L2010300027-Winnebago County
McKesson Chemical Company
ILD074583402

Superfund / HRS

EPA Region 5 Records Ctr.
375898

CERCLA

Preliminary Assessment Report

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

Confidential Material May be Enclosed

2010300027 - Winnebago County
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ILD074583402

Executive Summary

The McKesson Chemical Company was originally tasked for a CERCLA Pre-Remedial Investigation because of it's inclusion on a list of facilities designated as Environmental Priorities Initiative sites. However, in the initial stages of the this investigation, this author discovered that the facility is no longer in operation and cannot be regulated under RCRA. The site was therefor evaluated with a tradition Preliminary Assessment.

McKesson Chemical Company had several satellite, waste solvent transfer facilities in Illinois, one of which was located at 2639 Sewell Street in Rockford. This address is in the N1/2 of Section 1, T43N, R1E in Winnebago County. From 1973 to 1981, McKesson Chemical leased part of the 9,000-10,000 square feet building from Julian Ingram, a Rockford resident and owner of the property. Spent solvents were collected at this location, where they were temporarily stored and ultimately shipped by truck to a recycler for reclamation and re-use.

According to an Illinois EPA (IEPA) Application for Permit to Develop a Solid Waste Management Site, McKesson Chemical's Rockford facility handled 300 gallons of flammable solvents and 575 gallons of non-flammable solvents per week. Drums were unloaded from McKesson's trucks at the shipping and receiving dock at the northeast corner of the building where they were palletized and moved to the storage area via forklift. Non-flammable solvents were stored outside the building directly west of the dock while the flammable solvents where stored around the corner, about 75 feet further south and west. The drums were placed 4 to a pallet and stacked 2 to 3 pallets high depending on space limitations.

Eight IEPA Waste Stream Permit Letters have been obtained which show the chemicals Perchloroethylene, Methyl Ethyl Ketone, Trichloroethylene, 1,1,1-Trichloroethane and Methylene Chloride as being accepted at the facility. The waste, Chlorinated Solvent was also taken. According to IEPA files, there were 31 authorization numbers on waste streams going to McKesson Chemical in Rockford. When enough waste quantity accumulated, Waste Research and Reclamation, Incorporated, Eau Claire, Wisconsin hauled and reclaimed the waste.

IEPA inspected McKesson Chemical twice. On November 10, 1980, IEPA personnel met with Jerome B. Moening operations manager of the facility. The two drum storage areas were

noted. Approximately 40 drums of non-flammable waste, 3 per pallet, were stacked 2 pallets high in the "northern" area. Approximately 30 drums of flammable wastes were stacked 2 pallets high in the "southern" area. The drums appeared to be in good condition and no violations were noted. On September 14, 1981, IEPA personnel again inspected the site only to find McKesson moved out. The new building tenants, Insurance Liquidators, told IEPA that McKesson had been gone for about 2 months. IEPA personnel walked around the site, inspected the concrete drainage ditch and found nothing visibly wrong. Behind the building, 2 empty 55 gallon drums were found marked Trichloroethylene and Methylene Chloride. The Methylene Chloride drum had McKesson's name on it and both were permitted wastes which McKesson had handled.

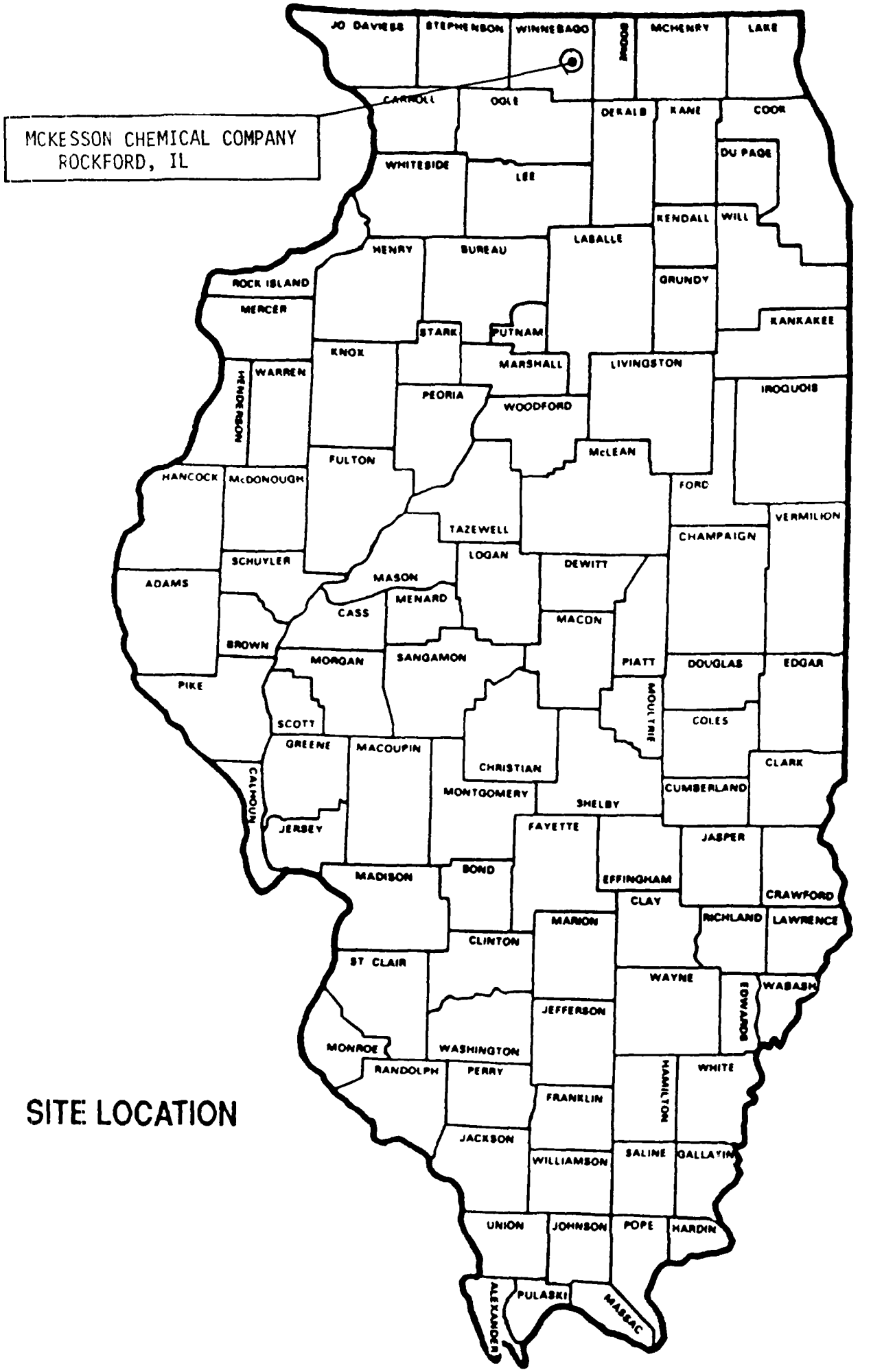
On June 16, 1989, this author visited the former storage-transfer facility. The building is located in an area surrounded by industrial and commercial facilities. A row of 5 residences borders the east side of the building and residential areas are located 2 blocks south and east of the building. The concrete drainage ditch is very close (several feet) to the southeast corner of the building. The ditch was dry at the time, but flow is southwest to the Rock River.

The front half of the building, with the 2639 Sewell Street address, had the name COLT on the door. The lights were off and nobody appeared to be working in this part of the building during our reconnaissance. The rear of the building was rented by the company Expedient Tool and Manufacturing, Inc., with the address of 2641 Sewell Street. The door was open so this author went inside and looked around. The shop was clean and well maintained. There were no drains on building floor. After talking with employee Tom Newburg, who had no knowledge of McKesson Chemical, this author preceded outside to look around. There was no signs of dumping or stressed vegetation close to the building although a building direct north and another northwest of the former facility showed obvious areas of waste liquid dumping.

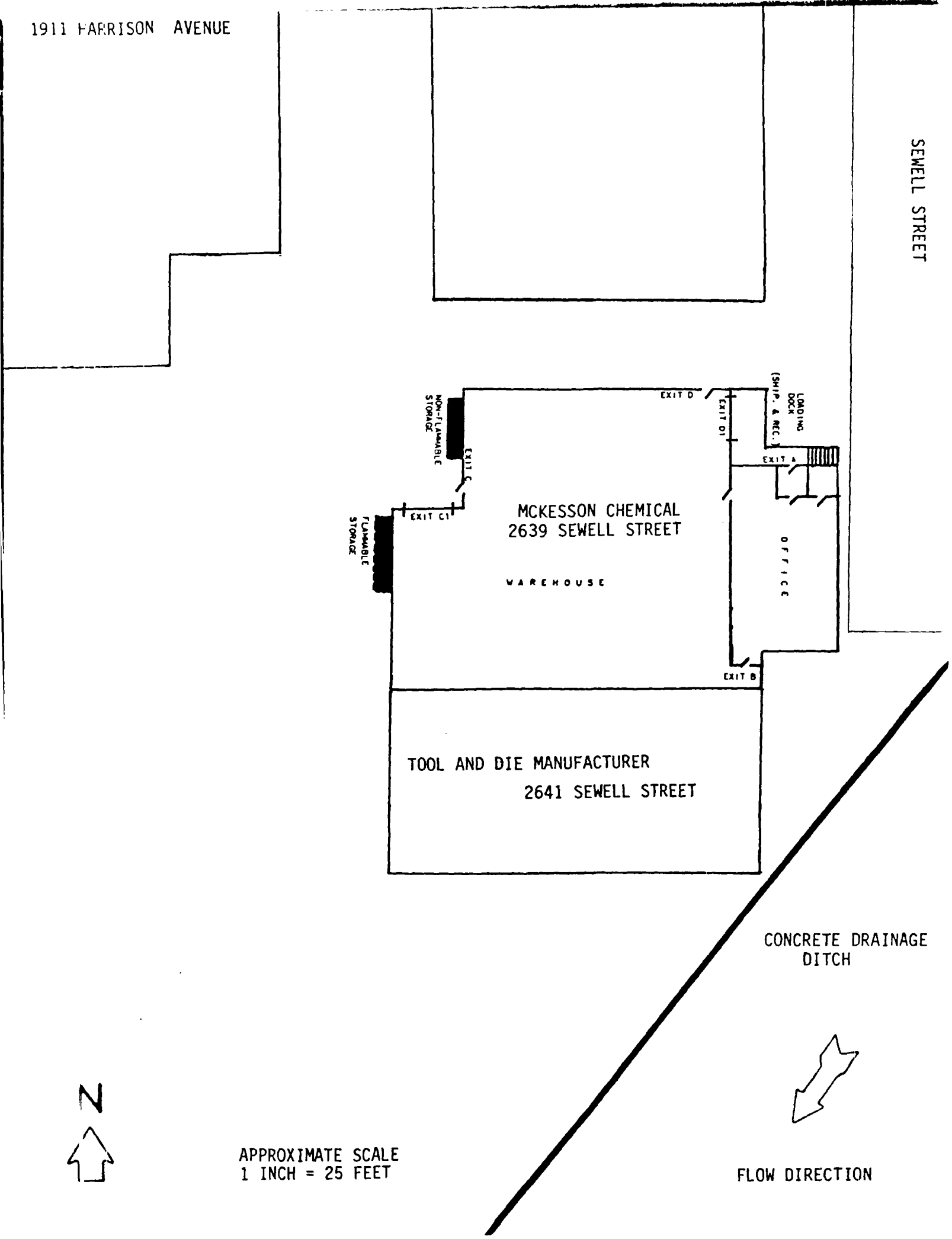
The former McKesson Chemical facility was located in area of known groundwater contamination. The subsurface geology in the area consists of outwash sands and gravels of the Rock River bedrock valley. Many of Rockford's public wells using this aquifer are showing low levels of chlorinated hydrocarbon contamination. Rockford's well #35 is part of the Southeast Rockford Groundwater Contamination study (ILD981000417). Well 35, 2900 feet southwest of the site and screened from 150 to 210 feet in alluvial deposits, has shown over time, various chlorinated solvents including Perchloroethylene, Trichloroethylene and 1,1,1-Trichloroethane in the low ug/l (ppb) range. Well #35, coupled with other Rockford wells, supply around 140,000 people with water. Barrett's Mobile Home Park Public Wells (ILD981956501) are 500 and 800 feet east of the site, both

screened in alluvium. These wells have shown the contaminants of concern, at times, above Maximum Contaminant Levels limits.

Since chemicals found in the nearby wells are of the same nature as ones that were stored at McKesson Chemical, this author recommends that the site be entered in CERCLIS and slated for a Screening Site Inspection. Several soil samples around the building would determine whether or not the former storage and transfer facility spilled or leaked any wastes which may attribute the site to the area groundwater contamination. A medium priority for site inspection of McKesson Chemical former facility is recommended.



SITE LOCATION


1911 HARRISON AVENUE
SEWELL STREET
NON-FLAMMABLE STORAGE
EXIT C
EXIT C1
FLAMMABLE STORAGE
EXIT D
EXIT D1
LOADING DOCK (SHIP. & REC.)
EXIT A
MCKESSON CHEMICAL
2639 SEWELL STREET
WAREHOUSE
OFFICE
EXIT B
TOOL AND DIE MANUFACTURER
2641 SEWELL STREET
CONCRETE DRAINAGE DITCH
N
APPROXIMATE SCALE
1 INCH = 25 FEET
FLOW DIRECTION

Supporting

Documentation

Supporting Documentation

Reference #1:	IEPA Application for Permit to Develop a Solid Waste Management Site
Reference #2:	IEPA Pre-Developmental Permit Inspection of 11-10-80 and Observation Report of 9-14-81
Reference #3:	IEPA Waste Stream Permit Letters
Reference #4:	Rockford Area Groundwater Contamination Map and List of Most Contaminated Wells
Reference #5:	IEPA Public Water Supply Data Sheet including Well 35 Log and Analysis
Reference #6:	Barrett's Mobile Home Park Screening Site Inspection Well Logs and Analysis

ILLINOIS Environmental Protection Agency
2200 Churchill Road, Springfield, Illinois 62706
217/782-6760

Permit Issued: 4/23/81 Permit Number 998706
Application Received @ IEPA: 3/13/81 Permit Expires: 2/10/81

Permit Issued To: McKesson Chemical Co.
Address: 2639 Sewel Street
Rockford, Illinois 61109
Attention: Fred Zawacki

Waste Name: 1,1,1 Trichloroethane

Waste Generator: Deublin Company IEPA Generator No.: 0312070001
Waste Generated At: 1919 Stanley Street
Northbrook, Illinois 60062
Attention: Jack Falls

Disposal Site: McKesson Chemical Co. IEPA Site No.: 20103027

Volume Authorized: 1,944 Gallons
Disposition of Waste:

Storage

Permit to receive the indicated waste is granted.

This permit is granted subject to the standard conditions indicated on the reverse side.

Rama K. Chaturvedi

Rama K. Chaturvedi, P.E.
Manager
Special Waste Unit
Residual Management Section
Division of Land/Noise Pollution Control

RKC:MDR:jab/247,251C/23

cc: Deublin Company
McKesson Chemical Co.
Region

ILLINOIS Environmental Protection Agency
2200 Churchill Road, Springfield, Illinois 62706

217/782-6760

Permit Issued: 4/23/81 Permit Number 997753
Application Received @ IEPA: 3/13/81 Permit Expires: 7/10/81

Permit Issued To: McKesson Chemical Co.
Address: 2639 Seval Street
Rockford, Illinois 61109
Attention: Fred Zawacki

Waste Name: 1,1,1 Trichloroethane

Waste Generator: Methode Manufacturing Co. IEPA Generator No.: 0312730007
Waste Generated At: 1700 Hicks
Rolling Meadows, Illinois 60008
Attention: Phil Kowalski

Disposal Site: McKesson Chemical Co. IEPA Site No.: 20103027

Volume Authorized: 3,240 Gallons
Disposition of Waste:

Storage

Permit to receive the indicated waste is granted.

This permit is granted subject to the standard conditions indicated on the reverse side.

Rama K. Chaturvedi

Rama K. Chaturvedi, P.E.
Manager
Special Waste Unit
Residual Management Section
Division of Land/Noise Pollution Control

RKC:MDR:jab/247,251C/21

cc: Methode Manufacturing Co.
McKesson Chemical Co.
Region

ILLINOIS Environmental Protection Agency
2200 Churchill Road, Springfield, Illinois 62706
217/782-6760

Permit Issued: 4/23/81 Permit Number 99754
Application Received @ IEPA: 3/13/81 Permit Expires: 7/10/81

Permit Issued To: McKesson Chemical Co.
Address: 2639 Sewel Street
Rockford, Illinois 61109
Attention: Fred Zawacki

Waste Name: Methylene Chloride

Waste Generator: Methode Manufacturing IEPA Generator No.: 0317730007
Waste Generated At: 1700 Hicks
Rolling Meadows, Illinois 60008
Attention: Phil Kolwalski

Disposal Site: McKesson Chemical Co. IEPA Site No.: 20103027

Volume Authorized: 3,888 Gallons
Disposition of Waste:

Storage

Permit to receive the indicated waste is granted.

This permit is granted subject to the standard conditions indicated on the reverse side.

Rama K. Chaturvedi

Rama K. Chaturvedi, P.E.
Manager
Special Waste Unit
Residual Management Section
Division of Land/Noise Pollution Control

RKC:MDR:jab/247,251C/24

cc: Methode Manufacturing
McKesson Chemical Co.
Region

ILLINOIS Environmental Protection Agency
2200 Churchill Road, Springfield, Illinois 62706

217/782-6760

6/29/81
Application Received @ IEPA: 3/13/81

Permit Number [illegible]
Permit Expires: 8/15/81

Permit Issued To: McKesson Chemical
Address:
2639 Sewel Street
Rockford, Illinois 61109
Attention: Jerome Moneming

Waste Name: Chlorinated Solvent
Waste Classification: Hazardous

Waste Generator: Precision Instruments
Waste Generated At:
1846 Miner
DesPlaines, Illinois 60016
Attention: John Larson

IEPA Generator No.: 0310630027

Disposal Site: McKesson Chemical

IEPA Site No.: 20103027

Annual Volume Authorized: 1,944 Gallons
Disposition of Waste:

Storage

Permit to receive the indicated waste is granted.

This permit is granted subject to the standard conditions indicated on the reverse side.

Rama K. Chaturvedi

Rama K. Chaturvedi, P.E.
Manager
Special Waste Unit
Residual Management Section
Division of Land/Noise Pollution Control

RKC:RGG:jab/710,711C/26

cc: Precision Instruments
McKesson Chemical
Region

ILLINOIS Environmental Protection Agency
2200 Churchill Road, Springfield, Illinois 62706
217/782-6760

Permit Issued: 4/23/81 Permit Number 998519
Application Received @ IEPA: 3/13/81 Permit Expires: 7/10/81

Permit Issued To: McKesson Chemical Co.
Address: 2639 Sewel Street
Rockford, Illinois 61109
Attention: Fred Zawacki

Waste Name: 1,1,1 Trichloroethane

Waste Generator: Felt Products IEPA Generator No.: 0312880014
Waste Generated At: 7450 McCormick Blvd.
Skokie, Illinois 60067
Attention: Steve Sidel

Disposal Site: McKesson Chemical Co. IEPA Site No.: 20103027

Volume Authorized: 1,944 Gallons
Disposition of Waste:

Storage

Permit to receive the indicated waste is granted.

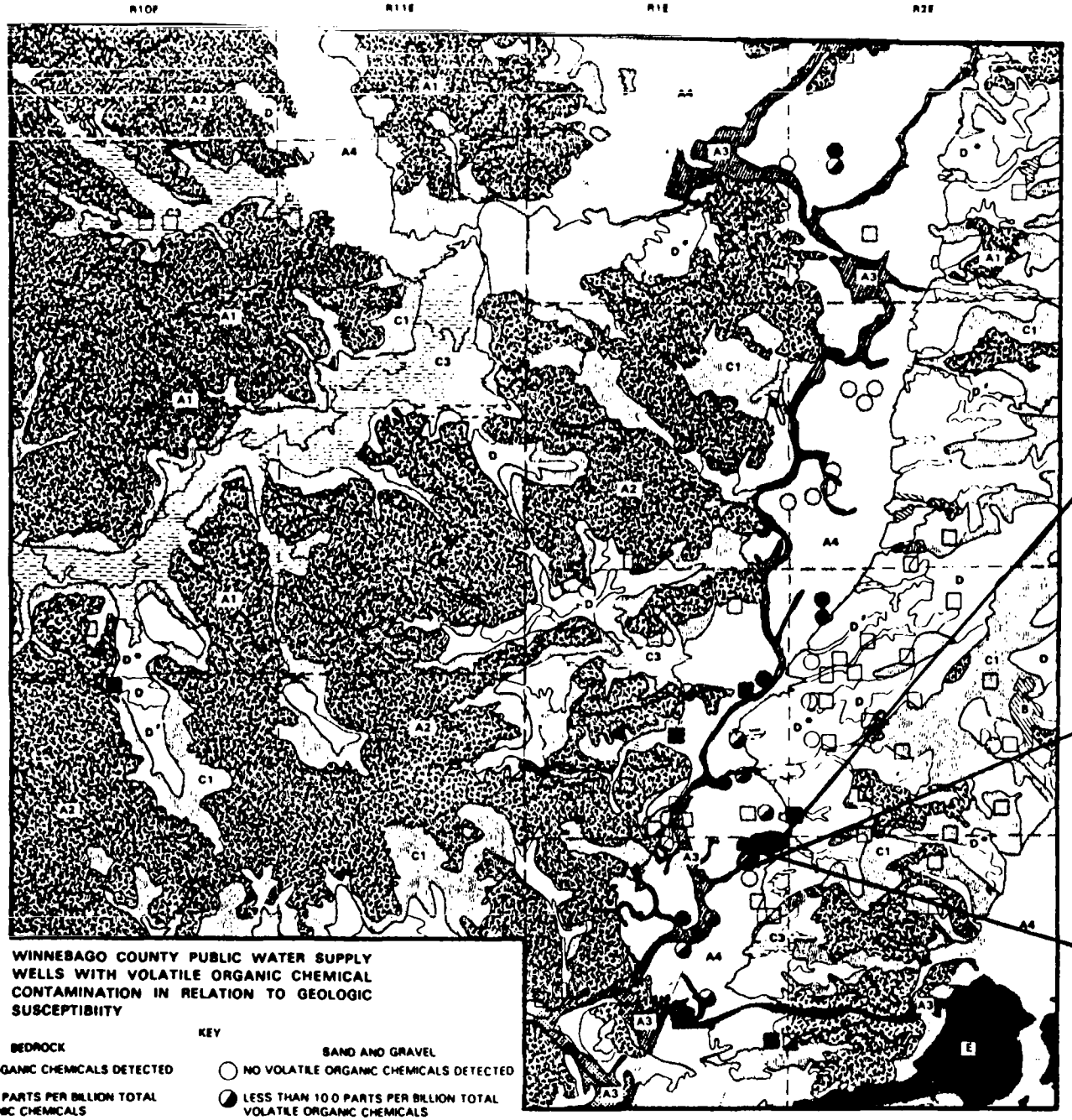
This permit is granted subject to the standard conditions indicated on the reverse side.

Rama K. Chaturvedi

Rama K. Chaturvedi, P.E.
Manager
Special Waste Unit
Residual Management Section
Division of Land/Noise Pollution Control

RKC:MDR:jab/247,251C/22

cc: Felt Products
McKesson Chemical Co.
Region



WINNEBAGO COUNTY PUBLIC WATER SUPPLY WELLS WITH VOLATILE ORGANIC CHEMICAL CONTAMINATION IN RELATION TO GEOLOGIC SUSCEPTIBIITY

KEY

BEDROCK

- NO VOLATILE ORGANIC CHEMICALS DETECTED
- LESS THAN 100 PARTS PER BILLION TOTAL VOLATILE ORGANIC CHEMICALS
- GREATER THAN OR EQUAL TO 100 PARTS PER BILLION TOTAL VOLATILE ORGANIC CHEMICALS

SAND AND GRAVEL

- NO VOLATILE ORGANIC CHEMICALS DETECTED
- LESS THAN 100 PARTS PER BILLION TOTAL VOLATILE ORGANIC CHEMICALS
- GREATER THAN OR EQUAL TO 100 PARTS PER BILLION TOTAL VOLATILE ORGANIC CHEMICALS

Scale 0 1 2 3 mi

Modified after Berg and Cartwright, 1984

REFERENCE NUMBER 04

A1 Dolomite within 5 ft of land surface

A2 Dolomite within 20 ft of land surface

A3 Soils with seasonably high water tables or soils subject to flooding (poorly, somewhat poorly, and moderately well-drained soils). Waste probably will not be absorbed and limitations are considered to be severe to very severe.

A4 Sand and gravel, usually greater than 50 ft thick, at land surface

B Sand and gravel within 20 ft of land surface overlain by till or other fine-to medium-textured material

C1 Dolomite within 50 ft of land surface overlain by till or other fine-to medium-textured material

C3 Sand and gravel possible within 50 ft of land surface; mostly in low land silty-clay (ec) areas where data are sparse

D Predominately sandy till greater than 50 ft thick

E Loamy to silty-clay till greater than 50 ft thick

Extensively, poorly drained and/or lowland areas

Uplands with greater than a 5% slope; includes steeply sloping (discharge) along the Rock River Valley

TABLE I WINNEBAGO COUNTY PUBLIC WATER SUPPLY WELLS RANKED BY TVOC CONCENTRATION

WELL NAME & NUMBER	TVOC (ppb)	TVOC RANK	ONE OR MORE VOC/VOA EXCEEDED MCL's	INCREASING TVOC CONCENTRATION
Rockford.8	553	1	X	
Six Oaks MHP.1	477	2	X	
Rockford.38	38	3		
Loves Park.2	34	4		
Barretts MHP.2	34	5	X	
Gem Subr MHP.3	34	6	X	
Barretts MHP.1	32	7	X	
Rockford Grp Wells	26	8		
Loves Park.1	25	9		
Gem Subr MHP.4	22	10	X	
Rockford.19	21	11	X	
Goldie Floberg.1	18	12		
Rockford.8A	16	13	X	
Morristown MHP.2	15	14		
Rockford.6	11	15		
Rockford.33	10	16		
Rockford.12	9	17	X	
Rockford.15	8	18		
Morristown MHP.1	7	19		
Goldie Floberg.2	6	20		
Rockford.7A	6	21		
Rockford.11	6	22		
Rockford.24	4	23		
Rockford.4	4	24		
Rockford.23	2	25		
Rockford.28	1	26		
Rockford.35	1	27		

Figure 6 displays the occurrence percentage of organic compounds at contaminated water wells included in this study. The percentage occurrences are as follows: trichloroethylene, 25 percent; 1,1,1- trichloroethane, 23 percent; trans 1,2 - dichloroethylene, 14 percent; 1,1 - dichloroethane, 13 percent; tetrachloroethylene, 11.3 percent; 1,1 - dichloroethylene, 8.5 percent; 1,2 - dichloroethane, 4.2 percent; and benzene, 1.4 percent.

REFERENCE NUMBER FY 1983 22180 A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY — DIVISION OF PUBLIC WATER SUPPLIES

PUBLIC WATER SUPPLY DATA SHEET

County and Supply WINNEBAGO - ROCKFORD 1010300

Date Inspected OCTOBER & NOVEMBER 1982 Plant phone 815-987-5713, -5712, -5714

Operator GEORGE BRETTRAGER, *A* CORC Phone 815-987-5700

Other officials (Title) JOHN McNamara, MAYOR Phone 815-987-5590

Phone

Emergency Address PUMPING STATION Phone 815-987-5713 (24-hr)

Send mail to GEORGE BRETTRAGER, 1111 CEDAR ST., ROCKFORD, IL 61101

Interviewed GEORGE BRETTRAGER, SUPT. and WALLY PARSON, OPER.

Brief description of supply: Water obtained from 40 drilled wells at 32 pumping sites is chlorinated, fluoridated, discharged to reservoirs, and repumped to distribution and storage. Polphosphate is added at 7 sites. One elevated tank floats on system, but is not in service. Five ground storage tanks provide storage in the distribution system. Class *C* supply.

No. of services: Direct 43,000 - 100 % metered

Satellite 0 - 0 % metered

Adequacy of Supply

Production capacity is 475% of the average daily pumpage.

Annual Pumpage 9,903,173,000 Gal. Production Capacity 128,764,800 Gal/Day

Av. Daily pumpage 27,132,000 Gal. Max. av. Daily Pumpage 40,000,000 Gal.

Est. Population 140,000 Av. Daily per Capita Consumption 194 Gal.

Time Required to Produce Av. Daily Consumption 5.1 Hrs.

Time Required to Produce Mx. Av. Daily Consumption 7.5 Hrs.

Large Consumers 6,500,000 (top 20 users) Av. Gal./Day

Storage Capacity: Ground 30,456,000 gal; Elev 250,000 gal

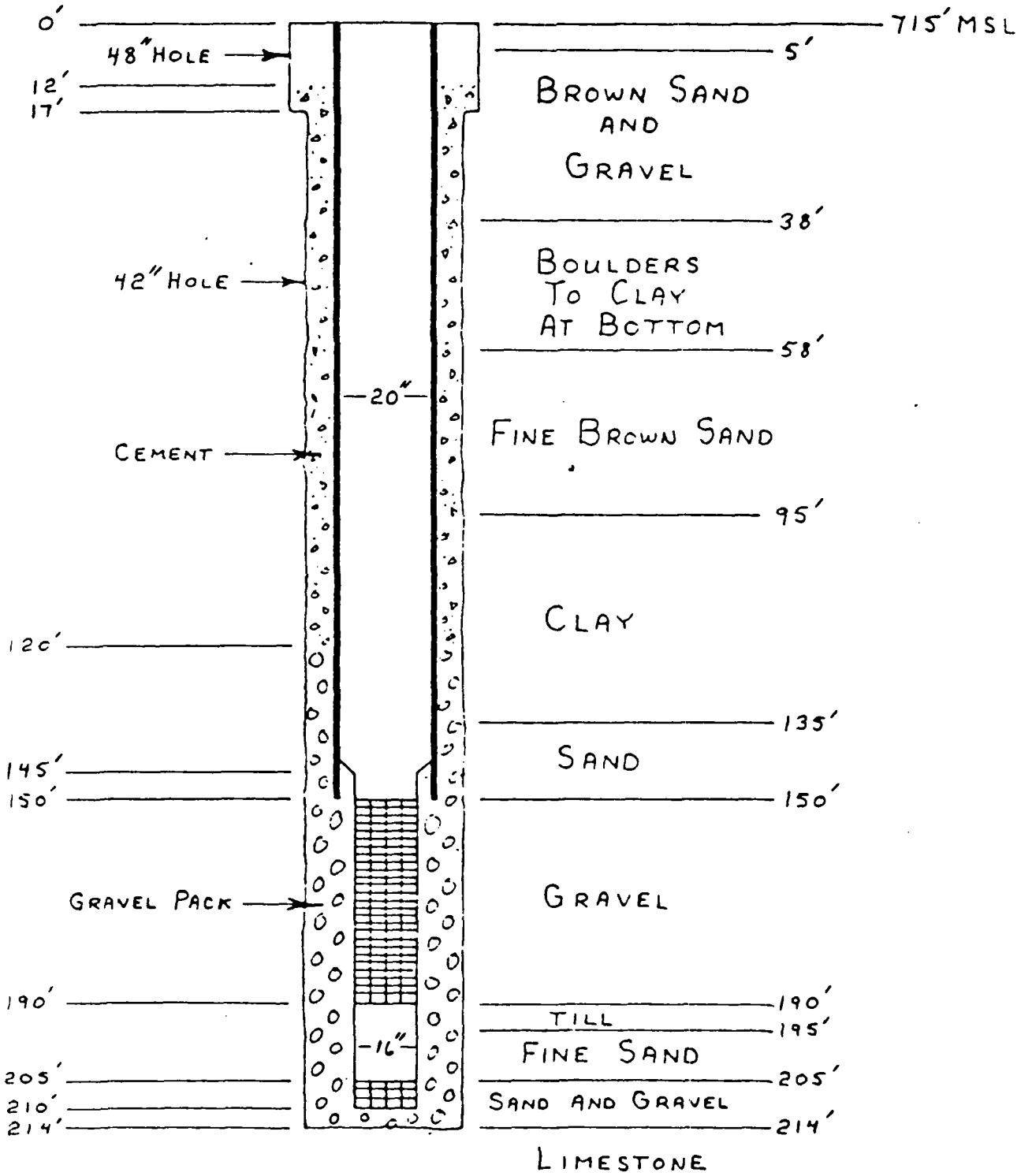
Emergency water and Power Sources: None

RB:ted

PWS 59 7/79

ROCKFORD

UNIT WELL 35



Data was furnished by
Rockford Water Dept.

REG	FAC_NUM	W_NAME	NUM	S-D	D.SMPLD	D.RECVD	OPC	MC	1,1-DCE	1,2-DCE	1,1-DCE	CHL	1,2-DCE	1,1,1-TCA	CARB T	DICHLBRM	TCE	DIBRMCHL	BRMF	PCE	BENZ	TOLL	CHLBENZ	EBEN	ZYL	IP-DIC	EXT	STAT
1	12018300	ROCKFORD	24	111652	23-Oct-85	07-Feb-86				4.20							0.40											2
1	12018300	ROCKFORD	28	111656	23-Oct-85	07-Feb-86						0.20		1.10			0.20			0.10								
1	12018300	ROCKFORD	30		30-May-87							2.00				1.00	3.00			3.00								
1	12018300	ROCKFORD	33	111661	29-Oct-85	07-Feb-86				0.50							0.50			0.10								2
1	12018300	ROCKFORD	35	111662	23-Oct-85	07-Feb-86			0.90	0.40			0.30	0.70			TR			0.10								2
1	12018300	ROCKFORD	38	111664	30-Oct-85	07-Feb-86			3.60	0.70				16.00			5.30			3.00								1
1	12018300	ROCKFORD	7A	111632	23-Oct-85	07-Feb-86								0.60			2.40			3.40								2
1	12018300	ROCKFORD	8A	111634	30-Oct-85	07-Feb-86								0.30			1.20			15.00								1
1	12018300	ROCKFORD	BW1	111621	10-Dec-85	07-Feb-86						1.70					TR			TR								3,ALONE
1	12018300	ROCKFORD	BW2	111622	10-Dec-85	07-Feb-86				0.30		0.20		2.40			4.80			2.60								3,COMB
1	12018300	ROCKFORD	BW5	111624	10-Dec-85	07-Feb-86				0.30		0.10		0.40			2.50			0.70								3,ALONE
1	12018300	ROCKFORD	BW6	111625	10-Dec-85	07-Feb-86				2.20		0.80		5.50			7.20			2.40								3,COMB
1	12018350	ROCKTON DIST	00		10-Jul-86	05-Sep-86	I					1.00				1.00		1.00										*
1	12018350	BLK W/3,6	00		21-Aug-86	08-Sep-86		1.00																				
1	12018350	ROCKTON	05	111665	21-Aug-86	08-Sep-86																						*
1	12018350	ROCKTON	06	111666	15-Oct-85								1.10															
1	12018350	ROCKTON	06	111666	21-Aug-86	08-Sep-86																						*
1	12015050	BARDLEY HTS	03	111674	13-Jun-86	05-Aug-86																						
1	12015050	BARDLEY HTS SUBD	03	111674	06-Nov-85			TR									TR											
1	12015235	BLK W/1,2	00		30-Sep-86	20-Oct-86																						
1	12015235	BLK W/ 1&2	00		19-Jan-87	19-Feb-87	I	1.00																				
1	12015235	BLK W/1	00		17-Dec-86	27-Jan-87	I	1.00																				
1	12015235	BARRETTS	01	111123	07-Jan-86	06-May-86			4.60	2.70				6.50			3.30											
1	12015235	BARRETTS MHP	01	111123	20-Aug-87	09-Sep-87			7.00	5.00	2.00			15.00			2.00											
1	12015235	BARRETS MHP	01	111123	20-Aug-87	09-Sep-87			7.00	5.00	2.00			19.00														
1	12015235	BARRETTS MHP	01	111123	17-Jun-86	05-Aug-86			5.00	4.00	4.00		1.00	18.00			6.00											*
1	12015235	BARRETT'S MHP	01		17-Dec-86	27-Jan-87	I		7.00	4.00	2.00			12.00			3.00											
1	12015235	BARRETT'S MHP	01	111123	30-Sep-86	20-Oct-86			5.00	3.00	2.00			12.00			4.00											-
1	12015235	BARRETT'S MHP	01		19-Jan-87	19-Feb-87	I		5.00		1.00			18.00			2.00											
1	12015235	BARRETTS MHP	01		23-Jun-87	20-Jul-87																					05	NOT ANALYZED
1	12015235	BARRETTS	02	111124	07-Jan-86	06-May-86			3.70	1.00				6.20			1.30											
1	12015235	BARRETT'S MHP	02	111124	30-Sep-86	20-Oct-86			7.00	3.00	2.00			13.00			3.00											-
1	12015235	BARRETS MHP	02	111124	20-Aug-87	09-Sep-87			7.00		2.00			17.00			2.00											
1	12015235	BARRETT'S MHP	02		19-Jan-87	19-Feb-87	I		7.00		3.00			16.00			4.00											
1	12015235	BARRETTS MHP	02	111124	17-Jun-86	05-Aug-86			5.00	5.00	3.00		1.00	13.00			6.00											
1	12015235	BARRETTS MHP	02		23-Jun-87	20-Jul-87			4.00	2.00				12.00			3.00										04	
1	12015245	BEL ROCK MHP	03		21-Nov-85	07-Feb-86								0.20		0.90			2.40	15.50	TR							
1	12015245	BEL ROCK MHP	03		05-Jun-86	12-Aug-86																						
1	12015290	BLK W/001	00		01-Jul-86																							
1	12015345	BIL MAR MHP	02	111127	24-Jun-86	03-Sep-86								1.00														
1	12015345	BIL MAR MHP	03	111128	24-Jun-86	03-Sep-86								2.00														
1	12015439	BLK W/1&2	00		07-Jan-87	03-Feb-87	I	1.00																				
1	12015439	BLK W/ 1&2	00		11-Dec-86	14-Jan-87		1.00																				
1	12015439	BLK W/ 1,2	00		30-Sep-86	20-Oct-86																						
1	12015439	GOLDIE FLOBERG	01	111139	30-Sep-86	20-Oct-86			4.00							2.00		5.00	13.00									-
1	12015439	GOLDIE FLOBERG	01	111139	11-Dec-86	14-Jan-87			3.00					1.00														
1	12015439	GOLDIE FLOBERG	01		07-Jan-87	03-Feb-87	I		4.00					1.00														
1	12015439	GOLDIE FLOBERG	01		17-Jun-87	20-Jul-87			3.00																		06	
1	12015439	FLOBERG	01	111139	05-Jun-86	12-Aug-86			6.00	1.00				3.00														-
1	12015439	FLOBERG	01	111139	16-Oct-85	07-Feb-86			5.00	0.40				1.60			0.20			TR								
1	12015439	GOLDIE FLOBERG	02	111140	11-Dec-86	14-Jan-87			3.00			1.00																
1	12015439	GOLDIE FLOBERG	02		17-Jun-87	20-Jul-87			2.00																		06	
1	12015439	GOLDIE FLOBERG	02	111140	30-Sep-86	20-Oct-86			3.00																			-
2	12015439	GOLDIE FLOBERG	02		07-Jan-87	03-Feb-87	I		3.00					1.00														
1	12015439	FLOBERG	02	111140	16-Oct-85	07-Feb-86			4.30	0.40				1.60			0.20			TR								

Rockford School of Medicine Analyses

Well Name & Number	Aquifer Type: Sand & gravel	Aquifer Type: bedrock	Number of Analyses (n)	Sampling Frequency (f)	TVOC Min.	TVOC Max. (ppb)	TVOC Mean (x)	Trend	Seperate Agency Analysis TVOC
Rockford well.35	x		(39)	May 1983-Jan. 1987 Monthly	<1.0	36.0		Increase-stable-marked decline	1.0
Rockford Well.55	x		(35)	May 1983-Jan. 1987, Monthly-Bimonthly	14.0	67.0	34.0	Slightly decreasing	33.0

Agency Analyses

under Normal operational conditions

ILLINOIS EPA

Environmental Protection Agency

2200 Churchill Road, Springfield, Illinois 62706

REFERENCE NUMBER 01

Waste
Check if
Applicable

APPLICATION FOR PERMIT
TO DEVELOP A SOLID WASTE
MANAGEMENT SITE

X Storage
X Transfer
___ Processing
___ Recovery
___ Incineration
___ Other

Logged In
JRR

In Accordance With The Environmental Protection Act

All information submitted as part of the Application is available to the public except when specifically designated by the Applicant to be treated confidentially as regarding a trade secret or secret process in accordance with Section 7(a) of the Environmental Protection Act.

RECEIVED
OCT 22 1980
E.P.A. — D.L.P.C.
STATE OF ILLINOIS

APPLICATION MUST BE SUBMITTED IN DUPLICATE

PART I - APPLICANT INFORMATION

A. Site Identification

1. Name of Applicant Jerome B. Moening
(Person responsible for operation)

2. Address of Applicant 2639 Sewell Street
(Street, P.O, Box, or R. R. #)

Rockford	IL	61109
City	State	Zip Code

Telephone: (815) 226-1544
(Area Code) (Number)

3. Name of Land Owner Julian Ingram
(If same as above, so indicate)

4. Address of Land Owner 2007 - 20th Avenue
(Street, P.O. Box, or R. R. #)

Rockford	IL	61108
City	State	Zip Code

STPR 5/15/79
LPC-7 Rev. 5/79

12. Check applicable boxes which describe the use of adjacent properties surrounding site.

	Residential	Commercial	Industrial	Agricultural	Others*
a. North	( )	(X)	(X)	( )	( )
b. East	(X)	(X)	(X)	( )	( )
c. South	( )	( )	(X)	( )	( )
d. West	( )	( )	(X)	( )	( )

*SPECIFY USE CLASSIFICATION_____

13. a. Are there any permits, operational requirements, licenses, or other requirements or restrictions by any municipality, planning commission, county, county health department, state agency, or other governing body?
( ) Yes (X) No If yes, List below._____

_____

_____

b. Have these requirements, licenses or restrictions been approved by the agency or governing body having jurisdiction?
( ) Yes ( ) No

c. If the answer to (b) is yes, include photocopies of supporting documents.

B. LOCATION

14. Attach a copy of the United States Geologic Survey (U.S.G.S.) topographic quadrangle map of the area which contains the site. (7.5 minute quadrangle, if published).

Quadrangle Map Provided:_____ _____
Name Date

15. a. Outline on the U.S.G.S. topographic quadrangle map the location and extent of the site.

b. Provide a legal description of the site. (Typewritten on attached sheet.)

_____Acres in _____Quarter, _____Quarter, _____Quarter, of Section_____, Township _____, Range _____, _____P.M.

TYPE AND EXTENT OF SUBSURFACE MATERIALS

19. Provide a complete log (description) of each boring made during the exploratory program, and include all other pertinent data so obtained.

20. Include the following information regarding the bedrock, if encountered during the boring program:

    a. Depth(s) to bedrock.
    b. Lithology (physical character) and hydrologic characteristics of the bedrock formation.
    c. Name and age of the formations encountered during the boring operation and (or) which crop out on or adjacent to the site.

C. MATERIALS CLASSIFICATION AND ANALYSIS

21. Provide the following information for samples taken during the boring operation:

    a. textural classification (U.S.D.A. system)
    b. particle size distribution curves for representative samples
    c. coefficient of permeability - based on field and (or) laboratory determinations
    d. ion-exchange capacity and ability to absorb and "fix" heavy metal ions

D. HYDROLOGY

22. Provide the following information regarding the hydrologic flow system in the area of the site:

    a. Depth to water in boreholes at time of boring completion and periodic measurements until the water level has stabilized.
    b. Rate(s) and direction(s) of ground-water movement.
    c. A narrative description (with diagrams) of the design and installation procedures for all piezometers installed at the site. This shall include both water-level measuring piezometers and those installed for permanent use as water-quality monitoring points.
    d. An analysis of the background ground-water quality, as per those constituents listed in the Instructions. Attach a copy of the laboratory report.
    e. An outline of the procedures, devices, and personnel to be employed for the collection of periodic ground-water samples from the monitoring point(s) installed at the site.

B. SCHEDULE OF CONSTRUCTION

27. Attach a typewritten narrative supplemented by indications on the plans of the sequence of areas to be developed. Estimate the date of beginning and ending of each phase of construction and operation.

C. CONSTRUCTION REQUIREMENTS

28. Attach a typewritten narrative supplemented by indications on the plans of provisions to be made for:

a. Prevention of surface-water pollution.

b. Control of gas migration.

c. Elimination of flood hazard, if any.

d. Employee facilities.

f. Measuring quantity of waste delivered to the site.

PART V - OPERATING PLAN

A. SOURCE AND VOLUME

29. Indicate the estimated quantity of each of the following sources and types of waste the facility will handle during each day of operations; each week of opertion; each year of operation. Specify any additional information regarding refuse source and quantity.

SOURCE	TYPE	DAILY QUAN.	WEEKLY QUAN.	ANNUAL QUAN.
a. Residential				
b. Commercial				
c. Industrial	Flammable Solvents	60 gallons	300 gallons	15,600 gallons
	Non-Flammable Solvents	115 gallons	575 gallons	30,000 gallons
d. Agricultural				
e. Other (Describe)				

B. OPERATING REQUIREMENTS

30. Attach a typewritten description of provisions for: (see attached)

a. Personnel for supervision and operation
b. Traffic control

d) The clerk of each municipality, any portion of which is within three miles of the site.
e) Adjacent landowners to the proposed site.
f) Local zoning and planning agencies.

33. Provide the following documentary evidence sufficient to show:

a) That the facility is located so as to minimize scenic blight, and to avoid damage to archaeological and/or historic sites and areas of significant natural beauty;

b) That the facility is located so as to avoid any hazards to public health and safety and to minimize any offenses to the senses of persons residing, working, traveling, and/or in any way spending periods of time in the immediate vicinity. Immediate vicinity is here defined to mean a one-mile radius zone adjacent to the boundary of the site;

c) Taking into consideration the character of the area involved, including the character of surrounding land uses and the trend of development, as well as local comprehensive plans and zoning ordinances, that the facility is located so as to minimize incompatibility with the character of the surrounding area.

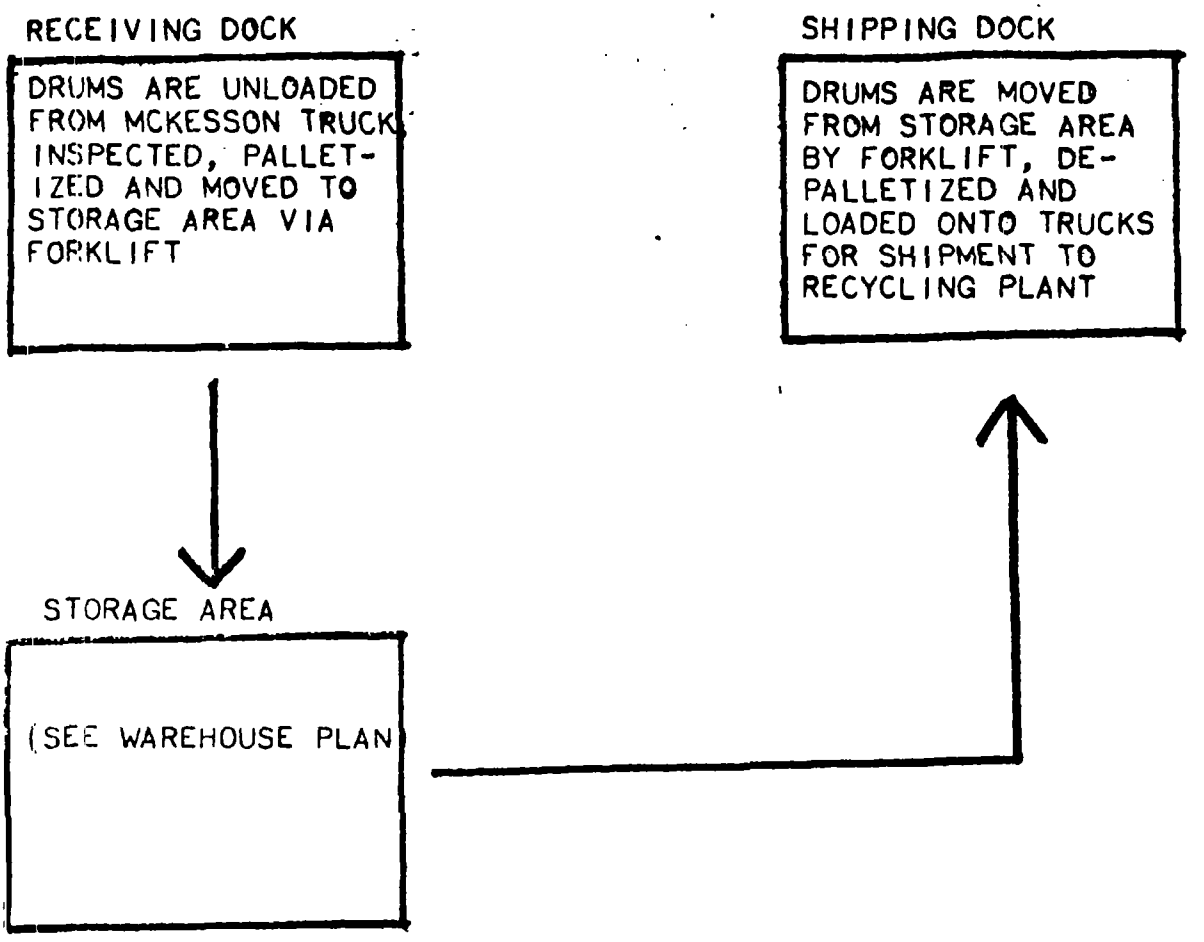
d) That the facility is located so as to avoid causing substantial depreciation of nearby property (taking into consideration, where possible, any mitigation caused by the short proposed life of the site and end use);

e) That any detriments caused by removal of the site from its former use are out-weighed by the need in the area for such a facility at this location;

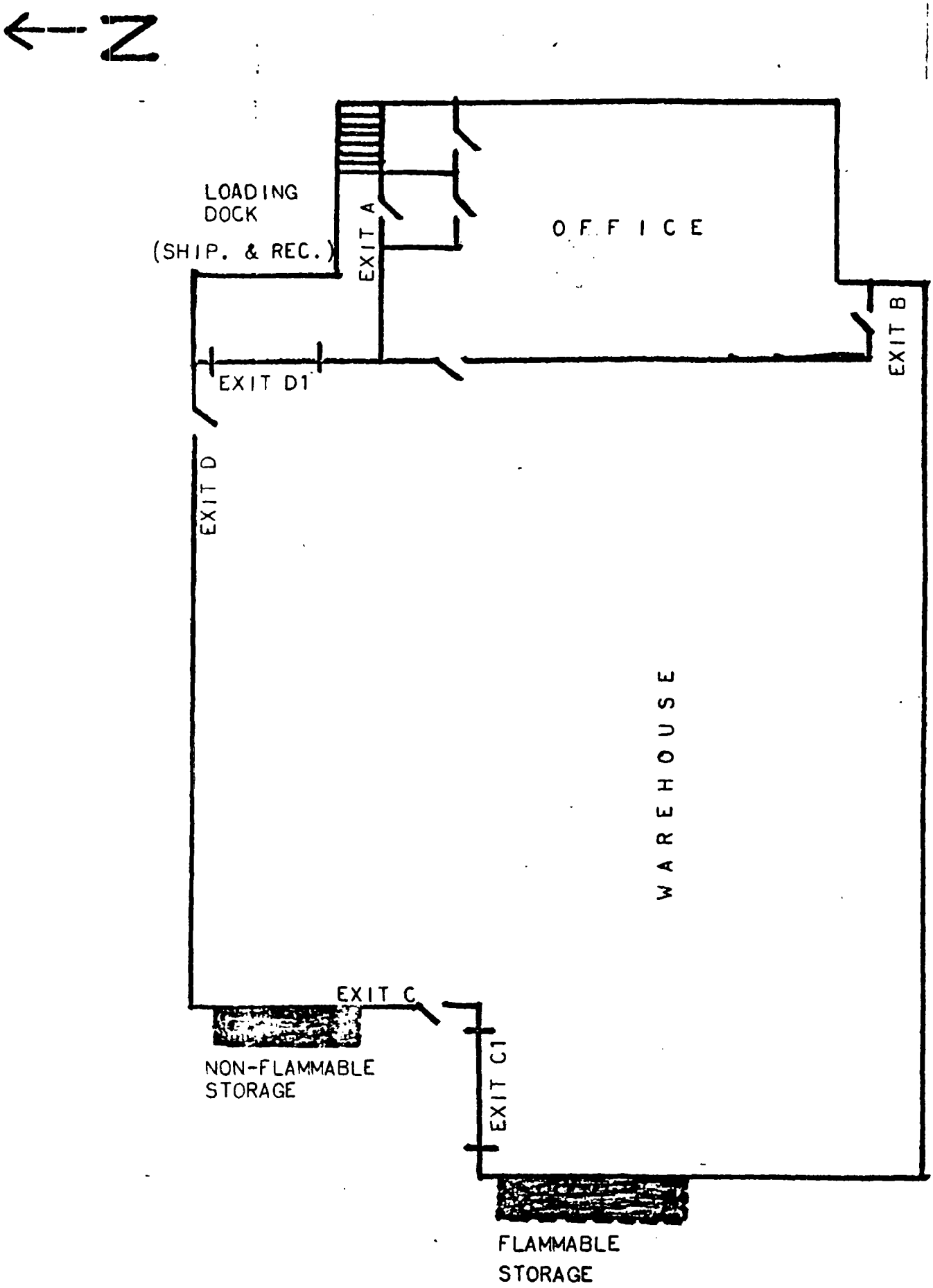
f) That the facility is located so as to avoid a continued adverse effect on existing air and water quality; and

g) Taking into consideration geological and hydrological factors, the location of the site in relating to sources of solid waste and accessibility to transportation modes, and the technical feasibility and economic reasonableness of disposing of solid waste at the proposed location, that the facility is suited for its intended use.

h) That access roads and bridges are not limited to preclude necessary vehicular traffic (i.e. proposed size and weight limits).



ALL DRUMS ARE PALLETIZED (4 DRUMS PER PALLET). FLAMMABLES ARE STACKED A MAXIMUM OF 2 PALLETS HIGH. NON-FLAMMABLE MATERIALS ARE NORMALLY STACKED 2 PALLETS HIGH, BUT ON OCCASION MAY BE STACKED 3 PALLETS HIGH DUE TO SPACE LIMITATIONS.


N
LOADING
DOCK
(SHIP. & REC.)
EXIT A
OFFICE
EXIT B
EXIT D1
EXIT D
WAREHOUSE
EXIT C
NON-FLAMMABLE
STORAGE
EXIT C1
FLAMMABLE
STORAGE

PART V OPERATING PLAN

B. OPERATING REQUIREMENTS

30. a) Personnel

J. B. Moening - Branch Manager
Roberta Rexroad - Administrative Assistant
Fred Stempfle - Truck Driver
Ralph Pruka - Warehouseman

b) Traffic Control

Ralph Pruka - Warehouseman

c) Unloading Area

All materials are unloaded at our receiving dock.

PART VI NOTICE / LAND USE

32. a) Daniel D. Doyle
b) Lawrence Ralston
c) Lynn Martin - Senator
E. J. "Zeke" Giorgi - Representative
John Hallock Jr. - Representative
W. Timothy Simms - Representative
d) David F. Johnson
e) North - Julian Ingram
South - Julian Ingram
East - Viola Koltz
West - Julian Ingram

33. a) The facility is located in an industrial area surrounded by commercial and industrial buildings. There are no archaeological, historic sites or areas of significant natural beauty in the surrounding area.

b) The location of this facility is not hazardous to public health or safety. Offenses to the senses of persons in the immediate vicinity are non-existent or at an absolute minimum as all materials are received, stored and shipped in sealed drums.

c) This storage facility is very compatable with the surrounding area which is comprised primarily of commercial and industrial buildings. The trend of development in this area is toward commercial and industrial uses. Zoning ordinances have been consistent since the company located here in 1973 and no changes are imminent at this time.

d) The location of this facility will not cause nearby properties to depreciate as most of the spent materials to be stored on the site are similar to the solvents currently being stored and sold in their virgin state. Furthermore, due to current company consolidation plans, this facility is scheduled to be relocated to the Schaumburg, Illinois area during mid 1981.

e) McKesson Chemical will continue to operate this facility as a chemical distribution warehouse. The addition of a waste storage site will not in any way be detrimental to the area. Contrarily, the addition of this storage site will be of great benefit to our customers and the notion as a whole for the following reasons:

   1) It will provide a collection point for used solvents which will ultimately be shipped in truckloads to a recycler for reclamation and re-use.

   2) Recycling of solvents results in lower product costs, conserves natural resources, provides for proper disposal of spent chemicals, creates new sources of supply from waste streams that were previously dumped and makes for a cleaner environment for all concerned.

f) The temporary storage and shipment of sealed drums of spent solvent from this facility will not have any adverse effect on existing air and water quality. (See contingency plan in case of leaks or spillage.)

g) The proposed storage facility is well suited for its intended use because of it's location in an industrial area and it's close proximity to transportation routes.

h) At the present time, there are no size and weight limits on access roads which would limit necessary vehicle traffic to and from the storage site.

Contingency plans are in effect to cope with any accidents involving leaking drums or spillage.

1) A 65 gallon recovery drum is kept on the premises at all times for containment of any leakage that might result from a damaged drum.

2) Material Safety Data Sheets are on file in the office for all products handled at this facility.

3) Contain the spill and keep the accident from getting worse. Treat the spill with utmost respect until technical advice is available: dike off the area; stop the leak; upright the leaking container. Do whatever is possible to keep the spill from spreading. Do not wash down the spill unless advised to do so by a person who understands the properties of the chemical. Keep people and vehicles away. Transfer the remaining contents of the leaker into a container that can be safely removed from the area. Pick up liquid by using absorbent material. Spread the absorbent material around the spill and sweep toward the center. Then sweep the absorbent and place the material in a disposable plastic bag or drum.

4) Report the spill to the proper authorities according to E.P.A. and RCRA regulations.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY MEMORANDUM

Frank SAS **REFERENCE NUMBER 02**

DATE: November 10, 1980

TO: Division File

FROM: Amy J. Loiselle AJL

SUBJECT: Winnebago County-LPC-20103027-Rockford/McKesson Chemical Company
Pre-Developmental Permit Inspection

On November 10, 1980, the author met Jerome B. Moening of McKesson Chemical at their storage-transfer facility at 2639 Sewell Street, Rockford, Illinois.

They use this warehouse to distribute their products and store **waste solvent.** When enough quantity accumulates, Waste Research and Reclamation, Inc., Eau Claire, Wisconsin hauls and reclaims their wastes.

The site conditions noted conform with the permit application. It is surrounded on four (4) sides by industrial and commercial facilities. A row of five (5) residences borders the east side of the facility and residential areas are located two (2) blocks south of the facility. A "concrete-lined" drainage creek borders the south edge of the McKesson Chemical Company property.

Two (2) barrel storage areas were noted. Approximately 40 barrels of **non-flammable wastes**, three (3) on a pallet, were stacked two (2) pallets high in the "northern" area. Approximately 30 barrels of **flammable wastes** were stacked two (2) pallets high in the "southern" area. The barrels appeared to be in good condition.

According to Mike Rogers, DLPC-Special Wastes unit, there are 31 authization numbers on waste streams going to this facility.

cc: Rockford Region
Land FOS Manager-Bill Child
Permit Section-Sally Smith

RECEIVED
NOV 26 1980
E.P.A. — D.L.P.C.
STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY STATE OF ILLINOIS

L P C F C 0 5 5 C
(1) (8) (9)

OBSERVATION REPORT - SITE INVENTORY NO. 20103027
(11) (18)

Winnebago CO. - L.P.C. Region # R Date 9 / 14 / 81
(20) (25)

Rockford / McKesson Chemical Letter Sent (Yes or No) N
(Location) (Responsible Party) (26)

Samples Taken: Yes ( ) No (X) Time: From 10 : 00 am Weather & 70 dry
Ground Water( ) Surface( ) Other( ) To 10 : 10 am
Photos Taken: Yes ( ) No (X) Interviewed Insurance Liq. Inspector P D L
(27) (29)

Previous Inspection Pre-De 11/10/80 Previous Correspondence -0- Site Open: Yes( ) No(X)

OPERATIONAL STATUS:		TYPE OF OPERATION:				AUTHORIZATION:	
Operating	( )	Landfill	( )	Storage	( )	E.P.A. Permit	( )
Temporarily Closed	( )	Random Dump	( )	Salvage	( )	Variance	( )
Closed Not Covered	( )	Other	(X)	A.C.D.	( )	21(e)	( )N/A
Closed and Covered	(X)	Quantity Received Daily(1-6)	1			Board Order	( )
		Haz. Waste Transfer Station (30)				Illegal (5)	( ) (31)

IMPROVED

LPC 4 1/79 5,000

SAME N/A

DETERIORATED

I S or D S (
(62)

GENERAL REMARKS:
Bob Wengrow and I went to this site to conduct an ISS inspection. Bob spoke with someone from Insurance Liquidators (new occupants) who told him that McKesson had been gone for about two months. Bob and I walked behind the building to see if anything had been left behind. We inspected the concrete runoff channel and noted nothing visibly wrong. Behind the building we found two empty 55g drums. Both were of wastes that McKesson had permits to accept Trichlorethylene and Methylene chloride. The Meth. chl. drum had Mckesson's

INTERVIEW: name on it. The file is being closed out and gradually I am inspecting generators who used this facility to determine where their wastes are going now.

DIAGRAM:

RECEIVED
SEP 22 1981
E.P.A. — D.L.P.C.
STATE OF ILLINOIS

ILLINOIS Environmental Protection Agency

2200 Churchill Road, Springfield, Illinois 62706

REFERENCE NUMBER 03

217/782-6760

Permit Issued: 04/13/81 Permit Number 997697
Application Received @ IEPA: 02/27/81 Permit Expires: 06/13/81

Permit Issued To: McKesson Chemical
Address: 2639 Sewell Street
Rockford, Illinois 61109
Attention: Jerome Monening

Waste Name: Perchloroethylene

Waste Generator: Claud S. Gordon Company IEPA Generator No.: 1110750001
Waste Generated At: 5710 Kenosha
Richmond, Illinois 60071
Attention: M. McDonagh

Disposal Site: McKesson Chemical IEPA Site No.: 20103027

Volume Authorized: 1000 Gallons
Disposition of Waste:

Recovery

Permit to receive the indicated waste is granted.

This permit is granted subject to the standard conditions indicated on the reverse side.

Rama K. Chaturvedi

Rama K. Chaturvedi, P.E.
Manager
Special Waste Unit
Residual Management Section
Division of Land/Noise Pollution Control

RKC:MDR:bv/0149C/32

cc: Claud S. Gordon Company
McKesson Chemical
Region

ILLINOIS Environmental Protection Agency
2200 Churchill Road, Springfield, Illinois 62706

217/782-6760

Permit Issued: 3-25-81
Application Received @ IEPA: 3-9-81

Permit Number 891886
Permit Expires: 6-10-81

Permit Issued To: McKesson Chemical Co.
Address: 2635 Sewell St.
Rockford, Illinois 61109

Waste Name: Methyl Ethyl Ketone

Waste Generator: Spaulding Fibre Co.
Waste Generated At: 1300 S. 7th St.
DeKalb, Illinois 60115

IEPA Generator No.: 0370100002

Attn: Bob Carr

Disposal Site: McKesson Chemical

IEPA Site No.: 20103027

Volume Authorized: 5,000 Gallons
Disposition of Waste:

Storage

Permit to receive the indicated waste is granted.

This permit is granted subject to the standard conditions indicated on the reverse side.

Rama K. Chaturvedi

Rama K. Chaturvedi, P.E.
Manager
Special Waste Unit
Residual Management Section
Division of Land/Noise Pollution Control

RKC:MDR:bjm/2953H/35

cc: Spaulding Fibre Co.
McKesson Chemical Co.
Region

ILLINOIS Environmental Protection Agency
2200 Churchill Road, Springfield, Illinois 62706
217/782-6760

Permit Issued: 5/7/81
Application Received @ IEPA: 3/9/81

Permit Number 992122
Permit Expires: 6/30/81

Permit Issued To: McKesson Chemical, Inc.
Address: 2639 Jewell Street
Rockford, Illinois 61109
Attention: Jerome Monening

Waste Name: Trichloroethylene

Waste Generator: Commercial Wire Products
Waste Generated At: 1825 Broadway
Rockford, Illinois 61108
Attention: Harold Ellis

IEPA Generator No.: 2010302001

Disposal Site: McKesson Chemical

IEPA Site No.: 20103027

Volume Authorized: 500 Gallons
Disposition of Waste:

Storage

Permit to receive the indicated waste is granted.

This permit is granted subject to the standard conditions indicated on the reverse side.

Rama K. Chaturvedi

Rama K. Chaturvedi, P.E.
Manager
Special Waste Unit
Residual Management Section
Division of Land/Noise Pollution Control

RKC:MDR:bls/0362c,1

cc: Commerical Wire Products
McKesson Chemical Company
Region

FACILITY: 2010300 ROCKFORD *** CONTINUED ***

70304	TOTAL DISSOLVED SOLIDS MG/L BY EC	530.000
71900	MERCURY,TOTAL UG/L AS HG	0.020 < 2.000

SAMPLE NO: Z004521 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: V-VOC OBSRVATNS:

COLL DATE: 10/29/85 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 10/85 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <			
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <			
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000 <			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		8.500	7.000*		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <	200.000		
0000001	016	39180	TRICHLOROETHYLENE UG/L		1.000 <	5.000		
0000001	017	00010	WATER TEMPERATURE DEG C		12.500			
0000001	018	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		124.000-			
0000001	019	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		830.000			
0000001	020	00400	PH PH UNITS		7.000			
0000001	021	00410	ALKALINITY,TOTAL MG/L AS CACO3		340.000			
0000001	022	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		63.000			
0000001	023	90410			324.000			

FACILITY: 2010300 ROCKFORD STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 31 BILDAHL ST N OF BROOK RD STATUS: A
RAW SRCE: 11662 UNITWELL 35 2500 GPM STATUS: I

SAMPLE NO: Z004253 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: B-GWM PEST OBSRVATNS:

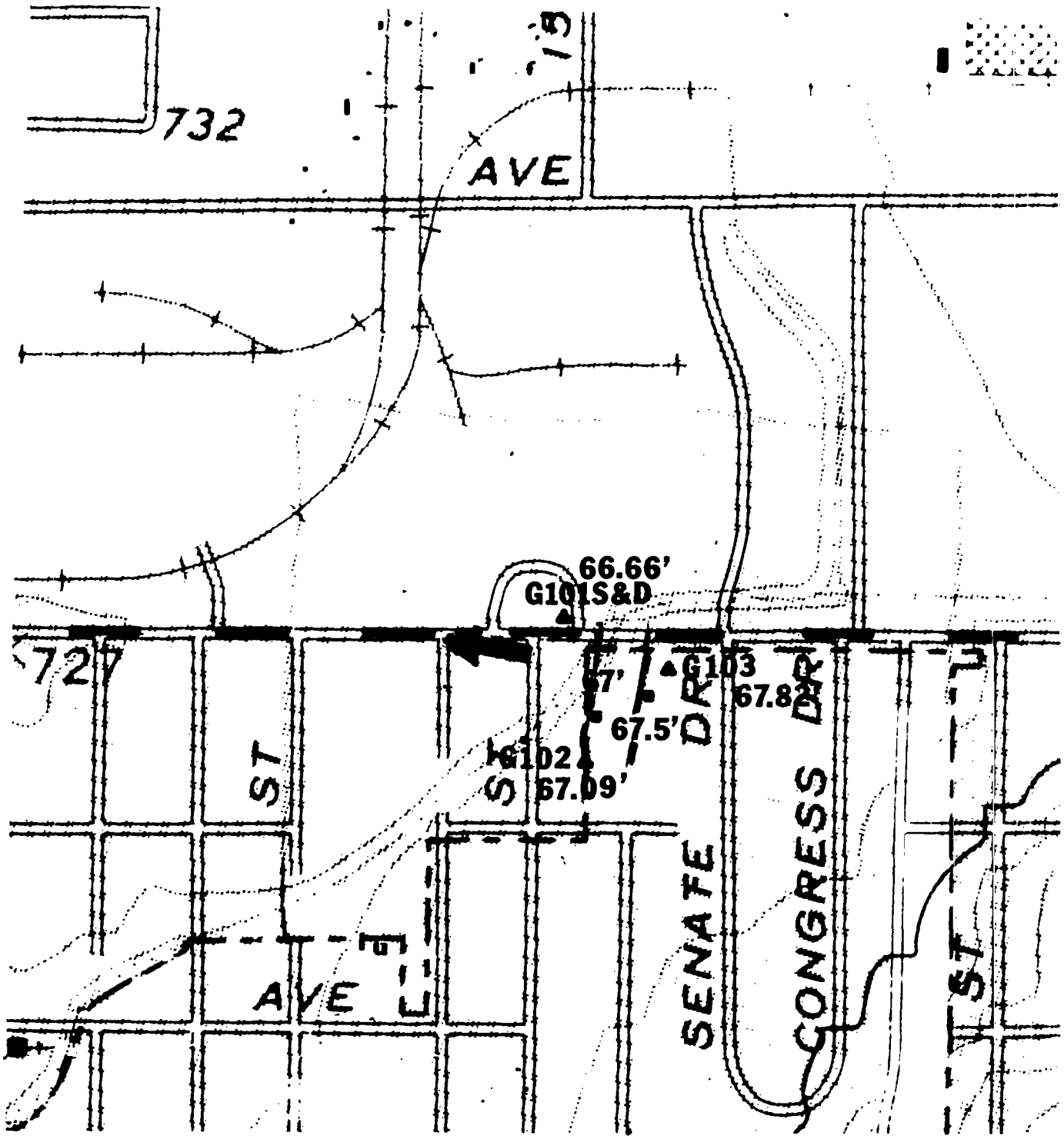
COLL DATE: 10/23/85 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPEPVISOR:
SMPL PERIOD: 10/85 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	39023	PHORATE UG/L		0.050 <			
0000001	002	39300	P,P'-DDT UG/L		0.010 <			
0000001	003	39305	O,P'-DDT UG/L		0.010 <			

REFERENCE NUMBER 06

Barretts Mobil Home Park

Peizometeric Surface 8/29/88



G102▲ Monitor Well &
67.09' Water Level
■ Production Well
67.5' Contour with Elevation
Ground Water Flow

N

Scale

ordance with "Illinois Department of Public Health Rules for Drinking Water S...
her related standards. Action should be taken on those items marked with an asterisk (*).

M	REMARKS
:	*East well is located adjacent to the southeast corner of the house located just west of space #E-5. This well serves 15 lot and 3 homes. Well depth is 160 feet with 6 inch casing to approximately 60 feet. Casing terminates above ground level approximately 2½ feet. The well cap should be tightened so that no contamination can enter the well. The well pit is constructed of poured concrete. The pit has raised lip with overhanging lid and is not equipped with floor drain or sump pump. It is recommended that an automatic sump pump be obtained and installed. Red Jacket submersible pump believed to be 2 hp. Request gallons per minute of pump be obtained and forwarded to this office. It is recommended that a well log be obtained for this well and a copy submitted to this office. The well pump is not equipped with standby auxiliary power to maintain continuous pressure in case of an electrical power failure. The present installation does not conform to Rule 4.05(d) of the Mobile Home Park Regulations. It is recommended that standby auxiliary power equipment be obtained and installed.
2:	*West well is located on northwest corner of lot W-7 and serves 25 lots and 2 homes. Well depth is 240 feet with 6 inch casing. Casing terminates 8 inches above ground. The earth should be filled around well #2 casing so that water will drain away from the casing and eliminate possible contaminants from seeping into the well. Pitless adaptor and approved well cap. Red Jacket submersible pump. Request information on gallons per minute of pump be obtained and forwarded to this office. It is recommended that a well log be obtained for this well and a copy submitted to this office. The well pump is not equipped with standby auxiliary power to maintain continuous pressure in case of an electrical power failure. The present installation does not conform to Rule 4.05(d) of the Mobile Home Park Regulations. It is recommended that standby auxiliary power equipment be obtained and installed.
ment & Test Equipment:	None.

FACILITY: 2015235 BARRETS MHP

*** CONTINUED ***

0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	470.000	
0000001	033	71900	MERCURY,TOTAL UG/L AS HG	0.010 <	2.000
0000001	034	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	20.000	
0000001	035	90410		283.000	

SAMPLE NO: D86994300 LOCATION: ROCKFORD/WELL 1 BARRETS MHP
SMPL TYPE: RAW COLLECTOR: R SONDELL
SMPL PURP: 9-VARIANCE COMMENTS: VOCS
SMPL PROG: V-VOC OBSRVATNS: 2 VOC

COLL DATE: 12/28/88 DELIVERED BY: MAIL
LAB RCVD: 12/29/88 RECEIVED BY: D V
LAB COMPL: 01/04/89 LAB SUPERVISOR: JTH
SMPL PERIOD: 12/88 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000 <			
431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000 <			
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000		7.000	
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	9.000			
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431WV00	009	34531	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <		5.000	
431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	16.000		200.000	
431WV00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000 <		5.000	
431WV00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	2.000		5.000	
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <			
431WV00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000 <			
431WV00	016	78124	BENZENE UG/L	UG/L	1.000 <		5.000	
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000 <			
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <			
431WV00	019	81551	XYLENE UG/L	UG/L	1.000 <			

SAMPLE NO: D86882800 LOCATION: ROCKFORD/BARRETS MHP/WELL 1
SMPL TYPE: RAW COLLECTOR: R SONDELL
SMPL PURP: 9-VARIANCE COMMENTS: VOC'S
SMPL PROG: V-VOC OBSRVATNS: 2 VOC

COLL DATE: 11/08/88 DELIVERED BY: MAIL
LAB RCVD: 11/09/88 RECEIVED BY: TJW
LAB COMPL: 11/29/88 LAB SUPERVISOR: JTH
SMPL PERIOD: 11/88 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000 <			
431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000 <			
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <		7.000	
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	6.000			
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431WV00	009	34531	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <		5.000	

FACILITY: 2015235 BARRETS MHP *** CONTINUED ***

431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	15.000	200.000	
431WV00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000 <	5.000	
431WV00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	2.000	5.000	
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <		
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <		
431WV00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000 <		
431WV00	016	78124	BENZENE UG/L	UG/L	1.000 <	5.000	
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000 <		
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <		
431WV00	019	81551	XYLENE UG/L	UG/L	1.000 <		

SAMPLE NO: D86676900 LOCATION: ROCKFORD/WELL 2
SMPL TYPE: RAW COLLECTOR: R SONDELL
SMPL PURP: 9-VARIANCE COMMENTS: VOCS
SMPL PROG: V-VOC OBSRVATNS: 2 VOC

COLL DATE: 08/08/88 DELIVERED B' "AIL
LAB RCVD: 08/09/88 RECEIVED P' V
LAB COMPL: 08/30/88 LAB SUPERVIS "4
SMPL PERIOD: 08/88 FUND CODE W30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000 <			
431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000 <			
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	7.000		
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	5.000			
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431WV00	009	34531	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <	5.000		
431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	13.000	200.000		
431WV00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000 <	5.000		
431WV00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	3.000	5.000		
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <			
431WV00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000 <			
431WV00	016	78124	BENZENE UG/L	UG/L	1.000 <	5.000		
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000 <			
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <			
431WV00	019	81551	XYLENE UG/L	UG/L	1.000 <			

SAMPLE NO: D75999600 LOCATION: BARRETS MHP/ WELL 1/ ROCKFORD
SMPL TYPE: RAW COLLECTOR: R SONDELL
SMPL PURP: 9-VARIANCE COMMENTS: VOC'S
SMPL PROG: V-VOC OBSRVATNS: 2 VOC

COLL DATE: 10/20/87 DELIVERED BY: MAIL
LAB RCVD: 10/21/87 RECEIVED BY: D V
LAB COMPL: 10/28/87 LAB SUPERVISOR: JTH
SMPL PERIOD: 10/87 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431A 00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431A 00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431A 00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			

FACILITY: 2015235 BARRETS MHP *** CONTINUED ***

431A 00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000	<	
431A 00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000	<	
431A 00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000		7.000
431A 00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	7.000		
431A 00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	5.000		
431A 00	009	77279	1,2-DICHLOROETHANE UG/L	UG/L	1.000	<	5.000
431A 00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	12.000		200.000
431A 00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000	<	5.000
431A 00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	3.000		5.000
431A 00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	
431A 00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000	<	
431A 00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000	<	
431A 00	016	78124	BENZENE UG/L	UG/L	1.000	<	5.000
431A 00	017	78131	TOLUENE UG/L	UG/L	1.000	<	
431A 00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000	<	
431A 00	019	81551	XYLENE UG/L	UG/L	1.000	<	

SAMPLE NO: D75851600 LOCATION: BARRETS MHP WELL 1
SMPL TYPE: RAW COLLECTOR: R SONDELL
SMPL PURP: 9-VARIANCE COMMENTS: VOCS
SMPL PROG: V-VOC OBSRVATNS: 2 VOC

COLL DATE: 08/20/87 DELIVERED BY: MAIL
LAB RCVD: 08/21/87 RECEIVED BY: D V
LAB COMPL: 09/02/87 LAB SUPERVISOR: JTH
SMPL PERIOD: 08/87 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431A 00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000	<			
431A 00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000	<			
431A 00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000	<			
431A 00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000	<			
431A 00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000	<			
431A 00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	2.000		7.000		
431A 00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	7.000				
431A 00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	9.000				
431A 00	009	77279	1,2-DICHLOROETHANE UG/L	UG/L	1.000	<	5.000		
431A 00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	19.000		200.000		
431A 00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000	<	5.000		
431A 00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	2.000		5.000		
431A 00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<			
431A 00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000	<			
431A 00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000	<			
431A 00	016	78124	BENZENE UG/L	UG/L	1.000	<	5.000		
431A 00	017	78131	TOLUENE UG/L	UG/L	1.000	<			
431A 00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000	<			
431A 00	019	81551	XYLENE UG/L	UG/L	1.000	<			

SAMPLE NO: Z004270 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: V-VOC OBSRVATNS:

COLL DATE: 12/17/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 12/86 FUND CODE:

REPORT: PWGWP048
MODULE: PWGWM026

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

DATE: 05/09/89

FACILITY: 2015235 BARRETS MHP

*** CONTINUED ***

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <			
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <			
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		7.000			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		2.000	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		12.000	200.000		
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		4.000			
0000001	017	39180	TRICHLOROETHYLENE UG/L		3.000	5.000		

SAMPLE NO: Z004269 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: V-VOC OBSRVATNS:

COLL DATE: 09/30/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 09/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <			
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <			
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		9.000			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		2.000	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		12.000	200.000		
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		3.000			
0000001	017	39180	TRICHLOROETHYLENE UG/L		4.000	5.000		
0000001	018	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		2.000			

SAMPLE NO: Z004268 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR

COLL DATE: 06/17/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:

REPORT: PWGWP048
MODULE: PWGWM026

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

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FACILITY: 2015235 BARRETS MHP

*** CONTINUED ***

SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: V-VOC OBSRVATNS:

LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 06/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <			
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <			
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		9.000			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		4.000	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		18.000	200.000		
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		4.000			
0000001	017	39180	TRICHLOROETHYLENE UG/L		6.000	5.000*		

SAMPLE NO: Z004266 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: V-VOC OBSRVATNS:

COLL DATE: 01/07/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 01/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000			
0000001	007	34010	TOLUENE UG/L		1.000 <			
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <			
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		4.600			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		2.700	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		8.500	200.000		
0000001	016	34571	PARA-DICHLOROBENZENE UG/L		1.000 <	75.000		
0000001	017	39180	TRICHLOROETHYLENE UG/L		3.300	5.000		
0000001	018	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		20.000			

FACILITY: 2015235 BARRETS MHP

*** CONTINUED ***

SMPL TYPE: RAW COLLECTOR: R SONDELL
SMPL PURP: 9-VARIANCE COMMENTS: VOCS
SMPL PROG: V-VOC OBSRVATNS: 2 VOC

LAB RCVD: 12/29/88 RECEIVED BY: D V
LAB COMPL: 01/04/89 LAB SUPERVISOR: JTH
SMPL PERIOD: 12/88 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000 <			
431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000 <			
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	2.000	7.000		
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	9.000			
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431WV00	009	34531	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <	5.000		
431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	14.000	200.000		
431WV00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000 <	5.000		
431WV00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	4.000	5.000		
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <			
431WV00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000 <			
431WV00	016	78124	BENZENE UG/L	UG/L	1.000 <	5.000		
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000 <			
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <			
431WV00	019	81551	XYLENE UG/L	UG/L	1.000 <			

SAMPLE NO: D86882900 LOCATION: ROCKFORD/BARRETS MHP/WELL 2
SMPL TYPE: RAW COLLECTOR: R SONDELL
SMPL PURP: 9-VARIANCE COMMENTS: VOC'S
SMPL PROG: V-VOC OBSRVATNS: 2 VOC

COLL DATE: 11/08/88 DELIVERED BY: MAIL
LAB RCVD: 11/09/88 RECEIVED BY: TJW
LAB COMPL: 11/29/88 LAB SUPERVISOR: JTH
SMPL PERIOD: 11/88 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000 <			
431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000 <			
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <	7.000		
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	6.000			
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431WV00	009	34531	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <	5.000		
431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	12.000	200.000		
431WV00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000 <	5.000		
431WV00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	3.000	5.000		
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <			
431WV00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000 <			

FACILITY: 2015235 BARRETS MHP *** CONTINUED ***

431WV00	016	78124	BENZENE UG/L	UG/L	1.000 <	5.000	
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000 <		
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <		
431WV00	019	81551	XYLENE UG/L	UG/L	1.000 <		

SAMPLE NO: D86676800 LOCATION: ROCKFORD/WELL 1 COLL DATE: 08/08/88 DELIVERED BY: MAIL
SMPL TYPE: RAW COLLECTOR: R SONDELL LAB RCVD: 08/09/88 RECEIVED BY: D V
SMPL PURP: 9-VARIANCE COMMENTS: VOCS LAB COMPL: 08/30/88 LAB SUPERVISOR: JTH
SMPL PROG: V-VOC OBSRVATNS: 2 VOC SMPL PERIOD: 08/88 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000 <			
431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000 <			
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <	7.000		
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	5.000			
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431WV00	009	34531	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <	5.000		
431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	15.000	200,000		
431WV00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000 <	5.000		
431WV00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	2.000	5.000		
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <			
431WV00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000 <			
431WV00	016	78124	BENZENE UG/L	UG/L	1.000 <	5.000		
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000 <			
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <			
431WV00	019	81551	XYLENE UG/L	UG/L	1.000 <			
5001200	002	00094	CONDUCTIVITY - FIELD (UMHOS/CM @ 25 C)	UM/CM	0.000			

SAMPLE NO: D75999700 LOCATION: BARRETS MHP/WELL 2/ROCKFORD COLL DATE: 10/20/87 DELIVERED BY: MAIL
SMPL TYPE: RAW COLLECTOR: R SONDELL LAB RCVD: 10/21/87 RECEIVED BY: D V
SMPL PURP: 9-VARIANCE COMMENTS: VOC'S LAB COMPL: 10/28/87 LAB SUPERVISOR: JTH
SMPL PROG: V-VOC OBSRVATNS: 2 VOC SMPL PERIOD: 10/87 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431A 00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431A 00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431A 00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431A 00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000 <			
431A 00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000 <			
431A 00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	2.000	7.000		
431A 00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	6.000			
431A 00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	5.000			

FACILITY: 2015235 BARRETS MHP *** CONTINUED ***

431A 00	009	77279	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <	5.000	
431A 00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	12.000	200.000	
431A 00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000 <	5.000	
431A 00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	3.000	5.000	
431A 00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <		
431A 00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <		
431A 00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000 <		
431A 00	016	78124	BENZENE UG/L	UG/L	1.000 <	5.000	
431A 00	017	78131	TOLUENE UG/L	UG/L	1.000 <		
431A 00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <		
431A 00	019	81551	XYLENE UG/L	UG/L	1.000 <		

SAMPLE NO: D75851700 LOCATION: BARRETS MHP WELL 2
SMPL TYPE: RAW COLLECTOR: R SONDELL
SMPL PURP: 9-VARIANCE COMMENTS: VOCS
SMPL PROG: V-VOC OBSRVATNS: 2 VOC

COLL DATE: 08/20/87 DELIVERED BY: MAIL
LAB RCVD: 08/21/87 RECEIVED BY: D V
LAB COMPL: 09/02/87 LAB SUPERVISOR: JTH
SMPL PERIOD: 08/87 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431A 00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431A 00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431A 00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431A 00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000 <			
431A 00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000 <			
431A 00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	2.000	7.000		
431A 00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	7.000			
431A 00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431A 00	009	77279	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <	5.000		
431A 00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	17.000	200.000		
431A 00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000 <	5.000		
431A 00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	2.000	5.000		
431A 00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431A 00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <			
431A 00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000 <			
431A 00	016	78124	BENZENE UG/L	UG/L	1.000 <	5.000		
431A 00	017	78131	TOLUENE UG/L	UG/L	1.000 <			
431A 00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <			
431A 00	019	81551	XYLENE UG/L	UG/L	1.000 <			

SAMPLE NO: D75851800 LOCATION: BLANK W/58516-17
SMPL TYPE: RAW COLLECTOR: R SONDELL
SMPL PURP: 9-VARIANCE COMMENTS: VOCS
SMPL PROG: V-VOC OBSRVATNS: 2 BLANKS

COLL DATE: 08/20/87 DELIVERED BY: MAIL
LAB RCVD: 08/21/87 RECEIVED BY: D V
LAB COMPL: 09/02/87 LAB SUPERVISOR: JTH
SMPL PERIOD: 08/87 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431A 00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431A 00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			

FACILITY: 2015235 BARRETS MHP *** CONTINUED ***

431A 00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000	<	
431A 00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000	<	
431A 00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000	<	
431A 00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	7.000
431A 00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	
431A 00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	
431A 00	009	77279	1,2-DICHLOROETHANE UG/L	UG/L	1.000	<	5.000
431A 00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	200.000
431A 00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000	<	5.000
431A 00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	1.000	<	5.000
431A 00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	
431A 00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000	<	
431A 00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000	<	
431A 00	016	78124	BENZENE UG/L	UG/L	1.000	<	5.000
431A 00	017	78131	TOLUENE UG/L	UG/L	1.000	<	
431A 00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000	<	
431A 00	019	81551	XYLENE UG/L	UG/L	1.000	<	

SAMPLE NO: Z004274 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: V-VOC OBSRVATNS:

COLL DATE: 09/30/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 09/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <			
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <			
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		7.000			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		2.000	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		13.000	200.000		
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		3.000			
0000001	017	39180	TRICHLOROETHYLENE UG/L		3.000	5.000		
0000001	018	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		4.000			

SAMPLE NO: Z004273 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: V-VOC OBSRVATNS:

COLL DATE: 06/17/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 06/86 FUND CODE:

FACILITY: 2015235 BARRETS MHP

*** CONTINUED ***

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <			
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <			
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		5.000			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		3.000	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		13.000	200.000		
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		5.000			
0000001	017	39180	TRICHLOROETHYLENE UG/L		6.000	5.000*		
0000001	018	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		10.000			

SAMPLE NO: Z004271 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: V-VOC OBSRVATNS:

COLL DATE: 01/07/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 01/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <			
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <			
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		3.700			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.800	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		6.200	200.000		
0000001	016	34571	PARA-DICHLOROBENZENE UG/L		1.000 <	75.000		
0000001	017	39180	TRICHLOROETHYLENE UG/L		1.300	5.000		
0000001	018	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		10.000			
0000001	019	90410			284.000			

Illinois Environmental Protection Agency **Monitor Well Construction**

County: Winnebago Boring No.: B1

Site File Name: Barretts Mobil Home Park Monitor Well No.: G101S

Site File No.: 2010000000 Prepared By: Steve VanHook

Monitor Well Location 2020 Harrison, Borg Warner

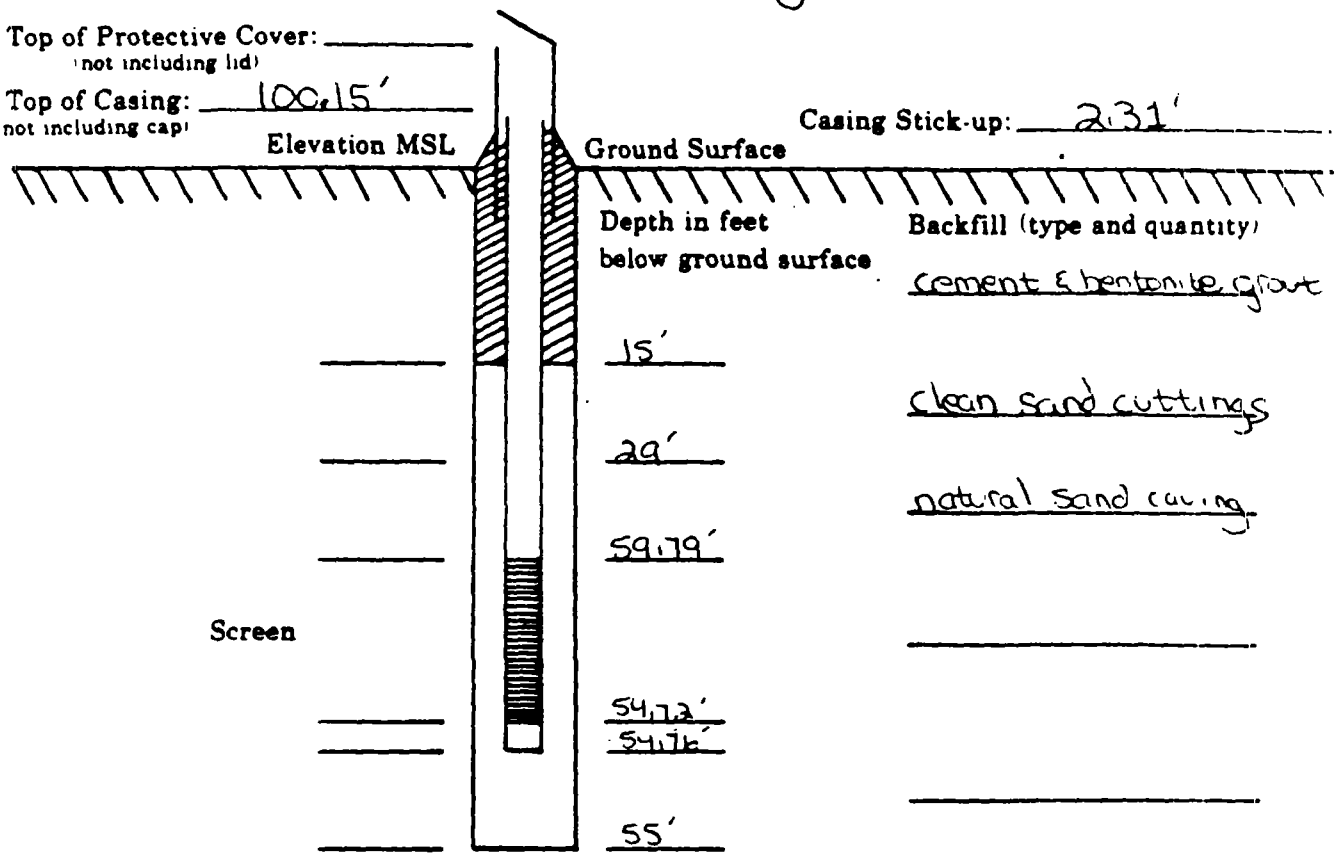
Top of Protective Cover: _____
(not including lid)

Top of Casing: 100.15'
(not including cap)

Elevation MSL

Casing Stick-up: 2.31'

Ground Surface



Depth in feet below ground surface	Backfill (type and quantity)
	cement & bentonite grout
15'	
	clean sand cuttings
29'	
	natural sand caving
59.79'	
54.73'	
54.76'	
55'	

Casing Type and Size: Johnson S.S type 304

Screen Type and Size: Johnson S.S. type 304, .01 inch slot size

Casing Field Measurements:

bottom of screen .04'
top of screen 5.03'
1st joint 5.13'
10.0'
10.0' (2x5')
10.01' (2x5')
9.99' (2x5')
10.03 (2x5')
1.91'

Total Length of Casing 57.07'

Plug (type) _____

Cap (type) _____

Protective Cover (type and size) 4"x5' steel with locking cover

Illinois Environmental Protection Agency **Monitor Well Construction**

County: Winnebago Boring No.: B1

Site File Name: Barretts Mobil Home Park Monitor Well No.: G101D

Site File No.: 2010000000 Prepared By: Steve VanHook

Monitor Well Location 2020 Harrison, Borg Warner

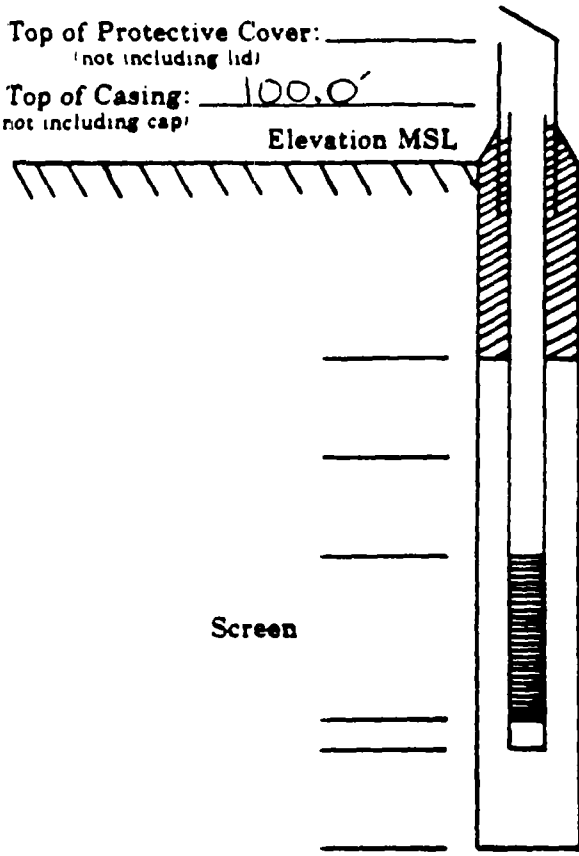
Top of Protective Cover: _____
(not including lid)

Top of Casing: 100.0'
(not including cap)

Elevation MSL

Casing Stick-up: _____

Ground Surface



Depth in feet below ground surface	Backfill (type and quantity)
	cement & bentonite
15'	
	clean sand cuttings
30'	
	natural sand caving
90.09 (below T.O.C.)	
95.08 (below T.O.C.)	
95.12 (below T.O.C.)	
93.5	

Screen

Casing Type and Size: Johnson SS type 304

Screen Type and Size: Johnson SS type 304, .01 inch slot size

Casing Field Measurements:

bottom of screen .04'
top of screen 5.03'
1st joint 5.12'
9.99', 10.0'
10.0', 10.0'
9.99' (2x5')
10.01' (2x5')
10.01' (2x5')
10.0' (2x5')
10.0' (2x5')

Total Length of Casing 95.12'

Plug (type) _____

Cap (type) _____

Protective Cover (type and size) 4"x5' steel with locking cover

Illinois Environmental Protection Agency **Field Boring Log** Page 1 of 3

Site File No.: 2010000000 County Winnebago Boring No. B1 Monitor Well No. [illegible]

Site File Name Barretts Mobil Home Park Surface Elev. _____ Completion Depth _____

Fed ID No _____ Auger Depth 93.5' Rotary Depth _____

Quadrangle Rockford South Sec. 36 T. 44N R. 1E Date: Start 7/12/88 Finish [illegible]

Boring Location 2020 Harrison, Boarg Warner

Drilling Equipment CME 55 with 3¼" augers

Personnel
G - S. Vanhook
D - D. Tolan
H - [illegible]
H - [illegible]

Elev	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	0' to 3.5': Soil								
	3.5' to 5': Brown sandy silt								
	5' to 10': light yellowish brown sand, fine grain, trace silt	5'							
	10' to 12': very pale brown sand, fine to medium grained, trace gravel.	10'	1	SS	X				
		15'							
	20' to 21': very pale brown sand, fine to medium grained								
	21' to 21.4': yellow sand, very fine grained	20'	2	SS	X				
	21.4' to 21.5': very pale brown sand, fine to medium grained								
		25'							
	30' to 31.07': very pale yellow, medium to coarse grained sand, trace small gravel.	30'	3	SS	X				
		35'							

Illinois Environmental Protection Agency **Field Boring Log** Page 2 of 3

Site File No.: 2010000000 County Winnebago Boring No. B-1 Monitor Well No

Site File Name Barretts Mobile Home Park Surface Elev. Completion Depth

Feed ID No Auger Depth 93.5' Rotary Depth

Quadrangle Rockford South Sec. 36 T. 44N R. 1E Date: Start 7/21/86 Finish 7/21/86

Boring Location 2020 Harrison, Borg Warner

Drilling Equipment CME 55 with 3¼" augers

Personnel: G - S. VanHook; D - D. Tolan; H - D. Halford; H - R. Irwin

Elev	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	40' to 40.7' pale brown sand, med. to coarse grained.	40'	4	SS	X				
	40.7' to 41.43': same with 2.5 to 1 cm gravel	45'							
	50' to 51.2': light brownish gray sand, fine to medium grained, with gravel after 50.8'	50'	5	SS	X				@ 52' hard [illegible]
	51.2' to 51.65' pale brown sand, very fine grain	55'							@ 55' very hard [illegible]
	59' to 61' Gray calcarious sandy clay	60'	6	SS	X				@ 60', 2.3 [illegible] augers
	65' to 67' Grayish brown clayey, silty sand, fine grained contains clay stringers	65	7	SS	X				
		70'							

Illinois Environmental Protection Agency **Field Boring Log** Page 3 of 3

Site File No.: 2010000000 County Winnebago Boring No. _____ Monitor Well No. Cross

Site File Name Barrett's Mobil Home Park Surface Elev. _____ Completion Depth _____

Fed. ID No. _____ Auger Depth 93.5' Rotary Depth _____

Quadrangle Rockford South Sec. 36 T. 44N R. 1E Date: Start 7/12/93 Finish 7/12/93

Boring Location 2030 Harrison, Borg Warner

Drilling Equipment CME 55 with 3¼" augers

Personnel: G - Steve Vanhoot; D - D Tolen; H - D Halford; H - R. Irwin

Elev	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
		75'							
		80'							
	85' grayish brown silty sand, fine to coarse grained with gravel	85'		Ag					
		90'							
	(bedrock) Refusal @ 93.5'								

Illinois Environmental Protection Agency **Field Boring Log** Page 2 of 2

Site File No.: 2010000000 County Winnebago Boring No. B-2 Monitor Well No. G102

Site File Name Barretts Mobil Home Park Surface Elev. _____ Completion Depth _____

Fed. ID. No. _____ Auger Depth 84' Rotary Depth _____

Quadrangle Rockford South Sec. 1 T. 43N R. 1E Date: Start 8/20/86 Finish 8/20/86

Boring Location Southwest corner of trailer park

Drilling Equipment CME 75, 3 3/4" augers

Personnel: G - S Otto; D - K. Bosie; H - A. Colombino; H -

Elev	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
		40'							
	245' becoming more coarse	45'							
	50'-80': medium to coarse sand with trace gravel, 3-5cm	50'							
		55'							257.5' pressure chan
		60'							
		65'							
		Δscale							
	80'-84': weathered bedrock.	80'							
	refusal at 84'								

Illinois Environmental Protection Agency **Monitor Well Construction**

County: Winnebago Boring No.: B-3

Site File Name: Barretts Mobil Home Monitor Well No.: G103

Site File No.: 2010000000 Prepared By: S. VanHook

Monitor Well Location east side of trailer park

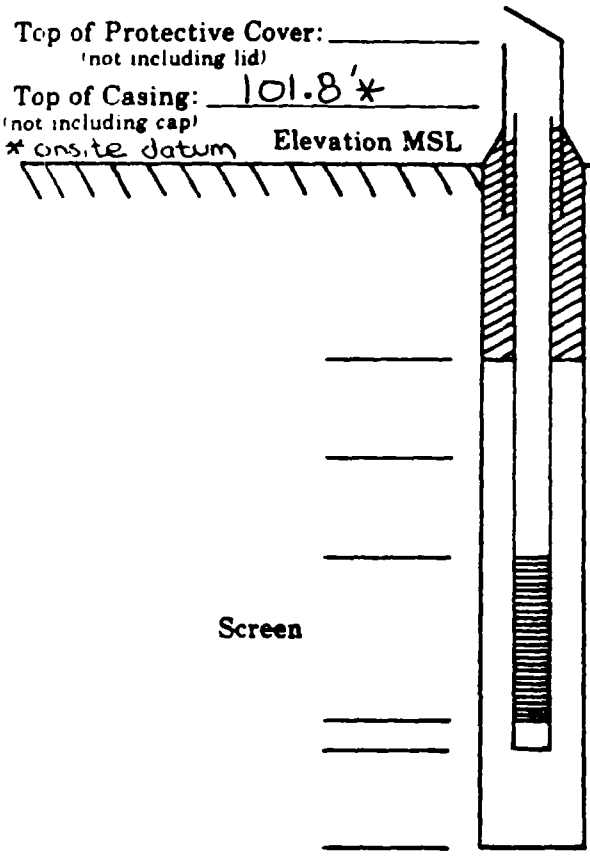
Top of Protective Cover: _____
(not including lid)

Top of Casing: 101.8'*
(not including cap)
* onsite datum

Elevation MSL

Casing Stick-up: 2.81'

Ground Surface



Depth in feet below ground surface	Backfill (type and quantity)
	5 bags cement & bentonite
20'	
	clean sand cuttings
31'	
	natural sand coving
49.18'	
Screen	
54.18'	
54.22'	
55'	

Casing Type and Size: Johnson S.S., type 304

Screen Type and Size: Johnson SS type 304, .101 inch slot size

Casing Field Measurements:

bottom of screen .04'
top of screen 5.04'
1st joint 10'
5.0'
5.0'
5.0'
5.0'
5.0'
5.0'
5.0'
4.99' & 1.91'

Total Length of Casing 57.03

Plug (type) _____

Cap (type) _____

Protective Cover (type and size) 4"x5' steel with locking cover

Illinois Environmental Protection Agency **Field Boring Log** Page 1 of 3

Site File No.: 2010000000 County Winnebago Boring No. B-3 Monitor Well No. G103

Site File Name Barretts Mobil Home Park Surface Elev. _____ Completion Depth _____

Fed ID No. _____ Auger Depth 83' Rotary Depth _____

Quadrangle Rockford South Sec. 1 T. 43N R. 1E Date: Start 8/20/88 Finish 8/2/88

Boring Location East side of trailer park

Drilling Equipment CME 55 with knockout plate

Personnel: G - S Vanteek; D -; H - R. Irwin; H -

Elev.	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	0'-5': Black Soil			Cuttings					
	5'-7': Dark Yellow sand, fine grained	5'							
	7'-12': Yellow sand, fine grained								
		10'							
	12'-15': Yellowish brown sand, fine grained, well sorted, clean								
	15'-37': Light yellowish brown sand, fine grained, well sorted	15'							
		20'							
		25'							
		30'							
		35'							

Illinois Environmental Protection Agency **Field Boring Log** Page 2 of 3

Site File No.: 2010000000 County Winnebago Boring No. B-3 Monitor Well No. G103

Site File Name Barretts Mobil Home Park Surface Elev. _____ Completion Depth _____

Fed ID. No. _____ Auger Depth 83' Rotary Depth _____

Quadrangle Rockford South Sec. 1 T. 43N R. 1E Date: Start 8/20/88 Finish 8/2/88

Boring Location East side of trailer park

Drilling Equipment CME 55 with knockout plate

Personnel: G - S VanHook; D - D. Tolan; H - R. Irwin; H -

Elev.	DESCRIPTION	Depth in feet	Sample No.	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	37'-50': Yellowish brown sand, some gravel, fine to medium grained sand, gravel small to medium.	40'							
		45'							
	50'-55'. Yellowish brown sand, fine to coarse grained	50'							
	55'-69': Yellowish brown sand & gravel, sand med. to coarse grained, gravel fine to med. size	55'							a Drillers note. drilling change at 57'
		60'							
		65'							
	69'-77.5': reddish gray clay till, sandy	70'							

Illinois Environmental Protection Agency **Field Boring Log** Page 3 of 3

Site File No.: 2010000000 County Winnebago Boring No. B-3 Monitor Well No. G103

Site File Name Barretts Mobil Home Park Surface Elev. _____ Completion Depth _____

Fed. ID No. _____ Auger Depth 83' Rotary Depth _____

Quadrangle Rockford South Sec. 1 T. 43N R. 1E Date: Start 8/20/88 Finish 8/2/88

Boring Location CME 55 with knockout plate

Drilling Equipment CME 55 with knockout plate

Personnel: G - D - I - H -

Elev.	DESCRIPTION	Depth in feet	Sample No.	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
		75'							
	77.5'-80': sand & gravel, sand fine grained, gravel small to cobble size.								
	80'-83': weathered bedrock	80'							
	end of boring								

Barretts MHP wells
ILD981956501

INORGANIC ANALYSIS
SUMMARY

ALL CONCENTRATIONS IN ug/l

SAMPLING POINT	G101S	G101D	G102	G103
	8-29-88	8-29-88	8-29-88	8-29-88
PARAMETER				
ALUMINUM	224.0	[130.0]	220.0	[130.0]
ANTIMONY	117.0		70.0	86.0
ARSENIC	10.5		12.0	1.0
BARIUM	59.0	[31.0]	44.0	[27.0]
BERYLLIUM				
CADMIUM	14.0		5.0	6.0
CALCIUM	96100.0	76300.0	81400.0	81300.0
CHROMIUM				9.0
COBALT				
COPPER	77.0	39.0	57.0	53.0
IRON				
LEAD	24.0	25.0	31.0	11.0
MAGNESIUM	48900.0	36300.0	36300.0	40900.0
MANGANESE	[11.0]	24.0		
MERCURY				
NICKEL				
POTASSIUM	[2100.0]	[2000.0]	[3200.0]	[2100.0]
SELENIUM	6.0		4.0	
SILVER				
SODIUM	67000.0	32000.0	46000.0	26000.0
THALLIUM				
TIN				
VANADIUM				
ZINC				
CYANIDE				
SULFATE	54000.0	45000.0	33000.0	45000.0
SULFIDE				
Pb (lab/field)				
CONDUCTIVITY (l/f)				

Barretts MHP wells
CLD981956501

INORGANIC ANALYSIS
SUMMARY

ALL CONCENTRATIONS IN mg/kg

SAMPLING POINT	X101	X102
	8-29-98	8-29-98
PARAMETER		
ALUMINUM	7020.00	1240.00
ANTIMONY		
ARSENIC	1.90	0.30
BARIUM	82.00	[14.0]
BERYLLIUM		
CADMIUM		
CALCIUM	14500.00	9280.00
CHROMIUM	12.30	9.60
COBALT	[5.8]	[2.0]
COPPER	12.60	11.30
IRON	9400.00	5090.00
LEAD	180.00	32.00
MAGNESIUM	8900.00	5300.00
MANGANESE	330.00	98.00
MERCURY	0.20	
NICKEL	13.00	10.20
POTASSIUM	[740.0]	[100.0]
SELENIUM		
SILVER		1.20
SODIUM		
THALLIUM		
TIN		
VANADIUM	22.00	[5.1]
ZINC	82.00	48.00
CYANIDE		0.28
SULFATE	190.00	74.00
SULFIDE		
Ph (lab/field)		
CONDUCTIVITY (1/f)		

Barretts MRP wells
IID 881956501

Table 4-1
Summary of Chemical Analysis Results
(Concentrtions in ug/l)

SAMPLING POINT	G101S 8-29-88	G101D 8-29-88	G102 8-29-88	G103 8-29-88
Volatiles				
Methylene Chloride	31.0 B	22.0 B	13.0 B	38.0 B
Acetone	31.0 B		16.0 B	
2-Butanone	29.0		55.0	
1,1,1-Trichloroethane	11.0	20.0	19.0	31.0
Carbon Tetrachloride	11.0		18.0	
Trichloroethene			1.0 J	
Pesticides				
Aldrin				
Heptachlor epoxide				
4,4'DDE				
Dieldrin				
4,4'DDT				
alpha-Chlordane				
Base/Neutrals				
Diethylphthalate	24.0 B	27.0 B	24.0 B	18.0 B
Phenanthrene				
Di-n-butylphthalate	40.0 B	44.0 B	47.0 B	40.0 B
Fluoranthene				
Pyrene				
Bis 2-ethylhexylphthalatte	11.0 B	17.0 B	10.0 JB	7.0 JB
Chrysene			4.0 J	
Benzo(a)anthracene				
Di-n-octylphthalate	22.0 B	70.0 B	9.0 JB	36.0 B
Benzo(k)fluoranthene				
Benzo(a)pyrene				

Barretts MHP wells
ILD 981956501

Table 4-1
Summary of Chemical Analysis Results
(Concentrtions in ug/kg)

SAMPLING POINT	X101 8-29-88	X102 9-29-88
Volatiles		
Methylene Chloride	11.0 B	11.0 B
Acetone	45.0 B	45.0 B
2-Butanone		
1,1,1-Trichloroethane		
Carbon Tetrachloride		
Trichloroethene		
Pesticides		
Aldrin	62.0	
Heptachlor epoxide	40.0	16.0
4,4'DDE	120.0	
Dieldrin	170.0	
4 4'DDT	41.0	
alpha-Chlordane	113.0	
Base/Neutrals		
Diethylphthalate		
Phenanthrene		528.0 JD
Di-n-butylphthalate	1270.0 JD	495.0 JD
Fluoranthene	276.0 JD	1020.0 JD
Pyrene	3455.0 D	1320.0 JD
Bis(2-ethylhexyl)phthalate		
Chrysene		1650.0 JD
Benzo(a)anthracene		924.0 JD
Di-n-octylphthalate		
Benzo(k)fluoranthene		2400.0 JD
Benzo(a)pyrene		1320.0 JD

Illinois Environmental Protection Agency **Monitor Well Construction**

County: Winnebago Boring No.: B-2b

Site File Name: Barretts Mobil Home Park Monitor Well No.: G102

Site File No.: 2010000000 Prepared By: Steve Van Hook

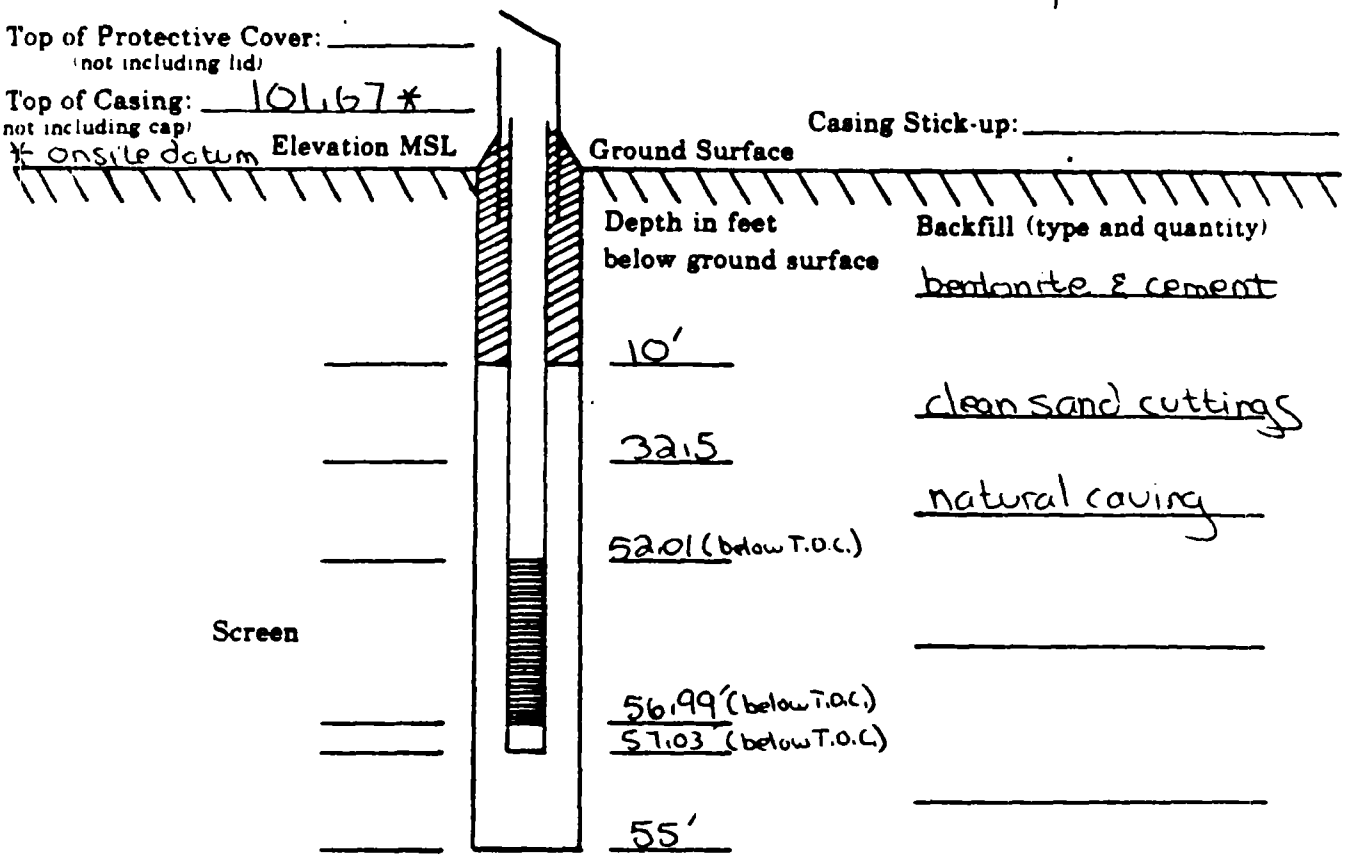
Monitor Well Location southwest corner of trailer park

Top of Protective Cover: _____
(not including lid)

Top of Casing: 101.67*
(not including cap)
* onsite datum Elevation MSL

Casing Stick-up: _____

Ground Surface



Depth in feet below ground surface	Backfill (type and quantity)
	bentonite & cement
10'	
	clean sand cuttings
32.5	
	natural caving
52.01 (below T.O.C.)	
56.99' (below T.O.C.)	
57.03' (below T.O.C.)	
55'	

Casing Type and Size: _____

Screen Type and Size: _____

Casing Field Measurements:

bottom of screen .04'
top of screen 5.02
1st joint 5.12'
10.0'
10.0'
10.0'
10.0'
10.0'
1.91'

Total Length of Casing 57.03'

Plug (type) _____

Cap (type) _____

Protective Cover (type and size) 4" x 5' steel with locking cover

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

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