OBSERVATION-WELL NETWORK IN ILLINOIS, 1984

by David C. Voelker

U.S. GEOLOGICAL SURVEY

Open-File Report 86-416(W)

Prepared in cooperation with the

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Urbana, Illinois

1986

UNITED STATES DEPARTMENT OF THE INTERIOR

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CONTENTS

ILLUSTRATIONS

TABLES

FACTORS FOR CONVERTING INCH-POUND UNITS TO
INTERNATIONAL SYSTEM OF METRIC UNITS (SI)

For the convenience of readers who may want to use metric (International System) units, the inch-pound values in this report may be converted by using the following factors:

Multiply inch-pound units	by	To obtain metric units
foot (ft)	0.3048	meter (m)
gallon per minute (gal/min)	0.06308	liter per second (L/s)
	0.000264	milliliter per minute (mL/min)

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ABSTRACT

The report presents water-quality and geohydrologic information for 106 public water-supply wells in Illinois. These wells were sampled during April to December 1984 as part of a pilot program to develop a ground-water observation network in the State. The pilot program was designed to sample single-aquifer wells from three major aquifer systems--(1) sand and gravel, both confined and unconfined; (2) Silurian dolomite; and (3) the Ironton-Galesville deep sandstone. Data are tabulated for water temperature, pH, specific conductance, oxidation-reduction potential, ammonia nitrogen, nitrate + nitrite nitrogen, phosphorus, silica, arsenic, lead, mercury, fluoride, chloride, sulfate, cyanide, phenols, selenium, residue on evaporation at 180 degrees Celsius, alkalinity, calcium, magnesium, sodium, potassium, barium, boron, beryllium, cadmium, chromium, copper, cobalt, iron, aluminum, manganese, nickel, silver, strontium, vanadium, zinc, and selected geohydrologic information.

INTRODUCTION

Planning, management, and regulatory agencies need reliable hydrologic information to effectively manage and protect Illinois' water resources. Frost and others (1984) reviewed existing data and indicated a need for a ground-water observation network in Illinois to provide long-term records of ground-water levels and ground-water quality. The long-term records would provide a consistent data base to evaluate the effects of climatic variations and the effects of development and use on the ground-water system. The baseline water quality determined from the network would provide a reference from which to assess the extent of contamination from spills and waste disposal.

Student and others (1981) identified aquifers in Illinois that could be used as water sources and included several plates that outline the major geohydrologic units. O'Hearn and Schock (1985) looked at the major geohydrologic units in Illinois in relation to ground-water withdrawal and contamination potential and proposed a monitoring program based on the use of public water-supply wells.

Early in 1984, the IEPA (Illinois Environmental Protection Agency) and the U.S. Geological Survey began a cooperative pilot observation-well network in Illinois. The goals of the cooperative effort are to (1) select a network of wells to represent the major geohydrologic units in Illinois; (2) describe baseline conditions in each geohydrologic unit; (3) investigate trends in ground-water quality and quantity; and (4) establish a manageable data base for use in periodically assessing the ground-water resources.

The pilot-study network of 106 wells was selected and sampling began in late April 1984. Sampling was done quarterly throughout the year and most of the 106 wells in the network were sampled three times during 1984.

Field observations and measurements at each site included pumping groundwater levels, pumping rates, where available, water temperature, specific conductance, pH, oxidation-reduction potential, and alkalinity. Water samples were collected at the well, transported to the IEPA laboratory in Champaign, and analyzed for common constituents, metals, nutrients, phenols, and cyanide. These data are stored in the U.S. Geological Survey's WATSTORE (National WATer Data STOrage and REtrieval System) and U.S. Environmental Protection Agency's STORET (STOrage and RETrieval) computerized data bases.

Well information will be available from the U.S. Geological Survey GWSI (Ground-Water Site Inventory) data base. GWSI is an automated retrieval system for storing physical, hydrologic, and geologic data relating to groundwater wells. The GWSI system allows for ready access to well site identification, location, and description; ownership information; physical information; geologic data; and several additional categories.

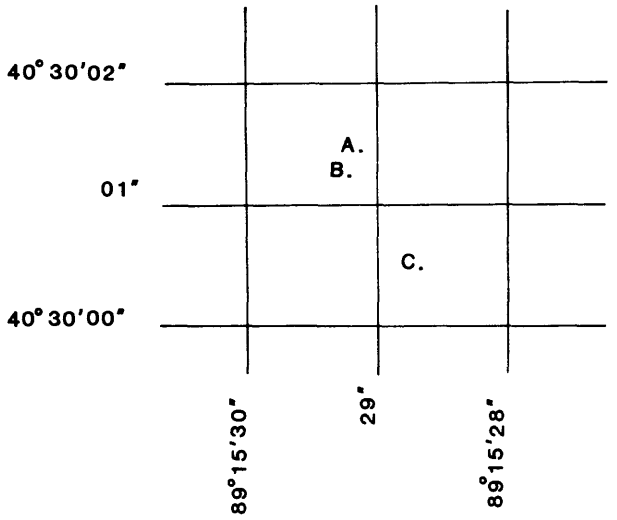
The purpose of this report is to assemble hydrologic and geologic data collected for each well in the pilot program during the period April through December 1984.

Well-Numbering System

The well numbering or site-identification system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote the degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells within a 1-second grid (fig. 1). This site-identification number, once assigned, is a pure number, and has no locational significance. In the instance where the initial determination of latitude and longitude is found to be in error, the station retains its initial site-identification number; however, its true latitude and longitude will be updated in the site file of both the WATSTORE and GWSI data bases.

Acknowledgments

The IEPA provided assistance with locating and gaining access to the public water-supply wells used in the network. The ISGS (Illinois State Geological Survey) and the ISWS (Illinois State Water Survey) both provided technical assistance in establishing the network. All three agencies also assisted with sampling the wells during the first year of monitoring activities. The many municipal well operators and owners are also acknowledged for providing access to their wells and assisting with any special sampling needs. All chemical analyses were made at the Illinois Environmental Protection Agency laboratory in Champaign.



Coordinates for wells:

A	403001089152901
B	403001089152902
C	403000089152801

Figure 1.--Well-numbering system of the U.S. Geological Survey.

METHODS OF STUDY

Selection and Location of Wells

Well selection was made through a cooperative effort among the IEPA, ISGS, ISWS, and the U.S. Geological Survey. Criteria for well selection included availability of well logs, opening of the well to single-aquifer units, historical water-quality and water-level data availability, and well accessibility.

One hundred and six wells were selected from those open to the major geohydrologic units in Illinois that emphasized areas of the State where groundwater usage for public water supply is high (fig. 2). All wells in the initial network are used for public water-supply purposes. Seventy-three are open to sand and gravel aquifers, 20 to the Silurian dolomite aquifer, and 13 to the Ironton-Galesville deep sandstone aquifer.

Data Collection

A committee of representatives from the four agencies involved established mutually agreed-upon procedures for sampling wells. This section summarizes the procedures provided to personnel for use in sampling.

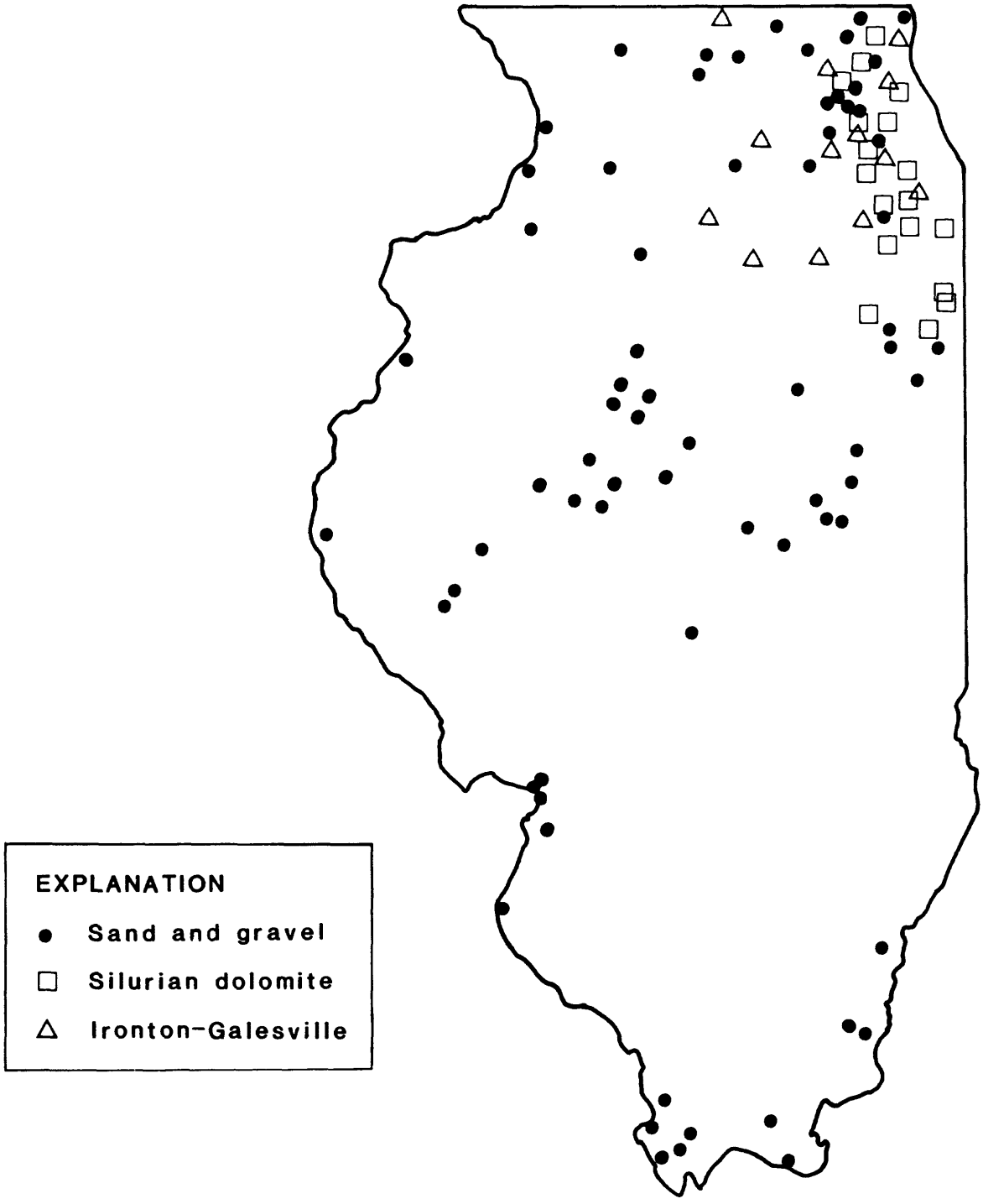


Figure 2.--Locations of wells sampled in the network during 1984.

At a well site, personnel first measured the pumping water level, where possible, and checked that any chemical feeds going into the discharge line were shut off. It is important to note that wells in the monitoring network are all used for public water-supply purposes, and it is not always possible to collect a sample prior to a treatment application point. During sampling procedures these treatments were disconnected and should have no effect on the sample analyses. Water treatment could include chlorination, fluoridation, and the addition of polyphosphate either into the discharge line or directly into the well itself. This information was recorded on the field-data sheets.

Flow-through chambers were used for field determinations of pH, specific conductance, temperature, and oxidation-reduction potential (Eh). A calibration check of the pH probe was made at each well site. The field monitoring equipment was then connected to the raw water tap located closest to the well head. The flow-through unit was designed for optimal performance when approximately 500 mL/min (milliliters per minute) of water is flowing through the chamber. After water flowed through the unit for a period of 5 to 10 minutes to allow for stabilization of probes, the first measurements of temperature, pH, specific conductance, and Eh were made and repeated at approximately 10-minute intervals until the readings stabilized. Stable readings were used to indicate that water flowing from the well was representative of formation water. Once stabilized, water samples were collected and kept chilled until transported to the lab. Duplicate samples were collected at regular intervals as part of the quality-assurance procedures.

Field personnel also measured alkalinity in the field. This was done by titrating 0.02 N H_2SO_4 into a 100-mL water sample until the sample reached an endpoint pH of 4.5. The amount of H_2SO_4 added to the sample was used to calculate total alkalinity. A minimum of two alkalinity titrations were completed at the site to insure accurate results.

Other information recorded at the site included pumping (or flow) rates, length of time the pump was in operation prior to collecting the sample, and any information that might later aid in data analysis.

Finally, before leaving the site, a last measurement of the pumping water level was recorded. These pumping water levels are used as indicators of what was occurring in the well. A stable water level during pumping indicated that formation water was being pumped through the system, rather than from storage in the well.

Information for the GWSI data base that is obtained at the well site includes general data such as well locations, owner/operator data, pump data, and site status. Operator logs provide information on well production, and many operators maintain a file that includes the driller's logs. Additional information was obtained from the ISWS Bulletin 60-series reports, and from the files of the ISGS, who is responsible for maintaining records of all drilling activities within the State. Geologic data, including available well logs, were compiled and entered into the GWSI data base.

Sample Analyses

All samples were analyzed for total (dissolved plus suspended) constituents. Laboratory analyses included ammonia nitrogen, nitrate + nitrite nitrogen, phosphorus, silica, arsenic, lead, mercury, fluoride, chloride, sulfate, cyanide, phenols, selenium, residue on evaporation at 180°C, alkalinity, calcium, magnesium, sodium, potassium, barium, boron, beryllium, cadmium, chromium, copper, cobalt, iron, aluminum, manganese, nickel, silver, strontium, vanadium, and zinc.

PRESENTATION OF DATA

Six tables of observation-well network data collected during 1984 are included in this report. Table 1 presents the public water-supply water-quality standards for Illinois and is included for use in referencing the data. Tables 2 to 5 present the water-quality data grouped by aquifer systems, and table 6 includes some of the GWSI information for the wells sampled.

REFERENCES CITED

Frost, L. R., O'Hearn, Michael, Gibb, J. P., and Sherrill, M. G., 1984, Illinois ground-water observation network - A preliminary planning document: U.S. Geological Survey Open-File Report 84-584, 37 p.

Illinois Pollution Control Board, 1984a, State of Illinois Rules and Regulations, Title 35: Environmental Protection, Subtitle C: Water Pollution, Chapter I: Springfield, 44 p.

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O'Hearn, Michael, and Schock, S. C., 1985, Design of a statewide ground-water monitoring network for Illinois: Illinois Department of Energy and Natural Resources Document No. 85/02, 76 p.

Student, J. D., Piskin, Rauf, Withers, L. J., and Dickman, Jay, 1981, Aquifers in Illinois: Underground Sources of Drinking Water and Non-drinking Water: State of Illinois, Environmental Protection Agency, Division of Land/Noise Pollution Control, Springfield, 98 p.

Table 1.--Public water-supply water-quality standards for Illinois

[Illinois Pollution Control Board, 1984a, 1984b; dashes indicate no standard designated]

Constituent	Maximum concentration, in milligrams per liter	
	At point of withdrawal	Finished water
Arsenic (total)	0.05	0.05
Barium (total)	1.0	1.0
Cadmium (total)	.010	.010
Chloride	250	--
Chromium	.05	.05
Copper	--	5.0
Cyanide	--	.2
Fluoride	--	1.8
Iron	--	1.0
Lead (total)	.05	.05
Manganese (total)	.15	.15
Mercury	--	.002
Nitrate-nitrogen	10	10
Phenols	.001	--
Selenium (total)	.01	.01
Silver	--	.05
Sulphates	250	--
Total dissolved solids	500	--
Zinc	--	5.0

Table 2.--Water-quality records for wells open to the Ironton-Galesville aquifer

[min, minute; gal/min, gallons per minute; µS/cm, microsiemens per centimeter; mV, millivolts; deg. C, degrees Celsius; mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; >, greater than; dashes indicate no data]

Station number	Date	Time	Station name	Agency collecting sample[1]	Agency analyzing sample[1]	Depth below land surface (water level) (feet)
			Cook County			
413840087494001	06-05-84	1040	Orland Park Well No. 11	17002	17002	840.00
413840087494001	10-03-84	1400	Orland Park Well No. 11	17002	17002	837.00
413840087494001	11-14-84	0955	Orland Park Well No. 11	81700	17002	836.00
			De Kalb County			
415424088462501	06-12-84	1700	De Kalb Well No. 12	81700	17002	281.00
415424088462501	09-27-84	0910	De Kalb Well No. 12	81700	17002	307.00
415424088462501	12-13-84	1100	De Kalb Well No. 12	81700	17002	290.00
			Du Page County			
414952087592601	05-24-84	1145	Oak Brook Well No. 6	17002	17002	850.00
414952087592601	10-15-84	1500	Oak Brook Well No. 6	81700	17002	875.00
414952087592601	11-12-84	1110	Oak Brook Well No. 6	81700	17002	862.00
415614088095701	05-03-84	1050	Carol Stream Well No. 5	81700	17002	--
415614088095701	09-27-84	1505	Carol Stream Well No. 5	81700	17002	--
415614088095701	11-12-84	1340	Carol Stream Well No. 5	81700	17002	--
			Grundy County			
412129088252701	06-08-84	1515	Morris Well No. 4	81700	17002	422.00
412129088252701	10-11-84	1535	Morris Well No. 4	81700	17002	381.00
412129088252701	11-28-84	1420	Morris Well No. 4	81700	17002	374.00
			Kane County			
415257088202001	04-27-84	1010	Geneva Well No. 6	81700	17002	521.00
415257088202001	09-12-84	1420	Geneva Well No. 6	81700	17002	545.00
415257088202001	10-29-84	1025	Geneva Well No. 6	81700	17002	527.00
			Lake County			
420918087565401	06-29-84	1105	Buffalo Grove Well No. 6	17002	17002	--
420918087565401	09-20-84	1510	Buffalo Grove Well No. 6	81700	17002	--
420918087565401	11-27-84	1300	Buffalo Grove Well No. 6	17002	17002	930.00
422217087545201	05-04-84	1415	Gurnee Well No. 1	81700	17002	440.00
422217087545201	11-15-84	1150	Gurnee Well No. 1	17002	17002	--

[1] 17002 - Illinois Environmental Protection Agency
81700 - U.S. Geological Survey

Table 2.--Water-quality records for wells open to the Ironton-Galesville aquifer--Continued

Station number	Date	Pump or flow period prior to sampling (min)	Flow rate, instantaneous (gal/min)	Specific conductance (µS/cm)	pH (standard units)	Oxidation reduction potential (mV)	Temperature (deg C)	Calcium total recoverable (mg/L as Ca)
			Cook County					
413840087494001	06-05-84	160	855	1,690	6.9	--	17.0	--
413840087494001	10-03-84	150	850	1,700	7.1	--	16.0	110
413840087494001	11-14-84	120	820	1,710	7.2	--	15.5	120
			De Kalb County					
415424088462501	06-12-84	180	1,300	500	7.1	--	13.5	51
415424088462501	09-27-84	120	1,300	450	7.1	-35	11.5	48
415424088462501	12-13-84	38	1,360	450	7.2	-70	11.5	50
			Du Page County					
414952087592601	05-24-84	75	1,290	725	6.8	--	15.5	65
414952087592601	10-15-84	750	1,250	600	6.8	--	15.5	70
414952087592601	11-12-84	430	1,240	675	7.3	--	15.0	68
415614088095701	05-03-84	170	975	515	6.7	--	14.5	59
415614088095701	09-27-84	275	900	510	7.1	--	14.5	51
415614088095701	11-12-84	340	810	500	7.2	--	14.5	57
			Grundy County					
412129088252701	06-08-84	115	590	775	6.9	--	17.5	--
412129088252701	10-11-84	185	590	720	7.1	--	16.5	67
412129088252701	11-28-84	80	--	740	7.3	--	15.5	64
			Kane County					
415257088202001	04-27-84	120	1,130	525	6.9	--	14.0	61
415257088202001	09-12-84	230	1,100	550	7.2	--	14.0	61
415257088202001	10-29-84	115	1,100	475	7.1	--	13.5	62
			Lake County					
420918087565401	06-29-84	290	1,030	745	6.7	--	18.5	89
420918087565401	09-20-84	130	1,150	765	7.0	--	16.5	91
420918087565401	11-27-84	60	1,050	745	7.3	--	15.0	91
422217087545201	05-04-84	75	390	760	6.7	--	18.0	92
422217087545201	11-15-84	--	400	715	7.0	--	18.0	93

Table 2.--Water-quality records for wells open to the Ironton-Galesville aquifer--Continued

Station number	Date	Magnesium, total recoverable (mg/L as Mg)	Sodium, total recoverable (mg/L as Na)	Potassium, total recoverable (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as (SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, total (mg/L as F)
			Cook County					
413840087494001	06-05-84	--	--	--	184	280	250	0.9
413840087494001	10-03-84	32	160	16	250	280	250	.9
413840087494001	11-14-84	35	180	18	240	290	260	1.0
			De Kalb County					
415424088462501	06-12-84	26	19	5.7	271	14	<1.0	.5
415424088462501	09-27-84	24	20	5.2	253	12	1.0	.5
415424088462501	12-13-84	25	23	5.3	266	11	<1.0	.6
			Du Page County					
414952087592601	05-24-84	20	46	11	276	80	17	1.2
414952087592601	10-15-84	23	52	11	269	85	16	1.2
414952087592601	11-12-84	21	47	12	273	82	15	1.2
415614088095701	05-03-84	19	19	9.1	280	<10	2.5	.8
415614088095701	09-27-84	17	18	9.1	280	<10	2.0	.7
415614088095701	11-12-84	19	18	10	273	<10	1.5	.8
			Grundy County					
412129088252701	06-08-84	--	--	--	297	48	43	.5
412129088252701	10-11-84	28	59	11	297	47	43	.6
412129088252701	11-28-84	26	56	11	304	45	44	.6
			Kane County					
415257088202001	04-27-84	25	17	8.9	289	12	2.7	.7
415257088202001	09-12-84	26	17	9.1	294	14	1.5	.7
415257088202001	10-29-84	28	19	9.6	277	15	3.0	.7
			Lake County					
420918087565401	06-29-84	23	39	12	254	130	13	1.2
420918087565401	09-20-84	23	40	12	239	160	12	1.1
420918087565401	11-27-84	23	41	12	253	150	16	1.1
422217087545201	05-04-84	16	27	9.8	252	100	27	1.0
422217087545201	11-15-84	18	28	10	230	98	24	1.1

Table 2.--Water-quality records for wells open to the Ironton-Galesville aquifer--Continued

Station number	Date	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 deg. C dissolved (mg/L)	Nitrogen, NO_2+NO_3 total (mg/L as N)	Nitrogen, ammonia total (mg/L as N)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic total (µg/L as As)
			Cook County					
413840087494001	06-05-84	7.0	1,070	1.90	0.33	0.02	--	<1
413840087494001	10-03-84	7.0	1,140	<.10	.55	<.01	<50	<1
413840087494001	11-14-84	7.3	1,040	<.10	.45	<.01	<50	<1
			De Kalb County					
415424088462501	06-12-84	9.0	260	<.10	.21	<.01	<50	4
415424088462501	09-27-84	8.3	313	<.10	.24	<.01	<50	3
415424088462501	12-13-84	8.6	290	<.10	.25	.01	<50	4
			Du Page County					
414952087592601	05-24-84	7.3	463	.11	.56	<.01	160	<1
414952087592601	10-15-84	7.0	434	<.10	.55	<.01	<50	2
414952087592601	11-12-84	7.0	443	<.10	.50	<.01	<50	<1
415614088095701	05-03-84	7.1	272	<.10	.46	<.01	<50	<1
415614088095701	09-27-84	7.0	305	<.10	.58	<.01	<50	<1
415614088095701	11-12-84	6.8	320	<.10	.42	<.01	<50	<1
			Grundy County					
412129088252701	06-08-84	7.2	436	<.10	.59	<.01	--	<1
412129088252701	10-11-84	7.3	450	<.10	.60	<.01	<50	2
412129088252701	11-28-84	7.4	449	<.10	.56	<.01	<50	<1
			Kane County					
415257088202001	04-27-84	6.8	293	.18	.44	<.01	60	<1
415257088202001	09-12-84	7.7	313	--	--	--	<50	<1
415257088202001	10-29-84	6.5	354	<.10	.51	<.01	1,400	<1
			Lake County					
420918087565401	06-29-84	7.3	526	<.10	.34	<.01	<50	<1
420918087565401	09-20-84	7.7	503	<.10	.31	.02	<50	<1
420918087565401	11-27-84	7.2	511	<.10	.39	<.01	90	<1
422217087545201	05-04-84	8.2	440	<.10	<.10	.01	<50	<1
422217087545201	11-15-84	7.5	453	<.10	.13	<.01	60	<1

Table 2.--Water-quality records for wells open to the Ironton-Galesville aquifer--Continued

Station number	Date	Barium, total recoverable (µg/L as Ba)	Beryllium, total recoverable (µg/L as Be)	Boron, total recoverable (µg/L as B)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
			Cook County					
413840087494001	06-05-84	--	--	--	--	--	--	--
413840087494001	10-03-84	20	<1	710	<3	<5	<5	<5
413840087494001	11-14-84	20	<1	690	<3	<5	<5	<5
			De Kalb County					
415424088462501	06-12-84	500	<1	120	<3	<5	<5	<5
415424088462501	09-27-84	400	<1	110	<3	<5	<5	<5
415424088462501	12-13-84	400	<1	100	<3	<5	<5	<5
			Du Page County					
414952087592601	05-24-84	50	<1	480	<3	7	<5	9
414952087592601	10-15-84	70	<1	540	<3	<5	<5	<5
414952087592601	11-12-84	60	<1	480	<3	<5	<5	<5
415614088095701	05-03-84	5,300	<1	260	<3	<5	<5	<5
415614088095701	09-27-84	5,400	<1	250	<3	<5	<5	9
415614088095701	11-12-84	5,200	<1	260	<3	<5	5	<5
			Grundy County					
412129088252701	06-08-84	--	--	--	--	--	--	--
412129088252701	10-11-84	90	<1	390	<3	<5	<5	<5
412129088252701	11-28-84	70	<1	340	<3	<5	<5	<5
			Kane County					
415257088202001	04-27-84	500	<1	270	<3	<5	<5	7
415257088202001	09-12-84	600	<1	260	<3	<5	<5	<5
415257088202001	10-29-84	600	<1	270	<3	<5	<5	<5
			Lake County					
420918087565401	06-29-84	30	<1	290	<3	<5	<5	<5
420918087565401	09-20-84	30	<1	340	<3	<5	<5	21
420918087565401	11-27-84	30	<1	310	<3	<5	<5	<5
422217087545201	05-04-84	20	<1	180	<3	<5	<5	7
422217087545201	11-15-84	30	<1	210	<3	<5	<5	<5

Table 2.--Water-quality records for wells open to the Ironton-Galesville aquifer--Continued

Station number	Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury total recoverable (µg/L as Mg)	Nickel, total recoverable (µg/L as Ni)	Selenium, total (µg/L as Se)
			Cook County				
413840087494001	06-05-84	--	<5	--	<0.1	--	<1
413840087494001	10-03-84	530	5	15	<.1	<5	<5
413840087494001	11-14-84	540	--	19	.1	<5	<1
			De Kalb County				
415424088462501	06-12-84	350	<5	8	<.1	<5	<1
415424088462501	09-27-84	400	<5	10	<.1	<5	<1
415424088462501	12-13-84	420	<5	9	<.1	<5	<1
			Du Page County				
414952087592601	05-24-84	160	<5	14	<.1	7	<1
414952087592601	10-15-84	160	<5	8	<.1	<5	<1
414952087592601	11-12-84	120	--	11	<.1	<5	<1
415614088095701	05-03-84	160	<5	<5	<.1	<5	<1
415614088095701	09-27-84	160	<5	<5	<.1	<5	<5
415614088095701	11-12-84	110	--	<5	<.1	7	<1
			Grundy County				
412129088252701	06-08-84	--	<5	--	<.1	--	<1
412129088252701	10-11-84	<50	--	7	<.1	<5	<10
412129088252701	11-28-84	<50	6	9	.2	<5	<1
			Kane County				
415257088202001	04-27-84	260	<5	9	<.1	<5	<1
415257088202001	09-12-84	270	<5	5	<.1	<5	<1
415257088202001	10-29-84	340	--	26	<.1	<5	<1
			Lake County				
420918087565401	06-29-84	280	<5	8	<.1	<5	<1
420918087565401	09-20-84	260	<5	6	<.1	<5	<5
420918087565401	11-27-84	240	<5	9	<.1	<5	<1
422217087545201	05-04-84	450	<5	11	<.1	<5	<1
422217087545201	11-15-84	450	<5	11	<.1	<5	<1

Table 2.--Water-quality records for wells open to Ironton-Galesville aquifer--Continued

Station number	Date	Silver, total recoverable (µg/L as Ag)	Strontium, total recoverable (µg/L as Sr)	Vanadium, total (µg/L as V)	Zinc, total recoverable (µg/L as Zn)	Cyanide total (mg/L as CN)	Phenols total (µg/L)
			Cook County				
413840087494001	06-05-84	--	--	--	--	<0.01	20
413840087494001	10-03-84	<3	4,000	<5	<50	<.01	<5
413840087494001	11-14-84	<3	4,000	<5	<50	<.01	<5
			De Kalb County				
415424088462501	06-12-84	<5	950	<5	<50	<.01	<5
415424088462501	09-27-84	<3	900	<5	<50	<.01	<5
415424088462501	12-13-84	<3	850	<5	<50	<.01	<5
			Du Page County				
414952087592601	05-24-84	<3	3,200	<5	<50	.01	5
414952087592601	10-15-84	<3	4,700	<5	<50	<.01	<5
414952087592601	11-12-84	<3	3,700	<5	<50	<.01	<5
415614088095701	05-03-84	<3	3,700	<5	<50	.01	<5
415614088095701	09-27-84	<3	3,400	<5	<50	<.01	<5
415614088095701	11-12-84	<3	3,500	<5	<50	<.01	<5
			Grundy County				
412129088252701	06-08-84	--	--	--	--	<.01	<5
412129088252701	10-11-84	<3	1,700	<5	<50	<.01	--
412129088252701	11-28-84	<3	1,500	<5	<50	<.01	<5
			Kane County				
415257088202001	04-27-84	<3	2,500	<5	<50	<.01	<5
415257088202001	09-12-84	<3	2,900	<5	<50	<.01	<5
415257088202001	10-29-84	<3	2,600	<5	<100	.01	<5
			Lake County				
420918087565401	06-29-84	<3	6,700	<5	<50	<.01	<5
420918087565401	09-20-84	<3	4,400	<5	<50	<.01	<5
420918087565401	11-27-84	<3	5,900	<5	<50	.01	<5
422217087545201	05-04-84	<3	7,700	<5	<50	<.01	<5
422217087545201	11-15-84	<3	6,700	<5	<50	<.01	<5

Table 2.--Water-quality records for wells open to the Ironton-Galesville aquifer--Continued

Station number	Date	Time	Station name	Agency collecting sample[1]	Agency analyzing sample[1]	Depth below land surface (water level) (feet)
			La Salle County			
412120088500401	06-15-84	0915	Ottawa Well No. 8	81700	17002	185.00
412120088500401	06-15-84	0925	Ottawa Well No. 8	81700	17002	--
412120088500401	09-24-84	0955	Ottawa Well No. 8	81700	17002	135.00
412120088500401	12-10-84	1005	Ottawa Well No. 8	81700	17002	132.00
413255089064801	09-27-84	1425	Mendota Well No. 3	81700	17002	304.00
413255089064801	12-13-84	1500	Mendota Well No. 3	81700	17002	276.00
413255089064801	12-13-84	1505	Mendota Well No. 3	81700	17002	276.00
			McHenry County			
421335088204601	04-19-84	1120	Crystal Lake Well No. 6	81700	17002	715.00
421335088204601	09-28-84	1140	Crystal Lake Well No. 6	81700	17002	715.00
421335088204601	11-08-84	0930	Crystal Lake Well No. 6	81700	17002	700.00
			Will County			
413238088084601	05-17-84	1520	Joliet Rooney Site Well No. 11	17002	17002	838.00
413238088084601	09-17-84	1510	Joliet Rooney Site Well No. 11	81700	17002	835.00
413238088084601	11-21-84	1030	Joliet Rooney Site Well No. 11	81700	17002	--
			Winnebago County			
422929089020901	06-13-84	1445	South Beloit Well No. 3	81700	17002	--
422929089020901	09-26-84	1110	South Beloit Well No. 3	81700	17002	163.00
422929089020901	12-12-84	1220	South Beloit Well No. 3	81700	17002	166.00
422929089020901	12-12-84	1225	South Beloit Well No. 3	81700	17002	166.00

[1] 17002 - Illinois Environmental Protection Agency
81700 - U.S. Geological Survey

Table 2.--Water-quality records for wells open to the Ironton-Galesville aquifer--Continued

Station number	Date	Pump or flow period prior to sampling (min)	Flow rate, instantaneous (gal/min)	Specific conductance (µS/cm)	pH (standard units)	Oxidation reduction potential (mV)	Temperature (deg C)	Calcium total recoverable (mg/L as Ca)
			La Salle County					
412120088500401	06-15-84	150	E1,360	1,070	7.1	--	14.5	80
412120088500401	06-15-84	--	E1,360	1,070	7.1	--	14.5	81
412120088500401	09-24-84	65	750	1,060	7.5	-41	14.5	84
412120088500401	12-10-84	48	1,000	1,050	7.1	-42	14.5	87
413255089064801	09-27-84	--	610	850	7.0	-20	14.0	71
413255089064801	12-13-84	130	640	850	7.1	-54	13.5	74
413255089064801	12-13-84	135	640	850	7.1	-54	13.5	76
			McHenry County					
421335088204601	04-19-84	120	745	445	6.8	--	15.0	44
421335088204601	09-28-84	>1,440	666	510	7.3	--	15.5	40
421335088204601	11-08-84	1,110	680	415	7.3	--	15.0	47
			Will County					
413238088084601	05-17-84	1,440	820	725	7.0	--	17.0	58
413238088084601	09-17-84	--	--	715	7.1	--	16.5	54
413238088084601	11-21-84	2,910	1,480	690	7.4	--	16.0	58
			Winnebago County					
422929089020901	06-13-84	--	1,260	565	7.1	--	13.5	57
422929089020901	09-26-84	--	1,380	510	7.1	8	11.5	62
422929089020901	12-12-84	--	932	550	7.1	-1	11.5	65
422929089020901	12-12-84	295	932	550	7.1	-10	11.5	65

E Estimated.

Table 2.--Water-quality records for wells open to the Ironton-Galesville aquifer--Continued

Station number	Date	Magnesium, total recoverable (mg/L as Mg)	Sodium, total recoverable (mg/L as Na)	Potassium, total recoverable (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as (SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, total (mg/L as F)
			La Salle County					
412120088500401	06-15-84	35	92	9.2	309	51	130	0.7
412120088500401	06-15-84	35	93	9.3	308	51	130	.7
412120088500401	09-24-84	35	92	9.2	294	52	130	.7
412120088500401	12-10-84	36	100	9.6	307	51	140	.8
413255089064801	09-27-84	35	59	7.0	286	20	110	.4
413255089064801	12-13-84	37	58	7.4	287	20	110	.6
413255089064801	12-13-84	38	59	7.6	287	21	110	.6
			McHenry County					
421335088204601	04-19-84	24	11	5.3	253	<10	<1.0	.5
421335088204601	09-28-84	21	11	5.5	254	<10	<1.0	.5
421335088204601	11-08-84	26	13	6.7	244	<10	<1.0	.5
			Will County					
413238088084601	05-17-84	19	64	12	287	90	25	1.3
413238088084601	09-17-84	20	61	12	268	95	23	1.2
413238088084601	11-21-84	20	77	13	272	94	23	1.3
			Winnebago County					
422929089020901	06-13-84	37	3.1	1.9	312	11	<1.0	.2
422929089020901	09-26-84	38	3.2	1.8	337	<10	1.0	.1
422929089020901	12-12-84	41	2.7	2.0	314	11	<1.0	.2
422929089020901	12-12-84	41	2.8	2.0	314	10	<1.0	.3

Table 2.--Water-quality records for wells open to the Ironton-Galesville aquifer--Continued

Station number	Date	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 deg. C dissolved (mg/L)	Nitrogen, NO_2+NO_3 total (mg/L as N)	Nitrogen, ammonia total (mg/L as N)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic total (µg/L as As)
			La Salle County					
412120088500401	06-15-84	6.9	600	<0.10	0.50	<0.01	<50	<1
412120088500401	06-15-84	6.6	616	<.10	.52	<.01	<50	<1
412120088500401	09-24-84	7.0	623	<.10	.54	<.01	<50	<1
412120088500401	12-10-84	6.9	658	<.10	.53	<.01	<50	<1
413255089064801	09-27-84	8.0	529	<.10	.21	<.01	<50	2
413255089064801	12-13-84	8.0	527	<.10	.26	<.01	<50	1
413255089064801	12-13-84	7.8	532	<.10	.23	<.01	<50	<1
			McHenry County					
421335088204601	04-19-84	6.9	259	<.10	<.10	.02	<50	<1
421335088204601	09-28-84	7.0	263	<.10	.22	.01	<50	<1
421335088204601	11-08-84	7.3	274	4.50	.22	<.01	610	<1
			Will County					
413238088084601	05-17-84	7.8	471	.99	.69	.81	<50	<1
413238088084601	09-17-84	8.0	458	<.10	.74	.01	<50	<1
413238088084601	11-21-84	7.0	498	<.10	.68	--	<50	<1
			Winnebago County					
422929089020901	06-13-84	9.3	299	<.10	<.10	<.01	<50	<1
422929089020901	09-26-84	9.0	315	<.10	<.10	<.01	<50	<1
422929089020901	12-12-84	9.5	359	<.10	<.10	<.01	<50	1
422929089020901	12-12-84	9.4	351	<.10	.10	<.01	<50	<1

Table 2.--Water-quality records for wells open to the Ironton-Galesville aquifer--Continued

Station number	Date	Barium, total recoverable (µg/L as Ba)	Beryllium, total recoverable (µg/L as Be)	Boron, total recoverable (µg/L as B)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
			La Salle County					
412120088500401	06-15-84	70	<1	410	<3	<5	<5	<5
412120088500401	06-15-84	80	<1	430	<3	<5	<5	<5
412120088500401	09-24-84	70	<1	420	<3	<5	<5	<5
412120088500401	12-10-84	70	<1	380	<3	<5	<5	<5
413255089064801	09-27-84	40	<1	170	<3	<5	<5	<5
413255089064801	12-13-84	40	<1	170	<3	<5	<5	<5
413255089064801	12-13-84	40	<1	180	<3	<5	<5	<5
			McHenry County					
421335088204601	04-19-84	10,000	<1	80	<3	<5	8	<5
421335088204601	09-28-84	9,800	<1	60	<3	<5	<5	<5
421335088204601	11-08-84	10,000	<1	100	<3	<5	7	<5
			Will County					
413238088084601	05-17-84	40	<1	630	<3	<5	<5	<5
413238088084601	09-17-84	40	<1	650	<3	<5	<5	<5
413238088084601	11-21-84	40	<1	620	<3	<5	<5	26
			Winnebago County					
422929089020901	06-13-84	40	<1	<50	<3	5	<5	<5
422929089020901	09-26-84	40	<1	<50	<3	<5	<5	<5
422929089020901	12-12-84	40	<1	<50	<3	<5	<5	<5
422929089020901	12-12-84	40	<1	<50	<3	<5	<5	<5

Table 2.--Water-quality records for wells open to the Ironton-Galesville aquifer--Continued

Station number	Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury total recoverable (µg/L as Mg)	Nickel, total recoverable (µg/L as Ni)	Selenium, total (µg/L as Se)
			La Salle County				
412120088500401	06-15-84	300	<5	14	<0.1	<5	<1
412120088500401	06-15-84	310	<5	15	<.1	<5	<1
412120088500401	09-24-84	320	<5	15	<.1	<5	<1
412120088500401	12-10-84	290	<5	16	.1	<5	<1
413255089064801	09-27-84	430	<5	15	<.1	<5	<1
413255089064801	12-13-84	400	<5	15	<.1	<5	<1
413255089064801	12-13-84	400	<5	16	<.1	<5	<1
			McHenry County				
421335088204601	04-19-84	120	<5	<5	<.1	7	<1
421335088204601	09-28-84	80	<5	<5	<.1	<5	<5
421335088204601	11-08-84	140	--	18	<.1	<5	<1
			Will County				
413238088084601	05-17-84	210	<5	5	<.1	<5	<1
413238088084601	09-17-84	210	<5	5	<.1	<5	2
413238088084601	11-21-84	210	5	6	.1	<5	<1
			Winnebago County				
422929089020901	06-13-84	100	<5	9	<.1	<5	<1
422929089020901	09-26-84	90	<5	8	<.1	<5	<1
422929089020901	12-12-84	80	<5	9	.1	<5	<1
422929089020901	12-12-84	90	<7	9	<.1	<5	<1

Table 2.--Water-quality records for wells open to Ironton-Galesville aquifer--Continued

Station number	Date	Silver, total recoverable (µg/L as Ag)	Strontium, total recoverable (µg/L as Sr)	Vanadium, total (µg/L as V)	Zinc, total recoverable (µg/L as Zn)	Cyanide total (mg/L as CN)	Phenols total (µg/L)
			La Salle County				
412120088500401	06-15-84	--	1,900	<5	<50	<0.01	<5
412120088500401	06-15-84	--	2,000	<5	<50	<.01	<5
412120088500401	09-24-84	<3	2,000	<5	<50	<.01	<5
412120088500401	12-10-84	<3	1,700	<5	<50	<.01	<5
413255089064801	09-27-84	<3	2,000	<5	<50	<.01	<5
413255089064801	12-13-84	<3	1,900	<5	<50	<.01	<5
413255089064801	12-13-84	<3	2,000	<5	<50	<.01	<5
			McHenry County				
421335088204601	04-19-84	<3	2,100	<5	<50	<.01	<5
421335088204601	09-28-84	<3	2,100	<5	<50	<.01	<5
421335088204601	11-08-84	<3	2,300	<5	<100	.01	<5
			Will County				
413238088084601	05-17-84	<3	3,000	<5	<50	<.01	<5
413238088084601	09-17-84	<3	3,200	<5	<50	<.01	<5
413238088084601	11-21-84	<3	2,700	<5	<50	<.01	<5
			Winnebago County				
422929089020901	06-13-84	<5	100	<5	<50	<.01	<5
422929089020901	09-26-84	<3	80	<5	<50	<.01	<5
422929089020901	12-12-84	<3	90	<5	<50	<.01	<5
422929089020901	12-12-84	<5	90	<5	<50	<.01	<5

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer

[min, minute; gal/min, gallons per minute; µS/cm, microsiemens per centimeter at 25°C; mV, millivolts; deg. C, degrees Celsius; mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; >, greater than; dashes indicate no data]

Station number	Date	Time	Station name	Agency collecting sample[1]	Agency analyzing sample[1]	Depth below land surface (water level) (feet)
			Cook County			
413043087391201	06-12-84	1520	Chicago Heights Well No. 30	17002	17002	67.00
413043087391201	10-11-84	1125	Chicago Heights Well No. 30	17002	17002	76.00
413043087391201	11-28-84	1115	Chicago Heights Well No. 30	17002	17002	100.00
413753087511701	04-26-84	1120	Orland Park Well No. 2	17002	17002	84.00
413753087511701	09-24-84	1040	Orland Park Well No. 2	81700	17002	85.00
413753087511701	11-14-84	1040	Orland Park Well No. 2	81700	17002	85.00
414614087534901	06-12-84	1245	Indian Head Park Well No. 2	17002	17002	180.00
414614087534901	10-03-84	1210	Indian Head Park Well No. 2	17002	17002	184.00
414614087534901	11-12-84	0915	Indian Head Park Well No. 2	81700	17002	187.00
415930088110601	05-30-84	1105	Bartlett Well No. 2	81700	17002	--
415930088110602	09-18-84	1030	Bartlett Well No. 1	81700	17002	68.00
415930088110602	10-30-84	1315	Bartlett Well No. 1	81700	17002	66.00
420754087552001	05-09-84	1050	Wheeling Well No. 4	17002	17002	128.00
420754087552001	10-10-84	1045	Wheeling Well No. 4	81700	17002	124.00
420754087552001	11-27-84	1030	Wheeling Well No. 4	81700	17002	125.00
			Du Page County			
414633088080501	05-24-84	1435	Naperville Well No. 5	81700	17002	74.00
414633088080501	09-27-84	1355	Naperville Well No. 5	81700	17002	73.00
414633088080501	11-07-84	1430	Naperville Well No. 5	81700	17002	64.00
415149088061701	04-20-84	1115	Wheaton Well No. 2	17002	17002	122.00
415149088061701	09-13-84	1510	Wheaton Well No. 2	17002	17002	122.00
415149088061701	10-29-84	1445	Wheaton Well No. 2	81700	17002	122.00
415807088003801	05-18-84	1445	Itasca Well No. 5	17002	17002	88.00
415807088003801	09-25-84	1335	Itasca Well No. 5	17002	17002	90.00
415807088003801	11-05-84	1200	Itasca Well No. 5	81700	17002	88.00
			Kankakee County			
410127087425201	05-31-84	1330	St. Anne Well No. 3	81700	17002	46.00
410127087425201	10-04-84	1320	St. Anne Well No. 3	17002	17002	51.00
410127087425201	11-20-84	1355	St. Anne Well No. 3	81700	17002	45.50
410325088022301	05-31-84	1530	Herscher Well No. 8	81700	17002	47.00
410325088022301	10-12-84	1540	Herscher Well No. 8	81700	17002	55.00
410919087393201	06-11-84	1700	Momence Well No. 3	17002	17002	21.00
410919087393201	10-04-84	1105	Momence Well No. 3	81700	17002	--
410919087393201	11-20-84	1210	Momence Well No. 3	81700	17002	--
411010087400901	06-19-84	1535	Momence Well No. 4	81700	17002	--
411010087400901	10-04-84	1145	Momence Well No. 4	81700	17002	--
411010087400901	11-20-84	1110	Momence Well No. 4	81700	17002	--

[1] 17002 - Illinois Environmental Protection Agency
81700 - U.S. Geological Survey

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer--Continued

Station number	Date	Pump or flow period prior to sampling (min)	Flow rate, instantaneous (gal/min)	Specific conductance (µS/cm)	pH (standard units)	Oxidation reduction potential (mV)	Temperature (deg C)	Calcium total recoverable (mg/L as Ca)
			Cook County					
413043087391201	06-12-84	170	920	1,800	6.7	--	14.0	210
413043087391201	10-11-84	85	910	1,780	6.7	--	12.5	230
413043087391201	11-28-84	55	--	1,680	7.0	--	12.0	210
413753087511701	04-26-84	385	450	1,060	6.8	--	12.5	120
413753087511701	09-24-84	70	450	935	6.9	--	12.0	120
413753087511701	11-14-84	--	400	1,070	6.8	--	11.5	120
414614087534901	06-12-84	225	640	2,120	7.1	--	14.0	200
414614087534901	10-03-84	220	610	2,170	6.9	--	12.0	180
414614087534901	11-12-84	50	610	1,950	6.7	--	10.5	190
415930088110601	05-30-84	80	300	925	6.7	--	11.0	98
415930088110602	09-18-84	150	--	895	7.1	--	11.0	92
415930088110602	10-30-84	255	--	895	7.1	--	10.5	90
420754087552001	05-09-84	55	340	1,200	6.8	--	11.5	110
420754087552001	10-10-84	310	--	1,100	7.1	--	12.0	92
420754087552001	11-27-84	330	240	1,190	7.1	--	12.0	120
			Du Page County					
414633088080501	05-24-84	5,760	666	860	6.8	--	14.0	93
414633088080501	09-27-84	>10,080	588	850	7.0	--	11.5	84
414633088080501	11-07-84	>100,000	555	825	7.0	--	12.0	99
415149088061701	04-20-84	150	1,000	1,130	6.7	--	12.0	120
415149088061701	09-13-84	310	1,000	1,170	7.1	--	12.5	120
415149088061701	10-29-84	405	1,000	1,130	7.2	--	11.5	120
415807088003801	05-18-84	135	830	1,270	7.0	--	12.5	130
415807088003801	09-25-84	125	680	1,250	7.0	--	13.0	130
415807088003801	11-05-84	120	680	1,140	6.9	--	11.5	140
			Kankakee County					
410127087425201	05-31-84	70	530	745	6.9	--	13.5	82
410127087425201	10-04-84	115	570	735	7.3	--	12.5	64
410127087425201	11-20-84	35	530	760	7.3	--	12.0	77
410325088022301	05-31-84	150	E160	995	6.8	--	12.0	100
410325088022301	10-12-84	280	--	940	6.9	--	13.0	100
410919087393201	06-11-84	1,440	400	755	7.0	--	12.5	--
410919087393201	10-04-84	245	600	800	7.1	--	12.5	71
410919087393201	11-20-84	120	395	805	7.3	--	12.0	89
411010087400901	06-19-84	395	500	720	6.9	--	12.5	86
411010087400901	10-04-84	945	500	685	7.0	--	12.0	69
411010087400901	11-20-84	340	E500	680	7.0	--	11.5	87

E Estimated.

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer--Continued

Station number	Date	Magnesium, total recoverable (mg/L as Mg)	Sodium, total recoverable (mg/L as Na)	Potassium, total recoverable (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as (SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, total (mg/L as F)
			Cook County					
413043087391201	06-12-84	110	63	11	397	540	65	0.4
413043087391201	10-11-84	120	67	11	426	570	110	.4
413043087391201	11-28-84	96	49	11	407	500	82	.5
413753087511701	04-26-84	73	26	4.0	370	310	3.8	.5
413753087511701	09-24-84	67	31	4.2	344	270	4.0	.5
413753087511701	11-14-84	69	29	4.4	337	300	3.5	.5
414614087534901	06-12-84	87	200	9.4	361	370	380	.2
414614087534901	10-03-84	78	160	7.9	374	420	300	.2
414614087534901	11-12-84	87	190	8.4	367	420	290	.2
415930088110601	05-30-84	64	13	2.4	387	110	22	.3
415930088110602	09-18-84	59	13	2.2	381	110	18	.3
415930088110602	10-30-84	55	15	2.2	372	110	19	.3
420754087552001	05-09-84	74	50	4.3	305	380	31	.4
420754087552001	10-10-84	58	52	3.4	304	390	33	.4
420754087552001	11-27-84	77	71	4.5	305	360	30	.5
			Du Page County					
414633088080501	05-24-84	45	22	2.5	291	110	46	.2
414633088080501	09-27-84	41	21	2.4	300	120	41	.2
414633088080501	11-07-84	48	21	2.7	305	120	39	.1
415149088061701	04-20-84	66	38	3.8	355	210	70	.4
415149088061701	09-13-84	61	42	3.7	330	220	63	.4
415149088061701	10-29-84	64	50	4.1	321	220	70	.4
415807088003801	05-18-84	64	59	4.1	400	260	97	.4
415807088003801	09-25-84	67	59	4.1	328	260	81	.4
415807088003801	11-05-84	71	59	4.3	311	270	93	.3
			Kankakee County					
410127087425201	05-31-84	35	34	2.8	224	180	9.4	.3
410127087425201	10-04-84	28	33	2.2	227	170	7.0	.3
410127087425201	11-20-84	33	37	2.7	227	180	9.0	.4
410325088022301	05-31-84	47	56	6.2	294	260	4.2	.3
410325088022301	10-12-84	45	59	6.1	280	300	3.0	.3
410919087393201	06-11-84	--	--	--	269	85	33	.5
410919087393201	10-04-84	37	11	2.7	264	130	34	.5
410919087393201	11-20-84	46	11	3.0	271	120	33	.7
411010087400901	06-19-84	39	10	2.1	250	82	22	.2
411010087400901	10-04-84	31	9.1	1.7	265	86	23	.2
411010087400901	11-20-84	39	10	2.1	264	88	23	.3

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer--Continued

Station number	Date	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 deg. C dissolved (mg/L)	Nitrogen, NO_2+NO_3 total (mg/L as N)	Nitrogen, ammonia total (mg/L as N)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic total (µg/L as As)
			Cook County					
413043087391201	06-12-84	15	1,300	0.90	0.36	<0.01	<50	3
413043087391201	10-11-84	15	1,610	<.10	.51	.03	<50	--
413043087391201	11-28-84	14	1,010	<.10	.44	.10	<50	<1
413753087511701	04-26-84	21	735	<.10	.42	.01	60	3
413753087511701	09-24-84	19	780	<.10	.40	<.01	<50	1
413753087511701	11-14-84	18	748	.12	.38	<.01	<50	2
414614087534901	06-12-84	12	1,480	<.10	.25	<.01	2,000	2
414614087534901	10-03-84	12	1,640	<.10	.37	.02	<50	2
414614087534901	11-12-84	12	1,540	<.10	<.10	<.01	<50	1
415930088110601	05-30-84	27	730	<.10	.38	.02	<50	<1
415930088110602	09-18-84	26	592	<.10	.40	.60	<50	<1
415930088110602	10-30-84	25	601	<.10	.46	.02	<50	<1
420754087552001	05-09-84	22	848	<.10	.43	.01	<50	<1
420754087552001	10-10-84	21	937	<.10	.42	.03	<50	<1
420754087552001	11-27-84	23	839	.32	.42	.01	1,700	<1
			Du Page County					
414633088080501	05-24-84	9.3	551	.58	<.10	.01	<50	<1
414633088080501	09-27-84	10	342	.43	<.10	<.01	<50	<1
414633088080501	11-07-84	10	566	.33	<.10	<.01	<50	<1
415149088061701	04-20-84	18	799	<.10	.47	.03	60	2
415149088061701	09-13-84	19	819	<.10	.62	<.01	<100	1
415149088061701	10-29-84	18	832	<.10	.59	<.01	<50	1
415807088003801	05-18-84	20	907	<.10	.51	.01	<50	<1
415807088003801	09-25-84	18	898	<.10	.53	.02	110	1
415807088003801	11-05-84	18	922	<.10	.33	.01	<50	1
			Kankakee County					
410127087425201	05-31-84	11	648	<.10	.73	.06	<50	3
410127087425201	10-04-84	11	535	<.10	.72	1.30	<50	4
410127087425201	11-20-84	10	509	<.10	.78	.89	<50	4
410325088022301	05-31-84	9.4	775	<.10	.88	.01	<50	2
410325088022301	10-12-84	9.0	706	<.10	.99	<.01	<50	2
410919087393201	06-11-84	6.9	512	.10	.84	<.01	--	<1
410919087393201	10-04-84	7.0	660	<.10	.22	<.01	<50	<1
410919087393201	11-20-84	7.0	520	.22	<.10	<.01	<50	<1
411010087400901	06-19-84	8.1	450	5.0	<.10	<.01	<50	3
411010087400901	10-04-84	9.0	611	2.8	<.10	<.01	<50	<1
411010087400901	11-20-84	8.0	461	2.8	<.10	<.01	<50	<1

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer--Continued

Station number	Date	Barium, total recoverable (µg/L as Ba)	Beryllium, total recoverable (µg/L as Be)	Boron, total recoverable (µg/L as B)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
			Cook County					
413043087391201	06-12-84	20	<2	1,300	<3	32	6	<5
413043087391201	10-11-84	20	<2	1,200	<3	7	<5	<5
413043087391201	11-28-84	20	<1	910	<3	<5	<5	6
413753087511701	04-26-84	30	<1	290	<3	<5	<5	<5
413753087511701	09-24-84	40	<1	330	<3	<5	<5	<5
413753087511701	11-14-84	40	<1	330	<3	<5	<5	<5
414614087534901	06-12-84	90	3	360	<3	30	<5	6
414614087534901	10-03-84	100	<1	250	<3	<5	<5	<5
414614087534901	11-12-84	40	<1	250	<3	<5	<5	<5
415930088110601	05-30-84	100	<1	90	<3	<5	<5	<5
415930088110602	09-18-84	100	<2	150	4	<5	<5	71
415930088110602	10-30-84	100	<1	110	3	10	<5	<5
420754087552001	05-09-84	40	<1	700	<3	<5	<5	<5
420754087552001	10-10-84	40	<1	760	<3	<5	<5	<5
420754087552001	11-27-84	70	<2	710	<3	<5	<5	<5
			Du Page County					
414633088080501	05-24-84	50	<1	70	<3	<5	<5	<5
414633088080501	09-27-84	50	<1	90	<3	<5	<5	<5
414633088080501	11-07-84	60	<1	90	<3	<5	<5	<5
415149088061701	04-20-84	60	<1	300	<3	<5	6	<5
415149088061701	09-13-84	80	<1	300	<3	<5	<5	<5
415149088061701	10-29-84	80	<1	340	<3	<5	<5	<5
415807088003801	05-18-84	20	<1	240	<3	<5	<5	17
415807088003801	09-25-84	30	<1	250	<3	<5	<5	61
415807088003801	11-05-84	30	<1	240	<3	5	<5	14
			Kankakee County					
410127087425201	05-31-84	30	<1	480	<3	<5	<5	9
410127087425201	10-04-84	20	<1	560	<3	<5	<5	<5
410127087425201	11-20-84	30	<1	470	<3	<5	<5	<5
410325088022301	05-31-84	20	<1	640	<3	<5	<5	<5
410325088022301	10-12-84	20	<2	700	<3	<5	<5	<5
410919087393201	06-11-84	--	--	--	--	--	--	--
410919087393201	10-04-84	7	<1	320	<3	<5	<5	<5
410919087393201	11-20-84	10	<1	250	<3	<5	<5	<5
411010087400901	06-19-84	30	<1	90	<3	10	<5	<5
411010087400901	10-04-84	20	<1	70	<3	<5	<5	<5
411010087400901	11-20-84	30	<1	60	<3	<5	<5	<5

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer--Continued

Station number	Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury total recoverable (µg/L as Mg)	Nickel, total recoverable (µg/L as Ni)	Selenium, total (µg/L as Se)
			Cook County				
413043087391201	06-12-84	1,500	<5	17	<0.1	<5	<1
413043087391201	10-11-84	1,600	<5	16	<.1	<5	<10
413043087391201	11-28-84	1,500	5	20	.1	5	<1
413753087511701	04-26-84	1,100	<5	11	<.1	<5	<1
413753087511701	09-24-84	970	<5	9	<.1	<5	<1
413753087511701	11-14-84	900	--	9	<.1	<5	<1
414614087534901	06-12-84	640	<5	75	<.1	<5	<1
414614087534901	10-03-84	520	5	32	<.1	<5	<5
414614087534901	11-12-84	350	--	36	<.1	<5	<1
415930088110601	05-30-84	1,700	<5	31	<.1	<5	<1
415930088110602	09-18-84	1,500	5	34	<.1	7	<1
415930088110602	10-30-84	1,500	--	29	<.1	<5	<1
420754087552001	05-09-84	450	<5	16	<.1	5	<1
420754087552001	10-10-84	470	--	11	<.1	<5	<5
420754087552001	11-27-84	620	<5	39	.6	6	<1
			Du Page County				
414633088080501	05-24-84	110	<5	5	<.1	<5	1
414633088080501	09-27-84	170	5	7	<.1	<5	<5
414633088080501	11-07-84	130	--	9	<.1	<5	<1
415149088061701	04-20-84	1,200	<5	10	<.1	19	<1
415149088061701	09-13-84	1,300	<5	11	<.1	<5	<1
415149088061701	10-29-84	1,400	--	11	<.1	<5	<1
415807088003801	05-18-84	2,100	<5	25	<.1	25	<1
415807088003801	09-25-84	2,500	<5	37	<.1	<5	<1
415807088003801	11-05-84	2,600	--	29	.2	<5	<1
			Kankakee County				
410127087425201	05-31-84	1,500	<5	19	<.1	5	<1
410127087425201	10-04-84	1,300	<5	15	<.1	<5	<5
410127087425201	11-20-84	1,400	<5	18	.1	<5	<1
410325088022301	05-31-84	1,400	<5	29	<.1	<5	<1
410325088022301	10-12-84	1,300	<5	29	<.1	<5	<1
410919087393201	06-11-84	--	<5	--	<.1	--	<1
410919087393201	10-04-84	100	5	10	<.1	<5	<5
410919087393201	11-20-84	270	<5	40	.1	7	<1
411010087400901	06-19-84	<50	<5	4	<.1	<5	1
411010087400901	10-04-84	<50	<5	<5	<.1	<5	<5
411010087400901	11-20-84	<50	<5	<5	<.1	12	<1

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer--Continued

Station number	Date	Silver, total recoverable (µg/L as Ag)	Strontium, total recoverable (µg/L as Sr)	Vanadium, total (µg/L as V)	Zinc, total recoverable (µg/L as Zn)	Cyanide total (mg/L as CN)	Phenols total (µg/L)
			Cook County				
413043087391201	06-12-84	<3	2,900	<5	<50	<0.01	<5
413043087391201	10-11-84	<3	3,100	<5	<50	<.01	<5
413043087391201	11-28-84	5	2,100	<5	<50	<.01	<5
413753087511701	04-26-84	<3	1,700	<5	<50	<.01	<5
413753087511701	09-24-84	<3	1,900	<5	<50	<.01	<5
413753087511701	11-14-84	<3	1,600	<5	<50	<.01	<5
414614087534901	06-12-84	<3	1,000	<5	<100	.01	<5
414614087534901	10-03-84	<3	860	<5	<50	<.01	5
414614087534901	11-12-84	<3	870	<5	<50	<.01	<5
415930088110601	05-30-84	<3	500	<5	<50	<.01	<5
415930088110602	09-18-84	<3	580	<5	<50	<.01	<5
415930088110602	10-30-84	<3	1,000	<5	<50	.01	<5
420754087552001	05-09-84	<3	2,800	<5	<50	<.01	<5
420754087552001	10-10-84	<3	2,600	<5	<50	<.01	<5
420754087552001	11-27-84	<3	2,700	<5	<100	.01	<5
			Du Page County				
414633088080501	05-24-84	<3	110	<5	<50	<.01	<5
414633088080501	09-27-84	<3	140	<5	<50	<.01	<5
414633088080501	11-07-84	<3	140	<5	<50	<.01	<5
415149088061701	04-20-84	<3	1,200	<5	<50	<.01	<5
415149088061701	09-13-84	<3	1,500	<5	<50	<.01	<5
415149088061701	10-29-84	<3	1,300	<5	<50	<.01	<5
415807088003801	05-18-84	<3	1,500	<5	<50	<.01	<5
415807088003801	09-25-84	<3	1,800	<5	<50	<.01	<5
415807088003801	11-05-84	<3	1,500	<5	<50	<.01	<5
			Kankakee County				
410127087425201	05-31-84	<3	1,100	<5	<50	<.01	<5
410127087425201	10-04-84	<3	970	<5	<50	<.01	<5
410127087425201	11-20-84	<3	1,000	<5	<50	<.01	<5
410325088022301	05-31-84	<3	860	<5	<50	<.01	<5
410325088022301	10-12-84	<3	990	<5	<50	<.01	10
410919087393201	06-11-84	--	--	--	--	<.01	<5
410919087393201	10-04-84	<3	250	<5	<50	<.01	<5
410919087393201	11-20-84	<3	230	<5	<50	<.01	<5
411010087400901	06-19-84	<3	150	<5	<50	<.01	<5
411010087400901	10-04-84	<3	120	<5	<50	<.01	<5
411010087400901	11-20-84	<3	130	<5	<50	<.01	<5

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer--Continued

Station number	Date	Time	Station name	Agency collecting sample[1]	Agency analyzing sample[1]	Depth below land surface (water level) (feet)
			Lake County			
421537088082101	05-14-84	1045	Wauconda Well No. 2	81700	17002	80.00
421537088082101	09-20-84	1140	Wauconda Well No. 2	81700	17002	80.00
421537088082101	11-07-84	1030	Wauconda Well No. 2	81700	17002	81.00
421634088003301	05-01-84	1255	Mundelein Well No. 3	81700	17002	73.00
421634088003301	09-26-84	1355	Mundelein Well No. 3	81700	17002	--
421634088003301	11-19-84	1145	Mundelein Well No. 3	81700	17002	--
422219088040601	05-15-84	1105	Round Lake Beach Well No. 4	17002	17002	76.00
422219088040601	10-01-84	1115	Round Lake Beach Well No. 4	81700	17002	87.00
422219088040601	11-08-84	1100	Round Lake Beach Well No. 4	81700	17002	84.00
			McHenry County			
421034088164601	04-18-84	1220	Algonquin Well No. 1	17002	17002	94.00
421034088164601	10-09-84	0955	Algonquin Well No. 1	81700	17002	--
421034088164601	11-13-84	0945	Algonquin Well No. 1	81700	17002	87.00
			Will County			
412518087590901	06-11-84	1420	Manhattan Well No. 2	81700	17002	58.00
412518087590901	10-11-84	1340	Manhattan Well No. 2	81700	17002	54.00
412518087590901	11-28-84	1245	Manhattan Well No. 2	17002	17002	54.00
412950087514301	06-04-84	1150	Frankfort Well No. 3	81700	17002	133.00
412950087514301	10-11-84	1000	Frankfort Well No. 3	81700	17002	130.00
412950087514301	11-28-84	0915	Frankfort Well No. 3	81700	17002	133.00
413514088011901	05-10-84	1120	Lockport Well No. 5	81700	17002	78.00
413514088011901	09-04-84	1335	Lockport Well No. 5	81700	17002	90.00
413514088011901	11-21-84	1350	Lockport Well No. 5	81700	17002	87.00

[1] 17002 - Illinois Environmental Protection Agency
81700 - U.S. Geological Survey

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer--Continued

Station number	Date	Pump or flow period prior to sampling (min)	Flow rate, instantaneous (gal/min)	Specific conductance (µS/cm)	pH (standard units)	Oxidation reduction potential (mV)	Temperature (deg C)	Calcium total recoverable (mg/L as Ca)
			Lake County					
421537088082101	05-14-84	215	290	670	6.9	--	12.0	73
421537088082101	09-20-84	70	280	665	7.2	--	12.5	72
421537088082101	11-07-84	195	280	655	6.8	--	12.0	76
421634088003301	05-01-84	295	230	615	7.5	--	12.0	43
421634088003301	09-26-84	235	265	625	7.6	--	11.5	44
421634088003301	11-19-84	105	--	765	7.7	--	11.0	43
422219088040601	05-15-84	50	170	555	7.6	--	11.5	24
422219088040601	10-01-84	135	180	540	7.6	--	12.0	24
422219088040601	11-08-84	120	180	515	7.8	--	11.0	26
			McHenry County					
421034088164601	04-18-84	120	--	585	7.0	--	10.5	65
421034088164601	10-09-84	175	--	550	7.5	--	11.0	52
421034088164601	11-13-84	>600	--	545	7.6	--	10.5	63
			Will County					
412518087590901	06-11-84	70	112	970	6.8	--	12.5	--
412518087590901	10-11-84	580	108	915	6.9	--	12.0	110
412518087590901	11-28-84	465	110	955	7.1	--	11.5	120
412950087514301	06-04-84	320	550	990	6.7	--	13.0	--
412950087514301	10-11-84	210	550	955	7.0	--	12.0	130
412950087514301	11-28-84	75	550	995	7.2	--	11.5	130
413514088011901	05-10-84	200	300	965	6.6	--	11.5	120
413514088011901	09-04-84	155	300	975	6.9	--	11.5	120
413514088011901	11-21-84	140	290	995	7.1	--	10.5	120

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer--Continued

Station number	Date	Magnesium, total recoverable (mg/L as Mg)	Sodium, total recoverable (mg/L as Na)	Potassium, total recoverable (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as (SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, total (mg/L as F)
			Lake County					
421537088082101	05-14-84	50	6.2	1.9	377	24	2.5	0.4
421537088082101	09-20-84	47	7.3	1.4	369	17	1.5	.5
421537088082101	11-07-84	51	7.3	1.5	--	22	2.0	.4
421634088003301	05-01-84	38	42	2.1	195	150	1.3	.8
421634088003301	09-26-84	37	43	1.9	196	160	1.5	.7
421634088003301	11-19-84	37	42	1.9	193	150	1.0	.8
422219088040601	05-15-84	22	67	2.4	188	100	3.4	.9
422219088040601	10-01-84	21	65	1.8	189	110	4.0	.9
422219088040601	11-08-84	23	79	2.2	189	100	3.0	.9
			McHenry County					
421034088164601	04-18-84	35	12	2.0	298	25	6.5	.5
421034088164601	10-09-84	27	12	1.1	278	25	8.0	.5
421034088164601	11-13-84	34	12	1.4	291	22	7.0	.5
			Will County					
412518087590901	06-11-84	--	--	--	364	170	5.7	.3
412518087590901	10-11-84	51	30	3.0	368	180	6.0	.3
412518087590901	11-28-84	55	23	3.0	377	200	9.0	.3
412950087514301	06-04-84	--	--	--	238	180	<1.0	.4
412950087514301	10-11-84	49	31	4.4	377	220	1.0	.5
412950087514301	11-28-84	50	24	4.2	395	210	<1.0	.5
413514088011901	05-10-84	68	9.5	2.8	352	220	7.5	.2
413514088011901	09-04-84	62	13	2.8	371	220	6.9	.2
413514088011901	11-21-84	65	13	2.8	--	220	4.0	.3

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer--Continued

Station number	Date	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 deg. C dissolved (mg/L)	Nitrogen, NO_2+NO_3 total (mg/L as N)	Nitrogen, ammonia total (mg/L as N)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic total (µg/L as As)
			Lake County					
421537088082101	05-14-84	30	396	<0.10	0.16	0.01	<50	<1
421537088082101	09-20-84	30	410	<.10	.26	.04	<50	<1
421537088082101	11-07-84	29	399	.19	.21	--	<50	1
421634088003301	05-01-84	22	397	<.10	.32	.05	<50	<1
421634088003301	09-26-84	21	444	<.10	.35	.04	<50	<1
421634088003301	11-19-84	20	408	<.10	.29	--	<50	<1
422219088040601	05-15-84	15	384	.14	.22	.05	<50	<1
422219088040601	10-01-84	15	373	<.10	.37	.01	<50	<1
422219088040601	11-08-84	14	367	.46	.26	<.01	1,600	<1
			McHenry County					
421034088164601	04-18-84	17	328	<.10	.46	.03	60	<1
421034088164601	10-09-84	17	353	<.10	.38	.03	<50	<1
421034088164601	11-13-84	17	356	<.10	.42	--	<50	<1
			Will County					
412518087590901	06-11-84	15	610	.14	.22	<.01	--	4
412518087590901	10-11-84	15	661	<.10	.33	<.01	<50	4
412518087590901	11-28-84	16	872	<.10	.14	<.01	<50	4
412950087514301	06-04-84	17	725	.13	.55	.09	--	15
412950087514301	10-11-84	17	677	.10	.76	.07	<50	20
412950087514301	11-28-84	18	695	<.10	.55	.02	<50	14
413514088011901	05-10-84	14	666	1.0	.18	.01	<50	<1
413514088011901	09-04-84	12	744	.74	<.10	.01	<100	<1
413514088011901	11-21-84	12	722	.41	<.10	--	<50	<1

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer--Continued

Station number	Date	Barium, total recoverable (µg/L as Ba)	Beryllium, total recoverable (µg/L as Be)	Boron, total recoverable (µg/L as B)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
			Lake County					
421537088082101	05-14-84	60	<1	60	<3	<5	<5	<5
421537088082101	09-20-84	60	<1	70	<3	<5	<5	<5
421537088082101	11-07-84	70	<1	70	<3	<5	<5	<5
421634088003301	05-01-84	10	<1	350	<3	<5	<5	<5
421634088003301	09-26-84	20	<1	330	<3	<5	<5	<5
421634088003301	11-19-84	20	<1	320	<3	<5	<5	<5
422219088040601	05-15-84	20	<1	600	<3	7	<5	<5
422219088040601	10-01-84	30	<1	640	<3	<5	<5	<5
422219088040601	11-08-84	50	<1	620	<3	<5	<5	<5
			McHenry County					
421034088164601	04-18-84	80	<1	90	<3	<5	<5	<5
421034088164601	10-09-84	70	<1	90	<3	<5	<5	9
421034088164601	11-13-84	90	<1	90	<3	<5	<5	<5
			Will County					
412518087590901	06-11-84	--	--	--	--	--	--	--
412518087590901	10-11-84	100	<1	220	<3	<5	<5	<5
412518087590901	11-28-84	90	<1	200	<3	6	5	7
412950087514301	06-04-84	--	--	--	--	--	--	--
412950087514301	10-11-84	30	<1	360	<3	12	<5	<5
412950087514301	11-28-84	20	<1	320	<3	<5	<5	<5
413514088011901	05-10-84	50	<1	80	<3	<5	<5	10
413514088011901	09-04-84	60	<1	100	<3	<5	<5	<5
413514088011901	11-21-84	60	<1	90	<3	<5	<5	<5

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer--Continued

Station number	Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury total recoverable (µg/L as Mg)	Nickel, total recoverable (µg/L as Ni)	Selenium, total (µg/L as Se)
			Lake County				
421537088082101	05-14-84	810	<5	9	<0.1	<5	<1
421537088082101	09-20-84	890	<5	10	<.1	<5	<5
421537088082101	11-07-84	880	--	9	<.1	<5	<1
421634088003301	05-01-84	320	<5	9	<.1	<5	<1
421634088003301	09-26-84	330	<5	6	<.1	<5	2
421634088003301	11-19-84	260	<5	<5	.2	<5	<1
422219088040601	05-15-84	<50	<5	<5	<.1	<5	<1
422219088040601	10-01-84	50	<5	<5	<.1	<5	<5
422219088040601	11-08-84	130	--	35	<.1	<5	<1
			McHenry County				
421034088164601	04-18-84	1,000	<5	15	<.1	10	1
421034088164601	10-09-84	820	<5	13	<.1	<5	<5
421034088164601	11-13-84	970	--	16	<.1	8	<1
			Will County				
412518087590901	06-11-84	--	<5	--	<.1	--	<1
412518087590901	10-11-84	540	<5	56	<.1	<5	<10
412518087590901	11-28-84	470	<5	58	<.1	8	<1
412950087514301	06-04-84	--	<5	--	<.1	--	<1
412950087514301	10-11-84	1,300	6	<5	<.1	<5	<10
412950087514301	11-28-84	1,100	<5	<5	<.1	<5	<1
413514088011901	05-10-84	<50	<5	<5	<.1	<5	<1
413514088011901	09-04-84	<50	<5	<5	<.1	<5	1
413514088011901	11-21-84	<50	<5	<5	.1	<5	<1

Table 3.--Water-quality records for wells open to the Silurian dolomite aquifer--Continued

Station number	Date	Silver, total recoverable (µg/L as Ag)	Strontium, total recoverable (µg/L as Sr)	Vanadium, total (µg/L as V)	Zinc, total recoverable (µg/L as Zn)	Cyanide total (mg/L as CN)	Phenols total (µg/L)
			Lake County				
421537088082101	05-14-84	<3	380	<5	<50	<0.01	<5
421537088082101	09-20-84	<3	450	<5	<50	<.01	<5
421537088082101	11-07-84	<3	430	<5	<50	<.01	<5
421634088003301	05-01-84	<3	1,500	<5	<50	<.01	<5
421634088003301	09-26-84	<3	1,600	<5	<50	<.01	<5
421634088003301	11-19-84	<3	1,300	<5	<50	<.01	<5
422219088040601	05-15-84	<3	1,000	<5	<50	<.01	<5
422219088040601	10-01-84	<3	1,100	<5	<50	<.01	<5
422219088040601	11-08-84	<3	1,100	<5	<100	.03	<5
			McHenry County				
421034088164601	04-18-84	<3	540	<5	<50	<.01	<5
421034088164601	10-09-84	<3	470	<5	<50	<.01	<5
421034088164601	11-13-84	<3	580	<5	<50	<.01	<5
			Will County				
412518087590901	06-11-84	--	--	--	--	<.01	<5
412518087590901	10-11-84	<3	930	<5	<50	<.01	--
412518087590901	11-28-84	5	790	5	<50	.01	<5
412950087514301	06-04-84	--	--	--	--	<.01	<5
412950087514301	10-11-84	<3	1,300	<5	<50	<.01	<5
412950087514301	11-28-84	<3	1,100	<5	<50	<.01	<5
413514088011901	05-10-84	<3	290	<5	<50	<.01	<5
413514088011901	09-04-84	<3	410	<5	<50	<.01	5
413514088011901	11-21-84	<3	380	<5	<50	<.01	<5

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers

[min, minute; gal/min, gallons per minute; µS/cm, microsiemens per centimeterat 25°C; mV, millivolts; deg. C, degrees Celsius; mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; >, greater than; dashes indicate no data]

Station number	Date	Time	Station name	Agency collecting sample[1]	Agency analyzing sample[1]	Depth below land surface (water level) (feet)
			Boone County			
421649088513801	06-13-84	1215	Belvidere Well No. 9	81700	17002	25.00
421649088513801	09-26-84	0850	Belvidere Well No. 9	81700	17002	30.00
421649088513801	12-12-84	1520	Belvidere Well No. 9	81700	17002	28.00
			Bureau County			
412232089275101	06-14-84	1500	Princeton Well No. 5	81700	17002	100.00
412232089275101	06-14-84	1515	Princeton Well No. 5	81700	17002	--
412232089275101	09-24-84	1200	Princeton Well No. 5	81700	17002	165.00
412232089275101	12-10-84	1255	Princeton Well No. 5	81700	17002	166.00
			Champaign County			
400737088132301	05-09-84	0950	Champaign Well No. 46	17002	17002	142.80
400737088132301	09-07-84	0920	Champaign Well No. 46	17002	17002	145.68
400737088132301	11-09-84	1400	Champaign Well No. 46	81700	17002	144.53
400832088190601	05-09-84	1045	Champaign Well No. 54	81700	17002	182.40
400832088190601	09-07-84	1025	Champaign Well No. 54	81700	17002	188.50
400832088190601	11-09-84	1505	Champaign Well No. 54	81700	17002	188.50
401217088220301	04-11-84	1105	Sangamon Valley PWD Well No. 1	81700	17002	88.00
401217088220301	09-07-84	1145	Sangamon Valley PWD Well No. 1	81700	17002	86.00
401217088220301	11-09-84	1015	Sangamon Valley PWD Well No. 1	81700	17002	77.00
401841088094701	04-04-84	1655	Rantoul Well No. 7	81700	17002	--
401841088094701	08-07-84	1150	Rantoul Well No. 7	81700	17002	109.30
401841088094701	10-30-84	1150	Rantoul Well No. 7	81700	17002	--
			Cook County			
414603088521601	06-12-84	1200	Shabbona Well No. 4	81700	17002	125.00
414603088521601	09-27-84	1135	Shabbona Well No. 4	81700	17002	125.50
414603088521601	12-13-84	1230	Shabbona Well No. 4	81700	17002	126.00
420332088055701	05-11-84	1430	Schaumburg Well No. 13.5	81700	17002	157.00
420332088055701	09-25-84	1045	Schaumburg Well No. 13.5	81700	17002	162.00
420332088055701	10-30-84	1120	Schaumburg Well No. 13.5	81700	17002	163.00
420432088114101	05-11-84	1200	Hoffman Estates Well No. 22	81700	17002	68.00
420432088114101	09-18-84	1145	Hoffman Estates Well No. 22	81700	17002	72.00
420432088114101	10-30-84	1000	Hoffman Estates Well No. 22	81700	17002	75.00

[1] 17002 - Illinois Environmental Protection Agency
81700 - U.S. Geological Survey

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Pump or flow period prior to sampling (min)	Flow rate, instantaneous (gal/min)	Specific conductance (µS/cm)	pH (standard units)	Oxidation reduction potential (mV)	Temperature (deg C)	Calcium total recoverable (mg/L as Ca)
			Boone County					
421649088513801	06-13-84	>60	1,000	640	7.2	--	12.0	71
421649088513801	09-26-84	65	916	580	7.4	-41	10.5	70
421649088513801	12-12-84	140	875	570	7.2	-48	10.5	72
			Bureau County					
412232089275101	06-14-84	>1,440	350	565	7.5	--	13.0	48
412232089275101	06-14-84	>1,440	350	565	7.5	--	13.0	49
412232089275101	09-24-84	90	E250	540	7.6	-160	14.0	51
412232089275101	12-10-84	415	250	500	7.6	-154	12.5	53
			Champaign County					
400737088132301	05-09-84	--	435	690	7.5	-122	12.5	70
400737088132301	09-07-84	--	435	660	7.4	-110	13.0	69
400737088132301	11-09-84	--	460	640	7.2	-102	13.0	70
400832088190601	05-09-84	--	2,940	620	7.8	-134	12.5	56
400832088190601	09-07-84	>1,440	2,900	590	7.5	-122	13.5	56
400832088190601	11-09-84	--	2,950	590	7.5	-119	13.0	55
401217088220301	04-11-84	95	580	660	7.6	-107	12.5	81
401217088220301	09-07-84	120	540	650	7.4	-110	12.5	77
401217088220301	11-09-84	50	560	630	7.5	-117	12.5	79
401841088094701	04-04-84	>1,440	660	660	7.5	-128	12.5	68
401841088094701	08-07-84	350	688	710	8.0	-140	13.5	81
401841088094701	10-30-84	345	625	685	7.5	--	13.0	71
			Cook County					
414603088521601	06-12-84	240	200	645	7.3	--	12.5	65
414603088521601	09-27-84	47	198	610	7.3	-110	11.0	70
414603088521601	12-13-84	180	180	600	7.4	-145	11.0	70
420332088055701	05-11-84	>570	410	700	7.1	--	11.0	69
420332088055701	09-25-84	>100,000	380	820	7.4	--	11.5	73
420332088055701	10-30-84	>100,000	450	830	7.4	--	11.0	69
420432088114101	05-11-84	90	250	630	7.0	--	11.0	87
420432088114101	09-18-84	45	240	745	7.3	--	11.0	84
420432088114101	10-30-84	60	220	680	7.2	--	10.5	80

E Estimated.

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Magnesium, total recoverable (mg/L as Mg)	Sodium, total recoverable (mg/L as Na)	Potassium, total recoverable (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as (SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, total (mg/L as F)
			Boone County					
421649088513801	06-13-84	33	8.4	1.8	260	54	17	0.2
421649088513801	09-26-84	31	6.9	1.6	259	50	12	.1
421649088513801	12-12-84	33	6.6	1.7	259	50	16	.3
			Bureau County					
412232089275101	06-14-84	24	42	2.2	306	13	1.5	.5
412232089275101	06-14-84	24	42	2.2	307	9.6	1.7	.5
412232089275101	09-24-84	24	42	2.1	292	<10	1.0	.5
412232089275101	12-10-84	25	43	2.3	287	<10	1.8	.6
			Champaign County					
400737088132301	05-09-84	34	23	2.4	388	<10	1.2	.2
400737088132301	09-07-84	34	25	2.0	269	<10	2.0	.2
400737088132301	11-09-84	34	23	2.0	371	<10	1.5	.3
400832088190601	05-09-84	34	31	3.0	357	<10	1.2	.2
400832088190601	09-07-84	34	34	2.7	243	<10	1.4	.2
400832088190601	11-09-84	33	33	2.8	346	<10	10	.2
401217088220301	04-11-84	36	18	2.3	368	<10	<1.0	.3
401217088220301	09-07-84	36	20	1.9	265	<10	<1.0	.4
401217088220301	11-09-84	35	20	1.8	374	10	1.0	.3
401841088094701	04-04-84	28	35	2.8	387	<10	1.0	.2
401841088094701	08-07-84	34	41	2.3	387	10	<1.0	--
401841088094701	10-30-84	32	41	2.3	376	12	1.5	.1
			Cook County					
414603088521601	06-12-84	37	15	1.8	354	<10	1.3	.5
414603088521601	09-27-84	38	15	1.8	379	<10	1.0	.4
414603088521601	12-13-84	38	13	1.8	349	<10	<1.0	.5
420332088055701	05-11-84	53	32	2.6	235	190	14	.6
420332088055701	09-25-84	53	37	2.3	237	200	15	.6
420332088055701	10-30-84	48	39	2.3	225	200	16	.5
420432088114101	05-11-84	48	6.2	2.1	286	100	18	.2
420432088114101	09-18-84	47	8.0	1.8	305	110	18	.1
420432088114101	10-30-84	42	7.9	1.8	278	110	19	.1

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 deg. C dissolved (mg/L)	Nitrogen, NO_2+NO_3 total (mg/L as N)	Nitrogen, ammonia total (mg/L as N)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic total (µg/L as As)
			Boone County					
421649088513801	06-13-84	15	398	2.40	<0.10	0.02	<50	<1
421649088513801	09-26-84	14	370	1.60	<.10	<.01	<50	<1
421649088513801	12-12-84	15	391	2.10	<.10	.01	<50	<1
			Bureau County					
412232089275101	06-14-84	11	313	<.10	.99	.34	<50	23
412232089275101	06-14-84	14	308	<.10	1.00	.34	<50	24
412232089275101	09-24-84	14	338	<.10	1.00	<.01	60	23
412232089275101	12-10-84	13	345	<.10	1.00	.37	<50	24
			Champaign County					
400737088132301	05-09-84	18	352	<.10	4.40	.07	<50	8
400737088132301	09-07-84	18	381	<.10	4.50	.07	<50	7
400737088132301	11-09-84	18	365	<.10	4.50	.07	<50	7
400832088190601	05-09-84	13	336	<.10	.65	.08	<50	1
400832088190601	09-07-84	13	346	<.10	.74	.07	110	1
400832088190601	11-09-84	13	371	<.10	.71	.07	<50	1
401217088220301	04-11-84	18	447	<.10	1.20	.14	60	2
401217088220301	09-07-84	18	407	.12	1.80	.22	<50	--
401217088220301	11-09-84	18	390	<.10	1.80	.23	<50	1
401841088094701	04-04-84	16	394	<.10	.78	.21	<50	2
401841088094701	08-07-84	21	405	<.10	2.30	.83	<50	<1
401841088094701	10-30-84	16	419	<.10	2.60	.33	<50	1
			Cook County					
414603088521601	06-12-84	19	344	<.10	.75	.08	<50	12
414603088521601	09-27-84	19	373	<.10	.81	.08	<50	10
414603088521601	12-13-84	20	384	<.10	.75	.09	<50	12
420332088055701	05-11-84	23	548	<.10	.42	.22	<50	<1
420332088055701	09-25-84	21	582	<.10	.48	<.01	<50	<1
420332088055701	10-30-84	21	597	<.10	--	.01	80	<1
420432088114101	05-11-84	21	472	<.10	<.10	.01	<50	<1
420432088114101	09-18-84	20	521	<.10	<.10	.07	<50	<1
420432088114101	10-30-84	19	516	<.10	.13	<.01	<50	<1

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Barium, total recoverable (µg/L as Ba)	Beryllium, total recoverable (µg/L as Be)	Boron, total recoverable (µg/L as B)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
			Boone County					
421649088513801	06-13-84	40	<1	<50	<3	9	<5	<5
421649088513801	09-26-84	40	<1	<50	<3	<5	<5	<5
421649088513801	12-12-84	40	<1	<50	<3	<5	<5	<13
			Bureau County					
412232089275101	06-14-84	200	<1	200	<3	<5	<5	<5
412232089275101	06-14-84	200	<1	200	<3	<5	<5	<5
412232089275101	09-24-84	200	<1	200	<3	<5	7	<5
412232089275101	12-10-84	200	<1	180	<3	<5	<5	<5
			Champaign County					
400737088132301	05-09-84	200	<1	240	<3	<5	<5	<5
400737088132301	09-07-84	300	<1	280	<3	<5	<5	<5
400737088132301	11-09-84	200	<1	250	<3	<5	<5	8
400832088190601	05-09-84	400	<1	400	<3	<5	<5	<5
400832088190601	09-07-84	500	<1	410	<3	<5	<5	<5
400832088190601	11-09-84	400	<1	400	<3	<5	<5	<5
401217088220301	04-11-84	100	<1	210	<3	<5	<5	<5
401217088220301	09-07-84	100	<1	280	3	<5	<5	<5
401217088220301	11-09-84	100	<1	220	<3	6	<5	<5
401841088094701	04-04-84	100	<1	580	<3	<5	5	<5
401841088094701	08-07-84	200	<1	880	4	9	7	<5
401841088094701	10-30-84	100	<1	830	<3	<5	<5	<5
			Cook County					
414603088521601	06-12-84	200	<1	120	<3	<5	<5	<5
414603088521601	09-27-84	200	<1	110	<3	<5	<5	<5
414603088521601	12-13-84	200	<1	90	<3	<5	<5	<5
420332088055701	05-11-84	20	<1	340	<3	<5	<5	<5
420332088055701	09-25-84	20	<1	360	<3	9	<5	<5
420332088055701	10-30-84	20	4	370	5	<5	10	<5
420432088114101	05-11-84	70	<1	50	<3	<5	<5	<5
420432088114101	09-18-84	90	<1	<50	<3	<5	<5	14
420432088114101	10-30-84	90	<1	60	<3	8	<5	<5

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury total recoverable (µg/L as Mg)	Nickel, total recoverable (µg/L as Ni)	Selenium, total (µg/L as Se)
			Boone County				
421649088513801	06-13-84	710	<5	67	<0.1	<5	2
421649088513801	09-26-84	320	<5	99	<.1	<5	<1
421649088513801	12-12-84	510	<5	76	<.1	<5	<1
			Bureau County				
412232089275101	06-14-84	3,400	<5	110	<.1	<5	<1
412232089275101	06-14-84	3,500	<5	110	<.1	<5	<1
412232089275101	09-24-84	3,400	<5	110	<.1	10	<1
412232089275101	12-10-84	3,600	<5	110	<.1	<5	<1
			Champaign County				
400737088132301	05-09-84	2,600	<5	19	<.1	<5	1
400737088132301	09-07-84	2,700	<5	23	<.1	<5	<1
400737088132301	11-09-84	2,600	--	21	.1	8	<1
400832088190601	05-09-84	810	10	42	<.1	<5	<1
400832088190601	09-07-84	1,000	<5	55	<.1	5	<1
400832088190601	11-09-84	830	--	43	<.1	<5	<1
401217088220301	04-11-84	1,500	<5	14	<.1	12	<1
401217088220301	09-07-84	1,400	<5	16	<.1	6	<1
401217088220301	11-09-84	1,400	--	15	<.1	<5	<1
401841088094701	04-04-84	1,200	<5	45	<.1	10	<1
401841088094701	08-07-84	1,300	<5	53	<.1	<5	<1
401841088094701	10-30-84	1,200	--	44	<.1	<5	<1
			Cook County				
414603088521601	06-12-84	2,200	<5	19	<.1	<5	<1
414603088521601	09-27-84	2,300	<5	20	<.1	<5	<1
414603088521601	12-13-84	2,200	<5	17	<.1	<5	<1
420332088055701	05-11-84	390	<5	<5	<.1	<5	<1
420332088055701	09-25-84	470	<5	5	<.1	<5	<1
420332088055701	10-30-84	460	--	<5	<.1	12	<1
420432088114101	05-11-84	1,600	<5	32	<.1	<5	<1
420432088114101	09-18-84	100	<5	34	<.1	7	<1
420432088114101	10-30-84	1,600	--	32	<.1	<5	<1

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Silver, total recoverable (µg/L as Ag)	Strontium, total recoverable (µg/L as Sr)	Vanadium, total (µg/L as V)	Zinc, total recoverable (µg/L as Zn)	Cyanide total (mg/L as CN)	Phenols total (µg/L)
			Boone County				
421649088513801	06-13-84	<3	90	<5	<50	<0.01	<5
421649088513801	09-26-84	<3	70	<5	<50	<.01	<5
421649088513801	12-12-84	<3	80	<5	<50	<.01	<5
			Bureau County				
412232089275101	06-14-84	--	300	<5	<50	<.01	<5
412232089275101	06-14-84	--	300	<5	<50	<.01	<5
412232089275101	09-24-84	<3	250	<5	<50	<.01	<5
412232089275101	12-10-84	<3	320	<5	<50	<.01	<5
			Champaign County				
400737088132301	05-09-84	<3	360	<5	<50	<.01	<5
400737088132301	09-07-84	<3	400	<5	<50	<.01	<5
400737088132301	11-09-84	<3	370	<5	<50	<.01	<5
400832088190601	05-09-84	<3	500	<5	<50	<.01	<5
400832088190601	09-07-84	<3	570	<5	<50	<.01	<5
400832088190601	11-09-84	<3	510	<5	<50	<.01	<5
401217088220301	04-11-84	<3	370	<5	<50	<.01	<5
401217088220301	09-07-84	<3	430	<5	<50	<.01	<5
401217088220301	11-09-84	3	370	<5	<50	<.01	<5
401841088094701	04-04-84	<3	480	<5	<50	<.01	<5
401841088094701	08-07-84	3	630	<5	<50	<.01	<5
401841088094701	10-30-84	<3	540	<5	<50	<.01	<5
			Cook County				
414603088521601	06-12-84	<3	1,300	<5	<50	<.01	<5
414603088521601	09-27-84	<3	1,300	<5	<50	<.01	<5
414603088521601	12-13-84	<3	1,200	<5	<50	<.01	<5
420332088055701	05-11-84	<3	1,800	<5	<50	<.01	<5
420332088055701	09-25-84	<3	2,100	<5	<50	<.01	5
420332088055701	10-30-84	<3	3,200	<5	<50	.01	<5
420432088114101	05-11-84	<3	290	<5	<50	<.01	<5
420432088114101	09-18-84	<3	350	<5	<50	<.01	<5
420432088114101	10-30-84	<3	640	<5	<50	<.01	<5

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Time	Station name	Agency collecting sample[1]	Agency analyzing sample[1]	Depth below land surface (water level) (feet)
			De Witt County			
400647088481101	04-06-84	1105	Weldon Well No. 5	81700	17002	108.10
400647088481101	08-08-84	1300	Weldon Well No. 5	81700	17002	116.20
400647088481101	10-31-84	1015	Weldon Well No. 5	81700	17002	113.40
400647088481101	10-31-84	1020	Weldon Well No. 5	81700	17002	113.40
			Du Page County			
415502088004701	05-18-84	1140	Addison Well No. 8	17002	17002	73.50
415502088004701	09-14-84	1215	Addison Well No. 8	17002	17002	73.00
415502088004701	11-05-84	1350	Addison Well No. 8	81700	17002	73.00
			Ford County			
402719088084501	04-04-84	1350	Paxton Well No. 7	81700	17002	62.70
402719088084501	08-07-84	1000	Paxton Well No. 7	81700	17002	35.20
402719088084501	10-30-84	1005	Paxton Well No. 7	81700	17002	37.00
			Iroquois County			
404629087453801	04-26-84	1115	Watseka Well No. 7	81700	17002	46.00
404629087453801	08-10-84	1410	Watseka Well No. 7	81700	17002	43.50
404629087453801	10-29-84	1350	Watseka Well No. 7	81700	17002	44.50
405611087560001	04-23-84	1430	Clifton Well No. 1	81700	17002	67.00
405611087560001	09-06-84	1215	Clifton Well No. 1	81700	17002	--
405611087560001	11-08-84	1250	Clifton Well No. 1	81700	17002	55.60
405712087392301	04-23-84	1200	Beaverville Well No. 2	81700	17002	67.40
405712087392301	08-10-84	1130	Beaverville Well No. 2	81700	17002	90.80
405712087392301	10-29-84	1130	Beaverville Well No. 2	81700	17002	81.90
			Kane County			
420720088154601	04-30-84	1035	Carpentersville Well No. 6	81700	17002	132.00
420720088154601	08-31-84	1145	Carpentersville Well No. 6	81700	17002	135.00
420720088154601	11-05-84	1025	Carpentersville Well No. 6	81700	17002	132.00
			Kankakee County			
410010087550801	04-26-84	1505	Chebanse Well No. 3	81700	17002	93.00
410010087550801	09-06-84	1045	Chebanse Well No. 3	81700	17002	96.00
410010087550801	11-08-84	1115	Chebanse Well No. 3	81700	17002	95.00

[1] 17002 - Illinois Environmental Protection Agency
81700 - U.S. Geological Survey

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Pump or flow period prior to sampling (min)	Flow rate, instantaneous (gal/min)	Specific conductance (µS/cm)	pH (standard units)	Oxidation reduction potential (mV)	Temperature (deg C)	Calcium total recoverable (mg/L as Ca)
			De Witt County					
400647088481101	04-06-84	90	69	930	7.3	-126	13.5	57
400647088481101	08-08-84	75	55	980	7.4	-140	13.5	69
400647088481101	10-31-84	95	61	1,010	7.3	--	12.5	64
400647088481101	10-31-84	100	61	1,010	7.3	--	12.5	62
			Du Page County					
415502088004701	05-18-84	635	825	1,470	6.7	--	12.5	180
415502088004701	09-14-84	255	--	1,410	6.8	--	11.5	130
415502088004701	11-05-84	200	800	1,340	6.9	--	11.0	200
			Ford County					
402719088084501	04-04-84	60	714	540	7.5	-121	13.0	77
402719088084501	08-07-84	89,160	720	670	7.8	-138	13.0	82
402719088084501	10-30-84	35	690	675	7.5	--	12.5	78
			Iroquois County					
404629087453801	04-26-84	95	450	760	7.4	-148	13.5	62
404629087453801	08-10-84	80	430	700	7.4	-147	14.5	60
404629087453801	10-29-84	70	430	750	7.5	--	12.5	62
405611087560001	04-23-84	55	171	980	7.4	-82	12.0	95
405611087560001	09-06-84	60	153	940	7.2	-56	12.5	93
405611087560001	11-08-84	50	330	910	7.3	-50	12.5	100
405712087392301	04-23-84	70	130	650	7.6	-153	11.0	52
405712087392301	08-10-84	90	100	590	7.6	-140	13.5	51
405712087392301	10-29-84	55	115	615	7.5	--	12.5	56
			Kane County					
420720088154601	04-30-84	95	2,300	765	6.7	--	11.0	94
420720088154601	08-31-84	285	2,300	760	7.0	--	11.0	88
420720088154601	11-05-84	85	2,200	695	6.7	--	10.5	98
			Kankakee County					
410010087550801	04-26-84	95	121	1,070	7.5	-53	12.0	88
410010087550801	09-06-84	75	124	1,060	7.4	-32	12.0	89
410010087550801	11-08-84	30	166	1,040	7.4	-11	12.0	94

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Magnesium, total recoverable (mg/L as Mg)	Sodium, total recoverable (mg/L as Na)	Potassium, total recoverable (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as (SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, total (mg/L as F)
			De Witt County					
400647088481101	04-06-84	31	120	3.0	453	<10	66	0.8
400647088481101	08-08-84	36	120	2.3	471	<10	67	.8
400647088481101	10-31-84	34	120	2.2	450	<10	67	.7
400647088481101	10-31-84	34	120	2.2	455	<10	67	.8
			Du Page County					
415502088004701	05-18-84	87	30	3.5	312	330	73	.1
415502088004701	09-14-84	65	29	2.7	420	360	72	.2
415502088004701	11-05-84	94	32	3.8	395	360	73	.1
			Ford County					
402719088084501	04-04-84	31	23	2.6	344	32	<1.0	.3
402719088084501	08-07-84	33	25	1.8	349	34	1.0	.2
402719088084501	10-30-84	34	24	1.8	341	34	1.0	.2
			Iroquois County					
404629087453801	04-26-84	27	69	3.7	392	<10	28	.2
404629087453801	08-10-84	27	76	3.9	308	<10	29	.2
404629087453801	10-29-84	30	76	3.6	373	<10	29	.2
405611087560001	04-23-84	46	51	5.5	303	220	2.2	.5
405611087560001	09-06-84	44	56	5.4	304	240	1.8	.4
405611087560001	11-08-84	47	56	5.6	292	240	2.0	.5
405712087392301	04-23-84	23	46	3.3	286	20	24	.5
405712087392301	08-10-84	23	52	3.3	390	<10	27	.5
405712087392301	10-29-84	27	54	3.2	288	20	26	.5
			Kane County					
420720088154601	04-30-84	51	7.3	2.1	337	82	22	.3
420720088154601	08-31-84	48	7.0	1.9	335	75	24	.3
420720088154601	11-05-84	54	6.6	2.1	333	79	21	.2
			Kankakee County					
410010087550801	04-26-84	42	95	9.8	249	360	4.5	.6
410010087550801	09-06-84	43	95	9.4	255	340	3.9	.5
410010087550801	11-08-84	44	99	9.7	242	350	3.0	.6

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 deg. C dissolved (mg/L)	Nitrogen, NO_2+NO_3 total (mg/L as N)	Nitrogen, ammonia total (mg/L as N)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic total (µg/L as As)
			De Witt County					
400647088481101	04-06-84	13	589	<0.10	3.50	0.46	60	26
400647088481101	08-08-84	16	585	.10	4.70	.51	<50	29
400647088481101	10-31-84	13	608	<.10	5.60	.49	<50	29
400647088481101	10-31-84	13	601	<.10	5.50	.50	<50	30
			Du Page County					
415502088004701	05-18-84	21	1,130	.11	.19	<.01	80	<1
415502088004701	09-14-84	22	1,090	<.10	.29	1.40	<50	<1
415502088004701	11-05-84	19	1,100	<.10	.25	.01	<50	1
			Ford County					
402719088084501	04-04-84	17	452	<.10	.36	.06	<50	2
402719088084501	08-07-84	20	423	<.10	1.30	.11	<50	1
402719088084501	10-30-84	17	437	<.10	1.40	.11	<50	2
			Iroquois County					
404629087453801	04-26-84	13	410	<.10	3.90	.51	210	4
404629087453801	08-10-84	15	439	<.10	5.90	.96	<50	42
404629087453801	10-29-84	13	436	<.10	6.20	.84	<50	47
405611087560001	04-23-84	8.5	639	<.10	1.60	.05	90	1
405611087560001	09-06-84	8.1	642	<.10	1.60	.03	<50	<1
405611087560001	11-08-84	8.0	662	<.10	1.70	.04	<50	<1
405712087392301	04-23-84	11	364	.23	3.70	.21	<50	<1
405712087392301	08-10-84	12	356	<.10	3.80	.19	<50	<1
405712087392301	10-29-84	10	392	<.10	4.20	.21	<50	<1
			Kane County					
420720088154601	04-30-84	20	500	.15	<.10	.01	70	2
420720088154601	08-31-84	18	533	<.10	.19	.02	<50	3
420720088154601	11-05-84	18	486	<.10	<.10	.01	<50	3
			Kankakee County					
410010087550801	04-26-84	7.2	703	.22	.86	<.01	60	<1
410010087550801	09-06-84	6.8	779	<.10	.83	<.01	<50	<1
410010087550801	11-08-84	6.8	762	<.10	.88	<.01	<50	<1

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Barium, total recoverable (µg/L as Ba)	Beryllium, total recoverable (µg/L as Be)	Boron, total recoverable (µg/L as B)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
			De Witt County					
400647088481101	04-06-84	400	<2	370	<3	<5	<5	<5
400647088481101	08-08-84	500	<2	460	<3	<5	<5	<5
400647088481101	10-31-84	500	<1	440	<3	7	<5	<5
400647088481101	10-31-84	400	<1	440	<3	<5	<5	<5
			Du Page County					
415502088004701	05-18-84	70	<1	120	<3	<5	<5	14
415502088004701	09-14-84	60	<1	120	<3	<5	<5	8
415502088004701	11-05-84	70	<1	120	<3	<5	<5	<5
			Ford County					
402719088084501	04-04-84	100	<1	320	<3	<5	9	<5
402719088084501	08-07-84	100	<2	390	<3	<5	<5	<5
402719088084501	10-30-84	200	<1	390	<3	22	8	<5
			Iroquois County					
404629087453801	04-26-84	200	<1	570	3	<5	<5	<5
404629087453801	08-10-84	200	<1	580	<3	<5	<5	<5
404629087453801	10-29-84	200	<1	540	<3	<5	<5	<5
405611087560001	04-23-84	40	<1	1,200	<3	<5	<5	<5
405611087560001	09-06-84	40	<1	1,000	<3	<5	<5	<5
405611087560001	11-08-84	40	<1	1,000	<3	<5	<5	<5
405712087392301	04-23-84	100	<1	740	<3	<5	<5	<5
405712087392301	08-10-84	100	<1	750	<3	<5	<5	<5
405712087392301	10-29-84	200	<1	740	<3	<5	<5	<5
			Kane County					
420720088154601	04-30-84	100	<1	<50	<3	<5	<5	<5
420720088154601	08-31-84	100	<1	<50	<3	<5	<5	5
420720088154601	11-05-84	100	<1	<50	<3	<5	<5	<5
			Kankakee County					
410010087550801	04-26-84	<5	<1	2,300	<3	<5	<5	8
410010087550801	09-06-84	20	<1	1,900	<3	<5	<5	<5
410010087550801	11-08-84	20	<1	1,800	<3	<5	<5	<5

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury total recoverable (µg/L as Mg)	Nickel, total recoverable (µg/L as Ni)	Selenium, total (µg/L as Se)
			De Witt County				
400647088481101	04-06-84	2,800	<5	12	<0.1	<5	<1
400647088481101	08-08-84	3,300	<5	21	<.1	<5	1
400647088481101	10-31-84	3,200	--	16	<.1	<5	<1
400647088481101	10-31-84	3,100	--	14	<.1	<5	<1
			Du Page County				
415502088004701	05-18-84	3,500	5	57	<.1	<5	<1
415502088004701	09-14-84	3,100	<5	49	<.1	<5	<1
415502088004701	11-05-84	4,100	--	61	<.1	<5	<1
			Ford County				
402719088084501	04-04-84	1,700	<5	28	<.1	12	<1
402719088084501	08-07-84	1,800	<5	35	<.1	<5	<1
402719088084501	10-30-84	1,900	--	35	<.1	<5	<1
			Iroquois County				
404629087453801	04-26-84	2,200	<5	33	<.1	<5	<1
404629087453801	08-10-84	2,200	<5	22	<.1	<5	<1
404629087453801	10-29-84	2,300	--	21	<.1	<5	<1
405611087560001	04-23-84	590	<5	16	<.1	15	<1
405611087560001	09-06-84	640	<5	18	<.1	<5	<1
405611087560001	11-08-84	640	17	17	<.1	<5	<1
405712087392301	04-23-84	760	9	24	<.1	5	<1
405712087392301	08-10-84	680	<5	27	<.1	<5	2
405712087392301	10-29-84	710	8	26	<.1	<5	<1
			Kane County				
420720088154601	04-30-84	1,800	<5	42	<.1	<5	<1
420720088154601	08-31-84	1,800	<5	44	<.1	<5	<1
420720088154601	11-05-84	1,900	--	45	<.1	<5	<1
			Kankakee County				
410010087550801	04-26-84	200	<5	8	<.1	<5	<1
410010087550801	09-06-84	190	<5	<5	<.1	<5	<1
410010087550801	11-08-84	410	--	5	<.1	<5	<1

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Silver, total recoverable (µg/L as Ag)	Strontium, total recoverable (µg/L as Sr)	Vanadium, total (µg/L as V)	Zinc, total recoverable (µg/L as Zn)	Cyanide total (mg/L as CN)	Phenols total (µg/L)
			De Witt County				
400647088481101	04-06-84	<3	560	<5	<50	<0.01	<5
400647088481101	08-08-84	<5	730	<5	<50	<.01	<5
400647088481101	10-31-84	<3	1,300	<5	<50	<.01	<5
400647088481101	10-31-84	<3	1,200	<5	<50	<.01	<5
			Du Page County				
415502088004701	05-18-84	<3	670	<5	<50	<.01	<5
415502088004701	09-14-84	<3	640	<5	<50	<.01	<5
415502088004701	11-05-84	<3	740	<5	<50	<.01	<5
			Ford County				
402719088084501	04-04-84	<3	670	<5	<50	<.01	<5
402719088084501	08-07-84	<3	780	<5	<50	<.01	<5
402719088084501	10-30-84	8	700	<5	<50	.05	<5
			Iroquois County				
404629087453801	04-26-84	<3	620	<5	<50	<.01	<5
404629087453801	08-10-84	<5	710	<5	<50	<.01	<5
404629087453801	10-29-84	<3	660	<5	<50	<.01	<5
405611087560001	04-23-84	<3	1,000	<5	<50	<.01	<5
405611087560001	09-06-84	<3	1,200	<5	<50	<.01	<5
405611087560001	11-08-84	<3	1,100	<5	<50	<.01	<5
405712087392301	04-23-84	<3	380	<5	<50	<.01	<5
405712087392301	08-10-84	<3	430	<5	<50	<.01	<5
405712087392301	10-29-84	<3	440	<5	<50	<.01	<5
			Kane County				
420720088154601	04-30-84	<3	130	<5	<50	<.01	<5
420720088154601	08-31-84	<3	190	<5	<50	<.01	<5
420720088154601	11-05-84	<3	180	<5	<50	<.01	<5
			Kankakee County				
410010087550801	04-26-84	<3	1,500	<5	<50	<.01	<5
410010087550801	09-06-84	<3	1,900	<5	<50	<.01	<5
410010087550801	11-08-84	<3	1,600	<5	<50	<.01	<5

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Time	Station name	Agency collecting sample[1]	Agency analyzing sample[1]	Depth below land surface (water level) (feet)
			Lake County			
420949088082601	04-30-84	1440	Barrington Well No. 4	17002	17002	93.00
420949088082601	09-20-84	1345	Barrington Well No. 4	81700	17002	--
420949088082601	11-05-84	0920	Barrington Well No. 4	17002	17002	94.00
421652088003601	05-01-84	1145	Mundelein Well No. 5	81700	17002	88.00
421652088003601	09-26-84	1245	Mundelein Well No. 5	17002	17002	93.00
421652088003601	11-19-84	1240	Mundelein Well No. 5	81700	17002	94.00
422356088105201	05-08-84	1400	Fox Lake Well No. 2	81700	17002	31.00
422356088105201	10-01-84	1225	Fox Lake Well No. 2	81700	17002	31.00
422356088105201	11-19-84	1445	Fox Lake Well No. 2	81700	17002	41.00
422830088052501	05-08-84	1105	Antioch Well No. 3	81700	17002	60.00
422830088052501	10-01-84	1430	Antioch Well No. 3	81700	17002	63.00
422830088052501	11-08-84	1320	Antioch Well No. 3	81700	17002	60.00
422901087492901	05-04-84	1130	Winthrop Harbor Well No. 4	81700	17002	98.00
422901087492901	11-15-84	1020	Winthrop Harbor Well No. 4	81700	17002	111.00
			McHenry County			
421955088263301	05-07-84	1055	Woodstock Well No. 6	81700	17002	84.00
422525088361401	04-25-84	1420	Harvard Well No. 6	81700	17002	118.00
422525088361401	10-09-84	1345	Harvard Well No. 6	81700	17002	145.00
422525088361401	11-13-84	1145	Harvard Well No. 6	81700	17002	140.00
			McLean County			
402912089090901	04-17-84	1440	Normal Well No. 100	81700	17002	193.00
402912089090901	08-09-84	1450	Normal Well No. 100	81700	17002	195.00
402912089090901	11-02-84	1355	Normal Well No. 100	81700	17002	200.00
			Massac County			
370724088374201	06-11-84	1645	Brookport Well No. 3	81700	17002	--
370724088374201	10-09-84	1520	Brookport Well No. 3	17002	17002	--
370724088374201	12-19-84	1430	Brookport Well No. 3	81700	17002	--
			Piatt County			
400138088341601	04-06-84	1430	Monticello Well No. 5	81700	17002	36.50
400138088341601	08-08-84	1035	Monticello Well No. 5	81700	17002	115.00
400138088341601	10-31-84	1220	Monticello Well No. 5	81700	17002	46.50

[1] 17002 - Illinois Environmental Protection Agency
81700 - U.S. Geological Survey

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Pump or flow period prior to sampling (min)	Flow rate, instantaneous (gal/min)	Specific conductance (µS/cm)	pH (standard units)	Oxidation reduction potential (mV)	Temperature (deg C)	Calcium total recoverable (mg/L as Ca)
			Lake County					
420949088082601	04-30-84	155	680	775	6.8	--	11.0	87
420949088082601	09-20-84	135	1,000	770	7.1	--	11.0	83
420949088082601	11-05-84	80	1,080	785	7.4	--	10.5	92
421652088003601	05-01-84	255	480	880	7.5	--	11.5	74
421652088003601	09-26-84	--	510	905	7.5	--	11.5	79
421652088003601	11-19-84	85	500	890	7.6	--	11.0	74
422356088105201	05-08-84	50	--	765	6.9	--	12.5	87
422356088105201	10-01-84	1,705	--	765	7.4	--	12.5	72
422356088105201	11-19-84	>2,880	--	750	7.3	--	12.0	87
422830088052501	05-08-84	215	410	590	7.3	--	12.0	43
422830088052501	10-01-84	240	410	595	7.5	--	11.5	42
422830088052501	11-08-84	90	410	565	7.6	--	11.5	42
422901087492901	05-04-84	210	150	480	7.5	--	10.5	27
422901087492901	11-15-84	140	150	470	7.9	--	10.5	28
			McHenry County					
421955088263301	05-07-84	355	900	840	6.9	--	11.5	100
422525088361401	04-25-84	90	750	665	7.0	--	11.0	76
422525088361401	10-09-84	35	630	655	7.3	--	11.0	61
422525088361401	11-13-84	140	720	655	7.4	--	10.5	74
			McLean County					
402912089090901	04-17-84	30,220	880	740	7.3	-86	14.0	68
402912089090901	08-09-84	4,730	890	760	7.5	-120	13.0	68
402912089090901	11-02-84	355	860	740	7.6	-127	12.5	66
			Massac County					
370724088374201	06-11-84	43,200	111	410	7.2	-124	16.5	63
370724088374201	10-09-84	--	155	420	7.1	-2	17.0	63
370724088374201	12-19-84	--	170	410	7.2	--	16.0	70
			Piatt County					
400138088341601	04-06-84	130	1,040	580	7.7	-150	13.5	53
400138088341601	08-08-84	170	1,250	590	7.9	-167	14.0	64
400138088341601	10-31-84	215	1,430	610	7.6	--	13.0	57

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Magnesium, total recoverable (mg/L as Mg)	Sodium, total recoverable (mg/L as Na)	Potassium, total recoverable (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as (SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, total (mg/L as F)
			Lake County					
420949088082601	04-30-84	56	13	1.6	345	87	15	0.4
420949088082601	09-20-84	51	13	1.4	333	88	13	.3
420949088082601	11-05-84	58	11	1.5	343	89	14	.3
421652088003601	05-01-84	41	70	2.1	162	320	3.9	.8
421652088003601	09-26-84	43	75	2.0	162	340	3.5	.8
421652088003601	11-19-84	41	73	1.9	--	350	--	--
422356088105201	05-08-84	48	10	2.7	373	34	21	.2
422356088105201	10-01-84	39	9.9	2.1	366	44	21	.2
422356088105201	11-19-84	47	9.9	2.3	355	38	22	.3
422830088052501	05-08-84	32	62	2.4	236	69	9.1	.8
422830088052501	10-01-84	30	51	1.7	255	69	10	.9
422830088052501	11-08-84	31	49	1.7	248	70	10	.9
422901087492901	05-04-84	22	44	1.8	185	62	6.3	1.0
422901087492901	11-15-84	22	48	1.3	184	70	6.0	1.0
			McHenry County					
421955088263301	05-07-84	52	9.4	2.2	360	94	24	.4
422525088361401	04-25-84	42	14	1.4	369	25	7.4	.5
422525088361401	10-09-84	33	14	1.1	349	26	8.0	.4
422525088361401	11-13-84	43	12	1.2	354	24	8.0	.6
			McLean County					
402912089090901	04-17-84	38	62	2.7	431	<10	4.6	.4
402912089090901	08-09-84	37	62	2.3	441	<10	5.7	.4
402912089090901	11-02-84	38	53	2.0	434	12	4.0	.4
			Massac County					
370724088374201	06-11-84	12	6.0	1.0	208	26	4.1	.1
370724088374201	10-09-84	13	5.8	1.1	196	24	3.0	.2
370724088374201	12-19-84	13	5.9	1.2	185	26	4.2	.2
			Piatt County					
400138088341601	04-06-84	27	40	2.6	331	<10	5.4	.3
400138088341601	08-08-84	32	44	1.8	347	<10	5.2	.3
400138088341601	10-31-84	30	41	1.7	335	<10	7.0	.2

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 deg. C dissolved (mg/L)	Nitrogen, NO_2+NO_3 total (mg/L as N)	Nitrogen, ammonia total (mg/L as N)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic total (µg/L as As)
			Lake County					
420949088082601	04-30-84	26	504	0.14	0.29	0.01	50	<1
420949088082601	09-20-84	28	512	<.10	.31	.66	<50	<1
420949088082601	11-05-84	25	482	<.10	.24	.01	<50	<1
421652088003601	05-01-84	17	598	<.10	.49	.08	50	<1
421652088003601	09-26-84	17	657	<.10	.55	.05	<50	<1
421652088003601	11-19-84	--	--	<.10	.51	.06	<50	<1
422356088105201	05-08-84	25	425	<.10	<.10	.02	<50	<1
422356088105201	10-01-84	22	503	<.10	.20	.02	<50	<1
422356088105201	11-19-84	22	457	<.10	.12	.05	<50	<1
422830088052501	05-08-84	19	399	1.10	.53	--	1,400	1
422830088052501	10-01-84	18	385	<.10	.60	.02	<50	2
422830088052501	11-08-84	18	384	<.10	.50	<.01	<50	1
422901087492901	05-04-84	19	325	.39	.15	.06	<50	<1
422901087492901	11-15-84	17	324	.29	.16	.02	70	<1
			McHenry County					
421955088263301	05-07-84	24	544	<.10	.56	.04	<50	<1
422525088361401	04-25-84	21	386	<.10	.99	.07	60	2
422525088361401	10-09-84	20	423	<.10	1.00	.05	<50	<1
422525088361401	11-13-84	21	432	<.10	.85	--	<50	1
			McLean County					
402912089090901	04-17-84	16	456	<.10	4.20	.21	<50	21
402912089090901	08-09-84	18	444	<.10	3.90	.26	<50	23
402912089090901	11-02-84	16	446	<.10	4.40	.27	<50	25
			Massac County					
370724088374201	06-11-84	10	250	<.10	<.10	.01	<50	<1
370724088374201	10-09-84	11	251	<.10	.16	<.01	<50	2
370724088374201	12-19-84	11	270	<.10	.49	.01	50	<1
			Piatt County					
400138088341601	04-06-84	12	390	<.10	.27	.10	<50	42
400138088341601	08-08-84	13	362	<.10	.63	.20	<50	40
400138088341601	10-31-84	12	383	<.10	.72	.19	<50	46

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Barium, total recoverable (µg/L as Ba)	Beryllium, total recoverable (µg/L as Be)	Boron, total recoverable (µg/L as B)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
			Lake County					
420949088082601	04-30-84	80	<1	100	<3	<5	<5	<5
420949088082601	09-20-84	80	<1	100	6	<5	20	<5
420949088082601	11-05-84	90	<1	80	<3	<5	<5	<5
421652088003601	05-01-84	<5	<1	540	<3	<5	<5	<5
421652088003601	09-26-84	20	<1	510	<3	5	<5	<5
421652088003601	11-19-84	20	<1	480	<3	<5	<5	<5
422356088105201	05-08-84	70	<1	<50	<3	<5	<5	<5
422356088105201	10-01-84	70	<1	<50	<3	<5	<5	<5
422356088105201	11-19-84	80	<1	50	<3	<5	<5	<5
422830088052501	05-08-84	80	<1	410	<3	<5	<5	9
422830088052501	10-01-84	60	<1	420	<3	<5	<5	<5
422830088052501	11-08-84	60	<1	410	<3	<5	<5	<5
422901087492901	05-04-84	60	<1	490	<3	<5	<5	<5
422901087492901	11-15-84	60	<1	490	<3	11	<5	21
			McHenry County					
421955088263301	05-07-84	100	<1	<50	<3	<5	<5	<5
422525088361401	04-25-84	80	<1	90	<3	<5	<5	<5
422525088361401	10-09-84	70	<1	80	<3	<5	<5	9
422525088361401	11-13-84	80	<1	70	<3	<5	<5	<5
			McLean County					
402912089090901	04-17-84	200	<1	350	<3	<5	<5	<5
402912089090901	08-09-84	200	<1	380	<3	<5	<5	<5
402912089090901	11-02-84	200	<1	350	<3	<5	<5	<5
			Massac County					
370724088374201	06-11-84	40	<1	<50	<3	<5	<5	<5
370724088374201	10-09-84	40	<1	<50	<3	<5	<5	<5
370724088374201	12-19-84	40	<1	<50	<3	<5	<5	<5
			Piatt County					
400138088341601	04-06-84	200	<1	450	<3	<5	<5	<5
400138088341601	08-08-84	200	<1	560	<3	8	<5	<5
400138088341601	10-31-84	200	<1	510	<3	<5	<5	<5

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury total recoverable (µg/L as Mg)	Nickel, total recoverable (µg/L as Ni)	Selenium, total (µg/L as Se)
			Lake County				
420949088082601	04-30-84	1,300	<5	15	<0.1	<5	<1
420949088082601	09-20-84	1,400	<5	16	<.1	36	<5
420949088082601	11-05-84	1,400	20	14	<.1	<5	<1
421652088003601	05-01-84	470	<5	15	<.1	15	<1
421652088003601	09-26-84	470	<5	17	<.1	<5	<1
421652088003601	11-19-84	400	<5	13	<.1	<5	<1
422356088105201	05-08-84	1,900	8	52	<.1	52	<1
422356088105201	10-01-84	1,600	<5	45	<.1	<5	<5
422356088105201	11-19-84	1,900	<5	56	.1	<5	<1
422830088052501	05-08-84	680	8	28	<.1	<5	<1
422830088052501	10-01-84	640	<5	9	<.1	<5	<5
422830088052501	11-08-84	640	--	9	<.1	6	<1
422901087492901	05-04-84	260	<5	<5	<.1	<5	<1
422901087492901	11-15-84	260	<5	<5	<.1	<5	<1
			McHenry County				
421955088263301	05-07-84	2,700	<5	68	<.1	6	<1
422525088361401	04-25-84	1,800	<5	46	<.1	<5	<1
422525088361401	10-09-84	1,400	<5	38	<.1	<5	<5
422525088361401	11-13-84	1,800	--	45	<.1	<5	<1
			McLean County				
402912089090901	04-17-84	<2,200	<5	32	<.1	<5	<1
402912089090901	08-09-84	2,400	<5	41	<.1	<5	<1
402912089090901	11-02-84	2,400	--	37	<.1	<5	--
			Massac County				
370724088374201	06-11-84	1,000	5	56	<.1	<5	<1
370724088374201	10-09-84	640	<5	49	<.1	<5	<5
370724088374201	12-19-84	620	<5	56	<.1	<5	<5
			Piatt County				
400138088341601	04-06-84	2,200	<5	59	<.1	6	<1
400138088341601	08-08-84	2,500	<5	72	<.1	<5	<1
400138088341601	10-31-84	2,500	--	66	<.1	<5	<1

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Silver, total recoverable (µg/L as Ag)	Strontium, total recoverable (µg/L as Sr)	Vanadium, total (µg/L as V)	Zinc, total recoverable (µg/L as Zn)	Cyanide total (mg/L as CN)	Phenols total (µg/L)
			Lake County				
420949088082601	04-30-84	<3	750	<5	<50	<0.01	<5
420949088082601	09-20-84	4	810	7	<50	<.01	<5
420949088082601	11-05-84	<3	790	<5	<50	<.01	<5
421652088003601	05-01-84	<3	1,900	<5	<50	<.01	<5
421652088003601	09-26-84	<3	2,200	<5	<50	<.01	<5
421652088003601	11-19-84	<3	1,900	<5	<50	<.01	<5
422356088105201	05-08-84	<3	150	<5	<50	.02	<5
422356088105201	10-01-84	<3	130	<5	<50	<.01	<5
422356088105201	11-19-84	<3	160	<5	<50	<.01	<5
422830088052501	05-08-84	<3	1,000	<5	<100	.01	<5
422830088052501	10-01-84	<3	1,000	<5	<50	<.01	<5
422830088052501	11-08-84	<3	960	<5	<50	<.01	<5
422901087492901	05-04-84	<3	2,000	<5	<50	<.01	<5
422901087492901	11-15-84	<3	1,800	<5	<50	<.01	<5
			McHenry County				
421955088263301	05-07-84	<3	290	<5	<100	<.01	<5
422525088361401	04-25-84	<3	1,100	<5	<50	<.01	<5
422525088361401	10-09-84	<3	1,000	<5	<50	<.01	<5
422525088361401	11-13-84	<3	1,100	<5	<50	<.01	<5
			McLean County				
402912089090901	04-17-84	<3	620	<5	<50	<.01	<5
402912089090901	08-09-84	<3	710	<5	<50	<.01	<5
402912089090901	11-02-84	<3	1,200	<5	<50	<.01	<5
			Massac County				
370724088374201	06-11-84	<5	150	<5	<50	<.01	<5
370724088374201	10-09-84	<3	170	<5	<50	<.01	<5
370724088374201	12-19-84	<3	150	<5	<50	<.01	<5
			Piatt County				
400138088341601	04-06-84	<3	280	<5	<50	<.01	<5
400138088341601	08-08-84	<3	360	<5	<50	<.01	<5
400138088341601	10-31-84	<3	650	<5	<50	<.01	<5

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Time	Station name	Agency collecting sample[1]	Agency analyzing sample[1]	Depth below land surface (water level) (feet)
			Tazewell County			
402024089184501	05-17-84	1030	Armington Well No. 2	81700	17002	40.90
402024089184501	08-27-84	1112	Armington Well No. 2	81700	17002	40.90
402024089184501	11-13-84	1055	Armington Well No. 2	81700	17002	42.90
403626089282001	05-11-84	1320	Morton Well Well No. 5	81700	17002	228.00
403626089282001	08-20-84	1130	Morton Well Well No. 5	81700	17002	230.00
403626089282001	12-03-84	1200	Morton Well Well No. 5	81700	17002	213.00
404222089243201	05-17-84	1320	Washington Well No. 7	81700	17002	--
404222089243201	08-20-84	1342	Washington Well No. 7	81700	17002	22.00
404222089243201	12-03-84	1350	Washington Well No. 7	81700	17002	21.00
404222089243201	12-03-84	1355	Washington Well No. 7	81700	17002	21.00
			Will County			
413323087594501	05-17-84	1315	Joliet Well No. 5	81700	17002	--
413323087594501	09-17-84	1630	Joliet Well No. 5	81700	17002	--
413323087594501	11-21-84	1210	Joliet Well No. 5	81700	17002	--

[1] 17002 - Illinois Environmental Protection Agency
81700 - U.S. Geological Survey

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Pump or flow period prior to sampling (min)	Flow rate, instantaneous (gal/min)	Specific conductance (µS/cm)	pH (standard units)	Oxidation reduction potential (mV)	Temperature (deg C)	Calcium total recoverable (mg/L as Ca)
			Tazewell County					
402024089184501	05-17-84	210	106	590	7.7	-119	13.0	71
402024089184501	08-27-84	177	117	600	7.6	-104	13.5	69
402024089184501	11-13-84	122	115	590	7.5	-100	13.0	71
403626089282001	05-11-84	125	539	760	7.5	-150	15.0	69
403626089282001	08-20-84	150	511	750	7.6	-138	17.5	76
403626089282001	12-03-84	90	--	755	7.4	--	14.0	69
404222089243201	05-17-84	230	870	550	7.7	-141	13.5	61
404222089243201	08-20-84	402	848	530	7.7	-135	13.5	66
404222089243201	12-03-84	470	873	545	7.6	--	13.0	64
404222089243201	12-03-84	475	873	545	7.6	--	13.0	64
			Will County					
413323087594501	05-17-84	E1,440	600	885	6.9	--	11.5	110
413323087594501	09-17-84	270	600	865	7.0	--	11.0	100
413323087594501	11-21-84	E8,900	660	975	7.2	--	10.0	110

E Estimated.

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Magnesium, total recoverable (mg/L as Mg)	Sodium, total recoverable (mg/L as Na)	Potassium, total recoverable (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as (SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, total (mg/L as F)
			Tazewell County					
402024089184501	05-17-84	34	10	1.9	340	<10	2.0	0.2
402024089184501	08-27-84	34	11	1.2	342	53	1.7	.2
402024089184501	11-13-84	34	9.4	1.2	390	<10	1.0	.2
403626089282001	05-11-84	39	46	3.1	419	<10	13	.4
403626089282001	08-20-84	40	53	2.9	429	<10	14	.4
403626089282001	12-03-84	37	50	2.8	--	<10	15	.4
404222089243201	05-17-84	30	9.6	1.9	312	<10	1.3	.2
404222089243201	08-20-84	31	12	1.3	318	<10	1.0	.2
404222089243201	12-03-84	30	11	1.3	--	<10	<1.0	.2
404222089243201	12-03-84	30	11	1.3	--	<10	<1.0	.2
			Will County					
413323087594501	05-17-84	54	8.1	2.4	268	200	16	.2
413323087594501	09-17-84	47	8.7	2.2	293	210	15	.2
413323087594501	11-21-84	52	9.0	2.5	290	220	14	.3

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 deg. C dissolved (mg/L)	Nitrogen, NO_2+NO_3 total (mg/L as N)	Nitrogen, ammonia total (mg/L as N)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic total (µg/L as As)
			Tazewell County					
402024089184501	05-17-84	20	347	<0.10	0.82	0.06	<50	18
402024089184501	08-27-84	21	352	<.10	.82	.05	<50	17
402024089184501	11-13-84	21	364	<.10	.73	.05	<50	17
403626089282001	05-11-84	18	405	<.10	2.40	.11	<50	20
403626089282001	08-20-84	18	539	<.10	2.60	.12	<50	22
403626089282001	12-03-84	19	442	<.10	2.60	.11	<50	<1
404222089243201	05-17-84	17	306	<.10	.61	.12	<50	1
404222089243201	08-20-84	17	349	<.10	.58	.11	<50	1
404222089243201	12-03-84	18	307	<.10	.52	.11	<50	<1
404222089243201	12-03-84	18	338	<.10	.53	.11	<50	<1
			Will County					
413323087594501	05-17-84	14	596	.19	<.10	.01	<50	2
413323087594501	09-17-84	14	636	<.10	<.10	.03	<50	3
413323087594501	11-21-84	13	629	<.10	<.10	<.01	<50	2

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Barium, total recoverable (µg/L as Ba)	Beryllium, total recoverable (µg/L as Be)	Boron, total recoverable (µg/L as B)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
			Tazewell County					
402024089184501	05-17-84	90	<1	50	<3	<5	<5	9
402024089184501	08-27-84	100	<1	<50	4	<5	<5	<5
402024089184501	11-13-84	100	<1	<50	<3	6	<5	<5
403626089282001	05-11-84	300	<1	360	<3	<5	<5	<5
403626089282001	08-20-84	400	<1	410	<3	<5	<5	<5
403626089282001	12-03-84	300	<1	340	<3	<5	<5	<5
404222089243201	05-17-84	100	<1	<50	<3	<5	<5	<5
404222089243201	08-20-84	200	<1	70	<3	<5	<5	<5
404222089243201	12-03-84	200	<1	60	<3	<5	<5	<5
404222089243201	12-03-84	200	<1	50	<3	<5	<5	<5
			Will County					
413323087594501	05-17-84	20	<1	100	<3	<5	<5	<5
413323087594501	09-17-84	20	<1	110	<3	<5	<5	6
413323087594501	11-21-84	20	<1	90	<3	<5	<5	6

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury total recoverable (µg/L as Mg)	Nickel, total recoverable (µg/L as Ni)	Selenium, total (µg/L as Se)
			Tazewell County				
402024089184501	05-17-84	1,500	<5	74	<0.1	<5	<1
402024089184501	08-27-84	1,600	<5	79	<.1	11	1
402024089184501	11-13-84	1,600	--	74	<.1	<5	<1
403626089282001	05-11-84	2,800	5	20	<.1	<5	<1
403626089282001	08-20-84	2,900	<5	28	<.1	<5	<1
403626089282001	12-03-84	2,800	<5	22	.1	<5	<1
404222089243201	05-17-84	1,400	<5	60	<.1	5	<1
404222089243201	08-20-84	1,600	--	70	<.1	<5	<1
404222089243201	12-03-84	1,500	<5	66	<.1	<5	<1
404222089243201	12-03-84	1,500	<5	66	.1	<5	<1
			Will County				
413323087594501	05-17-84	920	<5	58	<.1	<5	<1
413323087594501	09-17-84	910	<5	53	<.1	<5	<1
413323087594501	11-21-84	950	<5	61	<.1	5	<1

Table 4.--Water-quality records for wells open to the confined sand and gravel aquifers--Continued

Station number	Date	Silver, total recoverable (µg/L as Ag)	Strontium, total recoverable (µg/L as Sr)	Vanadium, total (µg/L as V)	Zinc, total recoverable (µg/L as Zn)	Cyanide total (mg/L as CN)	Phenols total (µg/L)
			Tazewell County				
402024089184501	05-17-84	<3	270	<5	<50	<0.01	<5
402024089184501	08-27-84	<3	310	<5	<50	<.01	<5
402024089184501	11-13-84	<3	280	<5	<50	<.01	<5
403626089282001	05-11-84	<3	370	<5	<50	<.01	<5
403626089282001	08-20-84	<3	420	<5	<50	<.01	<5
403626089282001	12-03-84	<3	380	<5	<50	<.01	<5
404222089243201	05-17-84	<3	200	<5	<50	<.01	<5
404222089243201	08-20-84	<3	240	<5	<50	<.01	<5
404222089243201	12-03-84	<3	220	<5	<50	<.01	<5
404222089243201	12-03-84	<3	220	<5	<50	<.01	<5
			Will County				
413323087594501	05-17-84	<3	490	<5	<50	<.01	<5
413323087594501	09-17-84	<3	540	<5	<50	<.01	<5
413323087594501	11-21-84	<3	510	<5	<50	<.01	<5

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers

[min, minute; gal/min, gallons per minute; µS/cm, microsiemens per centimeter; mV, millivolts; deg. C, degrees Celsius; mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than; >, greater than; dashes indicate no data]

Station number	Date	Time	Station name	Agency collecting sample[1]	Agency analyzing sample[1]	Depth below land surface (water level) (feet)
			Adams County			
400026091242401	05-23-84	1425	Clayton-Camp Point PWD Well No. 1	81700	17002	35.90
400026091242401	08-22-84	0844	Clayton-Camp Point PWD Well No. 1	81700	17002	38.70
400026091242401	12-04-84	1600	Clayton-Camp Point PWD Well No. 1	81700	17002	37.90
			Alexander County			
371010089203701	06-14-84	1055	Cen. Alexander Co Well No. 1	81700	17002	15.90
371010089203701	10-08-84	1455	Cen. Alexander Co Well No. 1	81700	17002	17.00
371010089203701	12-18-84	1730	Cen. Alexander Co Well No. 1	81700	17002	14.00
371909089255801	06-12-84	1545	McClure-East Cape PWD Well No. 1	81700	17002	8.80
371909089255801	10-08-84	1115	McClure-East Cape PWD Well No. 1	17002	17002	--
371909089255801	12-18-84	1930	McClure-East Cape PWD Well No. 1	81700	17002	--
			Carroll County			
415737090061001	06-20-84	1500	Thomson Well No. 4	81700	17002	34.69
415737090061001	09-25-84	1350	Thomson Well No. 4	81700	17002	47.30
415737090061001	09-25-84	1355	Thomson Well No. 4	81700	17002	47.30
415737090061001	12-11-84	1225	Thomson Well No. 4	81700	17002	47.30
			Cass County			
400025090244401	05-24-84	0915	Beardstown Well No. 13	81700	17002	26.00
400025090244401	08-22-84	1050	Beardstown Well No. 13	81700	17002	29.00
400025090244401	12-05-84	0835	Beardstown Well No. 13	81700	17002	33.00
			Christian County			
393823089075901	05-25-84	0945	Assumption Well No. 11	81700	17002	65.00
393823089075901	08-23-84	0830	Assumption Well No. 11	81700	17002	61.00
393823089075901	12-05-84	1500	Assumption Well No. 11	81700	17002	62.50
			Gallatin County			
374207088094201	06-13-84	1445	New Shawneetown Well No. 4	81700	17002	36.90
374207088094201	10-10-84	1240	New Shawneetown Well No. 4	17002	17002	49.50
374207088094201	12-20-84	1140	New Shawneetown Well No. 4	81700	17002	44.00
374325088134701	06-13-84	1650	Saline Valley Well No. 1	81700	17002	41.80
374325088134701	10-10-84	1042	Saline Valley Well No. 1	17002	17002	42.00
374325088134701	12-20-84	1000	Saline Valley Well No. 1	81700	17002	39.30

[1] 17002 - Illinois Environmental Protection Agency
81700 - U.S. Geological Survey

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Pump or flow period prior to sampling (min)	Flow rate, instantaneous (gal/min)	Specific conductance (µS/cm)	pH (standard units)	Oxidation reduction potential (mV)	Temperature (deg C)	Calcium total recoverable (mg/L as Ca)
			Adams County					
400026091242401	05-23-84	325	806	660	7.2	101	13.0	86
400026091242401	08-22-84	89	797	640	7.2	126	13.0	84
400026091242401	12-04-84	90	795	665	7.0	--	12.0	87
			Alexander County					
371010089203701	06-14-84	280	E500	530	7.0	-103	15.5	68
371010089203701	10-08-84	--	E450	520	7.0	--	15.5	66
371010089203701	12-18-84	130	--	535	7.0	--	14.0	70
371909089255801	06-12-84	50	129	720	7.0	-122	16.0	100
371909089255801	10-08-84	90	E115	770	6.9	--	15.5	110
371909089255801	12-18-84	--	--	765	7.0	--	14.5	120
			Carroll County					
415737090061001	06-20-84	70	283	500	7.2	-87	12.0	55
415737090061001	09-25-84	70	270	450	7.0	-79	11.5	52
415737090061001	09-25-84	75	270	450	7.0	-79	11.5	53
415737090061001	12-11-84	37	265	490	7.1	-79	11.5	57
			Cass County					
400025090244401	05-24-84	135	877	640	7.5	-135	14.0	76
400025090244401	08-22-84	230	851	610	7.3	-105	14.5	75
400025090244401	12-05-84	95	839	625	7.4	--	13.5	75
			Christian County					
393823089075901	05-25-84	584	270	500	7.5	32	12.5	59
393823089075901	08-23-84	390	267	480	7.5	-5	13.0	61
393823089075901	12-05-84	900	266	525	7.5	--	12.5	63
			Gallatin County					
374207088094201	06-13-84	4,320	198	660	6.9	-65	16.5	--
374207088094201	10-10-84	325	250	690	6.9	-16	16.0	86
374207088094201	12-20-84	225	E200	675	7.0	--	13.5	95
374325088134701	06-13-84	1,190	957	540	7.1	-107	15.0	73
374325088134701	10-10-84	E300	875	530	7.0	-69	15.0	71
374325088134701	12-20-84	100	860	545	7.1	--	14.0	78

E Estimated.

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Magnesium, total recoverable (mg/L as Mg)	Sodium, total recoverable (mg/L as Na)	Potassium, total recoverable (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as (SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, total (mg/L as F)
			Adams County					
400026091242401	05-23-84	33	8.5	2.1	293	40	16	0.3
400026091242401	08-22-84	33	10	2.3	300	39	17	.2
400026091242401	12-04-84	33	7.7	2.1	--	40	18	.2
			Alexander County					
371010089203701	06-14-84	26	15	1.4	261	34	5.0	.1
371010089203701	10-08-84	26	15	1.5	260	30	4.0	.2
371010089203701	12-18-84	26	14	1.5	247	29	5.2	.2
371909089255801	06-12-84	28	14	2.6	330	51	14	.2
371909089255801	10-08-84	30	13	2.5	356	46	14	.2
371909089255801	12-18-84	31	12	2.8	322	45	16	.2
			Carroll County					
415737090061001	06-20-84	21	19	3.4	161	36	27	.1
415737090061001	09-25-84	20	19	3.3	166	41	28	.1
415737090061001	09-25-84	20	18	3.3	164	40	28	<.1
415737090061001	12-11-84	21	20	3.7	168	41	29	.2
			Cass County					
400025090244401	05-24-84	26	23	1.1	219	81	32	.1
400025090244401	08-22-84	26	23	1.2	222	75	25	<.1
400025090244401	12-05-84	26	21	1.2	--	75	30	<.1
			Christian County					
393823089075901	05-25-84	24	10	.5	197	40	11	.2
393823089075901	08-23-84	25	12	.7	198	42	13	.1
393823089075901	12-05-84	25	10	.7	--	48	16	<.1
			Gallatin County					
374207088094201	06-13-84	--	--	--	364	31	6.6	.2
374207088094201	10-10-84	37	11	1.2	350	32	6.0	.2
374207088094201	12-20-84	40	10	1.3	315	30	7.7	.2
374325088134701	06-13-84	28	7.1	.6	273	33	5.7	.2
374325088134701	10-10-84	28	7.1	.7	265	27	6.0	.2
374325088134701	12-20-84	29	6.8	.7	241	28	7.2	.2

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 deg. C dissolved (mg/L)	Nitrogen, NO_2+NO_3 total (mg/L as N)	Nitrogen, ammonia total (mg/L as N)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic total (µg/L as As)
			Adams County					
400026091242401	05-23-84	20	444	4.10	<0.10	0.05	<50	<1
400026091242401	08-22-84	21	560	4.10	.07	.13	<50	<1
400026091242401	12-04-84	22	447	3.80	.33	.01	<50	<1
			Alexander County					
371010089203701	06-14-84	26	334	<.10	<.10	.21	<50	4
371010089203701	10-08-84	25	338	<.10	<.10	.18	<50	5
371010089203701	12-18-84	27	391	<.10	<.10	.18	<50	4
371909089255801	06-12-84	28	482	<.10	.10	.47	<50	<1
371909089255801	10-08-84	27	481	<.10	<.10	.47	160	1
371909089255801	12-18-84	29	515	<.10	.20	.48	50	<1
			Carroll County					
415737090061001	06-20-84	21	312	4.00	<.10	.19	80	3
415737090061001	09-25-84	21	320	4.10	<.10	.20	<50	4
415737090061001	09-25-84	21	333	3.90	<.10	.26	60	2
415737090061001	12-11-84	23	347	4.00	<.10	1.90	50	2
			Cass County					
400025090244401	05-24-84	14	417	<.10	<.10	.03	<50	<1
400025090244401	08-22-84	14	516	<.10	.10	.06	<50	<1
400025090244401	12-05-84	14	418	<.10	.15	.06	<50	<1
			Christian County					
393823089075901	05-25-84	14	338	5.90	<.10	<.01	<50	<1
393823089075901	08-23-84	14	386	7.00	.06	<.01	<50	<1
393823089075901	12-05-84	14	351	6.20	.35	<.01	<50	<1
			Gallatin County					
374207088094201	06-13-84	20	430	<.10	<.10	.03	--	3
374207088094201	10-10-84	19	427	<.10	<.10	.03	<50	4
374207088094201	12-20-84	20	457	<.10	<.10	.04	<50	2
374325088134701	06-13-84	20	333	<.10	<.10	.13	<50	7
374325088134701	10-10-84	19	370	<.10	<.10	.14	<50	7
374325088134701	12-20-84	20	390	<.10	<.10	.15	60	7

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Barium, total recoverable (µg/L as Ba)	Beryllium, total recoverable (µg/L as Be)	Boron, total recoverable (µg/L as B)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
			Adams County					
400026091242401	05-23-84	200	<1	<50	<3	<5	<5	<5
400026091242401	08-22-84	200	<1	<50	<3	6	<5	<5
400026091242401	12-04-84	200	<1	<50	<3	<5	<5	<5
			Alexander County					
371010089203701	06-14-84	200	<1	<50	8	<5	8	<5
371010089203701	10-08-84	200	<1	<50	5	6	<5	<5
371010089203701	12-18-84	100	<1	<50	<3	<5	<5	<5
371909089255801	06-12-84	700	<2	90	9	<5	<5	<5
371909089255801	10-08-84	700	<1	70	6	10	<5	<5
371909089255801	12-18-84	600	<1	50	<3	<5	<5	<5
			Carroll County					
415737090061001	06-20-84	70	<1	<50	4	7	<5	<5
415737090061001	09-25-84	70	<1	<50	<3	<5	<5	<5
415737090061001	09-25-84	70	<1	<50	5	<5	<5	<5
415737090061001	12-11-84	70	<1	<50	<3	<5	<5	<5
			Cass County					
400025090244401	05-24-84	70	<1	160	<3	<5	<5	<5
400025090244401	08-22-84	80	<1	220	<3	<5	<5	<5
400025090244401	12-05-84	70	<1	170	<3	<5	<5	<5
			Christian County					
393823089075901	05-25-84	40	<1	<50	<3	<5	<5	<5
393823089075901	08-23-84	50	<1	<50	<3	<5	<5	<5
393823089075901	12-05-84	40	<1	<50	<3	<5	<5	<5
			Gallatin County					
374207088094201	06-13-84	--	--	--	--	--	--	--
374207088094201	10-10-84	70	<1	<50	<3	<5	<5	5
374207088094201	12-20-84	60	<1	<50	<3	<5	<5	<5
374325088134701	06-13-84	40	<1	<50	4	<5	<5	<5
374325088134701	10-10-84	40	<1	<50	<3	<5	<5	<5
374325088134701	12-20-84	40	<1	<50	<3	<5	<5	<5

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury total recoverable (µg/L as Mg)	Nickel, total recoverable (µg/L as Ni)	Selenium, total (µg/L as Se)
			Adams County				
400026091242401	05-23-84	<50	<5	<5	<0.1	<5	3
400026091242401	08-22-84	<50	<5	<5	<.1	<5	4
400026091242401	12-04-84	2,200	<5	<5	.1	6	2
			Alexander County				
371010089203701	06-14-84	3,500	<5	360	<.1	<5	<1
371010089203701	10-08-84	3,500	<5	350	<.1	<5	<5
371010089203701	12-18-84	3,600	<5	360	<.1	<5	<1
371909089255801	06-12-84	7,000	<5	270	<.1	<5	<1
371909089255801	10-08-84	7,600	5	290	<.1	<5	<5
371909089255801	12-18-84	7,800	<5	290	<.1	<5	<1
			Carroll County				
415737090061001	06-20-84	2,100	<5	240	<.1	<5	<1
415737090061001	09-25-84	1,900	<5	220	<.1	<5	<1
415737090061001	09-25-84	1,900	<5	220	<.1	12	<1
415737090061001	12-11-84	2,100	<5	250	<.1	<5	<1
			Cass County				
400025090244401	05-24-84	1,800	<5	250	<.1	<5	<1
400025090244401	08-22-84	1,700	<5	260	<.1	<5	<1
400025090244401	12-05-84	1,700	<5	250	.3	7	<1
			Christian County				
393823089075901	05-25-84	100	<5	280	<.1	5	2
393823089075901	08-23-84	50	<5	300	<.1	<5	2
393823089075901	12-05-84	<50	<5	340	.1	<5	1
			Gallatin County				
374207088094201	06-13-84	--	<5	--	<.1	--	<1
374207088094201	10-10-84	1,200	<5	210	<.1	<5	<5
374207088094201	12-20-84	1,600	<5	220	<.1	<5	<1
374325088134701	06-13-84	2,100	<5	140	<.1	5	<1
374325088134701	10-10-84	2,100	<5	130	<.1	<5	<5
374325088134701	12-20-84	2,200	<5	140	<.1	<5	<1

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Silver, total recoverable (µg/L as Ag)	Strontium, total recoverable (µg/L as Sr)	Vanadium, total (µg/L as V)	Zinc, total recoverable (µg/L as Zn)	Cyanide total (mg/L as CN)	Phenols total (µg/L)
			Adams County				
400026091242401	05-23-84	<3	130	<5	<50	<0.01	<5
400026091242401	08-22-84	<3	170	<5	<50	<.01	<5
400026091242401	12-04-84	<3	140	<5	<50	<.01	<5
			Alexander County				
371010089203701	06-14-84	<3	140	<5	<50	<.01	<5
371010089203701	10-08-84	<3	150	<5	<50	<.01	<5
371010089203701	12-18-84	<3	130	<5	<50	<.01	<5
371909089255801	06-12-84	<3	420	<5	<50	<.01	<5
371909089255801	10-08-84	<3	470	<5	<50	<.01	<5
371909089255801	12-18-84	<3	430	<5	<50	<.01	<5
			Carroll County				
415737090061001	06-20-84	<3	140	<5	<50	<.01	<5
415737090061001	09-25-84	<3	130	<5	<50	<.01	<5
415737090061001	09-25-84	<3	120	<5	<50	<.01	<5
415737090061001	12-11-84	<3	130	<5	<50	<.01	<5
			Cass County				
400025090244401	05-24-84	<3	100	<5	<50	<.01	<5
400025090244401	08-22-84	<3	120	<5	<50	<.01	<5
400025090244401	12-05-84	<3	110	<5	<50	<.01	<5
			Christian County				
393823089075901	05-25-84	<3	80	<5	<50	<.01	<5
393823089075901	08-23-84	<3	100	<5	<50	<.01	<5
393823089075901	12-05-84	<3	90	<5	<50	<.01	<5
			Gallatin County				
374207088094201	06-13-84	--	--	--	--	<.01	<5
374207088094201	10-10-84	<3	140	<5	<50	<.01	<5
374207088094201	12-20-84	<3	120	<5	<50	<.01	<5
374325088134701	06-13-84	<3	100	<5	<50	<.01	<5
374325088134701	10-10-84	<3	100	<5	<50	<.01	<5
374325088134701	12-20-84	<3	90	<5	<50	<.01	<5

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Time	Station name	Agency collecting sample[1]	Agency analyzing sample[1]	Depth below land surface (water level) (feet)
			Henderson County			
405512090573601	05-23-84	0955	Galesburg Well No. 74-3	81700	17002	38.10
405512090573601	08-21-84	1425	Galesburg Well No. 74-3	81700	17002	41.40
405512090573601	12-04-84	1240	Galesburg Well No. 74-3	81700	17002	41.00
			Henry County			
412832090082901	06-20-84	0925	Geneseo Well No. 25	81700	17002	26.11
412832090082901	09-24-84	1450	Geneseo Well No. 25	81700	17002	33.00
412832090082901	12-10-84	1445	Geneseo Well No. 25	81700	17002	33.00
			Kane County			
414529088264301	04-23-84	1100	Sugar Grove Well No. 2	17002	17002	74.00
414529088264301	09-12-84	1005	Sugar Grove Well No. 2	17002	17002	66.00
414529088264301	10-29-84	0905	Sugar Grove Well No. 2	81700	17002	67.00
415635088182201	04-24-84	1115	St. Charles Well No. 9	81700	17002	29.00
415635088182201	09-12-84	1525	St. Charles Well No. 9	81700	17002	30.00
415635088182201	10-29-84	1215	St. Charles Well No. 9	81700	17002	30.00
420555088165501	04-12-84	1110	West Dundee Well No. 2	81700	17002	67.29
420555088165501	09-28-84	1335	West Dundee Well No. 2	81700	17002	--
420555088165501	11-07-84	0835	West Dundee Well No. 2	81700	17002	53.00
			Livingston County			
404415088305101	04-17-84	1135	Fairbury Well No. 4	81700	17002	17.80
404415088305101	08-09-84	1110	Fairbury Well No. 4	81700	17002	--
404415088305101	08-09-84	1115	Fairbury Well No. 4	81700	17002	28.80
404415088305101	11-02-84	1055	Fairbury Well No. 4	81700	17002	31.30
			McHenry County			
422455088370901	04-25-84	1200	Harvard Well No. 5	17002	17002	46.00
422455088370901	10-09-84	1210	Harvard Well No. 5	17002	17002	50.00
422455088370901	11-13-84	1240	Harvard Well No. 5	81700	17002	49.00
			Madison County			
383929090012701	06-06-84	1340	Collinsville Well No. 10	81700	17002	43.40
383929090012701	10-18-84	1210	Collinsville Well No. 10	81700	17002	46.00
383929090012701	11-29-84	1150	Collinsville Well No. 10	81700	17002	42.90
384740090022701	06-06-84	1630	Edwardsville Well No. 8	81700	17002	29.60
384740090022701	10-17-84	1715	Edwardsville Well No. 8	81700	17002	34.20

[1] 17002 - Illinois Environmental Protection Agency
81700 - U.S. Geological Survey

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Pump or flow period prior to sampling (min)	Flow rate, instantaneous (gal/min)	Specific conductance (µS/cm)	pH (standard units)	Oxidation reduction potential (mV)	Temperature (deg C)	Calcium total recoverable (mg/L as Ca)
			Henderson County					
405512090573601	05-23-84	2,605	E2,000	500	7.4	-82	13.0	65
405512090573601	08-21-84	6,085	E2,000	480	7.2	-63	14.5	62
405512090573601	12-04-84	150	2,010	500	7.2	--	11.5	65
			Henry County					
412832090082901	06-20-84	205	E560	620	7.3	-106	12.5	91
412832090082901	09-24-84	320	540	620	7.4	-86	13.0	88
412832090082901	12-10-84	215	555	610	7.2	-95	11.0	93
			Kane County					
414529088264301	04-23-84	120	500	1,050	6.5	--	11.0	110
414529088264301	09-12-84	125	500	1,070	7.1	--	12.0	87
414529088264301	10-29-84	65	500	920	7.0	--	11.5	100
415635088182201	04-24-84	255	1,200	785	6.6	--	11.0	85
415635088182201	09-12-84	505	1,300	815	7.2	--	10.5	83
415635088182201	10-29-84	195	1,380	685	6.6	--	10.0	84
420555088165501	04-12-84	220	490	965	7.1	--	12.5	100
420555088165501	09-28-84	95	450	985	7.0	--	12.0	96
420555088165501	11-07-84	95	--	965	7.1	--	11.5	110
			Livingston County					
404415088305101	04-17-84	--	305	730	7.1	41	10.0	98
404415088305101	08-09-84	--	290	720	7.3	1	13.5	98
404415088305101	08-09-84	255	290	720	7.3	1	13.5	100
404415088305101	11-02-84	595	290	700	7.1	-23	13.0	92
			McHenry County					
422455088370901	04-25-84	300	170	1,120	6.8	--	12.0	130
422455088370901	10-09-84	280	160	1,070	6.9	--	12.0	100
422455088370901	11-13-84	340	160	1,070	7.0	--	11.5	120
			Madison County					
383929090012701	06-06-84	590	964	980	7.0	-68	15.0	130
383929090012701	10-18-84	310	E1,100	1,100	7.1	-51	14.0	140
383929090012701	11-29-84	420	--	1,040	7.0	--	13.5	140
384740090022701	06-06-84	630	1,080	510	7.2	-104	15.0	66
384740090022701	10-17-84	675	950	490	7.3	-90	14.0	66

E Estimated.

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Magnesium, total recoverable (mg/L as Mg)	Sodium, total recoverable (mg/L as Na)	Potassium, total recoverable (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as (SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, total (mg/L as F)
			Henderson County					
405512090573601	05-23-84	23	7.3	1.5	231	35	9.5	0.2
405512090573601	08-21-84	23	7.6	1.6	222	34	10	.3
405512090573601	12-04-84	23	6.6	1.7	--	37	12	.1
			Henry County					
412832090082901	06-20-84	32	7.4	.9	233	100	8.7	.2
412832090082901	09-24-84	29	7.6	.9	225	100	9.0	.2
412832090082901	12-10-84	31	6.5	1.0	238	97	11	.3
			Kane County					
414529088264301	04-23-84	57	43	3.3	384	110	71	.1
414529088264301	09-12-84	47	35	2.7	395	120	65	.2
414529088264301	10-29-84	55	45	3.4	362	110	69	.1
415635088182201	04-24-84	43	22	2.7	348	66	40	.2
415635088182201	09-12-84	43	23	2.8	332	62	40	.2
415635088182201	10-29-84	43	26	2.9	313	60	39	.1
420555088165501	04-12-84	48	29	3.2	316	65	78	.1
420555088165501	09-28-84	45	33	3.0	328	69	88	.2
420555088165501	11-07-84	51	34	3.1	327	68	92	<.1
			Livingston County					
404415088305101	04-17-84	41	7.2	2.1	270	110	17	.2
404415088305101	08-09-84	41	8.5	1.6	299	100	17	.2
404415088305101	08-09-84	41	8.3	1.5	300	100	17	.2
404415088305101	11-02-84	39	7.2	1.4	283	94	17	.2
			McHenry County					
422455088370901	04-25-84	66	32	2.2	390	120	83	.2
422455088370901	10-09-84	50	29	1.6	374	130	77	.1
422455088370901	11-13-84	61	30	2.0	382	130	77	.2
			Madison County					
383929090012701	06-06-84	53	20	1.6	315	230	19	.2
383929090012701	10-18-84	56	29	1.9	310	310	26	.2
383929090012701	11-29-84	55	21	1.7	297	270	26	.2
384740090022701	06-06-84	21	9.8	1.6	317	63	12	.1
384740090022701	10-17-84	23	10	1.7	177	60	11	<.1

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 deg. C dissolved (mg/L)	Nitrogen, NO_2+NO_3 total (mg/L as N)	Nitrogen, ammonia total (mg/L as N)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic total (µg/L as As)
			Henderson County					
405512090573601	05-23-84	18	348	0.28	<0.10	0.13	<50	1
405512090573601	08-21-84	18	364	.53	.11	.07	<50	<1
405512090573601	12-04-84	20	363	.34	.15	.05	<50	<1
			Henry County					
412832090082901	06-20-84	26	420	<.10	.18	.08	60	2
412832090082901	09-24-84	25	444	<.10	.20	.08	50	1
412832090082901	12-10-84	26	445	<.10	.31	.09	<50	<1
			Kane County					
414529088264301	04-23-84	13	627	.53	<.10	.01	70	<1
414529088264301	09-12-84	14	681	.48	<.10	.05	<50	<1
414529088264301	10-29-84	13	700	.56	.11	<.01	<50	<1
415635088182201	04-24-84	12	453	2.00	<.10	.01	50	<1
415635088182201	09-12-84	13	516	1.30	.13	<.01	<5	<1
415635088182201	10-29-84	11	500	1.20	.11	<.01	<50	<1
420555088165501	04-12-84	14	627	4.00	<.10	.06	60	<1
420555088165501	09-28-84	14	737	3.80	<.10	.03	<50	<1
420555088165501	11-07-84	14	629	3.80	<.10	<.01	<50	<1
			Livingston County					
404415088305101	04-17-84	5.7	520	.83	.11	<.01	<50	2
404415088305101	08-09-84	6.1	505	.27	<.10	<.01	<50	1
404415088305101	08-09-84	6.2	551	.26	<.10	<.01	<50	1
404415088305101	11-02-84	5.8	486	.18	<.10	<.01	<50	2
			McHenry County					
422455088370901	04-25-84	16	719	2.70	<.10	<.01	80	1
422455088370901	10-09-84	16	897	2.60	<.10	.19	<50	<1
422455088370901	11-13-84	16	750	2.60	<.10	.03	<50	<1
			Madison County					
383929090012701	06-06-84	25	754	.29	<.10	.12	<50	2
383929090012701	10-18-84	23	824	.13	.14	.15	<50	3
383929090012701	11-29-84	26	775	.21	<.10	.12	<50	1
384740090022701	06-06-84	28	355	2.30	<.10	.22	<50	2
384740090022701	10-17-84	27	338	2.30	<.10	.19	<50	1

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Barium, total recoverable (µg/L as Ba)	Beryllium, total recoverable (µg/L as Be)	Boron, total recoverable (µg/L as B)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
			Henderson County					
405512090573601	05-23-84	40	<1	<50	<3	<5	<5	7
405512090573601	08-21-84	50	<1	<50	4	<5	<5	8
405512090573601	12-04-84	50	<1	<50	<3	<5	<5	5
			Henry County					
412832090082901	06-20-84	200	<1	<50	9	14	10	<5
412832090082901	09-24-84	200	<1	<50	3	<5	<5	<5
412832090082901	12-10-84	200	<1	<50	<3	<5	<5	<5
			Kane County					
414529088264301	04-23-84	50	<1	130	<3	<5	<5	<5
414529088264301	09-12-84	50	<1	130	<3	<5	<5	<5
414529088264301	10-29-84	60	<1	150	<3	<5	<5	<5
415635088182201	04-24-84	50	<1	70	<3	<5	<5	6
415635088182201	09-12-84	50	<1	70	<3	<5	<5	<5
415635088182201	10-29-84	60	<1	80	<3	<5	<5	<5
420555088165501	04-12-84	90	<1	110	<3	<5	<5	<5
420555088165501	09-28-84	100	<1	110	<3	<5	<5	<5
420555088165501	11-07-84	100	<1	100	<3	<5	<5	<5
			Livingston County					
404415088305101	04-17-84	60	<1	60	<3	<5	<5	<5
404415088305101	08-09-84	70	<1	80	<3	9	<5	12
404415088305101	08-09-84	70	<1	90	<3	<5	<5	11
404415088305101	11-02-84	70	<1	90	<3	<5	<5	<5
			McHenry County					
422455088370901	04-25-84	50	<1	120	<3	<5	<5	<5
422455088370901	10-09-84	50	<1	110	<3	<5	<5	45
422455088370901	11-13-84	60	<1	110	<3	<5	<5	<5
			Madison County					
383929090012701	06-06-84	100	<1	90	<3	<5	<5	<5
383929090012701	10-18-84	200	<1	70	<3	10	<5	<5
383929090012701	11-29-84	100	<1	80	<3	<5	<5	<5
384740090022701	06-06-84	200	<1	60	<3	<5	<5	<5
384740090022701	10-17-84	300	<1	<50	6	15	<5	<5

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury total recoverable (µg/L as Mg)	Nickel, total recoverable (µg/L as Ni)	Selenium, total (µg/L as Se)
			Henderson County				
405512090573601	05-23-84	940	7	620	<0.1	5	<1
405512090573601	08-21-84	1,400	<5	590	<.1	<5	2
405512090573601	12-04-84	570	<5	520	<.1	<5	<1
			Henry County				
412832090082901	06-20-84	1,600	<5	110	<.1	11	<1
412832090082901	09-24-84	1,500	<5	99	<.1	9	<1
412832090082901	12-10-84	1,500	<5	100	<.1	<5	<1
			Kane County				
414529088264301	04-23-84	780	<5	120	<.1	<5	<1
414529088264301	09-12-84	650	<5	110	<.1	<5	<1
414529088264301	10-29-84	790	--	130	<.1	<5	<1
415635088182201	04-24-84	<50	<5	<5	<.1	<5	<1
415635088182201	09-12-84	<50	<5	<5	<.1	<5	<1
415635088182201	10-29-84	<50	--	<5	<.1	<5	<1
420555088165501	04-12-84	80	7	31	<.1	14	1
420555088165501	09-28-84	120	6	38	<.1	<5	<5
420555088165501	11-07-84	60	--	42	<.1	<5	<1
			Livingston County				
404415088305101	04-17-84	270	<5	520	<.1	<5	<1
404415088305101	08-09-84	290	<5	600	<.1	<5	<1
404415088305101	08-09-84	280	<5	590	<.1	<5	1
404415088305101	11-02-84	410	--	570	<.1	<5	<1
			McHenry County				
422455088370901	04-25-84	320	<5	160	<.1	<5	<1
422455088370901	10-09-84	260	<5	140	<.1	<5	<5
422455088370901	11-13-84	230	--	170	<.1	<5	<1
			Madison County				
383929090012701	06-06-84	1,400	<5	650	<.1	<5	2
383929090012701	10-18-84	2,000	--	770	<.1	<5	<1
383929090012701	11-29-84	1,600	<5	700	<.1	6	1
384740090022701	06-06-84	2,500	<5	390	<.1	7	2
384740090022701	10-17-84	2,400	12	400	<.1	6	1

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Silver, total recoverable (µg/L as Ag)	Strontium, total recoverable (µg/L as Sr)	Vanadium, total (µg/L as V)	Zinc, total recoverable (µg/L as Zn)	Cyanide total (mg/L as CN)	Phenols total (µg/L)
			Henderson County				
405512090573601	05-23-84	<3	90	<5	<50	<0.01	<5
405512090573601	08-21-84	<3	110	<5	<50	<.01	<5
405512090573601	12-04-84	<3	100	<5	<50	<.01	<5
			Henry County				
412832090082901	06-20-84	5	190	6	<50	<.01	<5
412832090082901	09-24-84	<3	170	<5	<50	<.01	<5
412832090082901	12-10-84	<3	160	<5	<50	<.01	<5
			Kane County				
414529088264301	04-23-84	<3	60	<5	<50	<.01	<5
414529088264301	09-12-84	<3	100	<5	<50	<.01	5
414529088264301	10-29-84	<3	130	<5	<50	<.01	<5
415635088182201	04-24-84	<3	70	<5	<50	<.01	<5
415635088182201	09-12-84	<3	110	<5	<50	<.01	5
415635088182201	10-29-84	<3	120	<5	<50	<.01	<5
420555088165501	04-12-84	<3	190	<5	<50	<.01	<5
420555088165501	09-28-84	<3	210	<5	<50	<.01	<5
420555088165501	11-07-84	<3	200	<5	<50	<.01	<5
			Livingston County				
404415088305101	04-17-84	<3	150	<5	<100	<.01	<5
404415088305101	08-09-84	<3	190	<5	<50	<.01	<5
404415088305101	08-09-84	<3	180	<5	<50	<.01	<5
404415088305101	11-02-84	<3	360	<5	<50	<.01	<5
			McHenry County				
422455088370901	04-25-84	<3	160	<5	<50	<.01	<5
422455088370901	10-09-84	<3	200	<5	<50	<.01	5
422455088370901	11-13-84	<3	210	<5	<50	<.01	<5
			Madison County				
383929090012701	06-06-84	<3	200	<5	<50	<.01	<5
383929090012701	10-18-84	<3	280	<5	<50	<.01	<5
383929090012701	11-29-84	<3	220	<5	<50	<.01	<5
384740090022701	06-06-84	<3	120	8	<50	<.01	<5
384740090022701	10-17-84	<3	140	<5	<50	<.01	<5

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Time	Station name	Agency collecting sample[1]	Agency analyzing sample[1]	Depth below land surface (water level) (feet)
			Madison County--Continued			
384740090022701	11-28-84	1545	Edwardsville Well No. 8	81700	17002	33.80
384822090034801	06-07-84	1615	Roxana Well No. 10	81700	17002	17.50
384822090034801	10-17-84	0915	Roxana Well No. 10	81700	17002	24.00
384822090034801	11-28-84	0925	Roxana Well No. 10	81700	17002	20.50
384955090055801	06-07-84	1440	Hartford Well No. 4	81700	17002	22.00
384955090055801	10-17-84	1550	Hartford Well No. 4	81700	17002	32.00
384955090055801	11-28-84	1415	Hartford Well No. 4	81700	17002	30.00
385117090063701	06-07-84	1225	Wood River Well No. 6	81700	17002	28.00
385117090063701	10-17-84	1400	Wood River Well No. 6	81700	17002	35.00
385117090063701	11-28-84	1155	Wood River Well No. 6	81700	17002	27.80
385117090063701	11-28-84	1200	Wood River Well No. 6	81700	17002	27.80
385205090044701	06-07-84	0945	Bethalto Well No. 12	81700	17002	52.50
385205090044701	10-17-84	1100	Bethalto Well No. 12	81700	17002	50.70
385205090044701	11-28-84	1025	Bethalto Well No. 12	81700	17002	50.90
			Mason County			
401215089414501	05-18-84	1200	Mason City Well No. 4	81700	17002	73.00
401215089414501	08-28-84	0910	Mason City Well No. 4	81700	17002	74.00
401215089414501	11-14-84	1405	Mason City Well No. 4	81700	17002	75.00
401351089503901	05-22-84	1140	Easton Well No. 2	81700	17002	37.00
401351089503901	08-28-84	1035	Easton Well No. 2	81700	17002	34.00
401351089503901	08-28-84	1045	Easton Well No. 2	81700	17002	--
401351089503901	11-14-84	0940	Easton Well No. 2	81700	17002	--
401754090032001	05-22-84	1410	Havana Well No. 5	81700	17002	29.50
401754090032001	08-27-84	1625	Havana Well No. 5	81700	17002	32.10
401754090032001	11-14-84	1130	Havana Well No. 5	81700	17002	33.10
401754090032001	11-14-84	1135	Havana Well No. 5	81700	17002	33.10
401811089361801	05-18-84	1015	San Jose Well No. 4	81700	17002	--
401811089361801	08-27-84	1310	San Jose Well No. 4	81700	17002	--
401811089361801	11-13-84	1245	San Jose Well No. 4	81700	17002	76.00
402530089464201	05-17-84	1630	Manito Well No. 3	81700	17002	22.50
402530089464201	08-27-84	1450	Manito Well No. 3	81700	17002	34.00
402530089464201	11-13-84	1520	Manito Well No. 3	81700	17002	39.20
			Massac County			
371951088431101	06-11-84	1455	Millstone PWD Well No. 1	81700	17002	18.30
371951088431101	10-09-84	1705	Millstone PWD Well No. 1	17002	17002	--
371951088431101	12-19-84	1630	Millstone PWD Well No. 1	81700	17002	--

[1] 17002 - Illinois Environmental Protection Agency
81700 - U.S. Geological Survey

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Pump or flow period prior to sampling (min)	Flow rate, instantaneous (gal/min)	Specific conductance (µS/cm)	pH (standard units)	Oxidation reduction potential (mV)	Temperature (deg C)	Calcium total recoverable (mg/L as Ca)
			Madison County--Continued					
384740090022701	11-28-84	285	1,000	505	7.3	--	14.0	66
384822090034801	06-07-84	435	490	650	7.0	-142	14.5	87
384822090034801	10-17-84	135	485	620	7.0	-116	13.5	84
384822090034801	11-28-84	140	400	610	6.7	--	13.5	88
384955090055801	06-07-84	280	429	760	6.9	-130	14.5	100
384955090055801	10-17-84	395	405	770	7.4	-88	14.0	100
384955090055801	11-28-84	390	405	765	7.0	--	13.5	100
385117090063701	06-07-84	265	667	660	7.1	-128	15.0	86
385117090063701	10-17-84	>70	790	730	--	-106	14.0	93
385117090063701	11-28-84	235	750	715	6.7	--	13.5	96
385117090063701	11-28-84	235	750	715	6.7	--	13.5	95
385205090044701	06-07-84	1,065	571	860	7.0	0	15.0	110
385205090044701	10-17-84	65	--	820	6.9	10	14.0	100
385205090044701	11-28-84	115	--	835	6.7	--	13.5	110
			Mason County					
401215089414501	05-18-84	150	225	490	7.5	-71	14.0	57
401215089414501	08-28-84	115	226	490	7.5	-60	13.5	58
401215089414501	11-14-84	215	225	485	6.8	--	13.5	61
401351089503901	05-22-84	100	175	530	7.7	-133	13.5	66
401351089503901	08-28-84	85	170	530	7.3	-99	13.5	63
401351089503901	08-28-84	--	170	530	7.3	-99	13.5	63
401351089503901	11-14-84	115	145	510	7.0	--	13.0	65
401754090032001	05-22-84	400	568	360	8.0	-104	14.5	46
401754090032001	08-27-84	--	582	370	7.5	-68	14.5	49
401754090032001	11-14-84	285	570	400	7.2	--	14.0	52
401754090032001	11-14-84	290	570	400	7.2	--	14.0	51
401811089361801	05-18-84	85	E140	530	7.5	-126	13.0	61
401811089361801	08-27-84	120	--	540	7.3	-99	13.0	63
401811089361801	11-13-84	117	140	520	7.3	-104	12.5	66
402530089464201	05-17-84	270	185	520	7.7	-120	13.5	58
402530089464201	08-27-84	65	341	500	7.6	-114	13.5	58
402530089464201	11-13-84	200	330	510	7.0	-105	13.0	59
			Massac County					
371951088431101	06-11-84	415	750	400	7.4	-158	15.5	57
371951088431101	10-09-84	665	E500	390	7.3	112	15.5	56
371951088431101	12-19-84	640	--	400	7.4	--	14.0	63

E Estimated.

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Magnesium, total recoverable (mg/L as Mg)	Sodium, total recoverable (mg/L as Na)	Potassium, total recoverable (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as (SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, total (mg/L as F)
			Madison County--Continued					
384740090022701	11-28-84	21	8.2	1.6	185	60	13	<0.1
384822090034801	06-07-84	21	15	2.1	247	78	13	<.1
384822090034801	10-17-84	23	16	2.3	236	74	16	<.1
384822090034801	11-28-84	21	13	2.2	229	82	14	<.1
384955090055801	06-07-84	26	26	4.6	332	42	32	.2
384955090055801	10-17-84	29	20	4.4	317	58	27	.2
384955090055801	11-28-84	27	18	4.4	320	57	31	.2
385117090063701	06-07-84	28	15	2.8	255	67	24	.1
385117090063701	10-17-84	32	15	2.8	285	73	22	.2
385117090063701	11-28-84	30	13	2.8	278	73	26	.2
385117090063701	11-28-84	30	13	2.8	283	72	27	.2
385205090044701	06-07-84	43	22	2.7	197	120	33	.1
385205090044701	10-17-84	39	24	2.7	293	110	45	.2
385205090044701	11-28-84	39	21	2.7	286	110	46	.2
			Mason County					
401215089414501	05-18-84	28	4.0	1.4	267	<10	1.3	.2
401215089414501	08-28-84	29	4.7	.7	266	<10	1.0	<.1
401215089414501	11-14-84	30	4.4	.7	260	10	1.3	.1
401351089503901	05-22-84	31	5.7	1.1	289	15	1.0	.1
401351089503901	08-28-84	31	5.3	1.2	275	32	1.4	.1
401351089503901	08-28-84	30	5.8	1.3	275	20	1.5	.1
401351089503901	11-14-84	31	5.5	1.2	278	22	1.0	.1
401754090032001	05-22-84	16	3.5	.6	143	40	3.4	<.1
401754090032001	08-27-84	18	5.7	.9	159	38	11	<.1
401754090032001	11-14-84	18	6.2	1.0	150	40	10	<.1
401754090032001	11-14-84	18	6.1	1.0	149	42	10	<.1
401811089361801	05-18-84	31	4.4	1.4	263	33	1.5	.2
401811089361801	08-27-84	32	4.9	.6	279	27	<1.0	.2
401811089361801	11-13-84	33	4.8	.7	272	32	1.0	.2
402530089464201	05-17-84	24	14	2.1	200	53	19	.1
402530089464201	08-27-84	25	14	1.3	198	53	16	<.1
402530089464201	11-13-84	24	13	1.4	196	53	15	<.1
			Massac County					
371951088431101	06-11-84	12	8.4	1.0	197	15	2.1	.2
371951088431101	10-09-84	14	7.8	1.0	202	10	3.5	.2
371951088431101	12-19-84	13	8.0	1.1	194	<10	3.9	.2

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 deg. C dissolved (mg/L)	Nitrogen, NO_2+NO_3 total (mg/L as N)	Nitrogen, ammonia total (mg/L as N)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic total (µg/L as As)
			Madison County--Continued					
384740090022701	11-28-84	30	352	2.30	<0.10	0.21	<50	3
384822090034801	06-07-84	33	438	.10	<.10	.31	<50	3
384822090034801	10-17-84	30	409	.11	.17	.27	70	<1
384822090034801	11-28-84	32	415	<.10	<.10	.36	<50	2
384955090055801	06-07-84	27	456	<.10	.32	.33	<50	<1
384955090055801	10-17-84	27	486	.10	.43	.31	60	3
384955090055801	11-28-84	30	501	<.10	.48	.34	<50	1
385117090063701	06-07-84	21	432	.68	.24	.13	<50	1
385117090063701	10-17-84	24	448	.15	.31	.13	60	<1
385117090063701	11-28-84	25	456	<.10	.20	.15	<50	2
385117090063701	11-28-84	26	472	<.10	.30	.15	<50	2
385205090044701	06-07-84	19	628	.59	<.10	.03	<50	<1
385205090044701	10-17-84	20	573	.98	<.10	.03	<50	3
385205090044701	11-28-84	22	582	.92	.17	.04	<50	1
			Mason County					
401215089414501	05-18-84	24	278	.69	.35	.07	<50	22
401215089414501	08-28-84	22	362	.65	.28	.10	<50	16
401215089414501	11-14-84	21	295	.65	.23	.16	<50	17
401351089503901	05-22-84	19	326	.06	.03	.03	40	8
401351089503901	08-28-84	20	326	<.10	<.10	.02	<50	5
401351089503901	08-28-84	20	299	<.10	<.10	.02	90	4
401351089503901	11-14-84	20	316	.22	<.10	.02	<50	5
401754090032001	05-22-84	10	227	.70	.04	.02	<50	1
401754090032001	08-27-84	12	254	1.90	<.10	.03	<50	2
401754090032001	11-14-84	11	269	2.00	<.10	.03	<50	1
401754090032001	11-14-84	11	285	2.00	<.10	.02	<50	1
401811089361801	05-18-84	20	312	<.10	.26	.06	240	13
401811089361801	08-27-84	21	292	<.10	.11	.06	<50	13
401811089361801	11-13-84	20	329	<.10	.10	.06	<50	12
402530089464201	05-17-84	14	360	.17	.17	.04	<50	4
402530089464201	08-27-84	14	315	.26	<.10	.02	<50	4
402530089464201	11-13-84	14	329	.21	<.10	.02	<50	3
			Massac County					
371951088431101	06-11-84	15	216	<.10	.33	.18	<50	15
371951088431101	10-09-84	15	226	<.10	.27	.21	<50	10
371951088431101	12-19-84	15	260	<.10	.50	.21	60	17

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Barium, total recoverable (µg/L as Ba)	Beryllium, total recoverable (µg/L as Be)	Boron, total recoverable (µg/L as B)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
			Madison County--Continued					
384740090022701	11-28-84	200	<1	<50	<3	<5	<5	<5
384822090034801	06-07-84	400	<1	<50	<3	<5	<5	<5
384822090034801	10-17-84	500	<2	<50	6	9	<5	<5
384822090034801	11-28-84	400	<1	<50	<3	<5	<5	<5
384955090055801	06-07-84	500	<1	80	<3	<5	<5	<5
384955090055801	10-17-84	500	<2	80	<3	<5	<5	<5
384955090055801	11-28-84	500	<1	60	8	<5	<5	<5
385117090063701	06-07-84	300	<1	80	<3	<5	7	11
385117090063701	10-17-84	300	<2	70	<3	<5	<5	<5
385117090063701	11-28-84	300	<1	70	<3	<5	<5	6
385117090063701	11-28-84	300	<1	60	<3	<5	<5	<5
385205090044701	06-07-84	100	<1	70	<3	<5	7	6
385205090044701	10-17-84	100	<1	60	<3	<5	<5	<5
385205090044701	11-28-84	100	<1	60	<3	<5	<5	<5
			Mason County					
401215089414501	05-18-84	10	<1	<50	<3	<5	<5	<5
401215089414501	08-28-84	10	<1	<50	3	<5	<5	<5
401215089414501	11-14-84	10	<1	<50	<3	6	<5	<5
401351089503901	05-22-84	50	<1	<50	<3	<5	6	6
401351089503901	08-28-84	60	<1	<50	5	<5	<5	<5
401351089503901	08-28-84	50	<1	<50	<3	<5	<5	<5
401351089503901	11-14-84	50	<1	<50	<3	<5	<5	<5
401754090032001	05-22-84	20	<1	<50	<3	<5	<5	<5
401754090032001	08-27-84	30	<1	<50	<3	<5	<5	<5
401754090032001	11-14-84	30	<1	<50	<3	<5	<5	<5
401754090032001	11-14-84	30	<1	<50	<3	6	<5	<5
401811089361801	05-18-84	40	<1	<50	<3	<5	<5	7
401811089361801	08-27-84	40	<1	<50	5	<5	6	<5
401811089361801	11-13-84	40	<1	<50	<3	<5	<5	<5
402530089464201	05-17-84	90	<1	<50	<3	<5	<5	16
402530089464201	08-27-84	100	<1	<50	<3	<5	<5	<5
402530089464201	11-13-84	100	<1	<50	<3	<5	<5	<5
			Massac County					
371951088431101	06-11-84	200	<1	<50	<3	<5	<5	<5
371951088431101	10-09-84	200	<1	<50	<3	<5	<5	<5
371951088431101	12-19-84	200	<1	<50	<3	<5	<5	<5

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury total recoverable (µg/L as Mg)	Nickel, total recoverable (µg/L as Ni)	Selenium, total (µg/L as Se)
			Madison County--Continued				
384740090022701	11-28-84	2,400	<5	400	<0.1	<5	2
384822090034801	06-07-84	9,100	<5	1,200	<.1	<5	<1
384822090034801	10-17-84	7,900	--	1,000	<.1	<5	<1
384822090034801	11-28-84	9,300	<5	1,200	.2	<5	<1
384955090055801	06-07-84	8,200	<5	470	<.1	<5	<1
384955090055801	10-17-84	8,400	--	500	<.1	<5	<1
384955090055801	11-28-84	8,500	<5	490	.1	7	1
385117090063701	06-07-84	7,200	<5	690	<.1	9	<1
385117090063701	10-17-84	7,800	--	760	<.1	<5	<1
385117090063701	11-28-84	7,900	<5	790	.1	7	<1
385117090063701	11-28-84	7,900	<5	780	.5	7	1
385205090044701	06-07-84	270	5	670	<.1	10	2
385205090044701	10-17-84	170	--	590	<.1	<5	2
385205090044701	11-28-84	110	6	620	.2	<5	3
			Mason County				
401215089414501	05-18-84	280	<5	220	<.1	<5	<1
401215089414501	08-28-84	340	<5	240	<.1	9	<1
401215089414501	11-14-84	290	--	240	<.1	10	<1
401351089503901	05-22-84	1,300	<5	190	<.1	10	<1
401351089503901	08-28-84	1,400	<5	180	<.1	10	1
401351089503901	08-28-84	1,500	<5	180	<.1	<5	<1
401351089503901	11-14-84	1,300	--	180	<.1	<5	<1
401754090032001	05-22-84	180	5	160	<.1	7	<1
401754090032001	08-27-84	280	<5	150	<.1	<5	1
401754090032001	11-14-84	200	--	160	<.1	9	<1
401754090032001	11-14-84	200	--	160	<.1	7	<1
401811089361801	05-18-84	2,400	<5	78	<.1	<5	<1
401811089361801	08-27-84	2,400	10	81	<.1	19	<1
401811089361801	11-13-84	2,600	--	83	<.1	6	<1
402530089464201	05-17-84	610	5	170	<.1	<5	<1
402530089464201	08-27-84	710	<5	180	<.1	<5	<1
402530089464201	11-13-84	600	--	180	<.1	8	<1
			Massac County				
371951088431101	06-11-84	3,000	<5	180	<.1	<5	<1
371951088431101	10-09-84	3,000	5	170	<.1	<5	<5
371951088431101	12-19-84	3,200	<5	190	.1	<5	<1

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Silver, total recoverable (µg/L as Ag)	Strontium, total recoverable (µg/L as Sr)	Vanadium, total (µg/L as V)	Zinc, total recoverable (µg/L as Zn)	Cyanide total (mg/L as CN)	Phenols total (µg/L)
			Madison County--Continued				
384740090022701	11-28-84	<3	120	<5	<50	<0.01	<5
384822090034801	06-07-84	<3	150	<5	<50	<.01	<5
384822090034801	10-17-84	<3	170	<5	<50	<.01	<5
384822090034801	11-28-84	<3	150	<5	<50	<.01	<5
384955090055801	06-07-84	<3	250	<5	<50	<.01	<5
384955090055801	10-17-84	<3	310	<5	<50	<.01	<5
384955090055801	11-28-84	<3	270	<5	<50	<.01	<5
385117090063701	06-07-84	4	180	7	<50	<.01	<5
385117090063701	10-17-84	<3	240	<5	<50	<.01	<5
385117090063701	11-28-84	<3	200	<5	<50	<.01	<5
385117090063701	11-28-84	<3	200	<5	<50	<.01	<5
385205090044701	06-07-84	4	190	8	<50	<.01	<5
385205090044701	10-17-84	<3	220	<5	<50	<.01	<5
385205090044701	11-28-84	<3	190	<5	<50	<.01	<5
			Mason County				
401215089414501	05-18-84	<3	80	<5	<50	<.01	<5
401215089414501	08-28-84	<3	100	<5	<50	<.01	<5
401215089414501	11-14-84	4	90	<5	<50	<.01	<5
401351089503901	05-22-84	4	70	6	<50	<.01	<5
401351089503901	08-28-84	<3	80	<5	<50	<.01	<5
401351089503901	08-28-84	<3	80	<5	<50	<.01	<5
401351089503901	11-14-84	<3	80	<5	<50	<.01	<5
401754090032001	05-22-84	<3	50	<5	<50	<.01	<5
401754090032001	08-27-84	<3	80	<5	<50	<.01	<5
401754090032001	11-14-84	<3	80	<5	<50	<.01	<5
401754090032001	11-14-84	4	80	<5	<50	<.01	<5
401811089361801	05-18-84	<3	80	<5	<50	<.01	<5
401811089361801	08-27-84	<3	100	<5	<50	<.01	<5
401811089361801	11-13-84	<3	90	<5	<50	<.01	<5
402530089464201	05-17-84	<3	70	<5	<50	<.01	<5
402530089464201	08-27-84	<3	80	<5	<50	<.01	<5
402530089464201	11-13-84	<3	70	<5	<50	<.01	<5
			Massac County				
371951088431101	06-11-84	<3	160	<5	<50	<.01	<5
371951088431101	10-09-84	<3	170	<5	<50	<.01	<5
371951088431101	12-19-84	<3	160	<5	<50	<.01	<5

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Time	Station name	Agency collecting sample[1]	Agency analyzing sample[1]	Depth below land surface (water level) (feet)
			Monroe County			
381749090185301	06-06-84	1030	Valmeyer Well No. 4	81700	17002	18.30
381749090185301	10-18-84	0950	Valmeyer Well No. 4	81700	17002	18.60
381749090185301	10-18-84	1000	Valmeyer Well No. 4	81700	17002	18.60
381749090185301	11-29-84	0945	Valmeyer Well No. 4	81700	17002	17.40
			Morgan County			
394957090331501	05-24-84	1140	Meredosia Well No. 4	81700	17002	24.00
394957090331501	08-22-84	1220	Meredosia Well No. 4	81700	17002	27.80
394957090331501	12-05-84	1000	Meredosia Well No. 4	81700	17002	31.00
			Peoria County			
404009089371401	05-10-84	1100	Peoria Dodge St. Well No. 4	81700	17002	47.00
404009089371401	08-20-84	1555	Peoria Dodge St. Well No. 4	81700	17002	47.00
404009089371401	12-03-84	1640	Peoria Dodge St. Well No. 4	81700	17002	46.00
404528089335801	05-11-84	0945	Peoria Heights Well No. 11	81700	17002	72.20
404528089335801	08-21-84	0900	Peoria Heights Well No. 11	81700	17002	74.00
404528089335801	12-03-84	1510	Peoria Heights Well No. 11	81700	17002	73.00
405536089300401	05-10-84	1400	Chillicothe Well No. 7	81700	17002	60.80
405536089300401	08-21-84	1025	Chillicothe Well No. 7	81700	17002	60.80
405536089300401	08-21-84	1030	Chillicothe Well No. 7	81700	17002	60.80
405536089300401	12-04-84	0915	Chillicothe Well No. 7	81700	17002	--
			Pulaski County			
371250089133401	06-12-84	1055	Pulaski Well No. 1A	81700	17002	--
371250089133401	10-09-84	1240	Pulaski Well No. 1A	17002	17002	--
371637089105401	06-12-84	1250	Ullin Well No. 1	81700	17002	19.30
371637089105401	10-09-84	1105	Ullin Well No. 1	81700	17002	--
371637089105401	12-19-84	1100	Ullin Well No. 1	81700	17002	--
			Scott County			
394600090360501	05-24-84	1355	Jacksonville Well No. 2	81700	17002	27.50
394600090360501	08-22-84	1420	Jacksonville Well No. 2	81700	17002	35.00
394600090360501	12-05-84	1125	Jacksonville Well No. 2	81700	17002	37.00
			Stephenson County			
421826089374301	06-14-84	0830	Freeport Well No. 7	81700	17002	35.00
421826089374301	09-25-84	1545	Freeport Well No. 7	81700	17002	41.50
421826089374301	12-11-84	1500	Freeport Well No. 7	81700	17002	33.50

[1] 17002 - Illinois Environmental Protection Agency
81700 - U.S. Geological Survey

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Pump or flow period prior to sampling (min)	Flow rate, instantaneous (gal/min)	Specific conductance (µS/cm)	pH (standard units)	Oxidation reduction potential (mV)	Temperature (deg C)	Calcium total recoverable (mg/L as Ca)
			Monroe County					
381749090185301	06-06-84	60	470	720	7.1	-130	16.5	95
381749090185301	10-18-84	170	460	700	7.1	-88	15.0	90
381749090185301	10-18-84	180	460	700	7.1	-88	15.0	91
381749090185301	11-29-84	155	460	705	7.0	--	14.5	97
			Morgan County					
394957090331501	05-24-84	90	190	590	7.5	-34	14.5	68
394957090331501	08-22-84	225	195	570	7.4	-61	14.0	67
394957090331501	12-05-84	100	178	625	7.3	--	14.0	73
			Peoria County					
404009089371401	05-10-84	--	3,480	1,230	7.2	445	14.0	150
404009089371401	08-20-84	1,555	2,850	1,160	7.1	584	14.0	140
404009089371401	12-03-84	10,360	3,190	1,150	7.0	--	13.5	140
404528089335801	05-11-84	105	712	960	7.0	28	12.5	110
404528089335801	08-21-84	150	527	970	7.3	41	12.5	110
404528089335801	12-03-84	190	667	955	7.0	--	12.0	100
405536089300401	05-10-84	100	200	520	7.6	167	15.0	55
405536089300401	08-21-84	205	178	500	7.4	117	16.5	54
405536089300401	08-21-84	210	178	500	7.4	117	16.5	54
405536089300401	12-04-84	115	235	505	7.3	--	14.0	53
			Pulaski County					
371250089133401	06-12-84	65	125	750	6.9	-125	15.0	100
371250089133401	10-09-84	--	--	790	6.9	-9	15.5	99
371637089105401	06-12-84	65	180	490	7.1	-137	14.5	71
371637089105401	10-09-84	65	E185	480	7.1	--	15.0	69
371637089105401	12-19-84	--	E180	480	7.1	--	14.5	75
			Scott County					
394600090360501	05-24-84	28,800	1,200	660	7.2	-81	12.5	81
394600090360501	08-22-84	157,800	1,200	620	7.1	-78	14.5	81
394600090360501	12-05-84	49,000	1,130	635	7.2	--	13.5	79
			Stephenson County					
421826089374301	06-14-84	--	2,200	985	6.9	--	11.5	110
421826089374301	09-25-84	105	2,000	800	6.8	-42	11.5	110
421826089374301	12-11-84	300	2,040	890	6.8	-70	11.0	120

E Estimated.

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Magnesium, total recoverable (mg/L as Mg)	Sodium, total recoverable (mg/L as Na)	Potassium, total recoverable (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as (SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, total (mg/L as F)
			Monroe County					
381749090185301	06-06-84	21	23	5.3	304	47	28	0.3
381749090185301	10-18-84	23	26	5.4	295	47	29	.2
381749090185301	10-18-84	23	27	5.4	294	46	29	.2
381749090185301	11-29-84	21	23	5.4	287	44	29	.3
			Morgan County					
394957090331501	05-24-84	29	14	4.1	225	59	18	.2
394957090331501	08-22-84	29	14	4.5	227	53	19	.1
394957090331501	12-05-84	31	14	5.5	--	53	24	.1
			Peoria County					
404009089371401	05-10-84	57	41	4.9	366	190	86	.8
404009089371401	08-20-84	56	44	4.6	467	190	62	.9
404009089371401	12-03-84	55	36	4.4	--	190	56	.9
404528089335801	05-11-84	51	31	3.4	417	91	34	.3
404528089335801	08-21-84	51	44	3.4	467	65	45	.3
404528089335801	12-03-84	47	37	3.0	--	61	47	.3
405536089300401	05-10-84	32	7.3	2.0	200	54	14	.3
405536089300401	08-21-84	32	9.6	1.7	210	53	14	.1
405536089300401	08-21-84	32	9.4	1.7	204	52	14	.1
405536089300401	12-04-84	31	8.6	1.7	--	53	16	.3
			Pulaski County					
371250089133401	06-12-84	34	17	2.2	359	61	7.8	.2
371250089133401	10-09-84	35	16	2.3	351	62	8.0	.2
371637089105401	06-12-84	19	10	1.2	261	16	4.5	.2
371637089105401	10-09-84	21	9.9	1.2	254	10	3.0	.2
371637089105401	12-19-84	20	9.4	1.3	237	<10	4.6	.2
			Scott County					
394600090360501	05-24-84	30	14	1.7	275	47	22	.2
394600090360501	08-22-84	30	15	2.1	266	54	27	.2
394600090360501	12-05-84	28	14	2.0	--	55	28	.2
			Stephenson County					
421826089374301	06-14-84	47	23	3.0	365	85	53	.1
421826089374301	09-25-84	47	23	3.1	364	83	52	<.1
421826089374301	12-11-84	50	20	3.0	359	80	57	.2

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 deg. C dissolved (mg/L)	Nitrogen, NO_2+NO_3 total (mg/L as N)	Nitrogen, ammonia total (mg/L as N)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic total (µg/L as As)
			Monroe County					
381749090185301	06-06-84	26	443	0.44	0.40	0.30	<50	1
381749090185301	10-18-84	26	438	.44	.37	.28	<50	3
381749090185301	10-18-84	26	451	.39	.38	.29	<50	2
381749090185301	11-29-84	29	456	.39	.34	.29	<50	1
			Morgan County					
394957090331501	05-24-84	14	375	3.00	<.10	.03	<50	<1
394957090331501	08-22-84	14	443	3.80	.07	.03	<50	<1
394957090331501	12-05-84	15	439	3.20	.35	.04	<50	<1
			Peoria County					
404009089371401	05-10-84	21	828	5.50	<.10	.01	<5	<1
404009089371401	08-20-84	20	1,140	6.10	<.10	<.01	<50	<1
404009089371401	12-03-84	21	845	5.80	.12	<.01	<50	<1
404528089335801	05-11-84	20	567	.72	<.10	.01	<50	<1
404528089335801	08-21-84	19	719	1.00	<.10	.01	<50	<1
404528089335801	12-03-84	20	606	.99	.14	<.01	<50	<1
405536089300401	05-10-84	12	329	1.50	.18	.02	<50	<1
405536089300401	08-21-84	12	437	2.00	.02	.01	<50	<1
405536089300401	08-21-84	12	468	2.00	.15	.02	<50	<1
405536089300401	12-04-84	12	318	1.50	.33	.01	<50	<1
			Pulaski County					
371250089133401	06-12-84	29	471	<.10	1.70	.78	<50	27
371250089133401	10-09-84	29	484	<.10	1.80	.84	<50	20
371637089105401	06-12-84	17	283	<.10	.47	.33	<50	22
371637089105401	10-09-84	17	291	.11	.48	.34	<50	20
371637089105401	12-19-84	17	310	<.10	.57	.35	<50	27
			Scott County					
394600090360501	05-24-84	17	401	.34	.11	.07	<50	6
394600090360501	08-22-84	17	577	.91	.21	.06	<50	6
394600090360501	12-05-84	17	421	.48	<.10	.06	<50	5
			Stephenson County					
421826089374301	06-14-84	13	640	<.10	.39	.02	<50	2
421826089374301	09-25-84	13	633	<.10	.39	.03	70	1
421826089374301	12-11-84	13	658	<.10	.57	.02	<50	2

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Barium, total recoverable (µg/L as Ba)	Beryllium, total recoverable (µg/L as Be)	Boron, total recoverable (µg/L as B)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
			Monroe County					
381749090185301	06-06-84	400	<1	150	<3	<5	<5	<5
381749090185301	10-18-84	500	<1	150	<3	<5	<5	<5
381749090185301	10-18-84	500	<1	150	<3	<5	<5	<5
381749090185301	11-29-84	400	<1	150	<3	<5	<5	<5
			Morgan County					
394957090331501	05-24-84	60	<1	60	<3	<5	<5	<5
394957090331501	08-22-84	70	<1	70	<3	<5	<5	<5
394957090331501	12-05-84	70	<1	60	<3	<5	<5	<5
			Peoria County					
404009089371401	05-10-84	80	<1	380	<3	<5	<5	<5
404009089371401	08-20-84	90	<1	390	<3	10	<5	<5
404009089371401	12-03-84	80	<1	340	<3	<5	<5	<5
404528089335801	05-11-84	200	<1	250	<3	<5	<5	<5
404528089335801	08-21-84	200	<1	260	<3	14	<5	<5
404528089335801	12-03-84	200	2	210	<3	<5	<5	<5
405536089300401	05-10-84	40	<1	250	<3	<5	<5	6
405536089300401	08-21-84	50	<1	270	<3	<5	<5	<5
405536089300401	08-21-84	50	<1	270	<3	6	<5	<5
405536089300401	12-04-84	50	<1	230	<3	<5	<5	16
			Pulaski County					
371250089133401	06-12-84	400	<2	90	8	<5	<5	<5
371250089133401	10-09-84	400	<1	<50	5	<5	<5	<5
371637089105401	06-12-84	300	1	<50	<3	<5	<5	<5
371637089105401	10-09-84	300	<1	<50	<3	<5	<5	<5
371637089105401	12-19-84	300	<1	<50	<3	<5	<5	<5
			Scott County					
394600090360501	05-24-84	100	<1	<50	<3	<5	<5	<5
394600090360501	08-22-84	100	<1	60	<3	<5	<5	<5
394600090360501	12-05-84	100	<1	<50	<3	<5	<5	<5
			Stephenson County					
421826089374301	06-14-84	100	<1	120	<3	9	<5	<5
421826089374301	09-25-84	100	<1	100	5	10	9	<5
421826089374301	12-11-84	100	<1	80	<3	<5	<5	9

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury total recoverable (µg/L as Mg)	Nickel, total recoverable (µg/L as Ni)	Selenium, total (µg/L as Se)
			Monroe County				
381749090185301	06-06-84	6,100	<5	520	<0.1	5	<1
381749090185301	10-18-84	5,800	--	500	<.1	<5	<1
381749090185301	10-18-84	5,800	--	510	<.1	<5	<1
381749090185301	11-29-84	5,900	<5	520	<.1	6	<1
			Morgan County				
394957090331501	05-24-84	410	<5	270	<.1	6	2
394957090331501	08-22-84	440	<5	290	<.1	<5	3
394957090331501	12-05-84	420	<5	300	<.1	7	1
			Peoria County				
404009089371401	05-10-84	<50	<5	<5	<.1	<5	2
404009089371401	08-20-84	<50	<5	<5	<.1	<5	2
404009089371401	12-03-84	7,800	<5	<5	<.1	<5	1
404528089335801	05-11-84	190	<5	160	<.1	<5	<1
404528089335801	08-21-84	170	<5	150	<.1	<5	1
404528089335801	12-03-84	110	<5	120	<.1	<5	<1
405536089300401	05-10-84	<50	<5	<5	<.1	6	<1
405536089300401	08-21-84	<50	<5	<5	<.1	<5	<1
405536089300401	08-21-84	<50	5	<5	<.1	<5	<1
405536089300401	12-04-84	<50	<5	15	.2	<5	<1
			Pulaski County				
371250089133401	06-12-84	11,000	<5	130	<.1	<5	<1
371250089133401	10-09-84	11,000	5	130	<.1	<5	<5
371637089105401	06-12-84	4,800	<5	170	<.1	<5	<1
371637089105401	10-09-84	4,800	<5	160	<.1	<5	<5
371637089105401	12-19-84	5,100	<5	170	<.1	<5	<1
			Scott County				
394600090360501	05-24-84	3,500	<5	350	<.1	<5	<1
394600090360501	08-22-84	3,700	<5	360	<.1	<5	<1
394600090360501	12-05-84	3,500	<5	340	.1	<5	<1
			Stephenson County				
421826089374301	06-14-84	3,300	<5	550	<.1	<5	<1
421826089374301	09-25-84	3,200	<5	560	<.1	17	<1
421826089374301	12-11-84	3,400	<5	590	<.1	<5	<1

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Silver, total recoverable (µg/L as Ag)	Strontium, total recoverable (µg/L as Sr)	Vanadium, total (µg/L as V)	Zinc, total recoverable (µg/L as Zn)	Cyanide total (mg/L as CN)	Phenols total (µg/L)
			Monroe County				
381749090185301	06-06-84	<3	290	<5	<50	<0.01	<5
381749090185301	10-18-84	<3	320	<5	<50	<.01	<5
381749090185301	10-18-84	<3	330	<5	<50	<.01	<5
381749090185301	11-29-84	<3	290	<5	<50	<.01	<5
			Morgan County				
394957090331501	05-24-84	<3	110	7	<50	<.01	<5
394957090331501	08-22-84	<3	140	<5	<50	<.01	<5
394957090331501	12-05-84	<3	130	<5	<50	<.01	<5
			Peoria County				
404009089371401	05-10-84	<3	190	<5	<50	<.01	<5
404009089371401	08-20-84	<3	230	<5	<50	<.01	<5
404009089371401	12-03-84	<3	190	<5	<50	<.01	<5
404528089335801	05-11-84	<3	260	<5	<50	<.01	<5
404528089335801	08-21-84	<3	300	<5	<50	<.01	<5
404528089335801	12-03-84	<3	260	<5	<50	<.01	<5
405536089300401	05-10-84	4	80	<5	<50	<.01	<5
405536089300401	08-21-84	<5	90	<5	<50	<.01	<5
405536089300401	08-21-84	<3	90	<5	<50	<.01	<5
405536089300401	12-04-84	<3	80	<5	<50	<.01	<5
			Pulaski County				
371250089133401	06-12-84	<3	410	<5	<50	<.01	<5
371250089133401	10-09-84	<3	440	<5	<50	<.01	<5
371637089105401	06-12-84	<5	320	<5	<50	<.01	<5
371637089105401	10-09-84	<3	340	<5	<50	<.01	<5
371637089105401	12-19-84	<3	310	<5	<50	<.01	<5
			Scott County				
394600090360501	05-24-84	<3	120	<5	<50	<.01	<5
394600090360501	08-22-84	<3	140	<5	<50	<.01	<5
394600090360501	12-05-84	<3	120	<5	<50	<.01	<5
			Stephenson County				
421826089374301	06-14-84	<3	120	<5	<50	<.01	<5
421826089374301	09-25-84	<3	100	<5	<50	<.01	<5
421826089374301	12-11-84	<3	110	<5	<50	<.01	<5

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Time	Station name	Agency collecting sample[1]	Agency analyzing sample[1]	Depth below land surface (water level) (feet)
			Union County			
372540089213401	06-12-84	1815	Anna-Jonesboro PWD Well No. 3	17002	17002	46.20
372540089213401	10-09-84	0920	Anna-Jonesboro PWD Well No. 3	17002	17002	67.00
372540089213401	12-19-84	0900	Anna-Jonesboro PWD Well No. 3	81700	17002	--
			White County			
380530088035301	06-13-84	1210	Carmi Well No. 4	81700	17002	25.90
380530088035301	10-10-84	1555	Carmi Well No. 4	17002	17002	20.00
380530088035301	12-20-84	1530	Carmi Well No. 4	81700	17002	--
			Whiteside County			
414540089415701	06-14-84	1200	Rock Falls Well No. 4	81700	17002	20.00
414540089415701	09-25-84	0915	Rock Falls Well No. 4	81700	17002	20.08
414540089415701	12-11-84	0915	Rock Falls Well No. 4	81700	17002	26.70
414617090141501	06-20-84	1150	Albany Well No. 2	81700	17002	23.80
414617090141501	09-25-84	1125	Albany Well No. 2	81700	17002	23.30
414617090141501	12-11-84	1100	Albany Well No. 2	81700	17002	25.60
			Winnebago County			
421212089062501	06-13-84	0910	Rockford Well No. 28	81700	17002	--
421212089062501	09-26-84	1350	Rockford Well No. 28	81700	17002	53.00
421212089062501	12-12-84	1025	Rockford Well No. 28	81700	17002	48.00
421535089050301	06-13-84	1045	Rockford Well No. 11	81700	17002	85.00
421535089050301	09-26-84	1525	Rockford Well No. 11	81700	17002	72.00
421535089050301	12-12-84	0910	Rockford Well No. 11	81700	17002	88.00

[1] 17002 - Illinois Environmental Protection Agency
81700 - U.S. Geological Survey

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Pump or flow period prior to sampling (min)	Flow rate, instantaneous (gal/min)	Specific conductance (µS/cm)	pH (standard units)	Oxidation reduction potential (mV)	Temperature (deg C)	Calcium total recoverable (mg/L as Ca)
			Union County					
372540089213401	06-12-84	540	650	530	6.7	-127	15.0	66
372540089213401	10-09-84	265	E625	530	6.9	--	15.0	67
372540089213401	12-19-84	180	E675	515	6.8	--	13.5	74
			White County					
380530088035301	06-13-84	220	--	390	7.4	-94	15.0	--
380530088035301	10-10-84	95	E500	410	7.3	-54	15.5	58
380530088035301	12-20-84	125	E550	405	7.3	--	14.0	63
			Whiteside County					
414540089415701	06-14-84	240	1,150	610	7.2	--	12.5	71
414540089415701	09-25-84	120	1,140	560	7.6	-131	12.0	68
414540089415701	12-11-84	135	1,140	540	7.4	-154	11.5	67
414617090141501	06-20-84	70	120	560	7.2	92	12.0	71
414617090141501	09-25-84	35	118	550	7.2	37	11.5	68
414617090141501	12-11-84	27	103	550	7.2	33	11.0	74
			Winnebago County					
421212089062501	06-13-84	45	3,100	575	7.0	--	12.0	64
421212089062501	09-26-84	55	1,630	530	7.1	-45	11.5	66
421212089062501	12-12-84	4,300	3,810	560	7.2	-62	11.0	67
421535089050301	06-13-84	--	2,600	995	7.0	--	13.5	110
421535089050301	09-26-84	60	E3,360	890	7.0	15	12.0	110
421535089050301	12-12-84	310	2,140	940	7.1	13	11.5	120

E Estimated.

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Magnesium, total recoverable (mg/L as Mg)	Sodium, total recoverable (mg/L as Na)	Potassium, total recoverable (mg/L as K)	Alkalinity lab (mg/L as $CaCO_3$)	Sulfate dissolved (mg/L as (SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, total (mg/L as F)
			Union County					
372540089213401	06-12-84	18	7.5	1.6	271	16	2.6	0.3
372540089213401	10-09-84	20	7.2	1.6	259	12	1.5	.3
372540089213401	12-19-84	20	6.8	1.8	241	10	2.8	.3
			White County					
380530088035301	06-13-84	--	--	--	166	46	3.8	.2
380530088035301	10-10-84	15	3.8	1.2	164	50	3.5	.1
380530088035301	12-20-84	16	3.7	1.2	160	47	4.1	.1
			Whiteside County					
414540089415701	06-14-84	29	10	1.0	256	36	20	<.1
414540089415701	09-25-84	28	10	1.0	259	25	18	<.1
414540089415701	12-11-84	28	8.6	1.0	255	29	19	.2
414617090141501	06-20-84	33	5.7	1.4	263	32	5.7	.1
414617090141501	09-25-84	31	5.4	1.3	277	32	7.0	.1
414617090141501	12-11-84	33	<5.0	1.5	271	33	7.0	.2
			Winnebago County					
421212089062501	06-13-84	34	5.1	2.1	304	23	1.3	.2
421212089062501	09-26-84	34	4.8	2.0	287	22	2.5	.2
421212089062501	12-12-84	34	4.3	2.0	300	22	3.2	.3
421535089050301	06-13-84	50	26	2.9	340	88	64	.1
421535089050301	09-26-84	50	26	2.9	331	90	68	.1
421535089050301	12-12-84	53	25	3.1	339	83	69	.2

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Silica, dissolved (mg/L as SiO_2)	Solids, residue at 180 deg. C dissolved (mg/L)	Nitrogen, NO_2+NO_3 total (mg/L as N)	Nitrogen, ammonia total (mg/L as N)	Phosphorus, total (mg/L as P)	Aluminum, total recoverable (µg/L as Al)	Arsenic total (µg/L as As)
			Union County					
372540089213401	06-12-84	30	338	<0.10	0.19	0.74	50	8
372540089213401	10-09-84	29	319	.13	.11	.68	<50	8
372540089213401	12-19-84	31	314	<.10	.32	.71	<50	6
			White County					
380530088035301	06-13-84	11	283	.52	<.10	.02	--	3
380530088035301	10-10-84	10	305	.58	<.10	.03	<50	--
380530088035301	12-20-84	11	282	.57	<.10	.02	<50	1
			Whiteside County					
414540089415701	06-14-84	17	354	<.10	.74	.17	<50	17
414540089415701	09-25-84	16	386	<.10	.85	.17	<50	16
414540089415701	12-11-84	17	385	<.10	.79	.19	<50	17
414617090141501	06-20-84	26	355	2.40	<.10	.11	50	2
414617090141501	09-25-84	25	367	2.50	<.10	.09	<50	1
414617090141501	12-11-84	26	390	2.40	.36	.09	<50	<1
			Winnebago County					
421212089062501	06-13-84	10	327	<.10	<.10	<.01	<50	4
421212089062501	09-26-84	12	335	<.10	.14	<.01	<50	4
421212089062501	12-12-84	12	344	<.10	.13	--	<50	4
421535089050301	06-13-84	15	651	2.40	<.10	.02	<50	<1
421535089050301	09-26-84	15	703	2.30	<.10	<.01	<50	<1
421535089050301	12-12-84	16	688	2.20	<.10	.01	<50	<1

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Barium, total recoverable (µg/L as Ba)	Beryllium, total recoverable (µg/L as Be)	Boron, total recoverable (µg/L as B)	Cadmium, total recoverable (µg/L as Cd)	Chromium, total recoverable (µg/L as Cr)	Cobalt, total recoverable (µg/L as Co)	Copper, total recoverable (µg/L as Cu)
			Union County					
372540089213401	06-12-84	400	<2	120	17	<10	6	<5
372540089213401	10-09-84	400	<1	60	5	<5	<5	<5
372540089213401	12-19-84	400	<1	<50	<3	<5	<5	<5
			White County					
380530088035301	06-13-84	--	--	--	--	--	--	--
380530088035301	10-10-84	20	<1	<50	<3	<5	<5	<5
380530088035301	12-20-84	30	<1	<50	<3	<5	<5	<5
			Whiteside County					
414540089415701	06-14-84	100	<1	<50	4	<5	<5	<5
414540089415701	09-25-84	100	<1	<50	<3	<5	<5	<5
414540089415701	12-11-84	100	<1	<50	<3	8	<5	<5
414617090141501	06-20-84	60	<1	<50	5	15	7	7
414617090141501	09-25-84	60	<1	<50	<3	<5	<5	<5
414617090141501	12-11-84	60	<1	<50	<3	<5	<5	<5
			Winnebago County					
421212089062501	06-13-84	500	<1	<50	<3	7	<5	<5
421212089062501	09-26-84	500	<1	<50	<3	<5	<5	<5
421212089062501	12-12-84	400	<1	<50	<3	<5	<5	<5
421535089050301	06-13-84	90	<1	100	<3	6	<5	<5
421535089050301	09-26-84	80	<1	90	<3	<5	<5	<5
421535089050301	12-12-84	80	<1	80	<3	<5	<5	<5

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Iron, total recoverable (µg/L as Fe)	Lead, total recoverable (µg/L as Pb)	Manganese, total recoverable (µg/L as Mn)	Mercury total recoverable (µg/L as Mg)	Nickel, total recoverable (µg/L as Ni)	Selenium, total (µg/L as Se)
			Union County				
372540089213401	06-12-84	18,000	<5	1,800	<0.1	<5	<1
372540089213401	10-09-84	17,000	<5	1,700	<.1	<5	<5
372540089213401	12-19-84	22,000	9	2,200	<.1	<5	<1
			White County				
380530088035301	06-13-84	--	<5	--	<.1	--	2
380530088035301	10-10-84	680	<5	420	<.1	<5	<5
380530088035301	12-20-84	750	<5	430	<.1	<5	<1
			Whiteside County				
414540089415701	06-14-84	3,500	<5	59	<.1	<5	<1
414540089415701	09-25-84	3,200	<5	53	<.1	7	<1
414540089415701	12-11-84	3,300	<5	51	<.1	<5	<1
414617090141501	06-20-84	<50	<5	290	<.1	5	1
414617090141501	09-25-84	60	<5	310	<.1	<5	<1
414617090141501	12-11-84	<50	<5	380	<.1	<5	<1
			Winnebago County				
421212089062501	06-13-84	800	<5	120	<.1	<5	<1
421212089062501	09-26-84	810	<5	120	<.1	<5	<1
421212089062501	12-12-84	760	<5	120	.2	<5	<1
421535089050301	06-13-84	290	<5	210	<.1	<5	1
421535089050301	09-26-84	320	<5	200	<.1	<5	1
421535089050301	12-12-84	270	<5	220	<.2	<5	<1

Table 5.--Water-quality records for wells open to the unconfined sand and gravel aquifers--Continued

Station number	Date	Silver, total recoverable (µg/L as Ag)	Strontium, total recoverable (µg/L as Sr)	Vanadium, total (µg/L as V)	Zinc, total recoverable (µg/L as Zn)	Cyanide total (mg/L as CN)	Phenols total (µg/L)
			Union County				
372540089213401	06-12-84	<5	240	<5	<50	<0.01	<5
372540089213401	10-09-84	<3	250	<5	<100	<.01	<5
372540089213401	12-19-84	<3	230	<5	<50	<.01	<5
			White County				
380530088035301	06-13-84	--	--	--	--	<.01	<5
380530088035301	10-10-84	<3	140	<5	<50	<.01	<5
380530088035301	12-20-84	<3	80	<5	<50	<.01	<5
			Whiteside County				
414540089415701	06-14-84	<3	180	<5	<50	<.01	<5
414540089415701	09-25-84	<3	160	<5	<50	<.01	<5
414540089415701	12-11-84	<3	160	<5	<50	<.01	<5
414617090141501	06-20-84	<3	90	<5	<50	<.01	<5
414617090141501	09-25-84	<3	70	<5	<50	<.01	<5
414617090141501	12-11-84	<3	80	<5	<50	<.01	<5
			Winnebago County				
421212089062501	06-13-84	<3	240	<5	<50	<.01	<5
421212089062501	09-26-84	<3	220	<5	<50	<.01	<5
421212089062501	12-12-84	<3	210	<5	<50	<.01	<5
421535089050301	06-13-84	<5	140	<5	<50	<.01	<5
421535089050301	09-26-84	<3	130	<5	<50	<.01	<5
421535089050301	12-12-84	<3	130	<5	<50	<.01	<5

Table 6.--Selected ground-water site inventory (GWSI) data

[Asterisks used for spacing; dashes indicate no data; footnotes at end of table]

Site identification number	Local name	Latitude	Longitude	Hydrologic unit (OWDC)	Date well constructed	Depth of well (feet)
370724088374201	Brookport Well No. 3	37°07'24"	088°37'42"	05140206	10/01/1982	215
371010089203701	Central Alexander Co. Well No. 1	37°10'10"	089°20'37"	07140108	09/30/1971	98.0
371250089133401	Pulaski Well No. 1A	37°12'50"	089°13'34"	07140108	12/01/1965	88.0
*	*	*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*	*	*	*
371637089105401	Ullin Well No. 1	37°16'37"	089°10'54"	07140108	07/01/1959	150
*	*	*	*	*	*	*
371909089255801	McClure-East Cape Public Water Dist. Well No. 1	37°19'09"	089°25'58"	07140105	10/09/1967	108
371951088431101	Millstone Public Water Dist. Well No. 1	37°19'51"	088°43'11"	05140206	08/01/1972	116
372540089213401	Anna-Jonesboro Public Water Dist. Well No. 3	37°25'40"	089°21'34"	07140105	12/08/1976	83.0
374207088094201	New Shawneetown Well No. 4	37°42'07"	088°09'42"	05140203	08/02/1972	96.0
*	*	*	*	*	*	*
374325088134701	Saline Valley Well No. 1	37°43'25"	088°13'47"	05140204	05/01/1982	135
*	*	*	*	*	*	*
380530088035301	Carmi Well No. 4	38°05'30"	088°03'53"	05120113	03/00/1971	96.5
381749090185301	Valmeyer Well No. 4	38°17'49"	090°18'53"	07140101	09/01/1976	53.6
383929090012701	Collinsville Well No. 10	38°39'31"	090°01'26"	07140101	/ /1958	104
384740090022701	Edwardsville Well No. 8	38°47'40"	090°02'27"	07140101	09/01/1981	112
384822090034801	Roxana Well No. 10	38°48'22"	090°03'48"	07140101	10/01/1975	111
384955090055801	Hartford Well No. 4	38°49'55"	090°05'58"	07140101	01/01/1977	106
*	*	*	*	*	*	*
385117090063701	Wood River Well No. 6	38°51'17"	090°06'37"	07110009	01/01/1976	95.0
385205090044701	Bethalto Well No. 12	38°52'05"	090°04'47"	07110009	01/01/1980	96.0
393823089075901	Assumption Well No. 11	39°38'23"	089°07'59"	07130007	04/26/1978	105
394600090360501	Jacksonville Well No. 2	39°46'00"	090°36'05"	07130011	06/01/1982	85.0
394957090331501	Meredosia Well No. 4	39°49'57"	090°33'15"	07130011	07/01/1975	87.5
*	*	*	*	*	*	*
400025090244401	Beardstown Well No. 13	40°00'25"	090°24'44"	07130003	01/01/1970	86.4
400026091242401	Clayton-Camp Point Public Water Dist. Well No. 1	40°00'26"	091°24'24"	07110001	10/14/1977	91.5
400138088341601	Monticello Well No. 5	40°01'38"	088°34'16"	07130006	09/15/1976	274
400647088481101	Weldon Well No. 5	40°06'47"	088°48'11"	07130006	04/07/1978	293
400737088132301	Champaign Well No. 46	40°07'37"	088°13'23"	05120109	06/01/1946	207
*	*	*	*	*	*	*

Table 6.--Selected ground-water site inventory (GWSI) data--Continued

Site identification number	Top of casing[1] (feet)	Bottom of casing (feet)	Diameter of casing (inches)	Casing material[2]	Top of open interval (feet)	Bottom of open interval (feet)	Diameter of interval (inches)	Type of openings[3]	Width of openings (inches)
370724088374201	-1.50	194	12.0	S	194	215	12.0	L	0.08
371010089203701	0.00	93.0	4.00	-	93.0	95.0	6.00	S	0.06
371250089133401	-1.70	68.0	8.00	-	68.0	74.0	8.00	S	0.02
*	*	*	*	*	74.0	76.0	8.00	S	0.03
*	*	*	*	*	76.0	78.0	8.00	S	0.06
*	*	*	*	*	78.0	85.0	8.00	S	0.04
*	*	*	*	*	85.0	88.0	8.00	S	0.08
371637089105401	-6.30	140	8.00	-	140	150	8.00	L	0.10
	-6.30	18.0	16.0	-	*	*	*	*	*
371909089255801	--	--	--	-	--	--	--	-	--
371951088431101	0.00	85.0	12.8	-	85.0	116	12.0	S	0.05
372540089213401	--	--	--	-	--	--	--	-	--
374207088094201	-10.0	76.0	12.0	-	76.0	96.0	12.0	S	0.05
*	-10.0	10.0	24.0	-	*	*	*	*	*
374325088134701	-13.0	20.0	42.0	S	85.0	135	18.0	L	0.11
*	-14.0	85.0	18.0	S	*	*	*	*	*
380530088035301	--	--	--	-	--	--	--	-	--
381749090185301	-2.00	41.6	12.0	S	41.6	53.6	12.0	S	0.12
383929090012701	0.00	73.0	26.0	-	73.0	104	26.0	S	0.08
384740090022701	0.00	60.0	16.0	S	60.0	112	16.0	S	--
384822090034801	-2.00	71.0	18.0	S	71.0	111	18.0	L	0.08
384955090055801	0.00	13.0	36.0	S	71.0	106	18.0	L	0.08
*	-1.50	71.0	18.0	S	*	*	*	*	*
385117090063701	-5.00	70.0	20.0	-	70.0	95.0	20.0	L	--
385205090044701	0.00	76.0	20.0	S	76.0	96.0	20.0	L	0.08
393823089075901	-3.10	80.0	10.0	-	80.0	105	10.0	S	0.04
394600090360501	-6.30	44.0	18.0	S	44.0	85.0	18.0	S	0.04
394957090331501	-2.00	5.00	12.0	Z	73.5	87.5	8.00	S	0.25
*	5.00	73.5	8.00	S	*	*	*	*	*
400025090244401	-1.00	40.6	16.0	S	40.6	86.4	16.0	S	0.06
400026091242401	0.00	48.5	16.0	-	48.5	88.5	16.0	S	0.04
400138088341601	-2.00	234	16.0	S	234	274	16.0	S	0.06
400647088481101	7.00	265	10.0	-	265	293	8.00	S	0.04
400737088132301	-1.80	181	16.0	-	181	191	16.0	P	0.01
*	*	*	*	*	191	198	16.0	P	0.02

Table 6.--Selected ground-water site inventory (GWSI) data--Continued

Site identification number	Local name	Latitude	Longitude	Hydrologic unit (OWDC)	Date well constructed	Depth of well (feet)
400737088132301	*	*	*	*	*	*
400832088190601	Champaign Well No. 54	40°08'32"	088°19'06"	07140201	11/01/1956	331
*	*	*	*	*	*	*
401215089414501	Mason City Well No. 4	40°12'15"	089°41'45"	07130009	01/01/1928	222
401217088220301	Sangamon Valley Public Water Dist. Well No. 1	40°12'17"	088°22'03"	07130006	09/01/1967	283
401351089503901	Easton Well No. 2	40°13'51"	089°50'39"	07130008	08/01/1971	138
401754090032001	Havana Well No. 5	40°17'54"	090°03'20"	07130003	09/01/1974	96.0
*	*	*	*	*	*	*
*	*	*	*	*	*	*
401811089361801	San Jose Well No. 4	40°18'11"	089°36'18"	07130003	01/01/1951	186
401841088094701	Rantoul Well No. 7	40°18'41"	088°09'47"	07130006	12/01/1970	279
402024089184501	Armington Well No. 2	40°20'24"	089°18'45"	07130009	05/01/1970	250
402530089464201	Manito Well No. 3	40°25'30"	089°46'42"	07130004	05/01/1967	100
*	*	*	*	*	*	*
*	*	*	*	*	*	*
402719088084501	Paxton Well No. 7	40°27'19"	088°08'45"	05120109	10/01/1956	340
402912089090901	Normal Well No. 100	40°29'12"	089°09'09"	07130009	11/01/1974	346
*	*	*	*	*	*	*
403626089282001	Morton Well No. 5	40°36'26"	089°28'20"	07130004	06/01/1970	280
*	*	*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*	*	*	*
404009089371401	Peoria Dodge St. Well No. 4	40°40'09"	089°37'14"	07130001	01/01/1950	122
404222089243201	Washington Well No. 7	40°42'22"	089°24'32"	07130001	01/01/1960	306
404415088305101	Fairbury Well No. 4	40°44'15"	088°30'51"	07130002	12/01/1976	52.0
404528089335801	Peoria Heights Well No. 11	40°45'28"	089°33'58"	07130001	04/01/1941	123
404629087453801	Watseka Well No. 7	40°46'29"	087°45'38"	07120002	08/01/1974	133
405512090573601	Galesburg Well No. 74-3	40°55'12"	090°57'36"	07080104	01/01/1975	102
405536089300401	Chillicothe Well No. 7	40°55'36"	089°30'04"	07130001	08/01/1951	100
*	*	*	*	*	*	*
*	*	*	*	*	*	*
405611087560001	Clifton Well No. 1	40°56'11"	087°56'00"	07120002	08/01/1941	137
405712087392301	Beaverville Well No. 2	40°57'12"	087°39'23"	07120002	09/01/1965	203
410010087550801	Chebanse Well No. 3	41°00'10"	087°55'08"	07120002	06/01/1975	205
410127087425201	St. Anne Well No. 3	41°01'27"	087°42'52"	07120002	01/01/1963	240

Table 6.--Selected ground-water site inventory (GWSI) data--Continued

Site identification number	Top of casing[1] (feet)	Bottom of casing (feet)	Diameter of casing (inches)	Casing material[2]	Top of open interval (feet)	Bottom of open interval (feet)	Diameter of interval (inches)	Type of openings[3]	Width of openings (inches)
400737088132301	*	*	*	*	198	207	16.0	P	0.01
400832088190601	-1.50	256	24.0	-	256	331	24.0	L	0.10
*	-1.50	256	36.0	-	*	*	*	*	*
401215089414501	0.50	210	12.0	-	210	222	12.0	S	--
401217088220301	-1.50	253	12.0	S	253	283	12.0	L	0.10
401351089503901	-1.00	128	8.00	S	128	138	8.00	S	0.03
401754090032001	-3.00	46.0	12.0	-	46.0	55.8	12.0	S	0.05
*	*	*	*	*	55.8	89.6	12.0	S	0.02
*	*	*	*	*	89.6	96.0	12.0	S	0.01
401811089361801	-2.00	174	6.00	-	174	186	6.00	S	--
401841088094701	-2.00	239	16.0	S	239	279	16.0	S	--
402024089184501	-1.00	230	12.2	-	230	250	18.0	S	0.03
402530089464201	-1.70	3.50	12.0	Z	80.0	83.0	12.0	S	0.12
*	3.50	80.0	12.0	S	83.0	88.0	12.0	S	0.20
*	*	*	*	*	88.0	94.0	12.0	S	0.28
402719088084501	-8.00	240	16.0	-	240	340	16.0	S	0.08
402912089090901	-2.00	246	16.0	-	246	286	16.0	S	0.04
*	286	326	16.0	S	326	346	16.0	S	0.04
403626089282001	5.00	245	12.0	S	245	253	12.0	S	0.02
*	*	*	*	*	253	258	12.0	S	0.04
*	*	*	*	*	258	266	12.0	S	0.03
*	*	*	*	*	266	280	12.0	S	0.04
404009089371401	-1.00	84.7	25.0	-	86.2	122	38.0	S	--
404222089243201	-1.20	271	12.0	S	271	306	12.0	S	0.02
404415088305101	4.00	42.0	12.0	-	42.0	52.0	12.0	S	0.09
404528089335801	-1.50	84.3	32.0	C	84.3	123	32.0	S	--
404629087453801	-2.50	113	12.0	S	113	133	12.0	S	0.04
405512090573601	-12.0	74.5	16.0	S	74.5	102	16.0	S	0.05
405536089300401	0.00	85.0	10.0	S	85.0	88.0	10.0	S	0.03
*	*	*	*	*	88.0	90.0	10.0	S	0.04
*	*	*	*	*	90.0	100	10.0	S	0.06
405611087560001	-1.30	96.0	6.00	-	96.0	137	6.00	X	--
405712087392301	-1.50	151	8.00	-	151	203	8.00	X	--
410010087550801	-2.00	83.0	10.0	S	83.0	205	10.0	X	--
410127087425201	-0.80	98.0	12.0	-	98.0	240	--	X	--

Table 6.--Selected ground-water site inventory (GWSI) data--Continued

Site identification number	Local name	Latitude	Longitude	Hydrologic unit (OWDC)	Date well constructed	Depth of well (feet)
410325088022301	Herscher Well No. 8	41°03'25"	088°02'23"	07120001	04/01/1978	170
410919087393201	Momence Well No. 3	41°09'19"	087°39'32"	07120001	08/01/1957	176
*	*	*	*	*	*	*
411010087400901	Momence Well No. 4	41°10'10"	087°40'09"	07120001	09/01/1957	176
*	*	*	*	*	*	*
412120088500401	Ottawa Well No. 8	41°21'20"	088°50'04"	07120007	08/01/1932	1,180
412129088252701	Morris Well No. 4	41°21'29"	088°25'27"	07120005	08/01/1938	1,500
*	*	*	*	*	*	*
412232089275101	Princeton Well No. 5	41°22'32"	089°27'51"	07130001	09/01/1940	270
412518087590901	Manhattan Well No. 2	41°25'18"	087°59'09"	07120001	03/01/1939	156
412832090082901	Geneseo Well No. 25	41°28'32"	090°08'29"	07090007	/ /1959	57.0
412950087514301	Frankfort Well No. 3	41°29'50"	087°51'43"	07120004	06/01/1968	433
413043087391201	Chicago Heights Well No. 30	41°30'43"	087°39'12"	07120003	12/01/1962	405
*	*	*	*	*	*	*
413238088084601	Joliet Rooney Site Well No. 11	41°32'38"	088°08'46"	07120004	12/01/1975	1,620
*	*	*	*	*	*	*
413255089064801	Mendota Well No. 3	41°32'55"	089°06'48"	07130001	08/01/1945	1,380
*	*	*	**	*	*	*
*	*	*	*	*	*	*
413323087594501	Joliet Well No. 5	41°33'23"	087°59'45"	07120004	08/01/1950	94.0
*	*	*	*	*	*	*
*	*	*	*	*	*	*
413514088011901	Lockport Well No. 5	41°35'14"	088°01'19"	07120004	01/01/1973	330
*	*	*	*	*	*	*
413753087511701	Orland Park Well No. 2	41°37'53"	087°51'17"	07120004	05/01/1956	397
413840087494001	Orland Park Well No. 11	41°38'40"	087°59'40"	07120004	10/01/1979	1,680
*	*	*	*	*	*	*
*	*	*	*	*	*	*
414529088264301	Sugar Grove Well No. 2	41°45'29"	088°26'43"	07120007	06/01/1961	107
414540089415701	Rock Falls Well No. 4	41°45'40"	089°41'57"	07090005	05/ /1983	132
414603088521601	Shabbona Well No. 4	41°46'03"	088°52'16"	07090006	04/01/1972	158
414614087534901	Indian Head Park Well No. 2	41°46'14"	087°53'49"	07120004	06/01/1970	402
414617090141501	Albany Well No. 2	41°46'17"	090°14'15"	07080101	09/15/1970	80.0
*	*	*	*	*	*	*
414633088080501	Naperville Well No. 5	41°46'33"	088°08'05"	07120004	01/01/1930	190

Table 6.--Selected ground-water site inventory (GWSI) data--Continued

Site identification number	Top of casing[1] (feet)	Bottom of casing (feet)	Diameter of casing (inches)	Casing material[2]	Top of open interval (feet)	Bottom of open interval (feet)	Diameter of interval (inches)	Type of openings[3]	Width of openings (inches)
410325088022301	-1.50	54.5	8.00	S	54.5	170	8.00	X	--
410919087393201	-2.00	50.0	12.0	-	*	*	*	*	*
*	-2.00	15.0	18.0	-	*	*	*	*	*
411010087400901	-2.00	50.0	12.0	-	50.0	176	12.0	X	--
*	-2.00	14.5	18.0	-	*	*	*	*	*
412120088500401	0.00	272	16.0	-	272	1,180	15.2	X	--
412129088252701	0.20	915	16.0	-	915	1,500	16.0	X	--
*	0.20	90.0	19.0	-	*	*	*	*	*
412232089275101	-1.00	232	12.5	-	232	270	10.6	S	0.02
412518087590901	-0.70	35.0	8.00	-	35.0	156	8.00	X	--
412832090082901	--	--	--	-	--	--	--	-	--
412950087514301	-1.20	110	12.0	-	110	433	12.0	X	--
413043087391201	0.00	57.0	24.0	-	57.0	405	23.5	X	--
*	0.00	50.0	30.0	-	*	*	*	*	*
413238088084601	0.00	1,010	16.0	S	1,010	1,620	15.0	X	--
*	0.00	22.0	20.0	S	*	*	*	*	*
413255089064801	-1.00	270	16.0	-	270	534	16.0	X	--
*	-1.00	271	16.0	-	585	1,380	15.0	X	--
*	255	585	12.0	-	*	*	*	*	*
413323087594501	0.00	50.0	36.0	S	59.0	94.0	18.0	L	0.08
*	0.00	25.0	48.0	S	*	*	*	*	*
*	-0.40	59.0	18.0	S	*	*	*	*	*
413514088011901	0.00	72.0	26.0	-	72.0	330	25.0	X	--
*	0.00	60.5	30.0	-	*	*	*	*	*
413753087511701	-2.00	160	12.0	S	160	397	12.0	X	--
413840087494001	0.00	1,170	16.0	S	1,490	1,680	11.9	X	--
*	-1.00	154	20.0	S	*	*	*	*	*
*	1,160	1,490	12.0	S	*	*	*	*	*
414529088264301	-2.00	87.0	12.0	-	87.0	107	12.0	L	0.08
414540089415701	0.00	112	24.0	-	112	132	48.0	X	--
414603088521601	-1.50	138	10.0	-	138	158	10.0	L	0.05
414614087534901	-2.00	76.0	16.0	-	76.0	402	15.2	X	--
414617090141501	0.00	68.0	8.00	-	68.0	80.0	8.00	S	0.01
*	0.00	68.0	12.0	-	*	*	*	*	*
414633088080501	-0.20	31.5	30.0	-	31.5	190	24.0	X	--

Table 6.--Selected ground-water site inventory (GWSI) data--Continued

Site identification number	Local name	Latitude	Longitude	Hydrologic unit (OWDC)	Date well constructed	Depth of well (feet)
414952087592601	Oak Brook Well No. 6	41°49'52"	087°59'26"	07120004	12/01/1976	1,520
*	*	*	*	*	*	*
415149088061701	Wheaton Well No. 2	41°51'49"	088°06'17"	07120004	02/01/1930	183
*	*	*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*	*	*	*
415257088202001	Geneva Well No. 6	41°52'57"	088°20'20"	07120007	06/01/1964	1,350
*	*	*	*	*	*	*
415424088462501	De Kalb Well No. 12	41°54'24"	088°46'25"	07090006	08/01/1972	1,200
*	*	*	*	*	*	*
*	*	*	*	*	*	*
415502088004701	Addison Well No. 8	41°55'02"	088°00'47"	07120004	11/28/1967	75.0
415614088095701	Carol Stream Well No. 5	41°56'14"	088°09'57"	07120004	01/01/1977	1,360
*	*	*	*	*	*	*
415635088182201	St. Charles Well No. 9	41°56'35"	088°18'22"	07120007	12/01/1979	86.0
415737090061001	Thomson Well No. 4	41°57'37"	090°06'10"	07060005	09/01/1975	65.0
415807088003801	Itasca Well No. 5	41°58'07"	088°00'38"	07120004	10/01/1958	190
*	*	*	*	*	*	*
415930088110601	Bartlett Well No. 2	41°59'30"	088°11'06"	07120006	11/01/1945	200
415930088110602	Bartlett Well No. 1	41°59'30"	088°11'06"	07120006	--	--
420332088055701	Schaumburg Well No. 13.5	42°03'32"	088°05'57"	07120006	03/01/1973	203
420432088114101	Hoffman Estates Well No. 22	42°04'32"	088°11'41"	07120006	09/01/1978	119
420555088165501	West Dundee Well No. 2	42°05'55"	088°16'55"	07120006	02/01/1969	87.0
420720088154601	Carpentersville Well No. 6	42°07'20"	088°15'46"	07120006	04/01/1973	179
420754087552001	Wheeling Well No. 4	42°07'54"	087°55'20"	07120004	09/01/1963	281
420918087565401	Buffalo Grove Well No. 6	42°09'18"	087°56'54"	07120004	11/00/1977	1,355
*	*	*	*	*	*	*
420949088082601	Barrington Well No. 4	42°09'49"	088°08'26"	07120006	04/01/1974	151
421034088164601	Algonquin Well No. 1	42°10'34"	088°16'46"	07120006	01/01/1955	165
421212089062501	Rockford Well No. 28	42°12'12"	089°06'25"	07090005	10/01/1968	233
*	*	*	*	*	*	*
421335088204601	Crystal Lake Well No. 6	42°13'35"	088°20'46"	07120006	06/00/1963	1,295
421535089050301	Rockford Well No. 11	42°15'35"	089°05'03"	07090005	01/01/1950	245
*	*	*	*	*	*	*
421537088082101	Wauconda Well No. 2	42°15'37"	088°08'21"	07120006	03/01/1939	257

Table 6.--Selected ground-water site inventory (GWSI) data--Continued

Site identification number	Top of casing[1] (feet)	Bottom of casing (feet)	Diameter of casing (inches)	Casing material[2]	Top of open interval (feet)	Bottom of open interval (feet)	Diameter of interval (inches)	Type of openings[3]	Width of openings (inches)
414952087592601	0.00	1,030	18.0	S	1,030	1,520	17.0	X	--
*	0.00	90.0	24.0	S	*	*	*	*	*
415149088061701	-1.00	55.0	38.0	-	57.0	81.0	24.0	S	--
*	47.0	57.0	24.0	-	114	184	--	X	--
*	81.0	89.0	24.0	-	*	*	*	*	*
*	84.0	114	--	-	*	*	*	*	*
415257088202001	-1.00	1,140	20.0	-	1,140	1,350	19.0	X	--
*	-1.00	90.0	26.0	-	*	*	*	*	*
415424088462501	0.00	445	22.0	-	445	712	21.0	X	--
*	0.00	255	26.0	-	841	1,200	17.2	X	--
*	712	841	18.0	-	*	*	*	*	*
415502088004701	7.00	53.0	16.0	-	53.0	75.0	16.0	S	0.10
415614088095701	-1.00	1,210	18.0	S	1,210	1,360	17.0	X	--
*	-1.00	110	24.0	S	*	*	*	*	*
415635088182201	-2.00	56.0	24.0	S	56.0	86.0	24.0	L	0.13
415737090061001	-3.00	50.0	10.0	S	50.0	65.0	10.0	S	0.06
415807088003801	0.00	102	12.0	-	102	190	12.0	X	--
*	0.00	82.0	16.0	-	*	*	*	*	*
415930088110601	-0.80	151	8.00	S	151	200	8.00	X	--
415930088110602	--	--	--	-	--	--	--	-	--
420332088055701	0.00	193	16.0	-	193	203	16.0	L	0.10
420432088114101	-2.00	99.0	10.0	S	99.0	119	10.0	R	0.10
420555088165501	-2.00	67.0	10.0	S	67.0	87.0	10.0	S	0.08
420720088154601	0.00	149	20.0	-	149	179	20.0	S	0.12
420754087552001	-2.00	86.0	12.0	S	86.0	281	12.0	X	--
420918087565401	-1.00	122	22.0	S	1,060	1,350	15.0	X	--
*	-2.00	1,060	16.0	S	*	*	*	*	*
420949088082601	-1.50	126	16.0	-	126	151	16.0	S	0.12
421034088164601	-1.00	135	6.00	-	135	165	6.00	X	--
421212089062501	-2.00	148	20.0	-	148	233	16.0	L	0.05
*	138	148	16.0	S	*	*	*	*	*
421335088204601	--	--	--	-	--	--	--	-	--
421535089050301	-0.50	160	20.0	-	160	245	15.0	L	--
*	-0.50	30.0	30.0	-	*	*	*	*	*
421537088082101	0.00	227	12.0	I	227	257	12.0	X	--

Table 6.--Selected ground-water site inventory (GWSI) data--Continued

Site identification number	Local name	Latitude	Longitude	Hydrologic unit (OWDC)	Date well constructed	Depth of well (feet)
421634088003301	Mundelein Well No. 3	42°16'34"	088°00'33"	07120004	04/01/1954	276
421649088513801	Belvidere Well No. 9	42°16'49"	088°51'38"	07090006	06/01/1969	120
*	*	*	*	*	*	*
421652088003601	Mundelein Well No. 5	42°16'52"	088°00'36"	07120004	05/01/1954	140
*	*	*	*	*	*	*
421826089374301	Freeport Well No. 7	42°18'26"	089°37'43"	07090003	08/01/1979	114
421955088263301	Woodstock Well No. 6	42°19'55"	088°26'33"	07120006	10/01/1960	193
*	*	*	*	*	*	*
422217087545201	Gurnee Well No. 1	42°22'17"	087°54'52"	07120004	12/01/1959	1,520
*	*	*	*	*	*	*
422219088040601	Round Lake Beach Well No. 4	42°22'19"	088°04'06"	07120006	12/01/1952	314
*	*	*	*	*	*	*
422356088105201	Fox Lake Well No. 2	42°23'56"	088°10'52"	07120006	01/01/1941	135
422455088370901	Harvard Well No. 5	42°24'55"	088°37'09"	07090006	05/01/1958	68.0
422525088361401	Harvard Well No. 6	42°25'25"	088°36'14"	07090006	07/01/1963	199
*	*	*	*	*	*	*
*	*	*	*	*	*	*
422830088052501	Antioch Well No. 3	42°28'30"	088°05'25"	07120006	10/01/1953	141
422901087492901	Winthrop Harbor Well No. 4	42°29'01"	087°49'29"	04040002	01/01/1948	138
422929089020901	South Beloit Well No. 3	42°29'29"	089°02'09"	07090001	01/01/1937	1,180

Table 6.--Selected ground-water site inventory (GWSI) data--Continued

Site identification number	Top of casing[1] (feet)	Bottom of casing (feet)	Diameter of casing (inches)	Casing material[2]	Top of open interval (feet)	Bottom of open interval (feet)	Diameter of interval (inches)	Type of openings[3]	Width of openings (inches)
421634088003301	-1.50	234	12.0	-	234	276	12.0	X	--
421649088513801	-2.00	70.0	16.0	G	70.0	90.0	16.0	S	0.09
*	90.0	115	16.0	G	115	120	16.0	S	0.09
421652088003601	-1.20	116	12.0	-	116	128	12.0	S	0.01
*	*	*	*	*	128	140	12.0	S	0.04
421826089374301	-12.0	68.5	24.0	S	68.5	114	24.0	S	0.12
421955088263301	4.00	115	12.0	-	115	130	12.0	L	0.03
*	130	153	12.0	-	153	193	12.0	L	0.03
422217087545201	-1.30	1,140	10.0	-	1,140	1,520	10.0	X	--
*	-1.30	145	16.0	-	*	*	*	*	*
422219088040601	0.00	12.0	10.0	S	238	314	6.00	X	--
*	-1.40	238	6.00	S	*	*	*	*	*
422356088105201	-1.00	119	16.0	-	119	135	15.0	S	0.03
422455088370901	-0.70	48.0	20.0	S	48.0	68.0	20.0	S	0.06
422525088361401	-2.00	131	12.0	-	131	136	12.0	P	0.06
*	155	185	10.0	-	136	155	12.0	P	0.15
*	197	199	12.0	-	185	197	12.0	P	0.15
422830088052501	-0.80	121	12.0	-	121	141	12.0	L	0.10
422901087492901	-2.00	128	8.00	-	128	138	--	S	--
422929089020901	0.00	230	18.0	-	230	352	17.0	X	--

[1] Negative values indicate an elevation above land surface.

[2] Casing material codes:
C - Concrete
S - Steel
Z - Other material

[3] Type of opening codes:
L - Louvered or shutter-type screen
P - Perforated, porous, or slotted casing
S - Screen, type not known
X - Open hole

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