	–	–	–
Total SVOCs		314660	333520	164257	220290	97539	95	52.8	241200	3937731

ug/L	Micrograms per liter.
J	Estimated value.
E	Compound exceeded the calibration range.
D	Compound determined at a secondary dilution factor.
–	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

SEMIWTR(

Table 5-14. Summary of Target Compound List Volatile Organic Compounds Detected in Groundwater Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

	Shallow Zone				Intermediate Zone				
Sample Identification:	P-6	P-7	P-14	GM-62A	GM-27B	GM-28B	P-1	P-2	P-3
Sample Date:	6/3/92	6/4/92	6/5/92	6/10/92	6/9/92	6/5/92	6/3/92	6/3/92	6/3/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameters									
Methylene chloride	--	--	--	--	--	--	--	--	--
Acetone	--	--	--	--	--	36 J	--	--	--
Carbon disulfide	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	--	--	--	--	--	--	--	--	--
1,2-Dichloroethene (total)	--	--	--	--	--	--	--	--	--
Chloroform	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--	--
Trichloroethene	--	--	--	0.8 J	--	--	--	--	--
Benzene	94	1100	--	--	1300 J	14 J	100	390	120
4-Methyl-2-pentanone	--	--	--	--	--	--	--	470	40 J
Tetrachloroethene	--	--	--	--	--	--	--	--	--
Toluene	--	95 J	--	--	740 J	26 J	--	340	--
Chlorobenzene	230	1700	34000	--	13000	460	1800	3900	420
Ethylbenzene	--	--	--	--	--	14 J	--	90 J	5 J
Xylenes	--	--	--	--	560 J	--	--	170 J	--
Total VOCs	324	2895	34000	0.8	15600	550	1900	5360	585

ug/L Micrograms per liter.
J Estimated value.
-- Not detected.
VOCs Volatile organic compounds.

Only those compounds detected are listed.

recycled paper

ecology and environment

Table 5-14. Summary of Target Compound List Volatile Organic Compounds Detected in Groundwater Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

	Intermediate Zone							Deep Zone	
Sample Identification:	P-8	P-10	P-11	P-12	P-13	GM-62B	GM-62B Dup	GM-27C	GM-28C
Sample Date:	6/4/92	6/4/92	6/4/92	6/4/92	6/8/92	6/9/92	6/9/92	6/9/92	6/8/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameters									
Methylene chloride	270 J	240 J	--	--	--	--	--	--	--
Acetone	17000 J	--	--	--	--	--	--	--	--
Carbon disulfide	--	--	--	--	--	4 J	3 J	--	--
1,1-Dichloroethane	--	--	--	--	--	4 J	4 J	--	--
1,2-Dichloroethene (total)	--	--	--	--	--	2 J	2 J	--	--
Chloroform	--	180 J	--	--	--	--	--	--	--
1,2-Dichloroethane	2400	16000	840 J	5600	--	--	--	--	--
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--	--
Trichloroethene	--	160 J	--	360 J	--	--	--	--	--
Benzene	2700 J	4600 J	2400 J	4300 J	2300	1 J	1 J	560	38 J
4-Methyl-2-pentanone	1900	1800	730 J	660 J	--	--	--	--	--
Tetrachloroethene	--	--	--	510 J	--	--	--	--	--
Toluene	530 J	2300	4800	2600	220 J	--	--	60 J	31 J
Chlorobenzene	4200	8600	7000	12000	4500	19	19	3400	1300
Ethylbenzene	--	--	410 J	260 J	42 J	--	--	25 J	14 J
Xylenes	--	700 J	340 J	960 J	63 J	--	--	--	44 J
Total VOCs	29000	34580	16520	27250	7125	30	29	4045	1427

ug/L Micrograms per liter.
J Estimated value.
-- Not detected.
VOCs Volatile organic compounds.

Only those compounds detected are listed.

Table 5-16. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Groundwater Samples, Sauget Site R, Monanto Company, Sauget, Illinois.

	Shallow Zone				Intermediate Zone					
Sample Location:	P-6	P-7	P-14	GM-62A	GM-27B	GM-28B	P-1	P-2	P-3	P-8
Sample Date:	6/3/92	6/4/92	6/5/92	6/9/92	6/9/92	6/5/92	6/3/92	6/3/92	6/3/92	6/4/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter										
Pesticides/PCBs										
alpha-BHC	--	--	--	--	--	--	--	--	--	--
beta-BHC	--	--	--	--	0.057 P	0.063 P	--	--	--	--
delta-BHC	--	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	--	--	--	--	--	--	--	--	--	--
Heptachlor	--	--	--	--	--	--	--	--	--	--
Aldrin	--	--	--	--	R	--	--	--	--	--
Heptachlor epoxide	--	--	--	--	--	--	--	--	--	--
Endosulfan I	--	--	--	--	0.17 P	--	--	--	--	--
Dieldrin	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	--	--	--	--	--	--	--	--	--	--
Endrin	--	--	--	--	0.15 P	--	--	--	--	--
Endosulfan II	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	--	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	--	--	--	--	--	--	--	--	--	--
Methoxychlor	--	--	--	--	--	--	--	--	--	--
Endrin ketone	--	--	--	--	--	--	--	--	--	--
Endrin aldehyde	--	R	--	--	--	--	--	--	--	--
alpha-Chlordane	--	--	--	--	--	--	--	--	--	--
gamma-Chlordane	--	--	--	--	--	--	--	--	--	--
Toxaphene	--	--	--	--	--	--	--	--	--	--
Aroclor-1016	--	--	--	--	--	--	--	--	--	--
Aroclor-1221	--	--	--	--	--	--	--	--	--	--
Aroclor-1232	--	--	--	--	--	--	--	--	--	--
Aroclor-1242	--	--	--	--	--	--	--	--	--	--
Aroclor-1248	--	--	--	--	--	--	--	--	--	--
Aroclor-1254	--	--	--	--	--	--	--	--	--	--
Aroclor-1260										
Herbicides										
2,4-D	NA	850	NA	NA	--	8.1	NA	NA	NA	NA
2,4,5-T	NA	--	NA	NA	--	1.1	NA	NA	NA	NA

ug/L Micrograms per liter.
-- Not detected.
NA Not analyzed.
P Precision criteria were not met.
R Unusable value.
N Presumptive evidence of the compound is present.
J Estimated value.
PCBs Polychlorinated biphenyls.

recycled paper

ecology and environment

Table 5-16. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Groundwater Samples, Sauget Site R, Monanto Company, Sauget, Illinois

Parameter	Sample Location	P-10	P-11	P-12	P-13	GM-62B	GM-62B Dup	GM-27C	GM-28C	GM-55C	GM-56C
	Sample Date	6/4/92	6/4/92	6/4/92	6/8/92	6/9/92	6/9/92	6/9/92	6/8/92	6/8/92	6/5/92
	Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
		Intermediate Zone						Deep Zone			
Pesticides/PCBs											
alpha-BHC		--	--	--	R	--	--	--	--	--	--
beta-BHC		--	--	--	R	--	--	--	--	--	--
delta-BHC		--	--	--	R	--	--	--	--	--	--
gamma-BHC (Lindane)		--	--	--	R	--	--	--	--	--	--
Heptachlor		--	--	--	R	--	--	--	--	--	--
Aldrin		--	--	--	R	--	--	--	--	--	--
Heptachlor epoxide		--	--	--	R	--	--	--	--	--	--
Endosulfan I		--	R	--	R	--	--	--	--	--	--
Dieldrin		--	--	--	R	--	--	--	--	--	--
4,4'-DDE		--	--	--	R	--	--	--	--	--	--
Endrin		--	--	--	R	--	--	--	--	--	--
Endosulfan II		--	--	--	R	--	--	--	--	--	--
4,4'-DDD		--	--	--	R	--	--	--	--	--	--
Endosulfan sulfate		--	--	--	0.10 J	--	--	--	--	--	0.062 P
4,4'-DDT		--	--	--	R	--	--	--	--	--	--
Methoxychlor		--	--	--	R	--	--	--	--	--	--
Endrin ketone		--	--	--	R	--	--	--	--	--	--
Endrin aldehyde		--	--	--	R	--	--	--	--	--	--
alpha-Chlordane		--	--	--	R	--	--	--	--	--	3.4 JN
gamma-Chlordane		--	--	--	R	--	--	--	--	--	--
Toxaphene		--	--	--	R	--	--	--	--	--	--
Aroclor-1016		--	--	--	R	--	--	--	--	--	--
Aroclor-1221		--	--	--	R	--	--	--	--	--	--
Aroclor-1232		--	--	--	R	--	--	--	--	--	--
Aroclor-1242		--	--	--	R	--	--	--	--	--	--
Aroclor-1248		--	--	--	R	--	--	--	--	--	--
Aroclor-1254		--	--	--	R	--	--	--	--	--	--
Aroclor-1260		--	--	--	R	--	--	--	--	--	--
Herbicides											
2,4-D		NA	NA	22000	NA	NA	NA	NA	NA	NA	15
2,4,5-T		NA	NA	--	NA	NA	NA	NA	NA	NA	19

ug/L Micrograms per liter.
-- Not detected.
NA Not analyzed.
P Precision criteria were not met.
R Unusable value.
N Presumptive evidence of the compound is present.
J Estimated value.
PCBs Polychlorinated biphenyls.

Only those compounds detected are listed.

NOTE: THE DATA PRESENTED IN THIS SECTION PERTAINS TO SAMPLES COLLECTED FROM SITE "R" AFTER MONSANTO SIGNED THE CONSENTORDER IN 1992. THIS DATA IS PRESENTED IN THE ORIGINAL REPORT FORMAT.

SOURCE: "Remedial Investigation at Sauget Site R", Monsanto Company, Sauget, Illinois, prepared by Geraghty & Miller, August 1994

VOLUME I
REMEDIAL INVESTIGATION
AT SAUGET SITE R
MONSANTO COMPANY, SAUGET, ILLINOIS

RECEIVED
JUL 31 1997
IEPA/BOL

August 1994

Prepared for

Monsanto Company
800 North Lindbergh Boulevard
St. Louis, Missouri 63167

Prepared by

Geraghty & Miller, Inc.
125 East Bethpage Road
Plainview, New York 11803
(516) 249-7600

SCREENED
M M

ORIGINAL

Table 5-16. Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Groundwater Samples, Sauget Site R, Monanto Company, Sauget, Illinois.

	----Deep Zone----		----Bedrock Zone----							
Sample Location:	GM-57C	GM-62C	GM-106	GM-106-DUP	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Date:	6/5/92	6/9/92	6/8/92	6/8/92	6/3/92	6/4/92	6/5/92	6/8/92	6/9/92	6/10/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter										
Pesticides/PCBs										
alpha-BHC	--	--	--	--	--	--	--	--	--	--
beta-BHC	--	--	--	--	--	--	--	--	--	--
delta-BHC	--	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	--	--	--	--	--	--	--	--	--	--
Heptachlor	--	--	--	--	--	--	--	--	--	--
Aldrin	--	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	--	--	--	--	--	--	--	--	--	--
Endosulfan I	R	--	--	--	--	--	--	--	--	--
Dieldrin	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	--	--	--	--	--	--	--	--	--	--
Endrin	--	--	--	--	--	--	--	--	--	--
Endosulfan II	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	R	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	--	--	--	--	--	--	--	--	--	--
Methoxychlor	2.1 J	--	--	--	--	--	--	--	--	--
Endrin ketone	--	--	--	--	--	--	--	--	--	--
Endrin aldehyde	--	--	--	--	--	--	--	--	--	--
alpha-Chlordane	--	--	--	--	--	--	--	--	--	--
gamma-Chlordane	--	--	--	--	--	--	--	--	--	--
Toxaphene	--	--	--	--	--	--	--	--	--	--
Aroclor-1016	--	--	--	--	--	--	--	--	--	--
Aroclor-1221	--	--	--	--	--	--	--	--	--	--
Aroclor-1232	--	--	--	--	--	--	--	--	--	--
Aroclor-1242	--	--	--	--	--	--	--	--	--	--
Aroclor-1248	--	--	--	--	--	--	--	--	--	--
Aroclor-1254	--	--	--	--	--	--	--	--	--	--
Aroclor-1260	--	--	--	--	--	--	--	--	--	--
Herbicides										
2,4-D	1100 J	NA	NA	NA	NA	R	--	NA	NA	NA
2,4,5-T	R	NA	NA	NA	NA	R	--	NA	NA	NA

ug/L Micrograms per liter.
-- Not detected.
NA Not analyzed.
P Precision criteria were not met.
R Unusable value.
N Presumptive evidence of the compound is present.
J Estimated value.
PCBs Polychlorinated biphenyls.

Only those compounds detected are listed.

TARPEST.XLS

recycled paper

ecology and environment

Table 5-17. Summary ... Target Analyte List Parameters Detected in Groundwater Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

	Shallow Zone				Intermediate Zone				
Sample Location:	P-6	P-7	P-14	GM-62A	GM-27B	GM-28B	P-1	P-2	P-3
Sample Date:	6/3/92	6/4/92	6/5/92	6/9/92	6/9/92	6/5/92	6/3/92	6/3/92	6/3/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved
Parameter									
Arsenic	35.6	--	--	--	--	--	73.8	98.0	100
Barium	431	31.8 B	266	170 B	1300	94.5 B	538	547	818
Calcium	462000	544000	334000	181000	216000	111000	136000	215000	337000
Cobalt	--	24.1 B	--	--	--	--	--	--	--
Iron	991	11100	3000	368	74100	8610	50600	42400	47900
Magnesium	35500	39000	36300	32900	52700	42800	62000	65500	64900
Manganese	2120	8040	4100	846	3720	252	2170	1880	1640
Mercury	--	--	--	--	0.20	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--
Potassium	27700	20600	21400	5510	13200	8130	9740	10000	11300
Sodium	102000	67000	218000	37100	343000	71500	137000	201000	110000
Thallium	R	R	R	--	--	R	R	R	R
Zinc	--	--	--	--	--	3420	--	--	--

ug/L Micrograms per liter.
-- Not detected.
B Analyte detected between the contract required detection limit and the instrument detection limit.
R Unusable value.

Only those compounds detected are listed.

Table 5-17. Summary of Target Analyte List Parameters Detected in Groundwater Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

	Shallow Zone				Intermediate Zone				
Sample Location:	P-6	P-7	P-14	GM-62A	GM-27B	GM-28B	P-1	P-2	P-3
Sample Date:	6/3/92	6/4/92	6/5/92	6/9/92	6/9/92	6/5/92	6/3/92	6/3/92	6/3/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved
Parameter									
Arsenic	35.6	--	--	--	--	--	73.8	98.0	100
Barium	431	31.8 B	266	170 B	1300	94.5 B	538	547	818
Calcium	462000	544000	334000	181000	216000	111000	136000	215000	337000
Cobalt	--	24.1 B	--	--	--	--	--	--	--
Iron	991	11100	3000	368	74100	8610	50600	42400	47900
Magnesium	35500	39000	36300	32900	52700	42800	62000	65500	64900
Manganese	2120	8040	4100	846	3720	252	2170	1880	1640
Mercury	--	--	--	--	0.20	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--
Potassium	27700	20600	21400	5510	13200	8130	9740	10000	11300
Sodium	102000	67000	218000	37100	343000	71500	137000	201000	110000
Thallium	R	R	R	--	--	R	R	R	R
Zinc	--	--	--	--	--	3420	--	--	--

ug/L Micrograms per liter.
-- Not detected.
B Analyte detected between the contract required detection limit and the instrument detection limit.
R Unusable value.

Only those compounds detected are listed.

Table 5-16 Summary of Target Compound List Pesticides, PCBs, and Herbicides Detected in Groundwater Samples, Sauget Site R, Monanto Company, Sauget, Illinois.

	----Deep Zone----		----Bedrock Zone----							
Sample Location:	GM-57C	GM-62C	GM-106	GM-106-DUP	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Date:	6/5/92	6/9/92	6/8/92	6/8/92	6/3/92	6/4/92	6/5/92	6/8/92	6/9/92	6/10/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter										
Pesticides/PCBs										
alpha-BHC	--	--	--	--	--	--	--	--	--	--
beta-BHC	--	--	--	--	--	--	--	--	--	--
delta-BHC	--	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	--	--	--	--	--	--	--	--	--	--
Heptachlor	--	--	--	--	--	--	--	--	--	--
Aldrin	--	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	--	--	--	--	--	--	--	--	--	--
Endosulfan I	R	--	--	--	--	--	--	--	--	--
Dieldrin	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	--	--	--	--	--	--	--	--	--	--
Endrin	--	--	--	--	--	--	--	--	--	--
Endosulfan II	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	R	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	--	--	--	--	--	--	--	--	--	--
Methoxychlor	2.1 J	--	--	--	--	--	--	--	--	--
Endrin ketone	--	--	--	--	--	--	--	--	--	--
Endrin aldehyde	--	--	--	--	--	--	--	--	--	--
alpha-Chlordane	--	--	--	--	--	--	--	--	--	--
gamma-Chlordane	--	--	--	--	--	--	--	--	--	--
Toxaphene	--	--	--	--	--	--	--	--	--	--
Aroclor-1016	--	--	--	--	--	--	--	--	--	--
Aroclor-1221	--	--	--	--	--	--	--	--	--	--
Aroclor-1232	--	--	--	--	--	--	--	--	--	--
Aroclor-1242	--	--	--	--	--	--	--	--	--	--
Aroclor-1248	--	--	--	--	--	--	--	--	--	--
Aroclor-1254	--	--	--	--	--	--	--	--	--	--
Aroclor-1260	--	--	--	--	--	--	--	--	--	--
Herbicides										
2,4-D	1100 J	NA	NA	NA	NA	R	--	NA	NA	NA
2,4,5-T	R	NA	NA	NA	NA	R	--	NA	NA	NA

ug/L Micrograms per liter.
-- Not detected.
NA Not analyzed.
P Precision criteria were not met.
R Unusable value.
N Presumptive evidence of the compound is present.
J Estimated value.
PCBs Polychlorinated biphenyls.

Only those compounds detected are listed.

TARPEST.XLS

recycled paper

ecology and environment

Table 5-17. Summary of Target Analyte List Parameters Detected in Groundwater Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

	Intermediate Zone							Deep Zone	
Sample Location:	P-8	P-10	P-11	P-12	P-13	GM-62B	GM-62B Dup	GM-27C	GM-28C
Sample Date:	6/4/92	6/4/92	6/4/92	6/4/92	6/8/92	6/9/92	6/9/92	6/9/92	6/8/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved
Parameter									
Arsenic	--	17.5	94.8	27.5	191	--	--	--	--
Barium	621	329	1190	329	1110	403	401	1550	85.8 B
Calcium	292000	209000	244000	289000	271000	192000	195000	315000	105000
Cobalt	--	--	--	--	--	--	--	--	--
Iron	14700	52700	105000	27400	114000	22100	22400	19500	16300
Magnesium	76800	55800	66800	88900	67500	50500	50400	97700	62000
Manganese	5870	3610	1380	4380	4630	1760	1760	1720	327
Mercury	--	--	--	--	--	--	--	--	--
Nickel	104	--	--	--	--	--	--	--	--
Potassium	20500	12500	9070	13500	12800	10000	1000-	11500	9230
Sodium	524000	446000	475000	432000	275000	106000	106000	249000	67800
Thallium	R	R	R	R	--	--	--	--	--
Zinc	76.4	31.2	68.9	--	--	--	--	--	--

ug/L Micrograms per liter.
-- Not detected.
B Analyte detected between the contract required detection limit and the instrument detection limit.
R Unusable value.

Only those compounds detected are listed.

recycled paper

ecology and environment

Table 5-17 Summary of Target Analyte List Parameters Detected in Groundwater Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

	Deep Zone				Bedrock Zone				
Sample Location:	GM-55C	GM-56C	GM-57C	GM-62C	GM-106	GM-106-DUP	Equipment Blank	Equipment Blank	Equipment Blank
Sample Date:	6/8/92	6/5/92	6/5/92	6/9/92	6/8/92	6/8/92	6/3/92	6/4/92	6/5/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved
Parameter									
Arsenic	--	--	--	--	25.2	29.7	--	--	--
Barium	133 B	39.5 B	179 B	206	128 B	121 B	--	--	--
Calcium	276000	110000	191000	201000	25400	25200	91.3 B	57.7 B	94.3 B
Cobalt	--	--	--	--	--	--	--	--	--
Iron	2100	12500	19800	29200	--	--	--	--	--
Magnesium	71100	66500	67400	40400	23100	22500	--	--	--
Manganese	520	639	569	1880	--	--	--	--	--
Mercury	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--
Potassium	8950	9170	9760	8970	6010	5910	--	--	--
Sodium	54300	97700	132000	34600	250000	237000	--	--	--
Thallium	--	R	R	--	--	--	R	R	R
Zinc	--	1100	1770	--	--	--	--	--	--

ug/L Micrograms per liter.
-- Not detected.
B Analyte detected between the contract required detection limit and the instrument detection limit.
R Unusable value.

Only those compounds detected are listed.

Table 5-14. Summary of Target Compound List Volatile Organic Compounds Detected in Groundwater Samples, Sauget Site R, Monsanto Company, Sauget, Illinois

	Deep Zone				Bedrock Zone				
Sample Identification	GM-55C	GM-56C	GM-57C	GM-62C	GM-106	GM-106-DUP	Trip Blank	Trip Blank	Trip Blank
Sample Date	6/8/92	6/5/92	6/5/92	6/9/92	6/8/92	6/8/92	6/3/92	6/4/92	6/5/92
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameters									
Methylene chloride	--	--	--	--	--	--	--	--	--
Acetone	--	420	350	--	--	--	--	--	--
Carbon disulfide	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	--	--	--	--	--	--	--	--	--
1,2-Dichloroethene (total)	--	--	--	--	--	--	--	--	--
Chloroform	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	--	--	300	--	--	--	--	--	--
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--	--
Trichloroethene	--	17 J	16 J	--	32 J	33 J	--	--	--
Benzene	48 J	54 J	230	20	92 J	94 J	--	--	--
4-Methyl-2-pentanone	--	--	100	--	--	--	--	--	--
Tetrachloroethene	--	--	--	--	51 J	57 J	--	--	--
Toluene	84 J	240	230	--	560	580	--	--	--
Chlorobenzene	2500	740	930	130	1900	2000	--	--	--
Ethylbenzene	87 J	16 J	15 J	--	100 J	100	--	--	--
Xylenes	300	110	80 J	--	870	920	--	--	--
Total VOCs	3019	1597	2251	150	3605	3784	--	--	--

ug/L Micrograms per liter.
J Estimated value.
-- Not detected.
VOCs Volatile organic compounds.

Only those compounds detected are listed.

recycled paper

protecting our environment

Table 5-14 Summary of Target Compound List Volatile Organic Compounds Detected in Groundwater Samples, Sauget Site R, Monsanto Company, Sauget, Illinois

Parameters	Sample Identification:	Trip Blank	Trip Blank	Trip Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
	Sample Date:	6/8/92	6/9/92	6/10/92	6/3/92	6/4/92	6/5/92	6/8/92	6/9/92	6/10/92
	Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Methylene chloride		--	--	--	--	--	--	--	--	--
Acetone		--	--	--	--	15 J	--	16	9 J	15
Carbon disulfide		--	--	--	--	--	--	--	--	--
1,1-Dichloroethane		--	--	--	--	--	--	--	--	--
1,2-Dichloroethene (total)		--	--	--	--	--	--	--	--	--
Chloroform		--	--	--	--	--	--	--	--	--
1,2-Dichloroethane		--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane		--	--	--	--	--	--	--	--	--
Trichloroethene		--	--	--	--	--	--	--	--	--
Benzene		--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone		--	--	--	--	--	--	--	--	--
Tetrachloroethene		--	--	--	--	--	--	--	--	--
Toluene		--	--	--	--	--	--	--	--	--
Chlorobenzene		--	--	3 J	--	1 J	--	--	--	--
Ethylbenzene		--	--	--	--	--	--	--	--	--
Xylenes		--	--	--	--	--	--	--	--	--
Total VOCs		--	--	3	--	16	--	16	9	15

ug/L Micrograms per liter.
J Estimated value.
-- Not detected.
VOCs Volatile organic compounds.

Only those compounds detected are listed.

Table 5-15. Summary of Target Compound List Semivolatile Organic Compound Parameters Detected in Groundwater Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

	Deep Zone				Bedrock Zone				
Sample Identification:	GM-55C	GM-56C	GM-57C	GM-62C	GM-106	GM-106-DUP	Equipment Blank	Equipment Blank	Equipment Blank
Sample Date:	6/8/92	6/5/92	6/5/92	6/9/92	6/8/92	6/8/92	6/3/92	6/4/92	6/5/92
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameters									
Aniline	120 J	3800 J	2300 J	6 J	23000 J	6200 J	--	54 J	2 J
Phenol	--	--	3500 J	--	--	--	42 J	70 J	--
2-Chlorophenol	--	--	--	--	4800 J	880 J	15 J	18 J	2 J
1,3-Dichlorobenzene	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	93 J	--	--	2 J	--	--	0.4 J	2 J	--
1,2-Dichlorobenzene	5700 DJ	--	--	2 J	2900 J	580 J	3 J	--	--
2-Methylphenol	--	--	--	--	--	--	--	--	--
4-Methylphenol	--	--	--	--	--	--	3 J	4 J	--
Nitrobenzene	8 J	--	--	--	5000 J	840 J	1 J	2 J	--
2-Chloroaniline	9600 EJ	200000 J	80000 J	--	1600000 EJ	390000 EJ	64 J	100 EJ	48 J
2,4-Dimethylphenol	--	--	--	--	--	--	0.6 J	0.6 J	--
2,4-Dichlorophenol	270 J	--	5000 J	2 J	33000 J	6400 J	6 J	10 J	3 J
1,2,4-Trichlorobenzene	140 J	--	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	--	--	--	4 J	--
3-Chloroaniline	7100 EJ	15000 J	--	5 J	100000 J	21000 J	6 J	17 J	3 J
4-Chloroaniline	9400 DJ	62000 J	27000 J	--	160000 J	40000 J	15 J	31 J	6 J
2,4,6-Trichlorophenol	22 J	--	--	--	43000 J	8600 J	--	--	--
Acenaphthene	--	--	--	--	--	--	--	--	--
4-Nitrophenol	--	--	--	--	--	--	--	--	--
Phenanthrene	--	--	--	--	--	--	--	--	--
Di-n-butylphthalate	--	--	--	--	--	--	--	0.2 J	--
Fluoranthene	--	--	--	--	--	--	--	0.2 J	--
Pyrene	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	220 J	--	--	7 J	--	--	--	2 J	--
Di-n-octylphthalate	--	--	--	--	--	--	--	--	--
Total SVOCs	32673	280800	117800	24	1971700	474500	156	315	64

ug/L	Micrograms per liter.
J	Estimated value.
E	Compound exceeded the calibration range.
D	Compound determined at a secondary dilution factor.
--	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.

recycled paper

ecology and environment

Table 5-15. Summary of Target Compound List Semivolatile Organic Compound Parameters Detected in Groundwater Samples, Sauget Site R, Monsanto Company, Sauget, Illinois.

Parameters	Sample Identification:	Equipment Blank	Equipment Blank	Equipment Blank
	Sample Date:	6/8/92	6/9/92	6/10/92
	Units:	ug/L	ug/L	ug/L
Aniline		21 J	--	--
Phenol		--	--	--
2-Chlorophenol		--	--	--
1,3-Dichlorobenzene		--	--	--
1,4-Dichlorobenzene		--	--	--
1,2-Dichlorobenzene		--	--	--
2-Methylphenol		--	--	--
4-Methylphenol		--	--	--
Nitrobenzene		--	--	--
2-Chloroaniline		--	--	--
2,4-Dimethylphenol		--	--	--
2,4-Dichlorophenol		--	--	--
1,2,4-Trichlorobenzene		--	--	--
Naphthalene		--	--	--
3-Chloroaniline		--	--	--
4-Chloroaniline		--	--	--
2,4,6-Trichlorophenol		--	--	--
Acenaphthene		--	--	--
4-Nitrophenol		--	--	--
Phenanthrene		--	--	--
Di-n-butylphthalate		--	--	--
Fluoranthene		--	--	--
Pyrene		--	--	--
Butylbenzylphthalate		--	--	--
bis(2-Ethylhexyl)phthalate		13 J	--	3 J
Di-n-octylphthalate		--	--	--
Total SVOCs		34	--	3

ug/L	Micrograms per liter.
J	Estimated value.
E	Compound exceeded the calibration range.
D	Compound determined at a secondary dilution factor.
--	Not detected.
SVOCs	Semivolatile organic compounds.

Only those compounds detected are listed.