0070000000/Boone
Belvidere Public Well #6
ILD981960768

SEC301-A0101

CERCLA

Preliminary Assessment Report

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

EPA Region 5 Records Ctr.
293423

LPC 0070000000/Boone County
Belvidere Public Well #6
ILD 981960768

July 14, 1988

Executive Summary

The City of Belvidere is located on the Kishwaukee River just five miles east of Rockford in Boone County, Illinois. Belvidere Public Well #6 is located in the W½ of the SW¼ of the SW¼ of the SW¼ of section 24, township 44 north, range 3 east, near the water tower on McKinley Avenue. The well was drilled in 1955 to a depth of 868 feet. Unconsolidated deposits extend to 25 feet and are sealed off by 20-inch casing to 110 feet. The well is open to the Galena-Platteville Dolomite followed by the Glenwood-St. Peter Sandstone, Potosi Dolomite, Franconia Formation and Ironton-Galesville Sandstone. Belvidere well #6 is one of eight public wells used by 15,200 residents along with other industrial consumers in the City.

Results of the IEPA Public Water Supplies' monitoring program indicated trace amounts of chlorinated solvents in Well #6 when it was sampled November 19, 1985. IEPA lab analysis showed concentrations of 1,1,1-trichloroethane at 2.6 ppb, trichloroethylene at 2.2 ppb, tetrachloroethylene at 2.6 ppb and 1,1-dichloroethylene at 2.7 ppb. Belvidere public well #6 has been closely monitored since then and in four of the last six sampling episodes, three of the initial four compounds have been confirmed in the bedrock aquifers. When sampled on February 11, 1988, tetrachloroethylene was found at 2.0 ppb, along with an unidentified compound at concentrations of 10.0 ppb. Of the City's eight supply wells, five have been found to contain the same chlorinated solvents and without a preference as to which side of the river the well is located.

A Well Head Survey conducted January 28, 1987 by Greg White of IEPA discovered several potential sources of contamination within 1,000 feet of the well head. To the north of the well at approximate distances, a building products company is located at 200 feet, there is an agriculture chemical dealership at 400 feet and construction equipment storage is 800 feet away. Southeast of the well at approximate distances, a rubber company with chemical storage is 600 feet away, an engineering company with fuel, equipment, and material storage is located at 1,000 feet and a State Superfund site - Filter Systems, Inc. AKA Parsons Casket Hardware is 1,400 feet away. Groundwater monitoring results of Parsons Casket Hardware show all of the chlorinated solvents in question at this site along with many other hydrocarbons. Summarized lab anaylsis for this site is enclosed in the PA. Several other potential sources are listed in the Well Head Survey and also enclosed in the PA.

Greg Dunn accompanied me on a site reconnaissance visit March 31, 1988. The potential sources were observed and no other potential sources discovered. The well is within 2,000 feet of an industrialized area. Based on the preliminary HRS, a high priority for site inspection has been assigned.

0070000000

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 981960768

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): Belvidere Public Well #6

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: McKinley Ave

03 CITY: Belvidere | 04 STATE: IL | 05 ZIP CODE: 61008 | 06 COUNTY: Boone | 07 COUNTY CODE: 007 | 08 CONG DIST: 16

09 COORDINATES LATITUDE: 42 16 14.2 | LONGITUDE: 088 50 29.4

Belvidere North Quad 11D
N4215 - W8845/7.5

10 DIRECTIONS TO SITE (Starting from nearest public road)
From Chicago, take US. Route 20 to Business Route 20 which goes through Belvidere. Take B.R. 20 (State Street) accross the Kishwaukee River and past the city park and go right on Menomonie Street heading N.E. then take a left on McKinley Ave. heading N. Well is by the water tower.

III. RESPONSIBLE PARTIES

01 OWNER (If known): City of Belvidere

02 STREET (Business, mailing, residential): 123 South State Street

03 CITY: Belvidere | 04 STATE: IL | 05 ZIP CODE: 61008 | 06 TELEPHONE NUMBER: (815) 544-2612

07 OPERATOR (If known and different from owner): Don Dittbenner (Belvidere Water Department)

08 STREET (Business, mailing, residential): 210 Whitney Street

09 CITY: Belvidere | 10 STATE: IL | 11 ZIP CODE: 61008 | 12 TELEPHONE NUMBER: (815) 544-9256

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☒ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 11, 19, 85 (MONTH DAY YEAR)
☐ NO 8 26 86

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1955 (BEGINNING YEAR) | Present (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Solvents (Toxic, persistent)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Groundwater (Population, Environment)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT: Rick Cobb | 02 OF (Agency/Organization): IEPA Division of Public Water Supplies | 03 TELEPHONE NUMBER: (217) 785-8389

04 PERSON RESPONSIBLE FOR ASSESSMENT: Timothy J. Murphy | 05 AGENCY: IEPA | 06 ORGANIZATION: RPMS | 07 TELEPHONE NUMBER: (217) 785-5737 | 08 DATE: 7, 14, 88 (MONTH DAY YEAR)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981960768

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

A SOLID
B POWDER FINES
C SLUDGE
D OTHER _____ (Specify)
E SLURRY
F LIQUID
G GAS

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

TONS
CUBIC YARDS UNK
NO. OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

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

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	1,1,1 Trichloroethane	71556			
SOL	Trichloroethylene	79016			
SOL	Tetrachloroethylene	127184			
SOL	1,1 Dichloroethylene	75354			

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

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

IEPA Division of Public Water Supply [illegible] # 0670050

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981960768

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 15,200
02 [X] OBSERVED (DATE 11/19/85) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION
Public well #6 showed concentrations of 4 chlorinated solvents in the range of 2.2 - 2.7 ppb

document #1

01 [ ] B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: UNK
02 [ ] OBSERVED (DATE:) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: UNK
02 [ ] OBSERVED (DATE:) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: UNK
02 [ ] OBSERVED (DATE:) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: N/A
02 [ ] OBSERVED (DATE:) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: UNK (Acres)
02 [ ] OBSERVED (DATE:) [X] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION
UNK

01 [X] G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 15200
02 [X] OBSERVED (DATE) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION
See A. above

01 [ ] H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: N/A
02 [ ] OBSERVED (DATE) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [X] I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: 15200
02 [ ] OBSERVED (DATE:) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION
See A. above

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DE[illegible]TION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960768

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
N/A

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

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
N/A

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

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

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

05 DESCRIPTION OF ANY OTHER KNOWN POTENTIAL, OR ALLEGED HAZARDS
Five out of eight public Sta[illegible] wells are contam[illegible] some of the same chlorinated solvents
Information from other Belvidere PWS P.A.'s

III. TOTAL POPULATION POTENTIALLY AFFECTED: 15,200

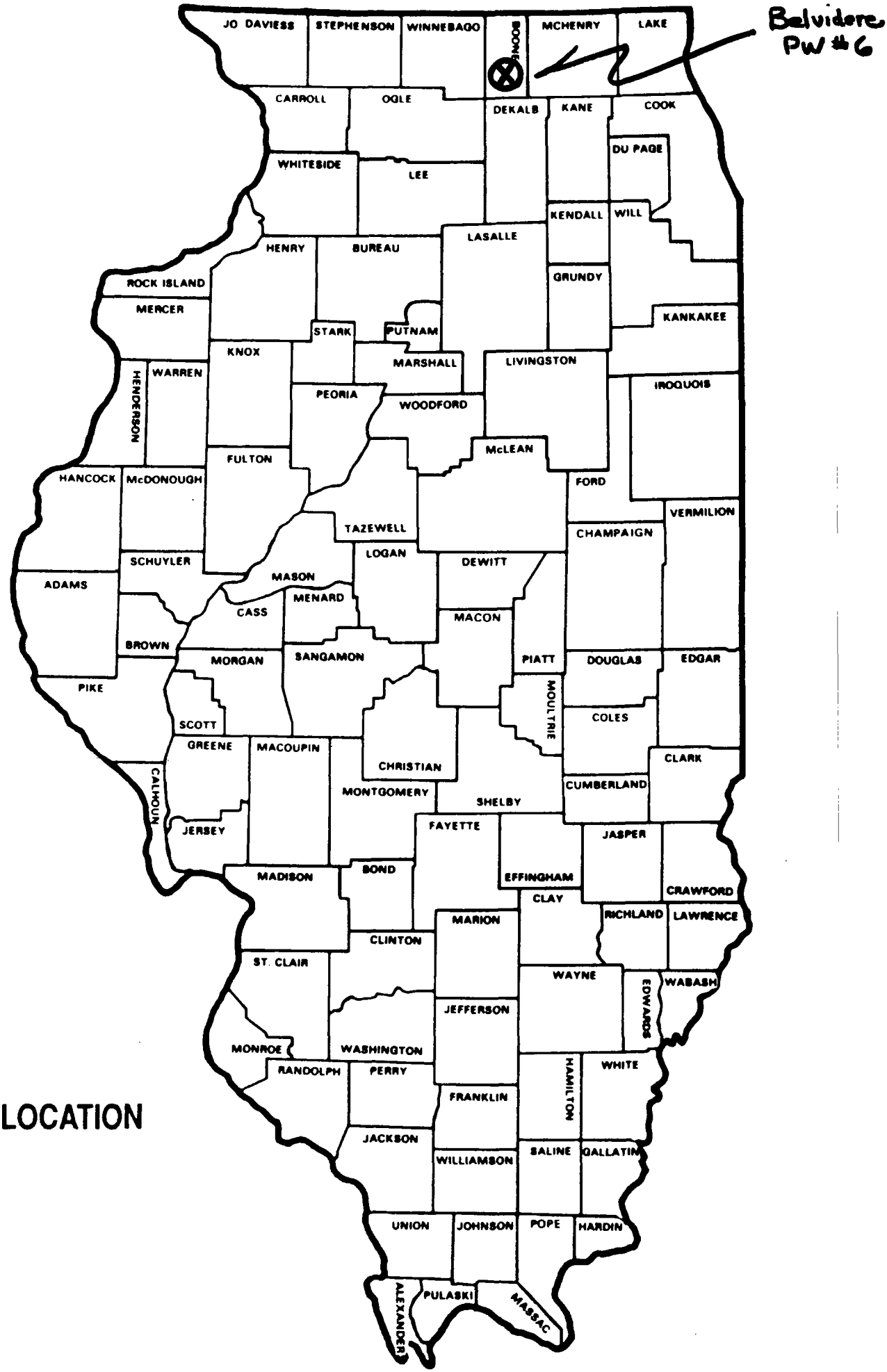
IV. COMMENTS

A Site reconnaissance [illegible] of contamination (3.3, 3.8).

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

IEPA Div. of Public Water Supplies Facility File [illegible]
Illinois State Water Survey [illegible]

EPA FORM 2070-12 (7-81)



SITE LOCATION

GENERAL HIGHWAY MAP
BOONE COUNTY
ILLINOIS

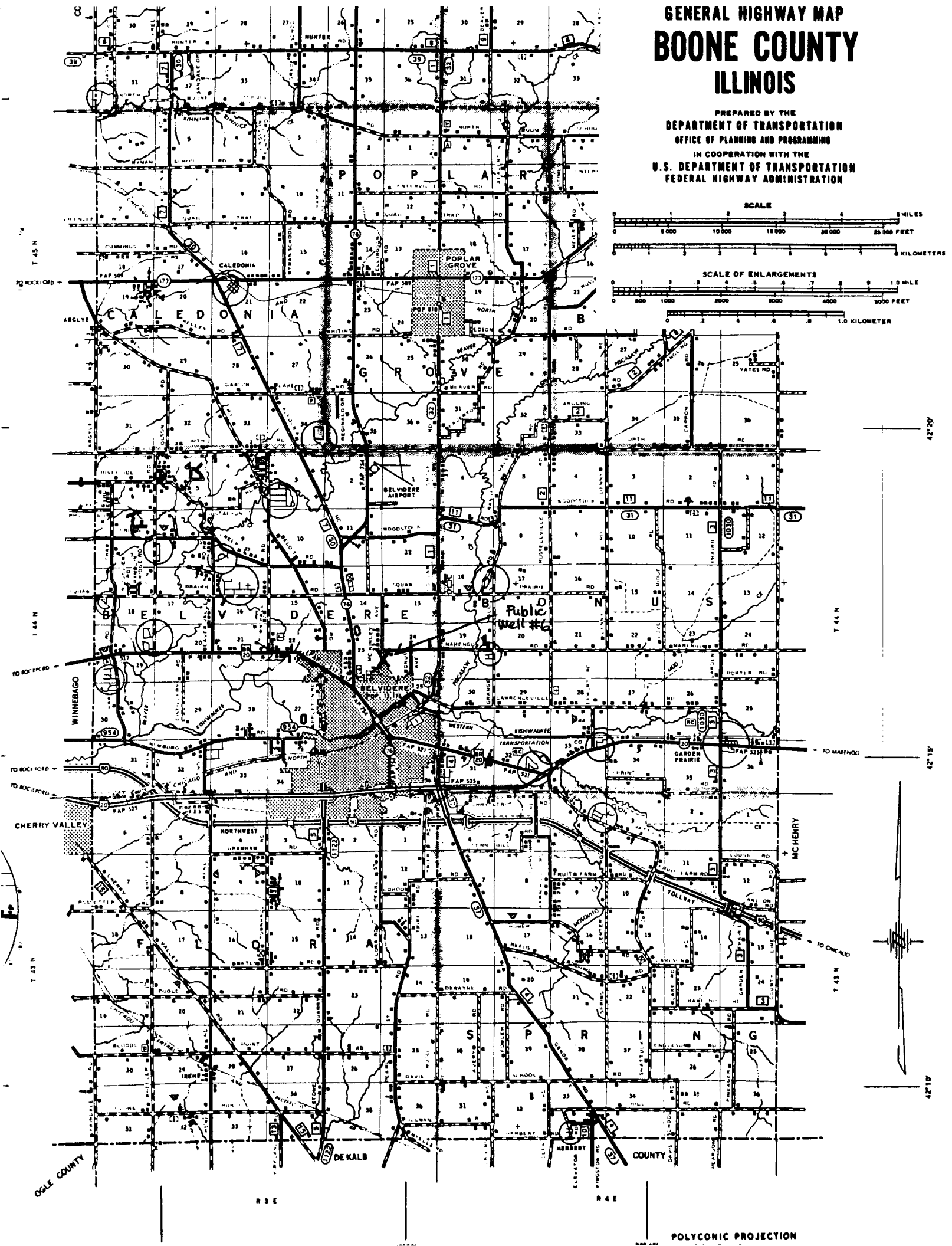
PREPARED BY THE
DEPARTMENT OF TRANSPORTATION
OFFICE OF PLANNING AND PROGRAMMING
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALE

0 1 2 3 4 5 MILES
0 5000 10000 15000 20000 25000 FEET
0 1 2 3 4 5 6 7 8 KILOMETERS

SCALE OF ENLARGEMENTS

0 1 2 3 4 5 6 7 8 9 1.0 MILE
0 500 1000 2000 3000 4000 5000 FEET
0 .2 .4 .6 .8 1.0 KILOMETER



POLYCONIC PROJECTION

Supporting

Documentation

Documents

1. Public Water Supply Data
2. ISWS Bulletin 60-6
3. Sampling Results
4. IEPA Well Head Survey

FY 1985 21080A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES

PUBLIC WATER SUPPLY DATA SHEET

County and Supply Boone - BELVIDERE 0070050

Date Inspected June 4, 1985 Plant phone 815/544-3877

Operator Jim Grimes, Superintendent ** Phone 815/544-2766 (Ofc.) 815/547-6675 (Home)

Other officials (Title) ** Craig Lawler, Director Phone 815/544-9256 (Ofc.) 815/544-5211 (Home)

of Public Works *C* CORC Phone

Emergency Address Don Dittbenner, Foreman Phone 815/547-4936 (Home)

Send mail to Belvidere Water Department, 210 Whitney, Belvidere, IL 61008

Interviewed Don Dittbenner, Foreman

Brief description of supply: Water obtained from six drilled wells (#4, #5, #6, #7, #8, #9) is chlorinated, fluoridated, and discharged to distribution and two elevated tanks. Water from well #4 and two standby wells (#2 & #3) is pumped to ground storage tanks, chlorinated, fluoridated, and repumped to distribution. Supply is interconnected with Green Giant Packing Company (2 wells). Supply has capability of interconnection with Dean's Food Products.

Class *C* Supply

No. of services: Direct 4,630 - 100 % metered

Satellite - - - % metered

Adequacy of Supply

Production capacity is 232% of the average daily pumpage.

Annual Pumpage 1,287,386,000 Gal. Production Capacity 8,172,000 GPD

Av. Daily pumpage 3,527,000 Gal. Max. av. Daily Pumpage 5,000,000 Gal.

Est. Population 15,200 Av. Daily per Capita Consumption 163* 232 Gal.

Time Required to Produce Av. Daily Consumption 10.4 Hrs.

Time Required to Produce Mx. Av. Daily Consumption 14.7 Hrs.

Large Consumers Chrysler 783,000 Others 265,000 Av. Gal./Day

Storage Capacity: Ground 505,000 gal.; Elevated 600,000 gal.

Emergency water and Power Sources: Diesel driven 250 KVA generator can supply power to wells #2 & #3 and related high service pumps.

* Excluding large consumers

CRB:ted

IL 532-0162
PWS 59 7/79

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF PUBLIC WATER SUPPLIES

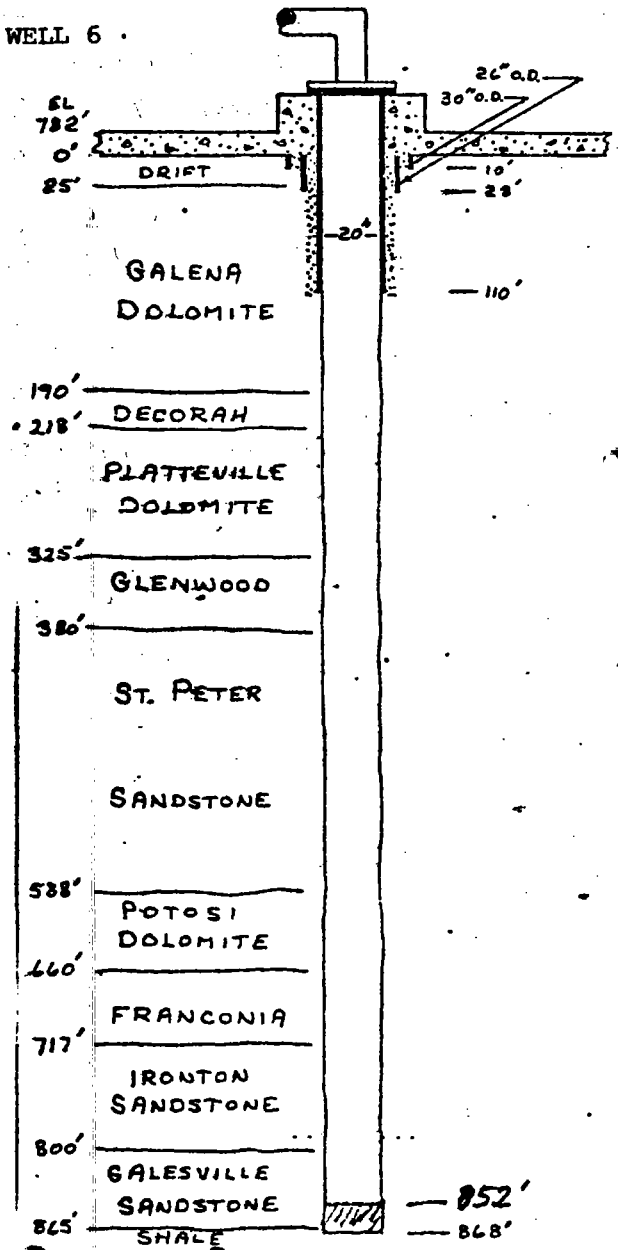
Inventory Sheet

Date inventoried ~~9/30/75~~ ~~4/22/81~~ 6/4/85 up

Supply: BELVIDERE

Sheet ~~25~~ 24 of ~~48~~ 45 48

Item: WELL 6



LOCATION: SEC 24 T 44 N R 3 E
440'N - 66'E S.W. CORNER
McKinley Ave.

CHRONOLOGY:

1955 DRILLED 868 FT.
1965 NEW PUMP BOWLS
1973 NEW MOTOR
1978 REPAIRED PUMP & SHOT WELL
1984 REPAIRED PUMP

PUMP: BYRON JACKSON
SUBMERSIBLE TURBINE,
MODEL 20KH, 12 INCH BOWLS,
SERIAL 380033, 7 STAGES,
775 GPM
SET AT 382 FT.

MOTOR: 150 HP, 1770 RPM,
3 Ø, 60 HZ, 460 V, 171 A,
1770 RPM, 1.10 SERVICE FACTOR

NOTES:
SAMPLE TAP,
AIR LINE WITH GAGE,
AIR RELIEF VALVE,
CASING VENT

PRODUCTION DATA:

DATE	1955	1966	1973				
STATIC LEVEL-FT	34	75	45				
PUMPING LEVEL-FT	175	152					
PUMPING RATE-GPM	713	1000					
SPECIFIC CAPACITY	5.05	6.8	3.7				

100 % Recycled Paper

ISWS bulletin 60-6 2

An abbreviated sample study log of Well No. 5 furnished by the State Geological Survey follows:

Strata	*Thickness (ft)*	*Depth (ft)*
PLEISTOCENE SYSTEM		
Glacial drift	45	45
ORDOVICIAN SYSTEM		
Galena Group, dolomite	185	230
Decorah Subgroup, dolomite and shale	9	239
Platteville Group, dolomite	111	350
Ancell Group		
Glenwood Formation, dolomite and sandstone	50	400
St. Peter Sandstone	210	610

A production test was conducted on October 15-16, 1945, by representatives of the driller, the city, and the State Water Survey. After 20 hr of pumping at a rate of 735 gpm, the drawdown was 31.5 ft from a nonpumping water level of 50.0 ft below the top of the casing.

In February 1956, when pumping at 600 gpm, the drawdown was 75 ft from a nonpumping water level of 57 ft.

The pumping equipment presently installed consists of a 100-hp 1750 rpm Byron Jackson submersible electric motor, a 10-in., 8-stage Byron Jackson submersible pump (Model No. ICKH, Serial No. 317627) set at 205 ft, rated at 650 gpm at about 368 ft head, and 205 ft of 6-in. column pipe. The well is equipped with 205 ft of airline.

A mineral analysis made by the Environmental Protection Agency (Lab. No. 02976) of a sample collected November 30, 1971, showed the water to have a hardness of 425 mg/l, total dissolved minerals of 475 mg/l, and an iron content of 0.0 mg/l.

WELL NO. 6, open to the Cambrian-Ordovician aquifer, was completed in August 1955 to a depth of 868 ft by the Layne-Western Co., Aurora. The well is located on the east side of McKinley Ave. north of Harrison St., approximately 440 ft N and 66 ft E of the SW corner of Section 24, T44N, R3E. The land surface elevation at the well is approximately 784 ft.

A 30-in. diameter hole was drilled to a depth of 10 ft, reduced to 25.2 in. between 10 and 112 ft, and finished 19.2 in. in diameter from 112 to 868 ft. The well is cased with 30-in. OD pipe from land surface to a depth of 10 ft, 26-in. OD pipe from land surface to a depth of 27.5 ft, and 20-in. OD pipe from land surface to a depth of 110 ft.

On June 15, 1955, when the well was 560 ft deep, a production test was conducted by representatives of the driller, the State Water Survey, and C. K. Willett, Consulting Engineer. After 6 hr of pumping at rates from 345 to 713 gpm, the final drawdown was 142 ft from a nonpumping water level of 34 ft below the top of the casing. Seven min after pumping was stopped, the water level had recovered to 56 ft.

On August 2, 1955, after the well was completed to its final depth, it was pumped intermittently at rates from 490 to 760 gpm for a period of 4.3 hr, after which it was pumped at 1212 gpm for 3.5 hr resulting in a final pumping level of 124.5 ft from a nonpumping water level of 32 ft below land surface. Forty-five min after pumping was stopped, the water level had recovered to 55 ft.

A sample study summary log of Well No. 6 furnished by the State Geological Survey follows:

Strata	*Thickness (ft)*	*Depth (ft)*
PLEISTOCENE SERIES		
Till, silty, yellowish brown	5	5
Sand, gravelly, fine to very coarse, clean in upper 10 ft	20	25
ORDOVICIAN SYSTEM		
Galena Group		
Dolomite, yellowish to buff, extra fine to medium, crystalline	165	190
Decorah Subgroup		
Dolomite, buff to gray, extra fine to fine, crystalline	28	218
Platteville Group		
Dolomite, buff to gray, extra fine to fine, crystalline	107	325
Ancell Group		
Glenwood Formation		
Sandstone, gray to buff, very coarse to fine, incoherent to compact; dolomite, silty, sandy, light-greenish gray	55	380
St. Peter Sandstone		
Sandstone, white to light gray, very fine to coarse, rounded, incoherent	115	495
Sandstone, light buff, very fine to medium, little coarse, rounded, incoherent, little friable	55	550
Sandstone, light gray to light buff, very fine to coarse, incoherent, little shale at base	38	588
CAMBRIAN SYSTEM		
Potosi Dolomite		
Dolomite, pinkish buff to buff, extra fine to fine, crystalline	72	660
Franconia Formation		
Sandstone, reddish brown to buff, very fine to medium, incoherent to compact; little dolomite at top	57	717
Ironton Sandstone		
Sandstone, white to light gray, very fine to coarse, incoherent, little compact	83	800
Galesville Sandstone		
Sandstone, white to light gray, very fine to medium, little coarse, rounded, incoherent	65	865
Eau Claire Formation		
Shale red	3	868

On December 30, 1966, the well reportedly produced 1000 gpm for about 30 min with a drawdown of 147 ft from a nonpumping water level of 75 ft below land surface.

The pumping equipment presently installed consists of a 125-hp 1750 rpm Byron Jackson submersible electric motor, a 12-in., 6-stage Byron Jackson submersible pump (No. 313756) set at 263 ft, rated at 1000 gpm at about 370 ft TDH, and 263 ft of 8-in. column pipe. The well is equipped with 263 ft of airline.

A mineral analysis made by the Environmental Protection Agency (Lab. No. 02969) of a sample collected November 30, 1971, showed the water to have a hardness of 380 mg/l, total dissolved minerals of 400 mg/l, and an iron content of 0.0 mg/l.

Belvidere Public Well #6 ILD 981960768

Sampled 11/19/85

1,1,1-Trichloroethane	2.6 ppb
Trichloroethylene	2.2 ppb
Tetrachloroethylene	2.6 ppb
1,1 Dichloroethylene	2.7 ppb

Sampled 8/26/86

Trichloroethylene	1.0 ppb
Tetrachloroethylene	1.0 ppb
Methylene Chloride	1.5 ppb

Sampled 7/10/87

Tetrachloroethylene	1.2 ppb

Sampled 8/31/87

Clean

Sampled 10/26/87

1,1 Dichloroethylene	2.0 ppb

Sampled 2/11/88

Tetrachloroethylene	2.0 ppb
Unidentified compound	10.0 ppb

Sampled 4/25/88

Clean

Illinois Environmental Protection Agency

L044200 SPECIAL ORGANIC ANALYSIS FORM

L044200 Date Received

Division DPWS

Sub-Basin Groundwater Network

Time Collected 1215

Collector G.T.White

Date Collected 11-19-85

Mail Report To: Bob Clarke

Facility Name: Belvidere #6

Facility Number: 0070050

Tile Town:

Stream Name(s)

Stream Code:

Source of Sample: (Exact Location) Raw Water Tap

Physical Observations, Remarks:

RECEIVED
FEB 17 1986
DIV. PUBLIC WATER SUPPLIES
ENVIRONMENTAL PROTECTION AGENCY
STATE OF ILLINOIS

Analysis Requested: VOC

Flow 900 gpm	Field Dissolved Oxygen	Field PH 7.66	Field Temp. 11.7

LABORATORY

PWS-GROUNDWATER

Transported by: Reg Watts

Received by:

Transported by:

Received by:

FOR LAB USE ONLY

Lab Number: L044200 Rec'd by: SJ

Date sample rec'd: Time:

Date analysis completed:

Date results forwarded: 2-14-86

Total Tests

S. #44268

COMPOUND	CONCENTRATION (ug/l)
Methylene Chloride	<0.1
1,1-Dichloroethane	<0.1
Dichloroethylene	<0.1
Chloroform	<0.1
1,2-Dichloroethane	<0.1
1,1,1-Trichloroethane	2.6
Carbon Tetrachloride	<0.1
Dichlorobromomethane	<0.1
Trichloroethylene	2.2
Dibromochloromethane	<0.1
Bromoform	<0.1
Tetrachloroethylene	2.6
Benzene	<0.1
Toluene	<0.1
Chlorobenzene	<0.1
Ethylbenzene	<0.1
Xylenes (total)	<0.1
Dichlorobenzene	<0.1
1,1-Dichloroethylene	2.7

S. # 44269 (BLANK)

COMPOUND	CONCENTRATION (ug/l)
Methylene Chloride	<0.1
1,1-Dichloroethane	<0.1
Dichloroethylene	<0.1
Chloroform	<0.1
1,2-Dichloroethane	<0.1
1,1,1-Trichloroethane	<0.1
Carbon Tetrachloride	<0.1
Dichlorobromomethane	<0.1
Trichloroethylene	<0.1
Dibromochloromethane	<0.1
Bromoform	<0.1
Tetrachloroethylene	<0.1
Benzene	<0.1
Toluene	<0.1
Chlorobenzene	<0.1
Ethylbenzene	<0.1
Xylenes (total)	<0.1
Dichlorobenzene	<0.1

4

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D649833
SAMPLING POINT DESC. : BELVIDERE WELL #6

SUBMITTING SOURCE # : SITE # : 0070050
DATE COLLECTED : 860826 TIME COLLECTED : 0830 SAMPLING PROGRAM :

COLLECTED BY : KIM RICHARDSON DELIVERED BY : MAIL
COMMENTS :
FUNDING CODE : PW34 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 0

DATE RECEIVED : 860827 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 2 VOCS REPORTING INDICATOR :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P32106	CHLOROFORM	UG/L :	1.0K
P32101	DICHLOROBROMOMETHANE	UG/L :	1.0K
P32105	CHLORODIBROMOMETHANE	UG/L :	1.0K
P32104	BROMOFORM	UG/L :	1.0K
P34423	METHYLENE CHLORIDE	UG/L :	1.0K
P34501	1,1-DICHLOROETHYLENE	UG/L :	1.0K
P34496	1,1-DICHLOROETHANE	UG/L :	1.0K
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L :	1.0K
P77279	1,2-DICHLOROETHANE	UG/L :	1.0K
P34506	1,1,1-TRICHLOROETHANE	UG/L :	1.0K
P32102	CARBON TETRACHLORIDE	UG/L :	1.0K
P39180	TRICHLOROETHYLENE	UG/L :	1
P34475	TETRACHLOROETHYLENE	UG/L :	1
P34301	CHLOROBENZENE	UG/L :	1.0K
P34716	DICHLOROBENZENE	UG/L :	1.0K
P78124	BENZENE	UG/L :	1.0K
P78131	TOLUENE	UG/L :	1.0K
P78113	ETHYLBENZENE	UG/L :	1.0K
P81551	XYLENE	UG/L :	1.0K

4

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D649834
SAMPLING POINT DESC. : BLANKS W/49831-33

SUBMITTING SOURCE # : SITE # : 0070050
DATE COLLECTED : 860826 TIME COLLECTED : 0830 SAMPLING PROGRAM :

COLLECTED BY : KIM RICHARDSON DELIVERED BY : MAIL
COMMENTS :
FUNDING CODE : PW34 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 0

DATE RECEIVED : 860827 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 2 VOC BLANKS REPORTING INDICATOR :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P32106	CHLOROFORM	UG/L :	1.0K
P32101	DICHLOROBROMOMETHANE	UG/L :	1.0K
P32105	CHLORODIBROMOMETHANE	UG/L :	1.0K
P32104	BROMOFORM	UG/L :	1.0K
P34423	METHYLENE CHLORIDE	UG/L :	1.5
P34501	1,1-DICHLOROETHYLENE	UG/L :	1.0K
P34496	1,1-DICHLOROETHANE	UG/L :	1.0K
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L :	1.0K
P77279	1,2-DICHLOROETHANE	UG/L :	1.0K
P34506	1,1,1-TRICHLOROETHANE	UG/L :	1.0K
P32102	CARBON TETRACHLORIDE	UG/L :	1.0K
P39180	TRICHLOROETHYLENE	UG/L :	1.0K
P34475	TETRACHLOROETHYLENE	UG/L :	1.0K
P34301	CHLOROBENZENE	UG/L :	1.0K
P34716	DICHLOROBENZENE	UG/L :	1.0K
P78124	BENZENE	UG/L :	1.0K
P78131	TOLUENE	UG/L :	1.0K
P78113	ETHYLBENZENE	UG/L :	1.0K
P81551	XYLENE	UG/L :	1.0K

aqualab inc.

ANALYTICAL REPORT

Mr. Jim Grimes
CITY OF BELVIDERE
123 So. State Street
Belvidere IL 61008

07-16-87

Sample No.: 49122

Sample Description: Well #6; Raw

Date Taken: 07-10-87 0745

Date Received: 07-13-87 0930

VOLATILE COMPOUNDS

Acrolein	<10.	ug/L
Acrylonitrile	<10.	ug/L
Benzene	<1.0	ug/L
Bromodichloromethane	<1.0	ug/L
Bromoform	<1.0	ug/L
Bromomethane	<10.	ug/L
Carbon tetrachloride	<1.0	ug/L
Chlorobenzene	<1.0	ug/L
Chloroethane	<10.	ug/L
2-Chloroethylvinyl ether	<1.0	ug/L
Chloroform	<1.0	ug/L
Chloromethane	<10.	ug/L
Dibromochloromethane	<1.0	ug/L
1,2-Dichlorobenzene	<1.0	ug/L
1,3-Dichlorobenzene	<1.0	ug/L
1,4-Dichlorobenzene	<1.0	ug/L
1,1-Dichloroethane	<1.0	ug/L
1,2-Dichloroethane	<1.0	ug/L
1,1-Dichloroethene	<1.0	ug/L
cis-1,2-Dichloroethene	<1.0	ug/L
trans-1,2-Dichloroethene	<1.0	ug/L
1,2-Dichloropropane	<1.0	ug/L
cis-1,3-Dichloropropene	<1.0	ug/L
trans-1,3-Dichloropropene	<1.0	ug/L
Ethyl benzene	<1.0	ug/L
Methylene chloride	<5.0	ug/L
1,1,2,2-Tetrachloroethane	<1.0	ug/L
Tetrachloroethene	1.2	ug/L
Toluene	<1.0	ug/L
1,1,1-Trichloroethane	<1.0	ug/L

William H. Mottashed

William H. Mottashed, Manager
Bartlett Division

aqualab inc.

ANALYTICAL REPORT

Mr. Jim Grimes
CITY OF BELVIDERE
123 So. State Street
Belvidere IL 61008

07-16-87

Sample No.: 49122

Sample Description: Well #6; Raw

Date Taken: 07-10-87 0745

Date Received: 07-13-87 0930

VOLATILE COMPOUNDS

1,1,2-Trichloroethane	<1.0	ug/L
Trichloroethene	<1.0	ug/L
Trichlorofluoromethane	<1.0	ug/L
Vinyl chloride	<10.	ug/L
Xylenes, Total	<1.0	ug/L

William H. Mottashed

William H. Mottashed, Manager
Bartlett Division

FINAL - VERIFIED SAMPLES USED REPORT

FACILITY: 0070050 BELVIDERE
TAP: 04 WH6 C F
RAW SRCE: 11304 W06 SUP SEC24 T44N R3E 440N 66E SWC

SAMPLE NO: 0758784
TAP TRTMNT: NO
CERT LAB:

PROGRAM: VC - VOC

SMPL PRD: 08/87
SMPL TYPE: R
SMPL PURP: 9-VARIANCE
TRIP BLANK: 07587850
ONLINE ENTRY/LIMS TRNSFR: 10/05/87
SMPL LOCTN: BELVIDERE/WELL#6

LIMS PURP: 9
LIMS TYPE: RPMS
LIMS SRCE: 0070050011304
LIMS TRIP: 07587850

COLL DATE: 08/31/87 10:28
COLLECTOR: K RICHARDSON
FUND CODE: PW30
COMMENTS: VOCS

DELIVERED BY: MAIL
LAB RECEIVED: 09/01/87 10:00
RECEIVED BY: LWH
LAB COMPLETED: 09/11/87 18:30
LAB SUPERVISOR: JTH
OBSERVATIONS: 2VOCS

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARD DRINK WTR	STANDARD RAW WTR	TRIGGER LEVEL
431A 00	001	32106	CHLOROFORM	UG/L	1.000 <			
431A 00	002	32101	DICHLOROBROMOMETHA	UG/L	1.000 <			
431A 00	003	32105	CHLORODIBROMOMETHA	UG/L	1.000 <			
431A 00	004	32104	BROMOFORM	UG/L	1.000 <			
431A 00	005	34423	METHYLENE CHLORIDE	UG/L	1.000 <			
431A 00	006	34501	1,1-DICHLOROETHYLE	UG/L	1.000 <	7.XXX		
431A 00	007	34496	1,1-DICHLOROETHANE	UG/L	1.000 <			
431A 00	008	34546	TRANS-1,2-DICHLORO	UG/L	1.000 <			
431A 00	009	77279	1,2-DICHLOROETHANE	UG/L	1.000 <			
431A 00	010	34506	1,1,1-TRICHLOROETH	UG/L	1.000 <	200X.XXX		
431A 00	011	32102	CARBON TETRACHLORI	UG/L	1.000 <	5.XXX		
431A 00	012	39100	TRICHLOROETHYLENE	UG/L	1.000 <	5.XXX		
431A 00	013	34475	TETRACHLOROETHYLEN	UG/L	1.000 <			
431A 00	014	34301	CHLOROBENZENE	UG/L	1.000 <			
431A 00	015	34716	DICHLOROBENZENE	UG/L	1.000 <			
431A 00	016	78128	BENZENE	UG/L	1.000 <	5.XXX		
431A 00	017	78131	TOLUENE	UG/L	1.000 <			
431A 00	018	78113	ETHYLBENZENE	UG/L	1.000 <			
431A 00	019	81551	XYLENE	UG/L	1.000 <			

FINAL - VERIFIED SAMPLES USED REPORT

FACILITY: 0070350 BELVIDERE
TAP: 04 WH6 C F
RAW SRCE: 11304 W06 SUP SEC24 T44N R3E 440N 66E SWC

SAMPLE NO: D758785
TAP TRTMNT: NO
CERT LAB:

PROGRAM: VC - VOC

SMPL PRD: 08/87
SMPL TYPE: R
SMPL PURP: 8-TRIP BLK
TRIP BLANK:
LIMS PURP: 8
LIMS TYPE: RPWS
LIMS SRCE: 0070050041130 4
LIMS TRIP:
ONLINE ENTRY/LIMS TRNSFR: 10/05/87
SMPL LOCTN: BLANK WITH 58781- 58784

COLL DATE: 08/31/87 10:28
COLLECTOR: K RICHARDSON
FUND CODE: PW30
COMMENTS: VOCS

DELIVERED BY: MAIL
LAB RECEIVED: 09/01/87 10:00
RECEIVED BY: LWH
LAB COMPLETED: 09/11/87 18:31
LAB SUPERVISOR: JTH
OBSERVATIONS: 2VOCS

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARD DRINK WTR	STANDARD RAW WTR	TRIGGER LEVEL
431A 00	001	32106	CHLOROFORM	UG/L	1.000 <			
431A 00	002	32101	DICHLOROBROMOMETHA	UG/L	1.000 <			
431A 00	003	32105	CHLORODIBROMOMETHA	UG/L	1.000 <			
431A 00	004	32104	BROMOFORM	UG/L	1.000 <			
431A 00	005	34423	METHYLENE CHLORIDE	UG/L	1.000 <			
431A 00	006	34501	1,1-DICHLOROETHYLE	UG/L	1.000 <	7.XXX		
431A 00	007	34496	1,1-DICHLOROETHANE	UG/L	1.000 <			
431A 00	008	34546	TRANS-1,2-DICHLORO	UG/L	1.000 <			
431A 00	009	77279	1,2-DICHLOROETHANE	UG/L	1.000 <			
431A 00	010	34506	1,1,1-TRICHLOROETH	UG/L	1.000 <	20X.XXX		
431A 00	011	32102	CARBON TETRACHLORI	UG/L	1.000 <	5.XXX		
431A 00	012	39180	TRICHLOROETHYLENE	UG/L	1.000 <	5.XXX		
431A 00	013	34475	TETRACHLOROETHYLEN	UG/L	1.000 <			
431A 00	014	34301	CHLOROBENZENE	UG/L	1.000 <			
431A 00	015	34716	DICHLOROBENZENE	UG/L	1.000 <			
431A 00	016	78124	BENZENE	UG/L	1.000 <	5.XXX		
431A 00	017	78131	TOLUENE	UG/L	1.000 <			
431A 00	018	78113	ETHYLBENZENE	UG/L	1.000 <			
431A 00	019	81551	XYLENE	UG/L	1.000 <			

FINAL - VERIFIED SAMPLES USED REPORT

FACILITY: [redacted] BELVIDERE
TAP: 04 W06 C F
RAW SRCE: 11304 W06 SOC SEC24 T44N R3E 440N 66E 3WC

SAMPLE NO: D760230
TAP TRTMNT: NO
CERT LAB:

PROGRAM: VC - VOC

SMPL PRD: 10/87
SMPL TYPE: R
SMPL PURP: 2-VARIANCE
TRIP BLANK: D76023100
ONLINE ENTRY/LIMS TRNSFR: 03/14/88
SMPL LOCTN: BELVIDERE/WELL 6/MCKINLEY AVE

LIMS PURP: 9
LIMS TYPE: RPW3
LIMS SRCE: 00700500411304
LIMS TRIP: D7602310

COLL DATE: 10/26/87 08:00
COLLECTOR: K RICHARDSON
FUND CODE: PW30
COMMENTS: VOC48

DELIVERED BY: MAIL
LAB RECEIVED: 10/27/87 10:00
RECEIVED BY: D V
LAB COMPLETED: 02/11/88 14:50
LAB SUPERVISOR: JTH
OBSERVATIONS: 2 VOC

ANALYSIS ID	RSLT NO	STORET CD	STORET DESCRIPTION	UNITS	RESULT	STANDARD DRINK WTR	STANDARD RAW WTR	TRIGGER LEVEL
431A 00	001	32106	CHLOROFORM	UG/L	1.000 <			
431A 00	002	32101	DICHLOROBROMOMETHANE	UG/L	1.000 <			
431A 00	003	32105	CHLORODIBROMOMETHANE	UG/L	[illegible] <			
431A 00	004	32104	BROMOFORM	UG/L	1.000 <			
431A 00	005	34423	METHYLENE CHLORIDE	UG/L	[illegible] <			
431A 00	006	34501	1,1-DICHLOROETHYLENE	UG/L	2.000	7.XXX		
431A 00	007	34496	1,1-DICHLOROETHANE	UG/L	[illegible] <	[illegible]		
431A 00	008	34546	TRANS-1,2-DICHLOROET	UG/L	1.000 <			
431A 00	009	77279	1,2-DICHLOROETHANE	UG/L	[illegible] <			
431A 00	010	34506	1,1,1-TRICHLOROETHAN	UG/L	1.000 <	200.XXX		
431A 00	011	32102	CARBON TETRACHLORIDE	UG/L	[illegible] <	[illegible].XXX		
431A 00	012	34488	TRICHLOROETHYLENE	UG/L	1.000 <	5.XXX		
431A 00	013	34475	TETRACHLOROETHYLENE	UG/L	[illegible] <			
431A 00	014	34301	CHLOROBENZENE	UG/L	1.000 <			
431A 00	015	34716	DICHLOROBENZENE	UG/L	[illegible] <			
431A 00	016	76124	BENZENE	UG/L	1.000 <	5.XXX		
431A 00	017	78131	TOLUENE	UG/L	[illegible] <			
431A 00	018	78113	ETHYLBENZENE	UG/L	1.000 <			
431A 00	019	81551	XYLENE	UG/L	[illegible] <			

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D852533
SAMPLING POINT DESC. : BELVIDERE WELL 6 MCKINLEY AVE

SUBMITTING SOURCE # : 0070050041304 SITE # :
DATE COLLECTED : 880211 TIME COLLECTED : 1130 SAMPLING PROGRAM : VC

COLLECTED BY : BIM RICHARDSON DELIVERED BY : MAIL
COMMENTS : VOCS
FUNDING CODE : FV80 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : RFWE SAMPLE PURPOSE CODE : 9 REPORTING INDICATOR : 2

DATE RECEIVED : 880216 TIME RECEIVED : 1000 RECEIVED BY : MSE
LAB OBSERVATIONS : 2 VOC TRIP BL SAM# : D852654
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P32105	CHLOROFORM	UG/L	: 1.0K
P32101	DICHLOROBROMOMETHANE	UG/L	: 1.0K
P32103	CHLORODIBROMOMETHANE	UG/L	: 1.0K
P32104	BROMOFORM	UG/L	: 1.0K
P34423	METHYLENE CHLORIDE	UG/L	: 1.0K
P34501	1,1-DICHLOROETHYLENE	UG/L	: 1.0K
P34499	1,1-DICHLOROETHANE	UG/L	: 1.0K
P34545	TRANS-1,2-DICHLOROETHYLENE	UG/L	: 1.0K
P34531	1,2-DICHLOROETHANE	UG/L	: 1.0K
P34506	1,1,1-TRICHLOROETHANE	UG/L	: 1.0K
P32102	CARBON TETRACHLORIDE	UG/L	: 1.0K
P39180	TRICHLOROETHYLENE	UG/L	: 1.0K
P34475	TETRACHLOROETHYLENE	UG/L	: 2
P34301	CHLOROBENZENE	UG/L	: 1.0K
P34718	DICHLOROBENZENE(TOTAL)	UG/L	: 1.0K
P78124	BENZENE	UG/L	: 1.0K
P78131	TOLUENE	UG/L	: 1.0K
P78115	ETHYLBENZENE	UG/L	: 1.0K
P81551	XYLENE	UG/L	: 1.0K
P73137	PUMPING RATE	GAL/M	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00090	REDOX POTENT	MV	: --
P00400	PH,FIELD	UNITS	: --
P00011	TEMPERATURE,WATER	DEG.C	: --

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D862564
SAMPLING POINT DESC. : BLANK W/62880-88

SUBMITTING SOURCE # : 0070030041.304 SITE # :
DATE COLLECTED : 880211 TIME COLLECTED : 1130 SAMPLING PROGRAM : VC

COLLECTED BY : KIM RICHARDSON DELIVERED BY : MAIL
CONTAINER : VOCS
FUNDING CODE : FN80 AGENCY ROUTING : -- UNIT CODE :
SAMPLE TYPE CODE : TPWS SAMPLE PURPOSE CODE : B REPORTING INDICATOR : E

DATE RECEIVED : 880216 TIME RECEIVED : 1000 RECEIVED BY : YOU
LAB OBSERVATIONS : 1 BLANK(FROZEN) TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P32.03	CHLOROFORM	UG/L	: 1.0K
P32101	DICHLOROBROMOMETHANE	UG/L	: 1.0K
P32105	CHLORODIBROMOMETHANE	UG/L	: 1.0K
P32.04	BROMOFORM	UG/L	: 1.0K
P34423	METHYLENE CHLORIDE	UG/L	: 1.0K
P34501	1,1-DICHLOROETHYLENE	UG/L	: 1.0K
P34.88	1,1-DICHLOROETHANE	UG/L	: 1.0K
P34548	TRANS-1,2-DICHLOROETHYLENE	UG/L	: 1.0K
P34331	1,2-DICHLOROETHANE	UG/L	: 1.0K
P34506	1,1,1-TRICHLOROETHANE	UG/L	: 1.0K
P32102	CARBON TETRACHLORIDE	UG/L	: 1.0K
P39180	TRICHLOROETHYLENE	UG/L	: 1.0K
P34473	TETRACHLOROETHYLENE	UG/L	: 1.0K
P34301	CHLOROBENZENE	UG/L	: 1.0K
P34736	DICHLOROBENZENE(TOTAL)	UG/L	: 1.0K
P78112	BENZENE	UG/L	: 1.0K
P78131	TOLUENE	UG/L	: 1.0K
P78.13	ETHYLBENZENE	UG/L	: 1.0K
P81551	XYLENE	UG/L	: 1.0K
P00187	PUMPING RATE	GAL/M	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00980	REDOX POTENT	MV	: --
P00400	PH,FIELD	UNITS	: --
P00010	TEMPERATURE,WATER	DEG.C	: --

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE.

: UNIDENTIFIED COMPOUND IN D862561 UG/L ; 11 — Belvidere Well #4
: UNIDENTIFIED COMPOUND IN D862563 UG/L ; 10 — Well #6

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D864328
SAMPLING POINT DESC. : BELVIDERE/WELL 6 MCKINLEY AVE

SUBMITTING SOURCE # : 00700500411304 SITE # :
DATE COLLECTED : 880425 TIME COLLECTED : 0849 SAMPLING PROGRAM : VC

COLLECTED BY : K RICHARDSON DELIVERED BY : MAIL
COMMENTS : VOC'S
FUNDING CODE : PW30 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : RPWS SAMPLE PURPOSE CODE : 9 REPORTING INDICATOR : B

DATE RECEIVED : 880426 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 2 VOC TRIP BL SAM# : D864329
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P32106	CHLOROFORM	UG/L	: 1.0K
P32101	DICHLOROBROMOMETHANE	UG/L	: 1.0K
P32105	CHLORODIBROMOMETHANE	UG/L	: 1.0K
P32104	BROMOFORM	UG/L	: 1.0K
P34423	METHYLENE CHLORIDE	UG/L	: 1.0K
P34501	1,1-DICHLOROETHYLENE	UG/L	: 1.0K
P34496	1,1-DICHLOROETHANE	UG/L	: 1.0K
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L	: 1.0K
P34531	1,2-DICHLOROETHANE	UG/L	: 1.0K
P34506	1,1,1-TRICHLOROETHANE	UG/L	: 1.0K
P32102	CARBON TETRACHLORIDE	UG/L	: 1.0K
P39180	TRICHLOROETHYLENE	UG/L	: 1.0K
P34475	TETRACHLOROETHYLENE	UG/L	: 1.0K
P34301	CHLOROBENZENE	UG/L	: 1.0K
P34716	DICHLOROBENZENE(TOTAL)	UG/L	: 1.0K
P78124	BENZENE	UG/L	: 1.0K
P78131	TOLUENE	UG/L	: 1.0K
P78113	ETHYLBENZENE	UG/L	: 1.0K
P81551	XYLENE	UG/L	: 1.0K
P72037	PUMPING RATE	GAL/M	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00090	REDOX POTENT	MV	: --
P00400	PH,FIELD	UNITS	: --
P00010	TEMPERATURE,WATER	DEG.C	: --

4

11304

WELL HEAD SURVEY

RECEIVED
FEB 5 1987
DIV. OF PUBLIC WATER SUPPLIES
ENVIRONMENTAL PROTECTION AGENCY
STATE OF ILLINOIS

Public Water Supply Belvidere #6 0070050

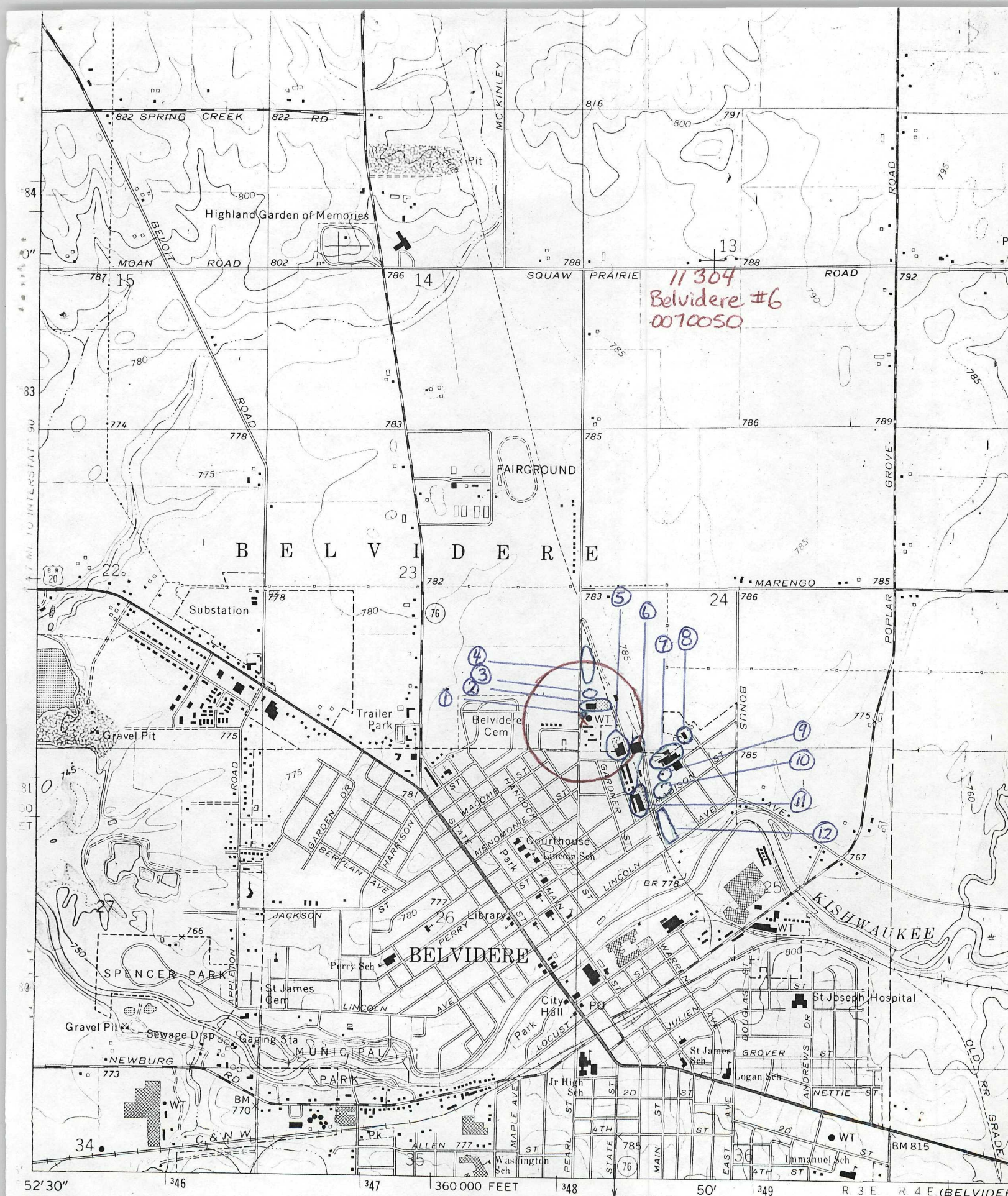
Location Boone Co.

Surveyor White

Date 1-28-87

SUMMARY well on north side of city in Agricultural and Industrial Areq

Hazard	Location
① Water Dept Storage Garage	50' N of well
② Apache Bldg Products Corp	200' N of well
③ IMC Farm Center · Ag Chem and Equipment Storage	400' N of well
④ Construction Equipment Storage	800' N of well
⑤ Central Rubber Co. - Chem Storage	600' SE of well
⑥ Shapert Engineering - Fuel Storage, Equipment and Material Storage	1000' SE of well
⑦ Filter Systems Inc A.K.A. Parson Casket Hardware (State Super Fund Site)	1400' SE of well
⑧ Belvidere Construction - Buried Fuel Storage and Equipment Storage	1600' ESE of well
⑨ E.J. Daniel Area - Large Fuel Storage empty drums of motor oil, full drums of solvent	1600' SE of well
⑩ Sand and Gravel Operation	1800' SE of well
⑪ CamCar Textron Taptite Products	1600' SE of well
⑫ Sanitary Scale Co.	2200' SE of well


11304
Belvidere #6
0070050
SPRING CREEK RD
MC KINLEY
Pit
Highland Garden of Memories
BELOIT ROAD
MOAN ROAD
SQUAW PRAIRIE ROAD
FAIRGROUND
B E L V I D E R E
MARENGO
Substation
Trailer Park
Belvidere Cem
WT
Gravel Pit
GARDEN DR
BERYLAN AVE
HARRISON ST
MADOMB ST
HANCOCK ST
MENOMONEE ST
GARDNER ST
MADISON AVE
BONUS ST
Courthouse
Lincoln Sch
Park
MAIN ST
LINCOLN AVE
BR 778
JACKSON ST
Library
PERRY ST
BELVIDERE
Perry Sch
SPENCER PARK
APPLETON
St James Cem
LINCOLN AVE
City Hall
PO
Park
LOCUST ST
WARREN AVE
JULIEN AVE
DOUGLAS ST
St Joseph Hospital
KISHWAUKEE
Gravel Pit
Sewage Disp
Gaging Sta
MUNICIPAL PARK
NEWBURG RD
St James Sch
GROVER ST
Logan Sch
ANDREWS DR
NETTIE ST
Jr High Sch
BM 770
C & N W
Pk
ALLEN
MAPLE AVE
Washington Sch
PEARL ST
STATE ST
MAIN ST
EAST AVE
Immanuel Sch
BM 815
OLD RR GRADE
POPLAR GROVE
MC KINLEY
52'30"
346
347
360 000 FEET
348
50'
349
R 3 E
R 4 E (BELVIDER
0.6 MI TO U.S. 20
3268
SC
Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1970
Polyconic projection. 1927 North American datum
MN
GN
1000 0 1000 2000

Date: 31 March 88

Time: 8:46 A.M. P.M.

Photograph By:

Timothy J. Murphy

Location: LPC-

Belvidere Public Well #6 Co. Boone

/Belvidere, IL

Comments: Photograph taken

toward the Northeast

Date: 31 March 88

Time: 8:46 A.M. P.M.

Photograph By:

Timothy J. Murphy

Location: LPC-

Belvidere Public Well #6 Co. Boone

/ Belvidere, IL

Comments: Photograph taken

toward the South

L/NPC 24 6/78

Date: 31 March 88

Time: 8:46 (A.M.) P.M.

Photograph By:

Timothy J. Murphy

Location: LPC-

Belvidere Public Well #6 Co. Boone

/Belvidere, IL

Comments: Photograph taken

toward the Northeast

Date: 31 March 88

Time: 8:47 (A.M.) P.M.

Photograph By:

Timothy J. Murphy

Location: LPC-

Belvidere Public Well #6 Co. Boone

/Belvidere, IL

Comments: Photograph taken

toward the east

L/NPC 24 6/78

Date: 31 March 88

Time: 8:48 (A.M.) P.M.

Photograph By:

Timothy J. Murphy

Location: LPC-

Belvidere Public Well #6 Co. Boone

/ Belvidere, IL

Comments: Photograph taken

toward the east-southeast

Date: 31 March 88

Time: 8:48 (A.M.) P.M.

Photograph By:

Timothy J. Murphy

Location: LPC-

Belvidere Public Well #6 Co. Boone

/ Belvidere, IL

Comments: Photograph taken

toward the North

Date: 31 March 88

Time: 8:50 (A.M.) P.M.

Photograph By:

Timothy J. Murphy

Location: LPC-

Belvidere Public Well #6 Co. Boone

/Belvidere, IL

Comments: Photograph taken

toward the Northeast

Date: 31 March 88

Time: 9:00 (A.M.) P.M.

Photograph By:

Timothy J. Murphy

Location: LPC-

Belvidere Public Well #6 Co. Boone

/Belvidere, IL

Comments: Photograph taken

toward the North, Parsons

Casket Hardware in back

ground

L/NPC 24 6/78