SCREENING SITE INSPECTION REPORT
FOR
BELVIDERE PUBLIC WELLS #4, #5, AND #6
BELVIDERE, ILLINOIS
U.S. EPA IDS: ILD981960743/ILD981960750/
ILD981960768
SS IDS: NONE
TDDS: F05-8901-019/F05-8901-018/
F05-8901-017
PANS: FIL0677SB/FIL0676SB/
FIL0675SB

MAY 10, 1990

EPA Region 5 Records Ctr.
293422

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1. *INTRODUCTION*

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct screening site inspections (SSIs) of the Belvidere Public Well #4, #5, and #6 sites under contract number 68-01-7347.

The sites were initially discovered in November 1985 when the monitoring program of the Illinois Environmental Protection Agency (IEPA) Public Water Supplies detected trace amounts of chlorinated solvents in the well samples. The sites were evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared on July 14, 1988, by Timothy J. Murphy of the Springfield office of IEPA (IEPA 1988).

FIT prepared three SSI work plans for the Belvidere Public Well #4, #5, and #6 sites under technical directive documents (TDDs) F05-8901-019, F05-8901-018, F05-8901-017, issued on January 1, 1989. The SSI work plans were approved by U.S. EPA on January 20, 1989. The SSIs of the Belvidere Public Well #4 and #6 sites were conducted on August 29, 1989, under amended TDDs F05-8901-019 and F05-8901-017, issued on May 12, 1989. The SSI of the Belvidere Public Well #5 site was conducted on August 30, 1989, under amended TDD F05-8901-018, issued on May 12, 1989.

The FIT SSIs included interviews with two site representatives, reconnaissance inspections of each of the three sites, visual reconnaissance of the properties of potential responsible parties, the collection of samples from public wells #4, #5, and #6, and the collection of six residential well samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

> All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.
>
> The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained during FIT's SSI work plan preparation, the site representative interviews, and the reconnaissance inspections of the sites.

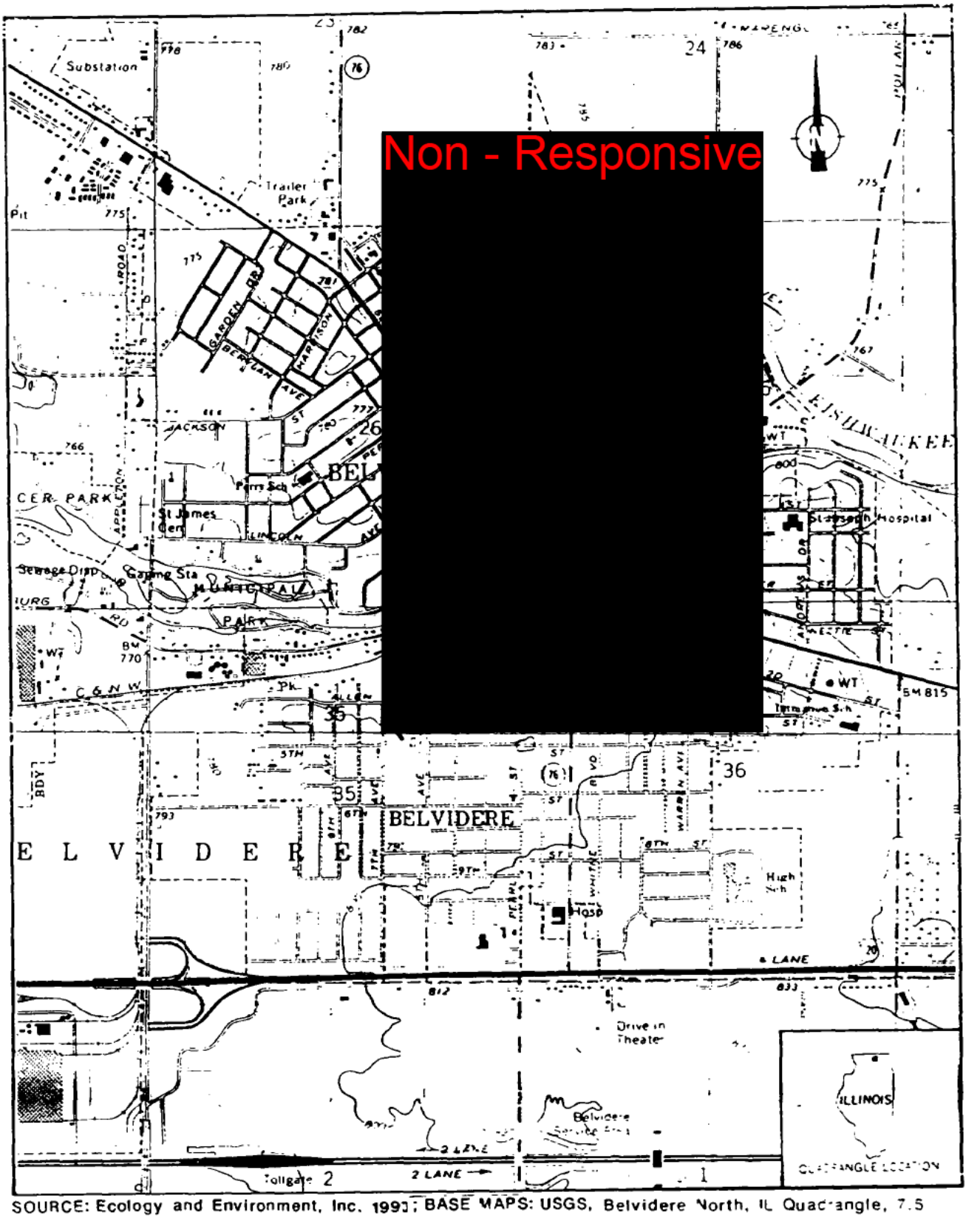
2.2 SITE DESCRIPTIONS

The city of Belvidere is situated in a relatively flat area, and is divided in a general north-northeast to southwest direction by the Kishwaukee River. The Kishwaukee River flows to the west and is a tributary of the Rock River.

Belvidere Public Wells #4, #5, and #6 are three of a total of nine municipal wells used by the city of Belvidere to serve a population of approximately 15,200 (Richardson 1989). Non - Responsive [redacted] A 4-mile radius map of the Belvidere Public Well #4, #5, and #6 sites is provided in Appendix A.

2.3 SITE HISTORY

Belvidere Public Wells #4, #5, and #6 are three of a total of nine municipal wells that are owned and operated by the City of Belvidere, Illinois. Three of these wells--#1, #2, and #3--are backup wells. The



SOURCE: Ecology and Environment, Inc. 1991; BASE MAPS: USGS, Belvidere North, IL Quadrangle, 7.5 Minute Series, 1970; Belvidere South, IL Quadrangle, 7.5 Minute Series, 1968.

SCALE

0 ½ 1 MILE

FIGURE 2-1 SITE LOCATION

city of Belvidere has 4,630 hookups that provide water for approximately 15,200 residents and industrial consumers (Richardson 1989). Water from the city's municipal wells is blended before distribution. The water obtained from municipal wells #4, #5, #6, #7, #8, and #9 is chlorinated, fluoridated, and distributed for consumption and storage in two elevated tanks. The total pumpage is approximately 400 million gallons per day (Murphy 1985).

Well #4 was drilled in 1945 to a depth of 1,800 feet. It is cased to 152 feet, and the pump is set at 352 feet in the St. Peter sandstone formation. On average, Well #4 is pumped approximately 12 hours per day. Well #5 was drilled in 1945 to a depth of 610 feet. It is cased to 152 feet, and the pump is set at 212 feet in the Galena-Platteville dolomite formation. Well #5 also pumps for approximately 12 hours per day. Well #6 was drilled in 1955 to a depth of 870 feet. It is cased to 110 feet, and the pump is set at 382 feet in the St. Peter sandstone formation (IEPA 1988). Generally, this well only pumps once per week (Richardson 1989).

In November 1985, the IEPA's Public Water Supplies monitoring program sampled Belvidere's municipal wells. Analysis of samples documented trace amounts of chlorinated solvents in five of Belvidere's municipal wells, among them wells #4, #5, and #6. In analysis of samples taken in the course of the monitoring, Well #4 showed concentrations of t-1,2-dichloroethylene at 3.9 ppb, 1,1,1-trichloroethane at 1.3 ppb, trichloroethylene at 0.7 ppb, tetrachloroethylene at 0.9 ppb, and 1,1-dichloroethylene at 1.9 ppb. Since 1985, the City of Belvidere has sampled Well #4 seven times, and analysis has continued to detect the presence of three of the five compounds that had been detected in the 1985 analysis (IEPA 1988).

The November 1985 sampling of Well #5 revealed t-1,2-dichloroethylene at a concentration of 0.3 ppb, trichloroethylene at 1.0 ppb, and tetrachloroethylene at 2.0 ppb. Well #5 has also been sampled seven times since 1985, and tetrachloroethylene at 2.0 ppb has been detected three times (IEPA 1988).

The November 1985 tests of Well #6 found 1,1,1-trichloroethane at a concentration of 2.6 ppb, trichloroethylene at 2.2 ppb, tetrachloro-

ethylene at 2.6 ppb, and 1,1-dichloroethylene at 2.7 ppb. Well #6 has also been sampled since the initial documentation of chlorinated solvents. Tetrachloroethylene was detected at a concentration of 2.0 ppb in a sample taken in February 1988, as well as an unidentified compound at 10.0 ppb (IEPA 1988). The 1986 sampling, and all subsequent sampling, was conducted by IEPA, with the exception of the July 10, 1987, sampling, which was performed for IEPA by Aqualab, Inc., of Bartlett, Illinois.

A wellhead survey was performed by Greg White of IEPA on January 28, 1987, to determine possible sources of the contamination detected in the municipal wells. Well #4 is positioned in a mainly residential area. According to the study, seven gas stations or former gas stations, a dry cleaning facility, and a used car dealership were located within distances of between 700 and 1,500 feet of Well #4. The study failed to discover potential sources of contamination within 1,500 feet of Well #5. The study also reported the locations of a building products company, an agricultural chemical dealer, a construction equipment storage facility, a rubber company, and an engineering firm, all within 800 feet of Well #6. A U.S. EPA Superfund site, Filter Systems, Inc., aka Parsons Casket Hardware, is located 1,400 feet from Well #6 (IEPA 1988).

The City of Belvidere currently conducts sampling of its nine municipal wells on a schedule of three wells per month, on a rotating basis. The sampling of wells #4, #5, and #6 most recently preceding the FIT SSIs of the sites was conducted on August 7, 1989. Analysis of a sample from Well #4 showed 1,1,1-trichloroethane at a concentration of 1.8 ppb and dichloromethane at 5.6 ppb. Analysis of a sample from Well #5 showed 1,2-dichloroethane at a concentration of 0.78 ppb, dichloromethane at 6.1 ppb, and tetrachloroethylene at 0.95 ppb. Sampling results from Well #6 showed trichloroethylene at a concentration of 1.5 ppb, 1,1,1-trichloroethane at 1.1 ppb, dichloromethane at 4.4 ppb, and tetrachloroethylene at 5.3 ppb (Environmental Services 1988).

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSIs of the Belvidere Public Well #4, #5, and #6 sites. Individual subsections address the site representative interviews, reconnaissance inspections, and sampling procedures. Rationales for specific FIT activities are also provided. The SSIs were conducted in accordance with the U.S. EPA-approved work plans with the following changes. The work plans for the Belvidere Public Well #4 and #6 sites called for sampling of Well #4, Well #6, and four residential wells in the vicinity of each of these two municipal wells; the work plan for the Belvidere Public Well #5 site called for sampling of Well #5 and three residential wells. Because of the limited number of Belvidere residences using private wells, and the proximity to each other of the Belvidere Public Well #4 and #6 sites, only two residential well samples were collected in the vicinity of each of the three sites.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for each of the three sites, Belvidere Public Wells #4, #5, and #6, is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEWS

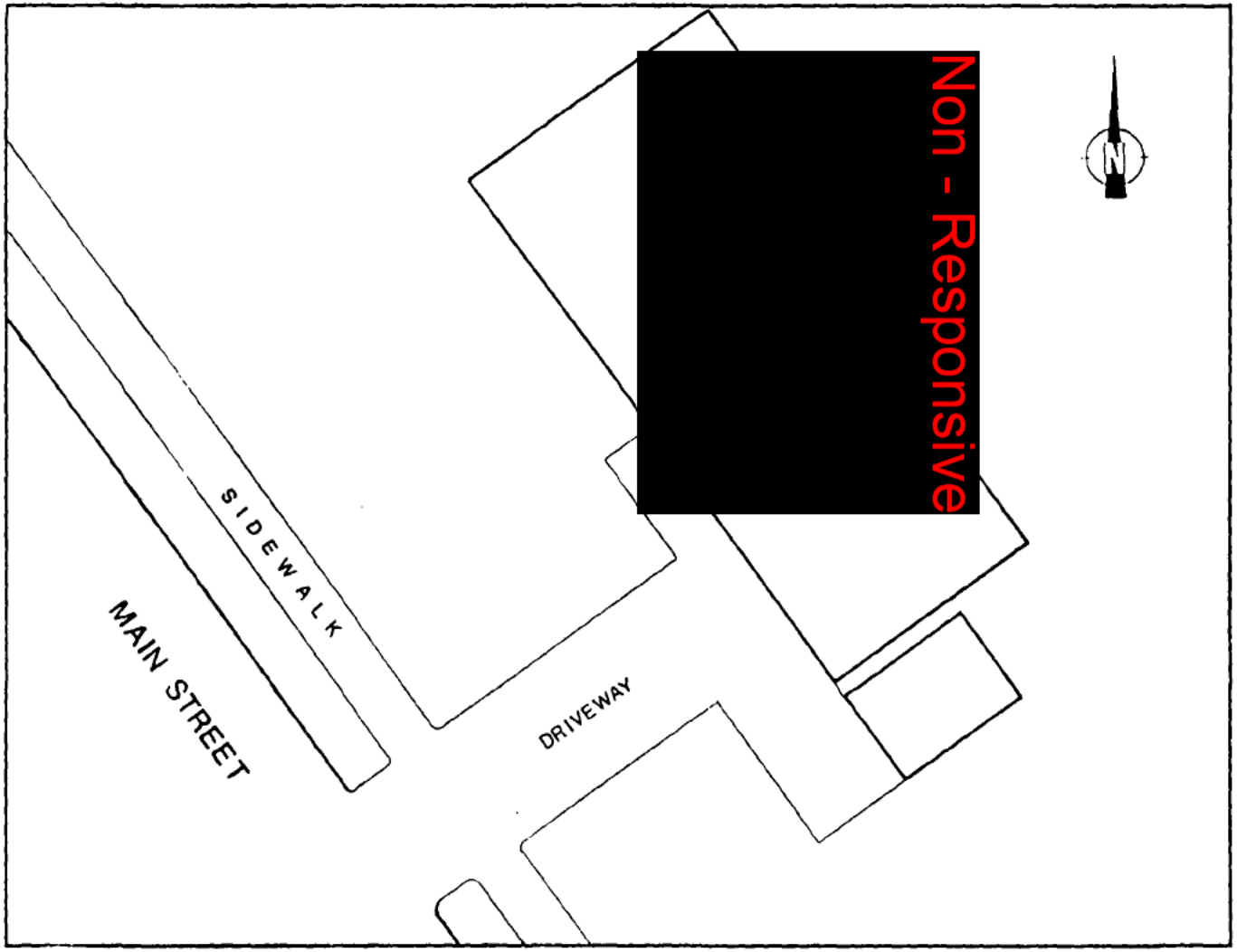
Jennifer L. Dubay, FIT team leader, accompanied by FIT team member Michael McAteer, conducted an interview with site representative Kim Richardson, the well supervisor for the city of Belvidere, on August 28, 1989, at 2:00 p.m. The interview was conducted at the Belvidere City Water Department, 210 Whitney Boulevard, in Belvidere, Illinois. The

city's water superintendent, Jim Grimes, was unable to attend the interview. Dubay conducted a telephone interview with Grimes on September 1, 1989. The interviews were conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTIONS

Non - Responsive

[redacted]



SOURCE: Ecology and Environment, Inc. 1990.

SCALE

0 10 20 30 40 50 FEET

FIGURE 3-1 SITE FEATURES, WELL #4

Non - Responsive

Several industrial facilities are located within a 3-mile radius of Well #5. Non - Responsive Non - Responsive FIT did not observe the storage of any drums or waste on the Champion Manufacturing property. Alan Glenn Oil Company is located on the corner of West Locust Street and Columbia Avenue, Non - Responsive FIT observed a number of large storage tanks and drums stored on Alan Glenn Oil Company property. Belvidere Company is located across the street from Alan Glenn Oil Company on Columbia Avenue. Behind its main buildings, Belvidere Company has stored 20 to 30 drums. FIT was unable to determine the contents of these drums. Louis Silver Scrap Iron and Metal Company is located Non - Responsive Non - Responsive In addition to scrap metal, the company has a pile of 30 to 50 batteries on its property and a large collection of garbage bags.

Non - Responsive

Non - Responsive

Non - Responsive Camcar is a Comprehensive Environmental Response, Compensation, and Liability Act

Non - Responsive

[redacted]

FIGURE 3-2 SITE FEATURES, WELL #5

Non - Responsive

[redacted]

SOURCE: Ecology and Environment, Inc. 1990)

SCALE

0 20 40 60 80 FEET

FIGURE 3-3 SITE FEATURES, WELL #6

(CERCLA) site and has installed monitoring wells on the perimeter of its property. Central Rubber Company is located approximately 750 feet southwest of Well #6. FIT did not observe the storage of any wastes on the Central Rubber Company property.

3.4 SAMPLING PROCEDURES

Groundwater samples were collected by FIT to determine whether U.S. EPA Target Compound List (TCL) compounds and U.S. EPA Target Analyte List (TAL) analytes were present at the sites. The TCL and TAL, with corresponding quantitation/detection limits, are provided in Appendix D.

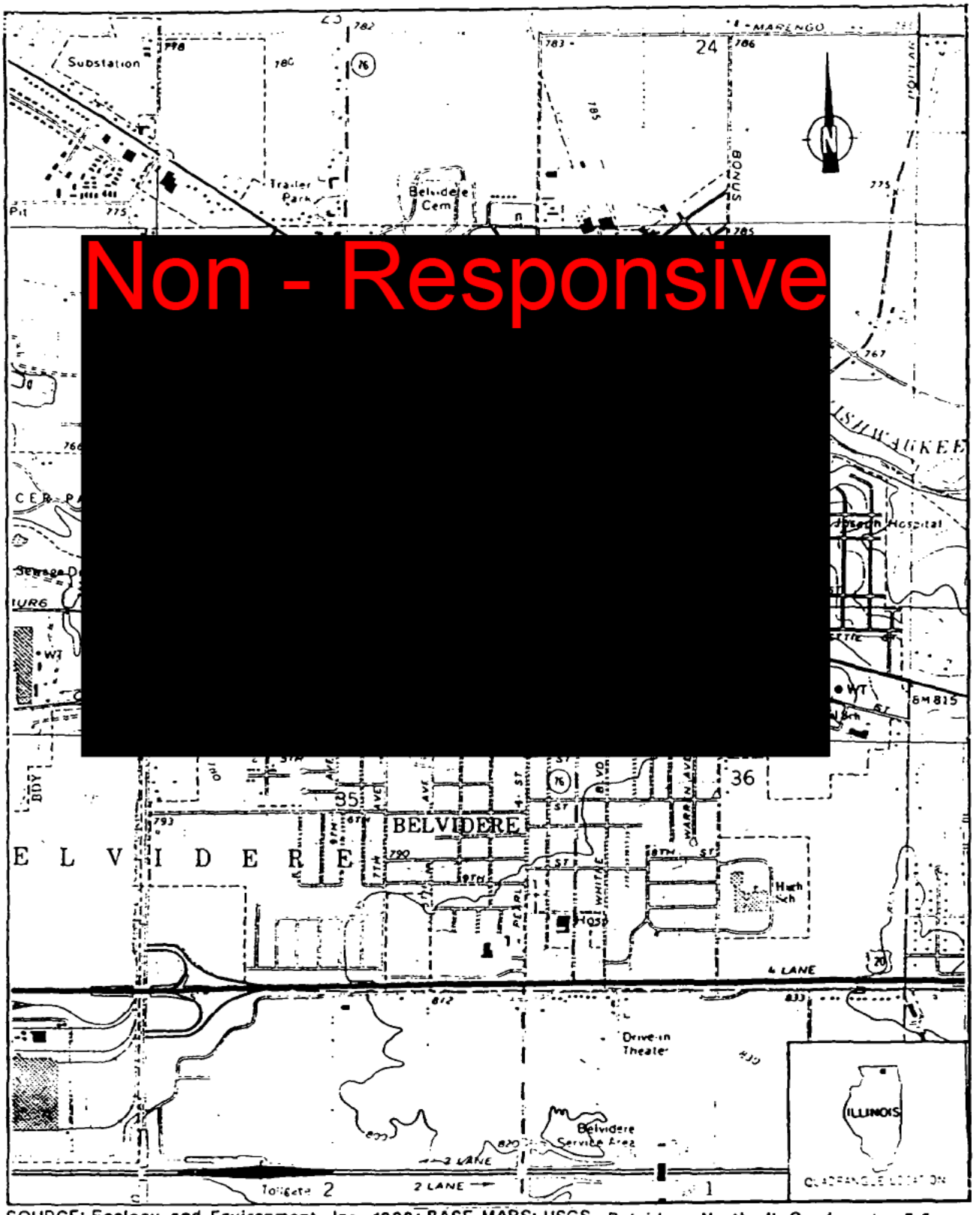
On August 29 and 30, 1989, FIT collected three municipal well samples and six residential well samples, two samples in the vicinity of each municipal well. Portions of the municipal well samples were offered to a site representative, but were declined.

Non - Responsive

[redacted]

Non - Responsive

[redacted]



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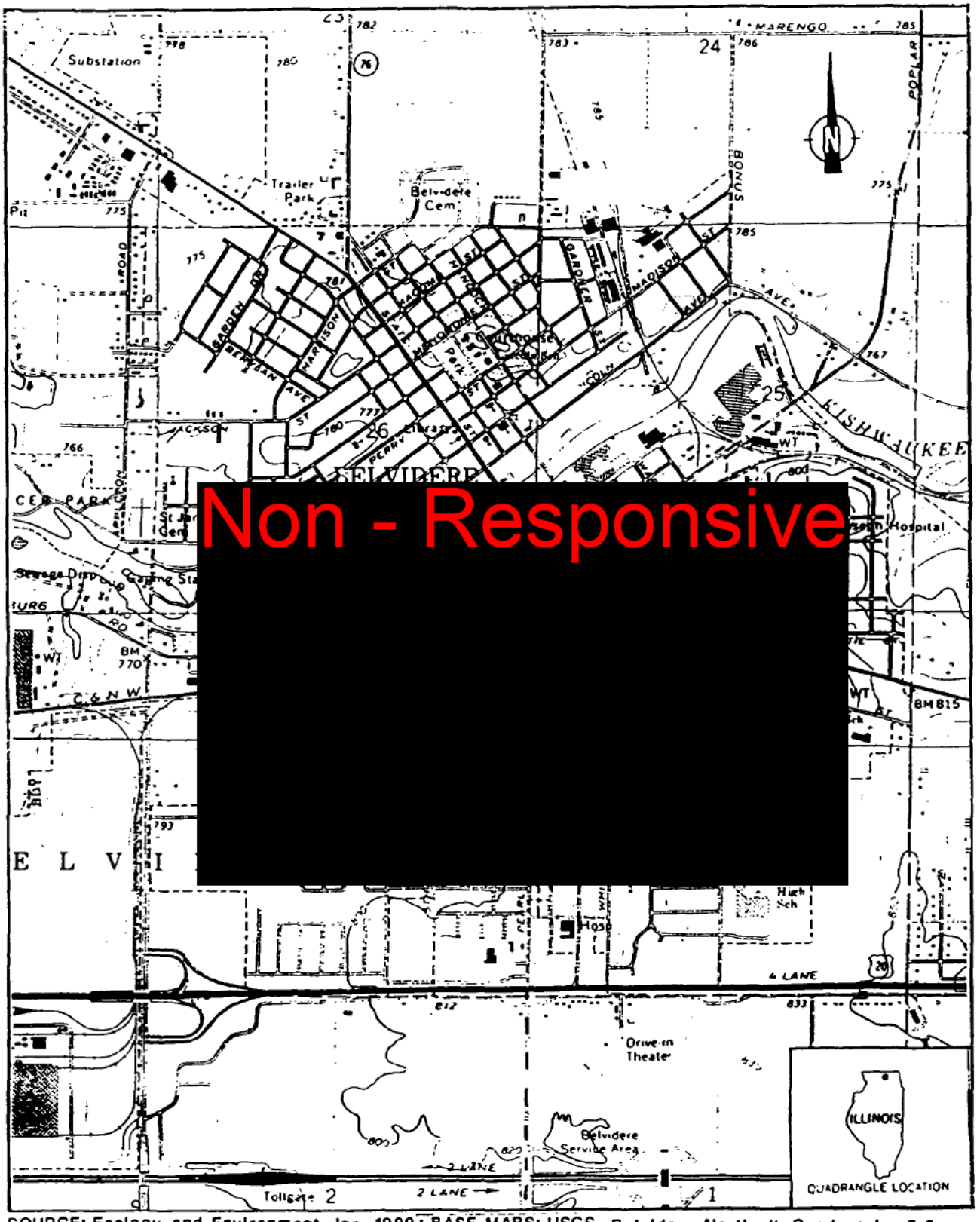
SCALE

0 ½ 1 MILE

FIGURE 3-4 RESIDENTIAL WELL SAMPLING LOCATIONS - WELL #4

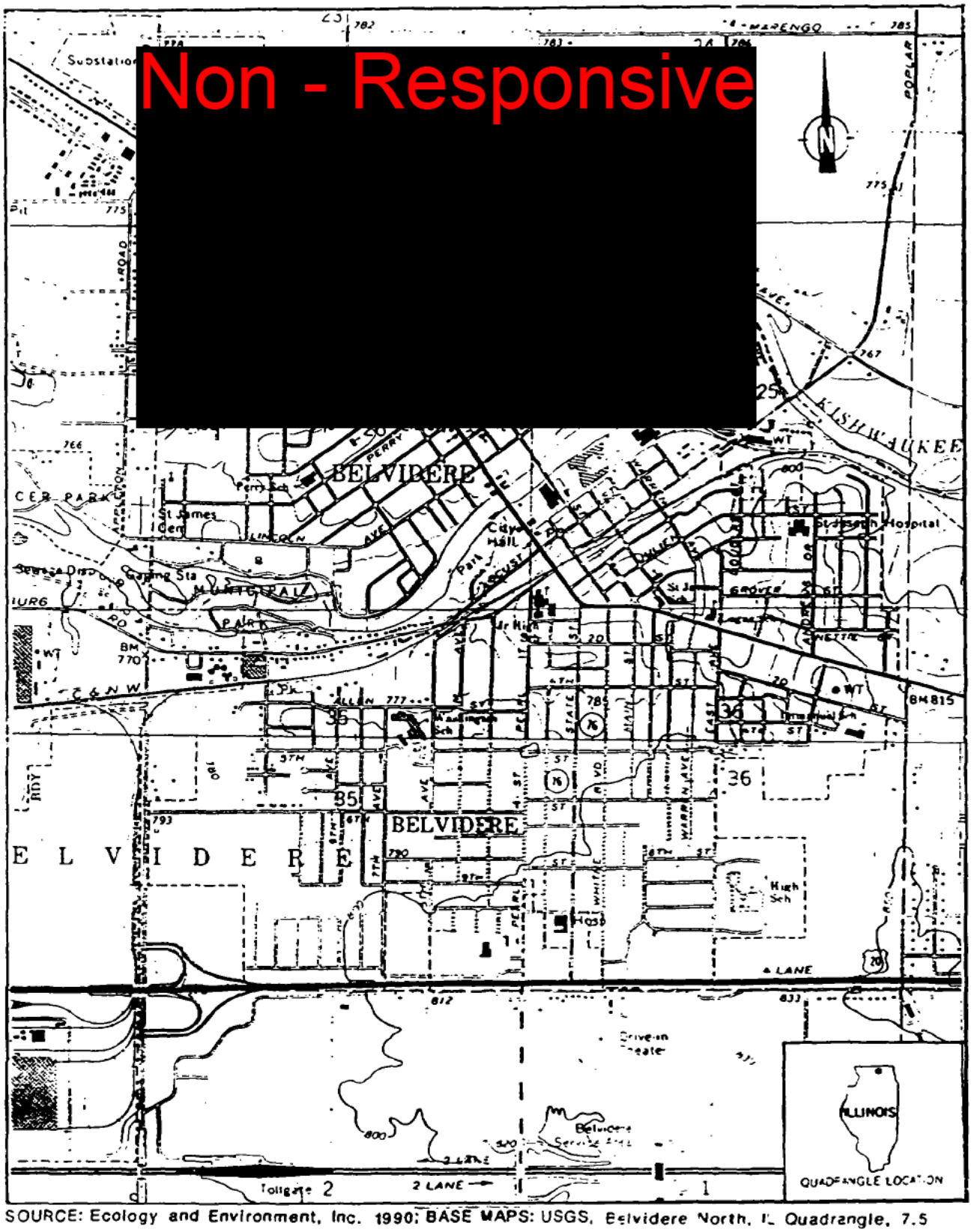


SOURCE: Ecology and Environment, Inc. 1990; BASE MAPS: USGS, Belvidere North, IL Quadrangle, 7.5 Minute Series, 1970; Belvidere South, IL Quadrangle, 7.5 Minute Series, 1968.

SCALE

0 ½ 1 MILE

FIGURE 3-5 RESIDENTIAL WELL SAMPLING LOCATIONS – WELL #5



SOURCE: Ecology and Environment, Inc. 1990; BASE MAPS: USGS, Belvidere North, IL Quadrangle, 7.5 Minute Series, 1970; Belvidere South, IL Quadrangle, 7.5 Minute Series, 1968.

SCALE

0 ½ 1 MILE

FIGURE 3-6 RESIDENTIAL WELL SAMPLING LOCATIONS - WELL #6

4. ANALYTICAL RESULTS

4.1 INTRODUCTION

This section includes results of chemical analysis of FIT-collected municipal and residential well samples for TCL compounds and TAL analytes.

4.2 RESULTS OF CHEMICAL ANALYSIS OF FIT-COLLECTED SAMPLES

Municipal Well Samples. Analysis of the FIT-collected sample from municipal well RW1(4) revealed substances from the following groups of TAL analytes and TCL compounds: halogenated hydrocarbons, aromatics, heavy metals, and common groundwater constituents.

Analysis of the FIT-collected sample from municipal well RW1(5) revealed substances from the following groups of TAL analytes and TCL compounds: halogenated hydrocarbons, heavy metals, and common groundwater constituents.

Analysis of the FIT-collected sample from municipal well RW1(6) revealed substances from the following group of TAL analytes (no TCL compounds were detected): heavy metals (see Tables 4-1, 4-2, and 4-3 for complete groundwater chemical analysis results).

Residential Well Samples. Analysis of FIT-collected samples from residential wells in the vicinity of Well #4 revealed substances from the following groups of TAL analytes and TCL compounds: halogenated hydrocarbons, heavy metals, and common groundwater constituents.

Analysis of FIT-collected samples from residential wells in the vicinity of Well #5 revealed substances from the following groups of TAL

analytes and TCL compounds: halogenated hydrocarbons, phenols, heavy metals, and common groundwater constituents.

Analysis of FIT-collected samples from residential wells in the vicinity of municipal Well #6 revealed substances from the following groups of TAL analytes and TCL compounds: polyaromatic hydrocarbons, heavy metals, and common groundwater constituents (see Tables 4-1, 4-2, and 4-3 for complete groundwater chemical analysis results).

U.S. EPA quantitation/detection limits used in the analysis of municipal and residential well samples are provided in Appendix D.

Table 4-1

RESULTS OF CHEMICAL ANALYSIS OF

FIT-COLLECTED GROUNDWATER SAMPLES--WELL #4

Sample Collection Information and Parameters	Sample Number				
	RW1(4)	RW2(4)	RW(4)	Duplicate(4)	Blank(4)
Date	8/29/89	8/29/89	8/29/89	8/29/89	8/29/89
Time	0945	1440	1145	1145	1300
Well Depths (feet)	1,800	100	100	100	--
CRL Log Number	89FD29S59	89FD29S60	89FD29S62	89FD29D62	89FD11R93
CLP Organic Traffic Report Number	EFS89	EFS90	EFS92	EFS93	EFS94
CLP Inorganic Traffic Report Number	MEFN01	MEFN02	MEFN04	MEFN05	MEFN06
Temperature (°C)	12.0	14.5	14.0	14.0	--
Specific Conductivity (μmhos/cm)	495	430	470	470	--
pH	6.92	7.10	6.9	6.9	--
Compound Detected (values in μg/L)					
Volatile Organics					
1,2-dichloroethene (total)	1J	--	--	--	--
benzene	6	--	--	--	--
tetrachloroethene	1J	--	--	--	--
Analyte Detected (values in μg/L)					
aluminum	43.1B	--	--	--	--
barium	256	45.3B	46.2B	46.5B	--
calcium	84,700	88,400	85,500	85,600	166B
copper	--	11.1J	11.1J	--	59.6
iron	55.7JB	40.5JB	26.8JB	27.8JB	34.1B
magnesium	36,300	35,900	36,200	36,400	25.9B
manganese	10.8	--	--	--	--
potassium	5,150	3,710	2,540	2,820	--
selenium	--	4.2	--	--	--
sodium	13,600	22,200	9,080	9,130	194B
zinc	--	36.4J	26.9J	25.4J	13.4B

-- Not detected.

Table 4-1 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because QC protocol.	Value may be semiquantitative.

Source: Ecology and Environment, Inc. 1990.

Table 4-2

RESULTS OF CHEMICAL ANALYSIS OF

FIT-COLLECTED GROUNDWATER SAMPLES--WELL #5

Sample Collection Information and Parameters	Sample Number				
	RW1(5)	RW2(5)	RW4(5)	Duplicate(5)	Blank(5)
Date	8/30/89	8/30/89	8/30/89	8/30/89	8/30/89
Time	1025	1105	1430	1430	1045
Well Depth (feet)	610	175	120	120	—
CRL Log Number	89FD29S64	89FD29S65	89FD29S67	89FD29D67	89FD11R94
CLP Organic Traffic Report Number	EFS95	EFS96	EFS98	EFS99	EP912
CLP Inorganic Traffic Report Number	MEFN07	MEFN08	MEFN10	MEFN11	MEFN12
Temperature (°C)	12.0	12.5	13.0	13.0	20.0
Specific Conductivity (μhos/cm)	510	510	480	480	1
pH	7.12	6.76	7.31	7.31	6.80
Compound Detected (values in μg/L)					
Volatile Organics					
chloroform	—	1J	—	—	1J
trichloroethene	1J	—	—	—	—
tetrachloroethene	2J	—	—	—	—
Semivolatile Organics					
phenol	1J	1J	—	1J	2
Analyte Detected (values in μg/L)					
aluminum	—	—	—	145	33.9B
barium	173	39.4B	171	170	—
cadmium	—	0.22B	—	—	—
calcium	90,800	88,800	107,800	105,080	32B
iron	219	879	47.6B	57.6B	—
magnesium	41,000	37,400	46,800	46,200	—
manganese	13.6	37.4	11.8	13	—
mercury	0.24JN*	1.0JN*	—	—	0.29JN*
potassium	1,940B	—	1,420B	1,320B	—

Table 4-2 (Cont.)

Sample Collection Information and Parameters	Sample Number RW1(5)	RW2(5)	RW4(5)	Duplicate(5)	Blank(5)
selenium	2.3	--	--	--	--
sodium	19,700	29,700	13,700	13,500	--
zinc	--	180	45.2	44.5	--

-- Not detected.

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	Duplicate value outside QC protocols, which indicates a possible matrix problem.	Value may be quantitative or semi-quantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

Source: Ecology and Environment, Inc. 1990.

Table 4-3

RESULTS OF CHEMICAL ANALYSIS OF

FIT-COLLECTED GROUNDWATER SAMPLES--WELL #6

Sample Collection Information and Parameters	Sample Number				
	RW1(6)	RW2(6)	RW3(6)	Duplicate(6)	Blank(6)
Date	10/29/89	10/29/89	10/29/89	10/29/89	10/29/89
Time	1035	1235	1410	1410	1300
Well Depth (feet)	870	--	--	--	--
CRL Log Number	89FD29S68	89FD29S69	89FD29S70	89FD29D70	89FD11R95
CLP Traffic Report Number	EP913	EP914	EP915	EP916	EFT01
CLP Inorganic Traffic Report Number	MEFN13	MEFN14	MEFN15	MEFN16	MEFN17
Temperature (°C)	12.0	14.0	14.0	14.0	--
Specific Conductivity (μmhos/cm)	465	410	420	420	--
pH	6.80	6.73	6.96	6.96	--
Compound Detected (values in μg/L)					
Semivolatile Organics					
pyrene	--	--	0.1J	--	--
Analyte Detected (values in μg/L)					
barium	154	42.2B	40.8B	39.5B	--
calcium	86,000	88,700	93,400	91,100	--
copper	--	--	--	--	55.4
iron	83.8B	23.4B	--	--	--
magnesium	37,100	40,400	40,700	3,940	--
manganese	4.8B	13.7	--	--	--
potassium	4,610	2,230	2,360	2,260	--
sodium	7,840	3,960	8,100	7,860	--
zinc	--	--	30.3	30.3	10.9B

-- Not detected.

Table 4-3 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIER	DEFINITION	INTERPRETATION
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.

Source: Ecology and Environment, Inc. 1990.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and/or TAL analytes that are possibly attributable to the Belvidere Public Well #4, #5, and #6 sites. The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

TAL analytes were detected in chemical analysis of groundwater samples collected at the sites and the FIT-sampled residential wells. TCL compounds were detected during the analysis of groundwater samples collected from Belvidere Public Well #4 and #5 sites. Results of FIT sampling indicated the presence of the following chlorinated solvents in Well #4: benzene at a concentration of 6 ppb; 1,2-dichloroethane at 1 ppb; and tetrachloroethane at 1 ppb. Sampling results indicated the presence of the following chlorinated solvents in Well #5: trichloroethane at a concentration of 1 ppb and tetrachloroethane at 2 ppb. Chemical analysis failed to detect the presence of TCL compounds in groundwater samples from Well #6 and the six FIT-sampled residential wells. However, because of the variety of past and present industrial activity in the vicinity of the sites, the substances detected cannot be conclusively attributed to any specific source.

A potential exists for TCL compounds and TAL analytes to migrate from the area of the sites to the aquifer of concern (AOC). This

potential is based on the following information concerning the geology of the Belvidere region.

The geology of the area surrounding Belvidere consists of glacial drift overlying Ordovician bedrock formations. The glacial drift beneath the sites extends to a depth of 18 to 45 feet. The drift is comprised of interbedded clay and clay till, as well as sand and gravel. The Galena and Platteville dolomite groups form the bedrock beneath the city of Belvidere. The Galena dolomite extends from a depth of between 45 and 208 feet beneath the overlying glacial drift. Beneath the Galena dolomite, the Platteville dolomite extends from a depth of 208 to 318 feet. The Galena and Platteville dolomite groups are the uppermost in a sequence of hydraulically connected rock (the Cambrian-Ordovician aquifer) in Boone County. In descending order, the bedrock unit consists of the Galena and Platteville dolomite groups, the Glenwood-St. Peter sandstone, the Eminence-Potosi dolomites, the Franconia Formation, and the Ironton-Galesville sandstone (Woller and Sanderson 1974). The regional groundwater flow in the Belvidere area is in the direction of the Kishwaukee River (Simonson 1989).

The AOC is made up of the glacial drift and the Cambrian-Ordovician aquifer. The principal water-yielding unit within this aquifer is the Glenwood-St. Peter sandstone formation. The Glenwood-St. Peter sandstone extends from depths of between 345 and 555 feet (Woller and Sanderson 1974). The depth to the AOC is 10 feet. This is also the depth to groundwater in the area of Well #6. Belvidere's municipal wells are set at depths of between 200 and 350 feet, and the private wells are between 100 and 200 feet in depth. Because of the absence of confining layers between formations, however, the wells may be drawing water from any formation, or from the sand and gravel.

Approximately 15,568 persons are served by groundwater pumped from both municipal and private wells located within a 3-mile radius of the city of Belvidere. This estimate includes the 15,200 persons served by the municipal well systems of Belvidere (Simonson 1989). An additional population of 368 persons within the 3-mile radius of the sites is served by private wells drawing from the AOC. This estimate was made by counting houses on United States Geological Survey (USGS) topographic

maps (USGS 1968, 1970) and multiplying this figure by the 1980 Census average for Boone County of 2.92 persons per household (U.S. Bureau of the Census 1982).

5.3 SURFACE WATER

No surface water samples were collected during the SSI of the Belvidere Public Well #4, #5, and #6 sites. The nearest surface water body to the sites is the Kishwaukee River, Non - Responsive [redacted] Non - Responsive [redacted] The river flows in a westwardly direction and is used for recreation. There are no drinking water intakes on the river within a 4-mile radius of the sites.

5.4 AIR

Air monitoring equipment was not utilized at the Belvidere Public Well #4, #5, and #6 sites, in accordance with the U.S. EPA-approved work plans. FIT file information revealed no indication that air monitoring would be necessary for these sites.

5.5 FIRE AND EXPLOSION

During the FIT reconnaissance inspection of the Belvidere Public Well #4, #5, and #6 sites, no evidence of fire or explosive conditions was observed at the sites. FIT observed no potential for explosion at, or in the vicinity of, the sites.

5.6 DIRECT CONTACT

According to state and FIT file information concerning the Belvidere Public Well #4, #5, and #6 sites, as well as interviews with local officials, there is no documentation of any incident involving direct contact with TCL compounds and/or TAL analytes at any of the three sites.

6. REFERENCES

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E & E, 1987, Quality Assurance Project Plan Region V FIT Conducted Site Inspections, Chicago, Illinois.

Environmental Services, August 18, 1988, laboratory report, for Belvidere Public Well #4, #5, and #6 sites, Oak Creek, Wisconsin.

Grimes, Jim, September 1, 1989, Water Superintendent, city of Belvidere, telephone interview, contacted by Jennifer Dubay of E & E.

IEPA, July 1988, Potential Hazardous Waste Site Preliminary Assessment, for Belvidere Public Well #4, #5, and #6 sites, prepared by Timothy J. Murphy, Springfield, Illinois.

Richardson, Kim, August 28, 1989, Well Supervisor, city of Belvidere, interview, conducted by Jennifer Dubay of E & E.

Simonson, C., October 5, 1989, Illinois Water Department, Rockford, Illinois, telephone conversation, contacted by Jennifer Dubay of E & E.

U.S. Bureau of the Census, 1982, 1980 Census of Population, Volume I, Characteristics of the Population, Illinois.

U.S. EPA, February 12, 1988, Office of Solid Waste and Emergency Response, Pre-Remedial Strategy for Implementing SARA, Directive number 9345.2-01, Washington, D.C.

USGS, 1970, Belvidere North, Illinois Quadrangle, 7.5 Minute Series: 1:24,000, photorevised 1975.

Voller, D. M., and E. W. Sanderson, 1974, Public Groundwater Supplies in Boone County, Illinois State Water Survey, Bulletin 60-6, State of Illinois, Department of Registration and Education.

4339:8

APPENDIX A

SITE 4-MILE RADIUS MAP

Non - Responsive
ecology and environment, inc.
USGS TOPOGRAPHIC MAPS:
CALEDONIA
CHERRY VALLEY
BELVIDERE NORTH
BELVIDERE SOUTH
BELVIDERE
KISHWAUKEE
T 44N
T 43N
R 3E

APPENDIX B

U.S. EPA FORM 2070-13

Site Inspection Report

EPA

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

I. IDENTIFICATION
01 STATE: ILD
02 SITE NUMBER: 981060743

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): Belvidere Public Well #4

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: Non - Responsive

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

09 COORDINATES
LATITUDE: Non - Responsive
LONGITUDE:

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

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 8 / 29 / 89 (MONTH DAY YEAR)

02 SITE STATUS: ■ ACTIVE ☐ INACTIVE

03 YEARS OF OPERATION: 1942 (BEGINNING YEAR) / present (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ■ B. EPA CONTRACTOR Ecology & Environment (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ___ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR ___ (Name of firm) ☐ G. OTHER ___ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jennifer L. Dubay	Natural Resource Manager	Ecology & Environment	(312) 663-9415

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Michael McAteer	Geographer	Ecology & Environment	(312) 663-9415
Nathan Russell	Geologist	Ecology & Environment	(312) 663-9415
Cortney Schmidt	Water Resources Manager	Ecology & Environment	(312) 663-9415
Sam Borries	Geologist	Ecology & Environment	(312) 663-9415
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Jim Grimes	Water Superintendent	210 Whitney Blvd. Belvidere, IL 61008	(815) 544-2766
Kim Richardson	Well Supervisor	210 Whitney Blvd. Belvidere, IL 61008	(815) 544-2766
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)
■ PERMISSION
☐ WARRANT

18 TIME OF INSPECTION: 9:45

19 WEATHER CONDITIONS: mostly cloudy, heavy rain early morning, winds 5-10 mph, temp ~ 75°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Tom Crause	IEPA Land Pollution Control,	(217) 782-9848

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jennifer L. Dubay	U.S. EPA	Ecology & Environment	(312) 663-9415	9 / 18 / 89 (MONTH DAY YEAR)

EPA FORM 2070-

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960743

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 unknown
CUBIC YARDS _____
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			
PSD	PESTICIDES			* Source of contamination
OCC	OTHER ORGANIC CHEMICALS	unknown		unidentified *
IOC	INORGANIC CHEMICALS	unknown		
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown		

IV. HAZARDOUS SUBSTANCES (Give Appendix for most frequently cited CAS numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	See Table 4-1				
	of narrative				

V. FEEDSTOCKS (Give Appendix for CAS numbers) N/A

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)

- SSI of Belvidere Municipal Wells, 8/29/89, 8/30/89
- State and FIT file information, Region 5

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960743

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ■ OBSERVED (DATE: _____) — POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 15,568 — 04 NARRATIVE DESCRIPTION

See narrative subsection 5.2

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See narrative subsection 5.3

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See narrative subsection 5.4

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

See narrative subsection 5.5

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

See narrative subsection 5.6

01 ☐ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A - contaminated municipal wells

01 ■ G. DRINKING WATER CONTAMINATION — 02 ■ OBSERVED (DATE: _____) — POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 15,568 — 04 NARRATIVE DESCRIPTION

See narrative subsection 5.2

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

State and FIT file information as well as the Site rep interview do not indicate any past exposures/injuries
See narrative subsection 5.6

01 ■ I. POPULATION EXPOSURE/INJURY — 02 ■ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 15,568 — 04 NARRATIVE DESCRIPTION

See narrative subsection 5.6

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960743

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

unknown - Source of Contamination unidentified

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

Unknown

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

Unknown

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

unknown

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

unknown

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

unknown

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

unknown

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

See Narrative Subsection 3.4

III. TOTAL POPULATION POTENTIALLY AFFECTED: 15,568

IV. COMMENTS

See Narrative Subsection 2.3

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

- SSI of Belvidere municipal Wells, 8/29/89 - 8/30/89
- State and FIT file information, Region 5

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
FLD	981960743

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
■ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT	unknown	
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER Source of Contamination (Specify)	unidentified	

04 TREATMENT (Check all that apply)
☐ A. INCINERATION
☐ B. UNDERGROUND INJECTION
☐ C. CHEMICAL/PHYSICAL
☐ D. BIOLOGICAL
☐ E. WASTE OIL PROCESSING
☐ F. SOLVENT RECOVERY
☐ G. OTHER RECYCLING/RECOVERY
■ H. OTHER none (Specify)

05 OTHER

■ A. BUILDINGS ON SITE

one

06 AREA OF SITE

unknown (Acres)

07 COMMENTS

See Narrative Subsection 3.4

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one) unknown - Source of contamination unidentified

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

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

unknown

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☐ NO

02 COMMENTS

unknown

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

- SSI of Belvidere municipal wells, 8/29/89 - 8/30/89
- State and FIT file information, Region 5

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981960743

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS: ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ☐	B. ■	A. ☐	B. ☐	C. ■	A. on-site (mi)
NON-COMMUNITY	C. ☐	D. ■	D. ☐	E. ☐	F. ☐	B. 0.10 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

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

02 POPULATION SERVED BY GROUND WATER 15,568 | 03 DISTANCE TO NEAREST DRINKING WATER WELL ~0.5 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
10 (ft)	Southward	~10 (ft)	unknown (gpd)	☐ YES ■ NO

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

See Section 5.2

10 RECHARGE AREA		11 DISCHARGE AREA	
■ YES ☐ NO	COMMENTS: recharged by rainfall	☐ YES ■ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Kishwaukee River	☐	1000 ft (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 11,400 (NO. OF PERSONS)	B. 15,431 (NO. OF PERSONS)	C. 15,568 (NO. OF PERSONS)

02 DISTANCE TO NEAREST POPULATION: 0.10 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: ~1200

04 DISTANCE TO NEAREST OFF-SITE BUILDING: ~0.10 (mi)

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

See Section 2.2.

EPA

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

I. IDENTIFICATION
01 STATE: ILD
02 SITE NUMBER: 981960743

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-4}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ■ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ■ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
45 (ft)	unknown (ft)	unknown

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
2.0 (in)	2.0 (in)	<3 %	N/A	<3 %

09 FLOOD POTENTIAL
SITE IS IN 100 YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. N/A (mi)
OTHER: B. 73 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
73 (mi)
ENDANGERED SPECIES: none

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. ~0.5 (mi)	B. 0.10 (mi)	C. unknown (mi)	D. ~1.0 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See 4-mile radius map - Appendix A

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

State and FIT file information, Region V

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960743

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER VOA	3	Central Regional Laboratory, Chicago, IL	1 Nov 89
Groundwater - organics	3	Hazleton Labs Inc, Madison, WI	1 Nov 89
Groundwater - inorganics	3	Versar Inc, / Springfield, VA	1 Nov 89
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
None	

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND ☐ AERIAL

02 IN CUSTODY OF E & E Chicago
(Name of organization or individual)

03 MAPS ■ YES ☐ NO

04 LOCATION OF MAPS E & E Chicago

V. OTHER FIELD DATA COLLECTED (Attach additional sheets if necessary)

See Table 4.1 for pH, conductivity, and temperature of groundwater samples collected

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

SSI of Belvidere Municipal Wells Aug 29-31, 1989
#4, #5, #6

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960743

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER
City of Belvidere	

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

05 CITY	06 STATE	07 ZIP CODE
Belvidere	IL	61008

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER
N/A	

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

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

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

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

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

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

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

12 CITY	13 STATE	14 ZIP CODE

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

01 NAME	02 D+B NUMBER
N/A	

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

01 NAME	02 D+B NUMBER
N/A	

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

FIT and State file information, Region V

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960743

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME: Jim Grimes - Belvidere Water Dept	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 210 Whitney Blvd.	04 SIC CODE:
05 CITY: Belvidere	06 STATE: IL / 07 ZIP CODE: 61008
08 YEARS OF OPERATION:	09 NAME OF OWNER:

OPERATOR'S PARENT COMPANY (If applicable)

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

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

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

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

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

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

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

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

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

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

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

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

FIT and State file information, Region V

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960743

II. ON-SITE GENERATOR

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

III. OFF-SITE GENERATOR(S)

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

IV. TRANSPORTER(S)

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

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960743

II. PAST RESPONSE ACTIVITIES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960743

II. PAST RESPONSE ACTIVITIES (Continued)

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

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

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

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

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

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

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

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

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

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

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

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION none

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

State and FIT files, Region V

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960743

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ■ YES ☐ NO

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

See Section 2.3

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

SSI of Belvidere municipal wells #4, #5, #6 Aug 29-31, 1989

EPA FORM 2070-13 (7-81)

Site Inspection Report

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960750

II. SITE NAME AND LOCATION

01 SITE NAME	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Belvidere Public Well #5	Non - Responsive				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Belvidere	IL	61008	Boone	007	16

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

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
8 30 89 (MONTH DAY YEAR)	■ ACTIVE ☐ INACTIVE	1945 (BEGINNING YEAR) present (ENDING YEAR) ☐ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ■ B. EPA CONTRACTOR Ecology & Environment (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jennifer L. Dubay	Natural Resource Manager	Ecology & Environment	(312) 663-9415
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Michael McAteer	Geographer	Ecology & Environment	(312) 663-9415
Nathan Russell	Geologist	Ecology & Environment	(312) 663-9415
Cortney Schmidt	Water Resources Manager	Ecology & Environment	(312) 663-9415
Sam Borries	Geologist	Ecology & Environment	(312) 663-9415
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Jim Grimes	Water Superintendent	210 Whitney Blvd. Belvidere, IL 61008	(815) 544-2766
Kim Richardson	Well Supervisor	210 Whitney Blvd. Belvidere, IL 61008	(815) 544-2766
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	10:25	Sunny, wind 6-12 mph, temp ~ 80°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Name/Organization)	03 TELEPHONE NO.
Tom Crouse	IEPA Land Pollution Control	(217) 782-9848

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO	08 DATE
Jennifer L. Dubay	U.S EPA	Ecology & Environment	(312) 663-9415	9 18 89 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960750

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 unknown

CUBIC YARDS _____

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			
PSD	PESTICIDES			* Source of contamination*
OOC	OTHER ORGANIC CHEMICALS	unknown		unidentified
IOC	INORGANIC CHEMICALS	unknown		
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown		

IV. HAZARDOUS SUBSTANCES (Give Appendix for most frequently cited CAS numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	See Table 4-1				
	of narrative				

V. FEEDSTOCKS (Give 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)

- SSI of Belvidere Municipal Wells 8/29/89 - 8/30/89
- State and FIT file information, Region 5

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
FLD	981960750

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ■ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~15,568 — 04 NARRATIVE DESCRIPTION

See narrative subsection 5.2

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See narrative subsection 5.3

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See narrative subsection 5.4

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

See narrative subsection 5.5

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

See narrative subsection 5.6

01 ☐ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A contaminated municipal wells

01 ■ G. DRINKING WATER CONTAMINATION — 02 ■ OBSERVED (DATE: _____) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~15,568 — 04 NARRATIVE DESCRIPTION

See narrative subsection 5.2

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

State and FIT file information as well as the site rep. interview do not indicate any past exposures/injuries
See narrative subsection 5.6

01 ■ I. POPULATION EXPOSURE/INJURY — 02 ■ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 15,568 — 04 NARRATIVE DESCRIPTION

See narrative subsection 5.6

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960750

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

unknown - Source of contamination unidentified

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

unknown

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

unknown

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

unknown

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

unknown

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

unknown

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

unknown

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

See narrative subsection 3.4

III. TOTAL POPULATION POTENTIALLY AFFECTED: 15,568

IV. COMMENTS

See Narrative Subsection 2.3

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

- SSI of Belvidere Municipal Wells, 8/29/89 - 8/30/89
- State and FIT file information, Region 5

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960750

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT	unknown	
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER Source of contamination unidentified (Specify)		

04 TREATMENT (Check all that apply)
☐ A. INCENERATION
☐ B. UNDERGROUND INJECTION
☐ C. CHEMICAL/PHYSICAL
☐ D. BIOLOGICAL
☐ E. WASTE OIL PROCESSING
☐ F. SOLVENT RECOVERY
☐ G. OTHER RECYCLING/RECOVERY
■ H. OTHER none (Specify)

05 OTHER

☐ A. BUILDINGS ON SITE

one

06 AREA OF SITE

unknown

07 COMMENTS

See Narrative Subsection 3.4

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one) unknown - Source of contamination unidentified.

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

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

unknown

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☐ NO

02 COMMENTS

unknown

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

- SSI of Belvidere municipal wells, 8/29/89 - 8/30/89
- State and FIT file information, Region 5

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981960750

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

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

02 STATUS

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

03 DISTANCE TO SITE

A. on-site (mi)
B. 0.5 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

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

02 POPULATION SERVED BY GROUND WATER 15,568

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.5 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
10 (ft)	Northward	10 (ft)	unknown (gpm)	☐ YES ■ NO

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

See Narrative Section 5.2

10 RECHARGE AREA		11 DISCHARGE AREA	
■ YES ☐ NO	COMMENTS recharged by rainfall	YES ■ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Kishwaukee River	☐	3000 ft. (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 11,400 (NO. OF PERSONS)	B. 66,431 (NO. OF PERSONS)	C. 15,568 (NO. OF PERSONS)

02 DISTANCE TO NEAREST POPULATION 0.10 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE ~1000

04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.10 (mi)

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

See Section 2.2

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981960750

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. 10^{-6} – 10^{-4} cm/sec ☐ B. 10^{-4} – 10^{-4} cm/sec ■ C. 10^{-4} – 10^{-3} cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Greater than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE (10^{-4} – 10^{-6} cm/sec) ■ C. RELATIVELY PERMEABLE (10^{-2} – 10^{-4} cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
45 (ft)	unknown (ft)	unknown

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
2.0 (in)	2.0 (in)	<3 %	N/A	<3 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. N/A (mi)

OTHER: B. 73 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

73 (mi)

ENDANGERED SPECIES: none

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	(RESIDENTIAL AREAS) NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 0.5 (mi)	B. 0.10 (mi)	C. unknown (mi)	D. ~1.0 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See 4-mile radius map – Appendix A

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

State and FIT file information, Region V

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960750

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER - VOA	3	Central Regional Laboratory, Chicago, IL	1 Nov 89
Groundwater organic	3	Hazleton Labs, Inc., Madison, WI	1 Nov 89
Groundwater inorganic	3	Versar, Inc, Springfield, VA	1 Nov 89
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND ☐ AERIAL

02 IN CUSTODY OF E & E Chicago

03 MAPS ■ YES ☐ NO

04 LOCATION OF MAPS E & E Chicago

V. OTHER FIELD DATA COLLECTED

See Table 4.1 for pH, conductivity, and temperature of groundwater samples collected

VI. SOURCES OF INFORMATION

SSI of Belvidere Municipal Wells #4, #5, #6 Aug 29-31, 1989

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960750

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER
City of Belvidere	

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

05 CITY	06 STATE	07 ZIP CODE
Belvidere	IL	61008

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER
NA	

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER
NA	

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

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

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

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER
NA	

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

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

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

12 CITY	13 STATE	14 ZIP CODE

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

01 NAME	02 D+B NUMBER
Same	

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

01 NAME	02 D+B NUMBER
NA	

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

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

05 CITY	06 STATE	07 ZIP CODE

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

FIT files, Region V

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960750

II. CURRENT OPERATOR

01 NAME: Jim Grimes - Belvidere Water Dept	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 210 Whitney St.	04 SIC CODE:
05 CITY: Belvidere	06 STATE: IL
07 ZIP CODE: 61008	
08 YEARS OF OPERATION:	09 NAME OF OWNER:

OPERATOR'S PARENT COMPANY

10 NAME: N/A	11 D+B NUMBER:
12 STREET ADDRESS (P.O. Box, RFD #, etc.):	13 SIC CODE:
14 CITY: /	15 STATE:
16 ZIP CODE:	

III. PREVIOUS OPERATOR(S)

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

PREVIOUS OPERATORS' PARENT COMPANIES

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

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

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

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

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

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

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

IV. SOURCES OF INFORMATION

FIT and State file information, Region V

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960750

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
N/A	

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

05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
N/A			

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

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

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

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

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
N/A			

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

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

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

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

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960750

II. PAST RESPONSE ACTIVITIES

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960750

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

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

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

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

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: none

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

State and FIT files, Region V

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960750

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ■ YES ☐ NO

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

See Section 2.3

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

SSI of Belvidere municipal wells # 4, #5, #6 Aug 29-31, 1989

EPA FORM 2070-13 (7-81)

Site Inspection Report

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981916 0768

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Belvidere Public Well #6	Non - Responsive				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Belvidere	IL	61008	Boone	007	16

09 COORDINATES	10 TYPE OF OWNERSHIP (Check one)
LATITUDE Non - Responsive LONGITUDE	☐ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ● E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
8 / 29 / 89 (MONTH DAY YEAR)	■ ACTIVE ☐ INACTIVE	1955 / present (BEGINNING YEAR / ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ■ B. EPA CONTRACTOR Ecology & Environment (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ___ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR ___ (Name of firm) ☐ G. OTHER ___ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jennifer L. Dubay	Natural Resource Manager	Ecology & Environment	(312) 663-9415
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Michael McAteer	Geographer	Ecology & Environment	(312) 663-9415
Nathan Russell	Geologist	Ecology & Environment	(312) 663-9415
Cortney Schmidt	Water Resources Manager	Ecology & Environment	(312) 663-9415
Sam Borries	Geologist	Ecology & Environment	(312) 663-9415
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Jim Grimes	Water Superintendent	210 Whitney Blvd. Belvidere, IL 61008	(815) 544-2766
Kim Richardson	Well Supervisor	210 Whitney Blvd. Belvidere, IL 61008	(815) 544-2766
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	10:35	mostly cloudy, heavy rain early morning, winds 5-10 mph, temp ~75°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Name/Organization)	03 TELEPHONE NO.
Tom Crause	IEPA - Land Pollution Control	(217) 782-9841

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jennifer L. Dubay	U.S. EPA	Ecology & Environment	(312) 663-9415	9 / 18 / 89 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	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 unknown
CUBIC YARDS _____
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			
PSD	PESTICIDES			* Source of contamination
OCC	OTHER ORGANIC CHEMICALS	unknown		unidentified *
IOC	INORGANIC CHEMICALS	unknown		
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown		

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	See Table 4-1				
	of narrative				

V. FEEDSTOCKS (See Appendix for CAS numbers) N/A

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)

- SSI of Belvidere municipal wells #4, #5, #6 8-29 - 8/30, 1989
- State and FIT file information, Region V

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960768

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ■ OBSERVED (DATE: _____) — POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 15,568 — 04 NARRATIVE DESCRIPTION

See Narrative Subsection 5.2

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See narrative subsection 5.3

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

See narrative Subsection 5.4

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

See narrative Subsection 5.5

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

See narrative Subsection 5.6

01 ☐ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

N/A - contaminated municipal wells

01 ■ G. DRINKING WATER CONTAMINATION — 02 ■ OBSERVED (DATE: _____) — POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 15,568 — 04 NARRATIVE DESCRIPTION

See Narrative subsection 5.2

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

State and FIT file information as well as the site rep. interview do not indicate any past exposures/injuries
See Narrative subsection 5.6

01 ■ I. POPULATION EXPOSURE/INJURY — 02 ■ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 15,568 — 04 NARRATIVE DESCRIPTION

See Narrative Subsection 5.6

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION 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

unknown – source of contamination unidentified

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

unknown

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

unknown

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

unknown

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

unknown

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

unknown

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

unknown

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

See Narrative subsection 3.4

III. TOTAL POPULATION POTENTIALLY AFFECTED: 15,568

IV. COMMENTS

See Narrative subsection 2.3

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

- SSI of Belvidere municipal wells #4, #5, #6 8/29/89-8/30/89
- State and FIT file information, Region V

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960768

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT	unknown	
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER Source of contamination is unidentified (Specify)		

04 TREATMENT (Check all that apply)
☐ A. INCENERATION
☐ B. UNDERGROUND INJECTION
☐ C. CHEMICAL/PHYSICAL
☐ D. BIOLOGICAL
☐ E. WASTE OIL PROCESSING
☐ F. SOLVENT RECOVERY
☐ G. OTHER RECYCLING/RECOVERY
■ H. OTHER none (Specify)

05 OTHER

■ A. BUILDINGS ON SITE

two

06 AREA OF SITE

unknown (Acres)

07 COMMENTS

See Narrative subsection 3.4

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one) unknown- Source of contamination unidentified.

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

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

unknown

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☐ NO

02 COMMENTS

unknown

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

- SSI of Belvidere Municipal Wells #4, #5, #6 8/29/89 - 8/30/89
- State and FIT file information, Region V

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981960768

II. DRINKING WATER SUPPLY

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

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

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

02 POPULATION SERVED BY GROUND WATER 15,568 | 03 DISTANCE TO NEAREST DRINKING WATER WELL 0.5 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
10 (ft)	southward	10 (ft)	unknown (gpd)	☐ YES ■ NO

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

See narrative Section 5.2

10 RECHARGE AREA		11 DISCHARGE AREA	
■ YES ☐ NO	COMMENTS recharged by rainfall	YES ■ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Kishwaukee River	☐	3500 ft (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 11,400 (NO. OF PERSONS)	B. 15,431 (NO. OF PERSONS)	C. 15,568 (NO. OF PERSONS)

02 DISTANCE TO NEAREST POPULATION 0.4 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE ~1000 | 04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.2 (mi)

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

See Section 2.2

EPA

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

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

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ■ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ■ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
45 (ft)	unknown (ft)	unknown

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
2.0 (in)	2.0 (in)	<3 %		<3 %

09 FLOOD POTENTIAL
SITE IS IN 100 YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. N/A (mi)
OTHER: B. 73 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

73 (mi)
ENDANGERED SPECIES: none

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 0.4 (mi)	B. 0.4 (mi)	C. unknown (mi)	D. 0.5 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See 4-mile radius map - Appendix A

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

State and FIT file information, Region V

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960768

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER - VOA	3	Central Regional Laboratory, Chicago, IL	1Nov89
organic	3	Hazleton Labs, Inc, Madison, WI	1Nov89
inorganic	3	Versar, Inc Springfield, VA	1Nov89
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
NONE	

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND ☐ AERIAL

02 IN CUSTODY OF E & E Chicago (Name of organization or individual)

03 MAPS ■ YES ☐ NO

04 LOCATION OF MAPS E & E - Chicago

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

See Table 4.1 for pH, conductivity, and temperature of groundwater samples collected

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

SSI of Belvidere Municipal wells #4, #5, #6 8/29/89 - 8/30/89

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960768

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME City of Belvidere		02 D+B NUMBER		09 NAME NA		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 123 South Stak St.		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY Belvidere	06 STATE IL	07 ZIP CODE 61008		12 CITY	13 STATE	14 ZIP CODE	
01 NAME		02 D+B NUMBER		09 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	
01 NAME		02 D+B NUMBER		09 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	
01 NAME		02 D+B NUMBER		09 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	

III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (if applicable; list most recent first)			
01 NAME Same		02 D+B NUMBER		01 NAME N/A		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	

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

FIT and State file information, Region II

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960768

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME: Jim Gimes - Belvidere Water Dept	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 210 Whitney St.	04 SIC CODE:
05 CITY: Belvidere	06 STATE: IL
07 ZIP CODE: 61008	
08 YEARS OF OPERATION:	09 NAME OF OWNER:

OPERATOR'S PARENT COMPANY (If applicable)

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

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

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

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

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

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

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

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

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

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

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

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

FIT and State file information, Region V

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960768

II. ON-SITE GENERATOR

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

III. OFF-SITE GENERATOR(S)

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

IV. TRANSPORTER(S)

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

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960768

II. PAST RESPONSE ACTIVITIES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960768

II. PAST RESPONSE ACTIVITIES (Continued)

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

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

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

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

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

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

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

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

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

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

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

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION none

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

FIT and State files, Region V

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981960768

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ■ YES ☐ NO

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

See Section 2.3

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

SSI of Belvidere municipal wells #4, #5, #6 8/29/89-8/30/89

EPA FORM 2070-13 (7-81)

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere Municipal Well #4 PAGE 1 OF 14

U.S. EPA ID: ILD 981960743 TDD: F-05-8901-019 PAN: FIL0677SB

DATE: 8/29/89

TIME: 9:45

DIRECTION OF PHOTOGRAPH: South

WEATHER CONDITIONS: raining ~75°F

PHOTOGRAPHED BY: M. McAteer

SAMPLE ID (if applicable): Well #4

Non - Responsive

[redacted]

DESCRIPTION: Close-up view of Municipal Well #4 Sample

DATE: 8/29/89

TIME: 9:45

DIRECTION OF PHOTOGRAPH: South

WEATHER CONDITIONS: raining ~75°F

PHOTOGRAPHED BY: M. McAteer

SAMPLE ID (if applicable): Well #4

Non - Responsive

[redacted]

DESCRIPTION: perspective view of Municipal Well #4

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere Municipal Well #4 PAGE OF

U.S. EPA ID: ILD 981960743 TDD: F-05-8901-019 PAN: FIL06775B

DATE: 8/29/89

TIME: 14:40

DIRECTION OF PHOTOGRAPH: southeast

WEATHER CONDITIONS: Sunny ~ 75°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): RW2

Non - Responsive

[redacted]

DESCRIPTION: close-up view of residential well sample #2

DATE: 8/29/89

TIME: 14:45

DIRECTION OF PHOTOGRAPH: North

WEATHER CONDITIONS: Sunny ~ 75°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): RW2

Non - Responsive

[redacted]

DESCRIPTION: perspective view of residential well #2 location

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere Municipal Well #4 PAGE OF

U.S. EPA ID: ILD981960743 TDD: F-05-8901-019 PAN: FIL0677SB

DATE: 8/29/89

TIME: 1145

DIRECTION OF PHOTOGRAPH: west

WEATHER CONDITIONS: overcast 275°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): RW4

Non - Responsive

[redacted]

DESCRIPTION: Close-up view of residential well sample #4

DATE: 8/29/89

TIME: 11:45

DIRECTION OF PHOTOGRAPH: west

WEATHER CONDITIONS: overcast 275°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): RW4

Non - Responsive

[redacted]

DESCRIPTION: perspective photo of residential well #4 location

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere Municipal Well #5 PAGE OF

U.S. EPA ID: ILD981960750 TDD: F-05-8901-018 PAN: FIL06765B

DATE: 8/30/89

TIME: 1130

DIRECTION OF PHOTOGRAPH: south

WEATHER CONDITIONS: Sunny ~ 73°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): Well #5

Non - Responsive

[redacted]

DESCRIPTION: close-up view of Well #5

DATE: 8/30/89

TIME: 1130

DIRECTION OF PHOTOGRAPH: south

WEATHER CONDITIONS: Sunny ~ 73°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): Well #5

Non - Responsive

[redacted]

DESCRIPTION: Perspective photo of Well #5

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere municipal Well #5 PAGE - OF

U.S. EPA ID: ILD981960750 TDD: F-05-8901-018 PAN: FILD676SB

DATE: 8/30/89

TIME: 1105

DIRECTION OF PHOTOGRAPH: North

WEATHER CONDITIONS: Sunny ~ 73°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): RW2

Non - Responsive

[redacted]

DESCRIPTION: Close-up view of residential well sample #2

DATE: 8/30/89

TIME: 1105

DIRECTION OF PHOTOGRAPH: North

WEATHER CONDITIONS: Sunny ~ 73°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): RW2

Non - Responsive

[redacted]

DESCRIPTION: perspective view of residential well #2 sampling location

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere Municipal Well #5 PAGE OF

U.S. EPA ID: ILD981960750 TDD: F-05-8901-018 PAN: FIL0676SB

DATE: 8/30/89

TIME: 1430

DIRECTION OF PHOTOGRAPH: South

WEATHER CONDITIONS: Sunny ~73°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): RW4

Non - Responsive

[redacted]

DESCRIPTION: Close-up view of residential well sample #4

DATE: 8/30/89

TIME: 1430

DIRECTION OF PHOTOGRAPH: east

WEATHER CONDITIONS: Sunny ~73°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): RW4

Non - Responsive

[redacted]

DESCRIPTION: perspective view of residential well #4 Sampling location

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere Municipal Well #6 PAGE OF

U.S. EPA ID: ILD981960768 TDD: F-05-8901-017 PAN: FIL067553

DATE: 8/29/89

TIME: 1045

DIRECTION OF PHOTOGRAPH: east

WEATHER CONDITIONS: overcast - 75°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): Well #6

DESCRIPTION: close-up view of Belvidere Well #6

Non - Responsive

[redacted]

DATE: 8/29/89

TIME: 1045

DIRECTION OF PHOTOGRAPH: east

WEATHER CONDITIONS: overcast 275°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): Well #6

Non - Responsive

[redacted]

DESCRIPTION: perspective photo of Belvidere Well #6

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere Municipal Well #6 PAGE OF

U.S. EPA ID: ILD981960768 TDD: F-05-8901-017 PAN: FIL0675553

DATE: 8/29/89

TIME: 1245

DIRECTION OF PHOTOGRAPH: south

WEATHER CONDITIONS: overcast 275°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): RW2

Non - Responsive

[redacted]

DESCRIPTION: close-up view of residential well sample #2

DATE: 8/29/89

TIME: 1245

DIRECTION OF PHOTOGRAPH: south

WEATHER CONDITIONS: overcast ~75°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): RW2

Non - Responsive

[redacted]

DESCRIPTION: perspective photo of residential well #2 location

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere Municipal Well #6 PAGE OF

U.S. EPA ID: ILD981960768 TDD: F-05-8901-017 PAN: FIL0675SB

DATE: 8/29/89

TIME: 1410

DIRECTION OF PHOTOGRAPH: east

WEATHER CONDITIONS: Sunny ~ 75°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): RW3

Non - Responsive

[redacted]

DESCRIPTION: close-up of residential well sample #3

DATE: 8/29/89

TIME: 1410

DIRECTION OF PHOTOGRAPH: west

WEATHER CONDITIONS: Sunny ~ 75°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): RW3

Non - Responsive

[redacted]

DESCRIPTION: perspective photo of residential well #3 location

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere municipal wells #4, #5, #6 PAGE 1 OF 1

U.S. EPA ID: ILD981960743 TDD: F-05-8901-019 PAN: FI2067758

DATE: 8/30/89

TIME: 12:00

DIRECTION OF PHOTOGRAPH: Northwest

WEATHER CONDITIONS: Sunny 273°F

PHOTOGRAPHED BY: D. Dubay

SAMPLE ID (if applicable): NA

DESCRIPTION: Champion Manufacturing Company

DATE: 8/30/89

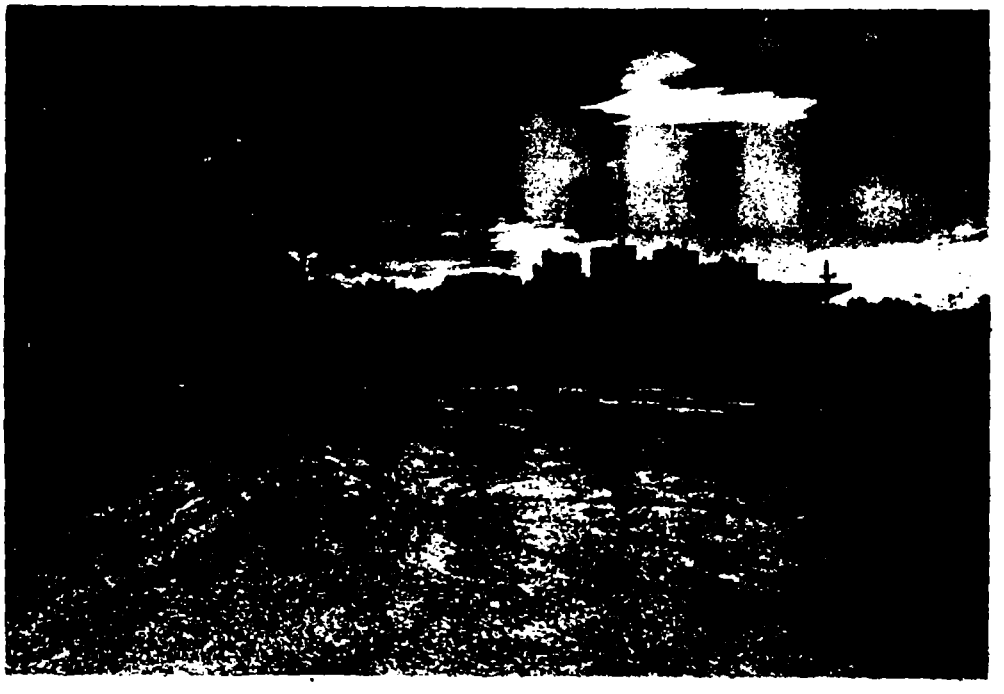
TIME: 1205

DIRECTION OF PHOTOGRAPH: Northwest

WEATHER CONDITIONS: Sunny 273°F

PHOTOGRAPHED BY: D. Dubay

SAMPLE ID (if applicable): NA



DESCRIPTION: Alan Glenn Oil Company

Showing storage tanks

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere Municipal Wells #4, #5, #6 PAGE OF

U.S. EPA ID: ILD981960743 TDD: F-05-8901-019 PAN: FIL0677SB

DATE: 8/30/89

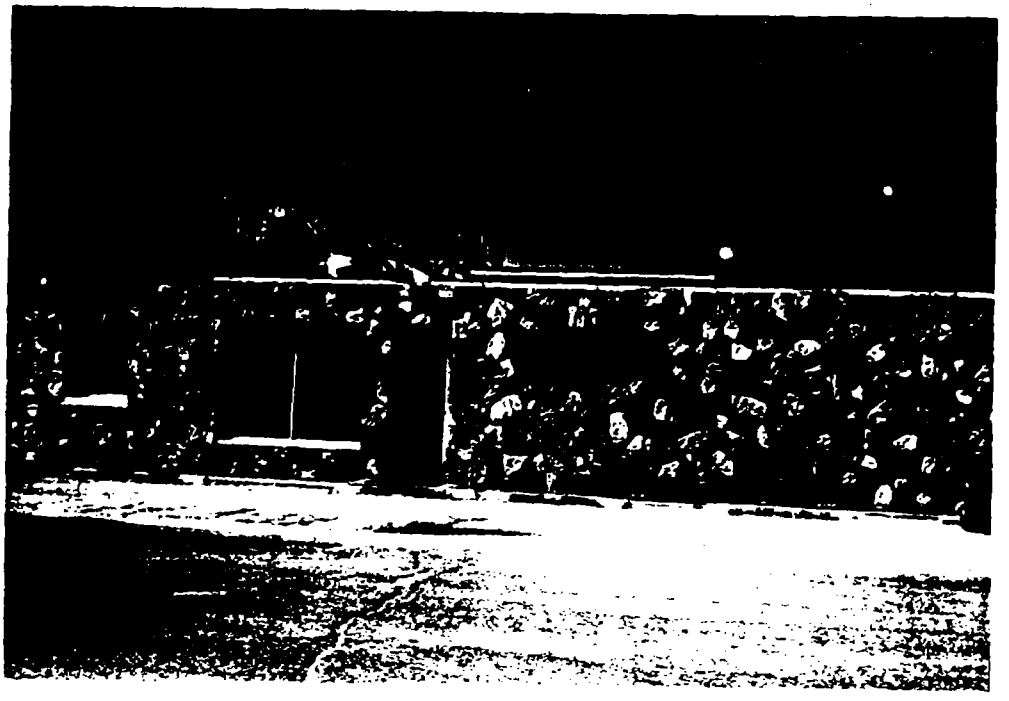
TIME: 1215

DIRECTION OF PHOTOGRAPH: Southwest

WEATHER CONDITIONS: Sunny ~73°F

PHOTOGRAPHED BY: D. Dubay

SAMPLE ID (if applicable): NA



DESCRIPTION: Belvidere Company

DATE: 8/30/89

TIME: 1215

DIRECTION OF PHOTOGRAPH: Southwest

WEATHER CONDITIONS: Sunny ~73°F

PHOTOGRAPHED BY: D. Dubay

SAMPLE ID (if applicable): NA

DESCRIPTION: Side of Belvidere Company Showing drum storage

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere Municipal Wells #4, #5, #6 PAGE OF

U.S. EPA ID: ILD981960773 TDD: F05890101.019 PAN: FIL06775B

DATE: 8/30/89

TIME: 12:25

DIRECTION OF PHOTOGRAPH: North

WEATHER CONDITIONS: Sunny ~73°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): —

DESCRIPTION: Parson's Casket - State NPL site

DATE: 8/30/89

TIME: 12:30

DIRECTION OF PHOTOGRAPH: West

WEATHER CONDITIONS: Sunny ~73°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): —

DESCRIPTION: CamCar Textron Company

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere Municipal Wells #4, #5, #6 PAGE OF

U.S. EPA ID: ILD981960743 TDD: F05901019 PAN: FIL06793

DATE: 8/30/89

TIME: 12:45

DIRECTION OF PHOTOGRAPH: South

WEATHER CONDITIONS: Sunny ~ 73°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): —

DESCRIPTION: Louis Silver Scrap Iron metal Co.

DATE: 8/30/89

TIME: 12:45

DIRECTION OF PHOTOGRAPH: South

WEATHER CONDITIONS: Sunny - 73°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): —

DESCRIPTION: Louis Silver Scrap Iron metal Co.

Showing rubbish pile

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Belvidere Municipal Wells # 4, #5, #6 PAGE OF

U.S. EPA ID: ILD981960743 TDD: F-05-8921-019 PAN: FIL06775B

DATE: 10/30/89

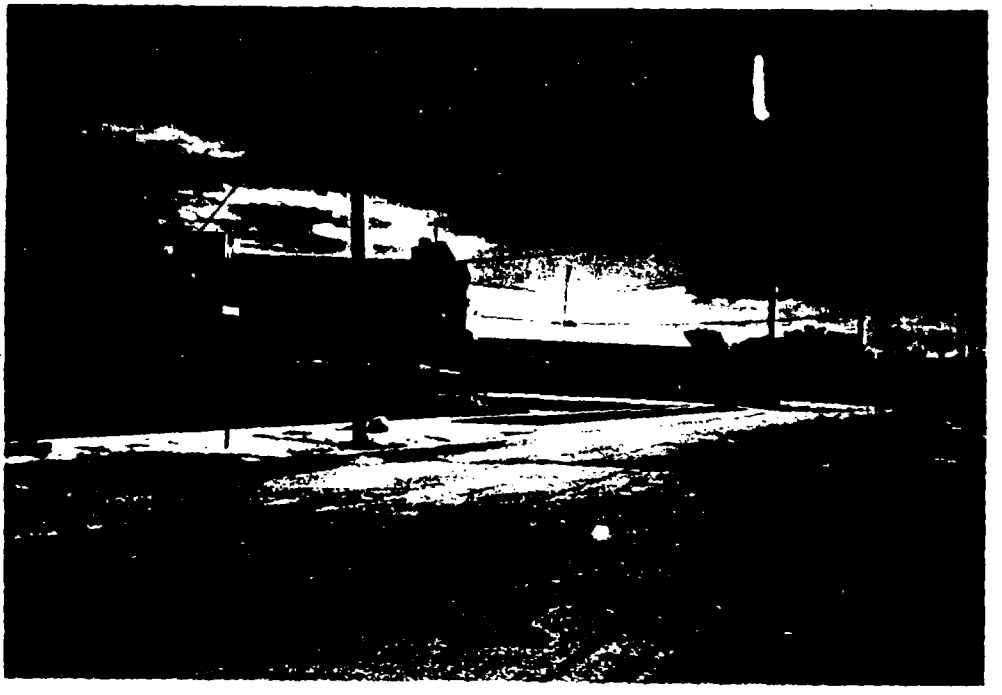
TIME: 1240

DIRECTION OF PHOTOGRAPH: Northeast

WEATHER CONDITIONS: Sunny ~ 73°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): NA



DESCRIPTION: Central Rubber Company

DATE: 8/30/89

TIME: 1250

DIRECTION OF PHOTOGRAPH: South

WEATHER CONDITIONS: Sunny ~ 73°F

PHOTOGRAPHED BY: J. Dubay

SAMPLE ID (if applicable): NA

DESCRIPTION: pile of wastes located behind True Value Hardware

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND TARGET ANALYTE LIST QUANTITATION/DETECTION LIMITS

ADDENDUM C

SPECIAL ANALYTICAL SERVICES
DETECTION LIMITS

Drinking Water Samples

TABLE C
SPECIAL ANALYTICAL SERVICES DRINKING WATER
VOLATILE QUANTITATION LIMITS

PARAMETER	CAS #	DETECTION LIMIT IN REAGENT WATER
Benzene	71-43-2	1.5 ug/L
Bromodichloromethane	75-27-4	1.5
Bromoform	75-25-2	1.5
Bromomethane	74-83-9	1.5
Carbon tetrachloride	56-23-5	1.5
Chlorobenzene	108-90-7	1.5
Chloroethane	75-00-3	1.5
2-Chloroethyl vinyl ether	110-75-8	1.5
Chloroform	67-66-3	1.5
Chloromethane	74-87-3	1.5
Dibromochloromethane	124-48-1	1.5
1,1-Dichloroethane	75-34-3	1.5
1,2-Dichloroethane	107-06-2	1.5
1,1-Dichloroethene	75-35-4	1.5
Total-1,2-Dichloroethene	540-59-0	1.5
1,2-Dichloropropane	78-87-5	1.5
cis-1,3-Dichloropropene	10061-01-5	2
trans-1,3-Dichloropropene	10061-02-6	1
Ethyl benzene	100-41-4	1.5
Methylene chloride *	75-09-2	1
1,1,2,2-Tetrachloroethane	79-34-5	1.5
Tetrachloroethene	127-18-4	1.5
Toluene *	108-88-3	1.5
1,1,1-Trichloroethane	71-55-6	1.5
1,1,2-Trichloroethane	79-00-5	1.5
Trichloroethene	79-01-6	1.5
Vinyl chloride	75-01-4	1.5
Acrolein	107-02-8	25
Acetone *	67-64-1	5
Acrylonitrile	107-13-1	25
Carbon disulfide	75-15-0	3
2-Butanone	78-93-3	5
Vinyl acetate	108-05-4	5
4-Methyl-2-pentanone	108-10-1	1.5
2-Hexanone	519-78-6	5
Styrene	100-42-5	1
Xylene (total)	1330-02-7	1.5

* Common laboratory solvents.
Blank limit is 5x method detection limit.
( ) Values in parentheses are estimates.
actual values are being determined at this time.

TABLE C (cont.)
SAS DRINKING WATER
SEMIVOLATILES QUANTITATION LIMITS

PARAMETER	CAS #	DETECTION LIMIT
Aniline	62-53-3	1.5 ug/l
Bis(2-chloroethyl)ether	111-44-4	1.5
Phenol	108-95-2	2
2-Chlorophenol	95-57-8	2
1,3-Dichlorobenzene	541-73-1	2
1,4-Dichlorobenzene	106-46-7	2
1,2-Dichlorobenzene	95-50-1	2.5
Benzyl alcohol	100-51-6	2
Bis(2-chloroisopropyl)ether	39638-32-9	2.5
2-Methylphenol	95-48-7	1
Hexachloroethane	67-72-1	2
n-Nitrosodipropylamine	621-64-7	1.5
Nitrobenzene	98-95-3	2.5
4-Methylphenol	106-44-5	1
Isophorone	78-59-1	2.5
2-Nitrophenol	88-75-5	2
2,4-Dimethylphenol	105-67-9	2
Bis(2-Chloroethoxy)methane	111-91-1	2.5
2,4-Dichlorophenol	120-83-2	2
1,2,4-Trichlorobenzene	120-82-1	2
Naphthalene	91-20-3	2
4-Chloroaniline	106-47-8	2
Hexachlorobutadiene	87-68-3	2.5
Benzoic Acid	65-85-0	20
2-Methylnapthalene	91-57-6	2
4-Chloro-3-methylphenol	59-50-7	1.5
Hexachlorocyclopentadiene	77-47-4	2
2,4,6-Trichlorophenol	88-06-2	1.5
2,4,5-Trichlorophenol	95-95-4	1.5
2-Chloronapthalene	91-58-7	1.5
Acenapthylhene	208-96-8	1.5
Dimethyl phthalate	131-11-3	1.5
2,6-Dinitrotoluene	606-20-2	1
Acenaphthene	83-32-9	1.5
3-Nitroaniline	99-09-2	2.5
Dibenzofuran	132-64-9	1
2,4-Dinitrophenol	51-28-5	(15)
2,4-Dinitrotoluene	121-14-2	1

TABLE C (Cont.)
SAS DRINKING WATER
SEMIVOLATILE QUANTITATION LIMITS

PARAMETER	CAS #	DETECTION LIMIT
Fluorene	86-73-7	1 ug/L
4-Nitrophenol	100-02-7	1.5
4-Chlorophenyl phenyl ether	7005-72-3	1
Diethyl phthalate	84-66-2	1
4,6-Dinitro-2-methylphenol	534-52-1	(15)
1,2-Diphenylhydrazine	122-66-7	1
n-Nitrosodiphenylamine *	86-30-6	
Diphenylamine *	122-39-4	1.5
4-Nitroaniline	100-01-6	3
4-Bromophenyl-phenylether	101-55-3	1.5
Hexachlorobenzene	118-74-1	1.5
Pentachlorophenol	87-86-5	2
Phenanthrene	85-01-8	1
Anthracene	120-12-7	2.5
di-n-Butyl phthalate	84-74-2	2
Fluoranthene	206-44-0	1.5
Pyrene	129-00-0	1.5
Butyl benzyl phthalate	85-68-7	3.5
Chrysene **	218-01-9	
Benzo(A)Anthracene **	56-55-3	1.5
bis(2-ethylhexyl)phthalate	117-81-7	1
di-n-Octyl phthalate	117-84-0	1.5
Benzo(b)fluoranthene ***	205-99-2	
Benzo(k)fluoranthene ***	207-08-9	1.5
Benzo(a)pyrene	50-32-8	2
Indeno(1,2,3-cd)pyrene	193-39-5	3.5
Dibenzo(a,h)anthracene	53-70-3	2.5
Benzo(g,h,i)perylene	191-24-2	4
2-Nitroaniline	88-74-4	1

* These two parameters are reported as a total.
** These two parameters are reported as a total.
*** These two parameters are reported as a total.

( ) Values in parentheses are estimates.
The actual values are being determined at this time.

Note: Limits are for reagent water.

TABLE C (Cont.)
SAS DRINKING WATER
PESTICIDE AND PCB QUANTITATION LIMITS

PARAMETER	CAS #	DETECTION LIMIT
Aldrin	309-00-2	0.005 ug/L
alpha BHC	319-84-6	0.010
beta BHC	319-85-7	0.005
delta BHC	319-86-8	0.005
gamma BHC (Lindane)	58-89-9	0.005
alpha-Chlordane	5103-71-9	0.020
gamma-Chlordane	5103-74-2	0.020
4,4'-DDD	72-54-8	0.020
4,4'-DDE	72-55-9	0.005
4,4'-DDT	50-29-3	0.020
Dieldrin	60-57-1	0.010
Endosulfan I	959-98-8	0.010
Endosulfan II	33213-65-9	0.010
Endosulfan sulfate	1031-07-8	0.10
Endrin	72-20-8	0.010
Endrin Aldehyde	7421-93-4	(0.030)
Endrin Ketone	53494-70-5	0.030
Heptachlor	76-44-8	0.030
Heptachlor Epoxide	1024-57-3	0.005
4,4'-Methoxychlor	72-43-5	0.020
Toxaphene	8001-35-2	0.25
Aroclor-1016	12674-11-2	0.10
Aroclor-1221	11104-28-2	0.10
Aroclor-1232	11141-16-5	0.10
Aroclor-1242	53469-21-9	0.10
Aroclor-1248	12672-29-6	0.10
Aroclor-1254	11097-69-1	0.10
Aroclor-1260	11096-82-5	0.10

( ) Values in parentheses are estimates.
Actual values are being determined at this time.

Note: Limits are for reagent water.

TABLE C (Cont.)
SAS DRINKING WATER
INORGANIC DETECTION LIMITS

PARAMETER	PROCEDURE	DETECTION LIMIT
Aluminum	ICP	100
Antimony	GFAA	5
Arsenic	GFAA	5
Barium	ICP	50
Beryllium	ICP	5
Cadmium	GFAA	0.5
Calcium	ICP	1000
Chromium	ICP	10
Cobalt	ICP	10
Copper	ICP	10
Iron	ICP	100
Lead	GFAA	2
Magnesium	ICP	1000
Manganese	ICP	10
Mercury	Cold Vapor	0.2
Nickel	ICP	20
Potassium	ICP	2000
Selenium	GFAA	2
Silver	ICP	5
Sodium	ICP	1000
Thallium	GFAA	2
Tin	ICP	40
Vanadium	ICP	10
Zinc	ICP	20
Cyanide	Colorimetric	10

Note: The above list may or may not contain compounds that are routinely analyzed at CRL for low level detection limits for drinking water.

See inorganic Routine Analytical Services (RAS) for related CAS #.

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

WELL LOG A

LOG OF WATER WELL

[redacted]

Well No. ____

Year 1956

Formations passed through	Thickness	Depth of Bottom
51		
Limestone	98	120

(Continue on back if necessary)

Finished in limestone at 22 to 120 ft.

Casing 5 inch from 0 to 22 ft.

from to ft.

Casing 5 inch. Static level from surf. 25 ft.

Test Capacity 7½ gal. per min. Temperature °F.

Water lowered to 43 ft. in. in hrs. min.

Length of test hrs. min. Screen

Size Diam. Length Bottom set at ft.

(Show location in Section Plat)

Township name Belvidere Elev. 783

Sec.

Twp.

Rge.

BOONE

Contractor

23-44N-3E

WELL LOG B

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Walt Dwyer

Completed 3-26-71

10. Property owner [redacted]

Well No.

Address [redacted]

Driller SILVIUS R[illegible] License No. 92-221

11. Permit No. 11814 Date MARCH 4-71

12. Water from LIMESTONE (Formation) 13. County BOONE

at depth 52 to 102 ft.

14. Screen: Diam. ____ in.

Length: ____ ft. Slot ____

Sec. 23

Twp. [illegible]

Rge. 3E

Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	VALVE TOWN 15#	1 ABOVE	52

SHOW LOCATION IN SECTION PLAT

150' N line, 300' E line SW SE SW

16. Size Hole below casing: 4 in.

17. Static level 28 ft. below casing top which is 1 (Permit) ft. above ground level. Pumping level 30 ft. when pumping at 30 gpm for 7½ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
CLAY	18	18
LIMESTONE	84	102
Commercial operation (Dog & Suds Root Beer Stand)		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Dan Silvius DATE March 26-71

COUNTY No. 517

BOONE

23-44N-3E

WELL LOG C

LOG OF WATER WELL

Property owner [redacted]

Drilled by SILVIUS BROS Year 66

Permit #1027

Formations passed through	Thickness	Depth of Bottom
CLAY	30	30
GRAVEL	10	40
LIMESTONE	107	147

COUNTY No. 291

Received 4-3-67.

(Continue on back if necessary)

Finished in LIMESTONE at 40 to 147 ft.

Cased with 5 inch BLACK from 0 to 40 ft.

and ____ inch ____ from ____ to ____ ft.

Size hole below casing 5 inch. Static level from surf 38 ft.

Tested capacity 30 gal. per min. Temperature ____ °F.

Water lowered to 38 ft. ____ in. in ____ hrs. ____ min.

Length of test 4 hrs. 30 min. Screen ____

Slot ____ Diam. ____ Length ____ Bottom set at ____ ft.

(Show location in Section Plat)

Township name BELVIDERE Elev. ____ Sec. 24

Description of location 120 S 120 W Twp. 44N

NE SW SW SW Rge. 3 E

Signed [signature] County BOONE

BOONE

Copy for Illinois State Geological Survey Index: 24-44N-3E

(37379—30M—5-64)

Page 6 ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
rounded, frosted, incoherent.	20		860
Sandstone, silty, light buff, very fine to fine, little coarse to medium, rounded, frosted, incoherent.	5		865
"shale, red."	3		868

COUNTY Layne-Western Boone S.S.# 25649 City of Belvidere #6 24-44N-3E

WELL LOG D

LOG OF WATER WELL

Property owner [redacted] Well No. _____

Drilled by [illegible] Year 1955

Formations passed through	Thickness	Depth of Bottom
COUNTY No. 56		
Drift	38	38
Limestone	17	55

(Continue on back if necessary)

Finished in 6 at 38 to 55 ft.

Cased with 6 inch _____ from 0 to 38 ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing 6 inch. Static level from surf. 25 ft.

Tested capacity 1800 gal. per min. Temperature _____ °F.

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

Length of test _____ hrs. _____ min. Screen _____

Slot _____ Diam. _____ Length _____ Bottom set at _____ ft.

[Show location in Section Plat]

Township name Belvidere Elev. _____ Sec. 26

Description of location _____ Twp. 44N

Rge. 3E

Signed _____ County Boone

Copy for Illinois State Water Survey Index:

(QUESTED AND MAIL ORIGINAL TO STATE OF
16, STATE OFFICE BUILDING, SPRINGFIELD,
ICAL WATER SURVEYS SECTION. BE SURE TO

WELL LOG E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Dr. James Ellis Completed 6-11-69

10. Property owner [redacted] Well No. _____
Address [redacted] BELVIDERE
Driller [illegible] License No. 92-271
11. Permit No. 77-19 Date APRIL 21-69
12. Water from LIMESTONE (Formation) 13. County BOONE
at depth 36 to 215 ft. Sec. 25
14. Screen: Diam. _____ in. Twp. 44N
Length: _____ ft. Slot _____ Rge. 3E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	[illegible] 15#	[illegible]	36

SHOW LOCATION IN SECTION PLAT
330'S line,
75' W line,
SE SW NW
(Permit)

16. Size Hole below casing: 5 in.
17. Static level 31 ft. below casing top which is 1 ft. above ground level. Pumping level 54 ft. when pumping at 20 gpm for 3 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
CLAY	36	36
LIMESTONE	179	215
Irrigation [illegible]		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [illegible] DATE June 13-69

COUNTY No. 436

BOONE 25-44N-3E

John C. Meyer Corporation, Rochester, N. Y. Binder and holes to leaves Patented. FORM 406993

SHEET 2 T. 44N R. 3E S. 26

COMPANY S. B. Geiger & Co. HOLE NO.

FARM Belvidere City HOLE NO. 4

well #4

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Lime streaked with shale	85		990	
	Sand, hard, gray	45		1035	
	Lime, hard, gray	15		1050	
	Sand, hard, gray	40		1090	
	Shale, sandy, blue	5		1095	
	Lime, gray	10		1105	
	Sand and shale	45		1150	
	Sand, hard, white	33		1183	
	Shale, blue	13		1196	
	Sand, soft, white	26		1222	
	Shale, blue	18		1240	
	Lime, hard, gray	46		1286	
	Lime, hard, brown	23		1309	
	Sand, hard, red	3		1312	
	Sand, hard, brown	29		1341	
	Sand, hard, gray	39		1380	
	Sand, hard, red	421		1801	

152' of 16" casing set at 150', extends above floor level. Bottom capped with steel shoe. Grout extends entire depth of 16" pipe to surface.

COUNTY Boone INDEX NO.

DRILL RECORD 26-44N-3E

(2733—30M—7-41) ILLINOIS GEOLOGICAL SURVEY, URBANA

(3)

Town Belvidere Township Belvidere Map No.

Company S. B. Geiger & Co. No. R. 3E

Farm Belvidere City No. 4 T.

Authority S. B. Geiger & Co., Chicago 44 N Sec. 26

Elevation 776.05

Collector

Confidential Date Drilled 1942

2310' N. line, 460' E. line

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	SE cor. N. Main & E. Madison Sts. Westerly 79', Lots 5 & 6, Block 35, Original town of Belvidere				
	Sand	45		45	
	Lime, broken, soft	5		50	
	Lime, hard, gray	20		70	
	Lime, broken, gray	150		220	
	Lime, hard, gray	95		315	
	Lime, broken, gray	20		335	
	Sand, soft, white	190		525	
	Sand, soft, pink	11		536	
	Sand, medium hard, white	18		554	
	Sand, soft, white	6		560	
	Sand, hard, red	10		570	
	Lime, hard, red	10		580	
	Sand, coarse, white	10		590	
	Sand, fine, white	4		594	
	Sand, hard, red	6		600	
	Lime, hard, gray	8		608	
	Lime, hard, pink	12		620	
	Lime, hard, gray	35		655	
	Lime, hard, pink	35		690	
	Sand, pink and shale	20		710	
	Lime, hard, sandy	10		720	
	Sand, medium hard, gray	60		780	
	Sand, hard, pink	10		790	
	Sand, soft, white	78		868	
	Lime, hard, pink	22		890	
	Shale, blue	15		905	

COUNTY Boone INDEX NO.

DRILL RECORD 26-44N-3E

(12339—30M) ILLINOIS GEOLOGICAL SURVEY, URBANA (12-41)

Well #4

SHEET M
COMPANY E. B. Geiger & Co. NO.
FARM Belvidere City NO. 4

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	glauconitic	[illegible]		[illegible]	
	Dolomite, sandy, glauconitic	22		844	
	Franconia formation				
	Sandstone, dolomitic, glauconitic	16		860	
	Sandstone, dolomitic, glauconitic; shale partings	58		918	
	Galesville formation				
	Sandstone, dolomitic	52		970	
	Dolomite, sandy, red	20		990	
	Sandstone	10		800	
	Sandstone, dolomitic; few shale partings	25		[illegible]	
	Sandstone	45		870	
	Eau Claire formation				
	Shale, sandy	20		[illegible]	
	Sandstone, silty	5		[illegible]	
	Shale, sandy	13		[illegible]	
	Siltstone, dolomitic; few shale partings	72		[illegible]	
	Shale, sandy	7		987	
	Dolomite, glauconitic, sandy; dolomite, argillaceous, at top	7		994	
	Sandstone, glauconitic	2		996	
	Sandstone, dolomitic	69		1065	
	Dolomite, sandy; sandstone, dolomitic; shale, sandy	15		1100	
	Sandstone, dolomitic; shale partings	20		1120	
	Sandstone	55		1175	
	Siltstone, dolomitic, sandy; shale, sandy	20		1195	
	Sandstone, silty	30		1225	
	Shale, sandy; dolomite, sandy, argillaceous	35		1260	

COUNTY Boone
SAMPLE SET NO. [illegible]
(24159—10M—9-46)
ILLINOIS GEOLOGICAL SURVEY, URBANA

COMPANY E. B. Geiger & Co. NO.
FARM Belvidere City NO. 4
DATE DRILLED 1942
AUTHORITY Summary Sample Study
COLLECTOR ELEVATION 778.05
[illegible] N. line, [illegible] W. line of section

County #297

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Sampled by E. Falk, 1942. Generalized from strip by M. P. Meyer. Tops adjusted to electric log.				
	PLEISTOCENE SYSTEM				
	Sand	45		45	
	ORDOVICIAN SYSTEM				
	Galena dolomite				
	Dolomite, cherty from 120 to 180'	[illegible]		[illegible]	
	Dolomite, cherty in upper part, few shale partings	[illegible]		[illegible]	
	Decorah-Platteville dolomite				
	Dolomite, partly argillaceous	[illegible]		[illegible]	
	Glenwood formation				
	Dolomite, sandy, argillaceous	8		[illegible]	
	Sandstone, dolomitic	6		354	
	Dolomite, sandy, argillaceous; shale partings at top and base	6		360	
	Sandstone, dolomitic, argillaceous	4		364	
	Dolomite, sandy, argillaceous	8		372	
	St. Peter sandstone				
	Sandstone	103		[illegible]	
	Conglomerate of sandstone, argillaceous; chert, partly oolitic; little shale, red	45		620	
	Siltstone	20		640	
	CAMBRIAN SYSTEM				
	Prairie du Chien dolomite				
	Dolomite, cherty, partly				

COUNTY Boone
SAMPLE SET NO. [illegible]
(24159—30M—9-46)
ILLINOIS GEOLOGICAL SURVEY, URBANA

Well #4

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1906, 1907-08

(74896—1M)

SHEET 4 T. 44N R. 3W S. 25

COMPANY Belvidere city well HOLE No.

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
63	Sandstone, yellowish red medium grained	5		1665	
64	Sandstone, pink, coarse grained	5		1670	
65	Sandstone, light pink, rather course grained	5		1675	
66	Sandstone, light yellow, medium to coarse grained	20		1695	
67	Sandstone, pink, medium grained	15		1710	
68	Sandstone, light pink, fairly coarse grained	20		1730	
69	Sandstone, gray, medium grained	10		1740	
70	Sandstone, yellowish pink coarse	15		1755	
71	Sandstone, pink, medium to coarse	48		1803	

The samples are in small bottles enclosed in a glass case, so that the material could not be examined with a hand lens nor tested with acid. Studied by C. B. Anderson.

10" hole to 46', 8" 46 to 1803; in 1930 reamed 16" to 100'
10" casing to 46', in 1930 6" casing to 70' installed.
S.L. 8' immediately after drilling.
Yield: Nos 1 & 3 600 gpm in 1918 before we left installed in 1921.
Nos 1 & 3 800-850 gpm in 1921
Nos 1 & 3 average 650 gpm for 11 days in 1923
No 3 alone 490 gpm 1924

Below

County Index No. 0625

T. DRILL RECORD

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1906, 1907-08

(74896—1M)

SHEET 3 T. 44N R. 3W S. 25

COMPANY Belvidere city well HOLE No.

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	grained	10		1335	
42	Sandstone, light pink medium grained	60		1395	
43	Sandstone, pink, medium grained	5		1400	
44	Shale, red	5		1405	
45	Sandstone, light yellow to pink	20		1425	
46	Shale, dark red	3		1428	
47	Sandstone, red, medium grained	2		1430	
48	Shale, dark red	5		1435	
49	Sandstone, red, medium grained	3		1438	
50	Shale, dark red	2		1440	
51	Sandstone, pink, medium grained	10		1450	
52	Sandstone, light yellow, medium grained	10		1460	
53	Sandstone, light pink, medium grained	50		1510	
54	Shale, sandy red	5		1515	
55	Sandstone, red, fine grained	5		1520	
56	Shale, sandy, pink	5		1525	
57	Sandstone, pink, fine grained	5		1530	
58	Shale, red	10		1540	
59	Sandstone, reddish yellow, medium grained	10		1550	
60	Sandstone, grayish red, medium grained	97		1647	
61	Sandstone, gray, medium grained	8		1655	
62	Shale, grayish pink	5		1660	

Below

County Index No. 0625

T. DRILL RECORD

Well #5

TOWN Belvidere TOWNSHIP Belvidere R. 3E

COMPANY S. B. Geiger & Co. NO. T. SEC. 35

FARM Belvidere City Well NO. 5

DATE DRILLED October 1945 44

AUTHORITY Driller's log N

COLLECTOR ELEVATION 800 top. map

1900' N. line, 300' E. line

No.	Co. #304 Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Gravel and sand	10		10	
	Soft yellow sandy mud	35		45	
	Grey broken lime	185		230	
	Hard light lime	20		250	
	Hard white lime	5		255	
	Soft brown lime	95		350	
	Sandy and broken lime	5		355	
	Soft lime and shale	25		380	
	Soft grey sand	170		560	
	Soft green sand	5		555	
	Soft grey sand	10		565	
	Soft red sand	35		600	
	Light sandy lime	5		605	
	Hard light lime	5		610	

18" hole to 152'
12" hole, 152' to 610'
45' 18" pipe from surface
152' of 12" pipe with drive shoe, from surface.

12" pipe cemented with neat cement grout from surface to 152'.

COUNTY Boone 35-44N-3E

SAMPLE SET NO.

(84107—30M—6-45)

ILLINOIS GEOLOGICAL SURVEY, URBANA

LOG OF WATER WELL

Midwest # 1 Well No.

P.A.K. Corp.

Silvius Year

From [illegible] passed through	Thickness	Depth of Bottom
5		
Drift	72	72
Limestone	278	350
Sandstone	77	427
		TD

(Continue on back if necessary)

[illegible] at to ft.

[illegible] inch from 0 to ft.

[illegible] inch from to ft.

[illegible] inch. Static level from surf. ft.

[illegible] 136 gal. per min. Temperature °F.

[illegible] 40 ft. in. in hrs. min.

[illegible] hrs. min. Screen

Diam. Length Bottom set at ft.

[illegible]

[illegible] Belvidere Elev. 775 Sec.

[illegible] Twp.

Rge.

County

BOONE [illegible] Contractor Index 35-44N-3E

SHEET 2 T. 44N R. 3E S. 35
COMPANY S. B. Geiger & Co. NO.
FARM Belvidere City Well NO. 5

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Dolomite, buff, very fine to fine	11		250	
	Dolomite, cherty, buff, very fine to fine; few shale partings, brown	15		265	
	Dolomite, buff, very fine to fine	5		270	
	Dolomite, buff, gray, argillaceous, mottled, very fine to fine	40		310	
	Dolomite, buff, slightly gray mottled, fine; few shale partings, gray, brown	40		350	
	Glenwood formation				
	"Lime, sandy and broken"	5		355	
	Dolomite, sandy, argillaceous, white to green, extra fine; grading to sandstone, very fine to fine, coarse, compact; dolomite, buff, gray mottled; trace shale, sandy, white to green	15		370	
	Dolomite, buff, gray argillaceous, mottled, very fine, extra fine	10		380	
	Sandstone, white, medium to very coarse, incoherent; little sandstone, very dolomitic, buff to light gray, very fine to fine, coarse, compact	20		400	
	St. Peter formation				
	Sandstone, slightly silty, white, very fine to coarse, few very coarse, incoherent	150		550	
	Sandstone, light yellow, very fine to coarse, incoherent	5		555	

COUNTY Boone 35-44N-3E
SAMPLE SET NO. 13,509
(84107—30M—6-45)

(6)

TOWN Belvidere TOWNSHIP Belvidere R. 3E
COMPANY S. B. Geiger & Co. NO. T. SEC. 35
FARM Belvidere City Well NO. 5
DATE DRILLED October 1945 44
AUTHORITY Summary Sample Study N
COLLECTOR ELEVATION 800 top. map
1900' N. line, 300' E. line, Sec. 35

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	G #304				
	Studied by M. F. Meyer, October 1945				
	PLEISTOCENE SYSTEM				
	Gravel, 1/8-3/4 inch, clean, and "sand"	10		10	
	Till, gravelly, gray, calcareous	15		25	
	Till, gray, calcareous	20		45	
	ORDOVICIAN SYSTEM				
	Galena dolomite				
	Dolomite, buff, fine to medium, weathered yellow, at top	95		140	
	"Limestone, grey, broken"	10		150	
	Dolomite, slightly cherty in part, buff, fine to medium	40		190	
	Dolomite, cherty, buff, fine to medium; little clay, yellowish-brown, red speckled	10		200	
	Dolomite, buff, fine to medium	30		230	
	Decorah dolomite				
	Dolomite, light gray, buff mottled, gray speckled, partly red speckled, fine to medium, shale, green, carbonaceous specks	5		235	
	Dolomite, buff, light gray mottled, fine to medium; dolomite, argillaceous, buff, fine with brown and gray speckled shale partings	4		239	
	Platteville dolomite				

COUNTY Boone 35-44N-3E
SAMPLE SET NO. 13,509
(84107—30M—6-45)

[illegible]

Property of [redacted]

Drilled by _____ 1960

Formations passed through

Drift 44

T.D. 133

Cold [illegible]

(Continue on back if necessary)

Finished in _____ at _____

Cased with _____ inch _____ from _____ ft.

and _____ inch _____ from _____ ft.

Size hole below casing _____ inch. Static level from 38 ft.

Tested capacity 1000 gal. per Hour [illegible]

Water lowered to _____ ft. _____ in. in _____ hr. _____

Length of test _____ hrs. _____ min. Screen _____

Slot _____ Diam. _____ Length _____ Bottom _____ ft.

(Show location [illegible])

Township name _____ Elev. _____

Description of location _____

Sec. _____ County _____

BOONE

Copy for your Drilling Contractor

Index: 35-44N-3E

SHEET 3 T. 44N R. 3E 35

COMPANY S. B. Geiger & Co. NO.

FARM Belvidere City Well NO. 5

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Sandstone, pink, medium to coarse, incoherent	15		570	
	Sandstone, white, medium to coarse, incoherent; little sandstone, siliceous, yellow to red, very fine to coarse, compact	17		587	
	Sandstone, silty, pink, very fine to coarse, incoherent; little chert, white	13		600	
	Chert, white to yellow to pink, chalky to vitreous to dense; little sandstone, white to yellow, very fine to coarse, incoherent to compact	5		605	
	Sandstone, white to yellow, very fine to coarse, siliceous, incoherent to compact; chert as above	5		610	

COUNTY Boone 35-44N-3E

SAMPLE SET NO. 13,500

(84107—30M—6-45)

ILLINOIS GEOLOGICAL SURVEY, URBANA

WELL #6

(17344—20M—5-55)

Page 2 ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Limestone brown shaly		690	720
Limestone & sand grey		720	725
Sand hard white		725	745
Sand - hard		745	820
Sand - medium		820	830
Sand - soft		830	855
Sand - hard		855	860
Sand -		860	865
Shale red		865	868
			TD

Casing: 30" O.D. to 10'; 26" O.D. to 27.5'; 20" O.D. to 110'
Size of well: 30", surface to 10'; 25½" to 112'; 19½" to 868½'
Pump set at 210'
Rate: 500 - 1212 gallons per minute
Static water level: 33'
Pumping water level: (1212 gallons per minute) 124.5'
Pump: Layne Deep Well Turbine
S.S.#25649

COMPANY Layne-Western City of Belvidere #6
COUNTY BOONE 24-44N-3E

(13716—20M—3-56)

3

Page 1 ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Black top soil		0	1
Clay - brown		1	5
Gravel		5	10
Gravel & sand		10	20
Coarse sand		20	25
Lime brown - medium Landed 26" at 27'6"		25	45
Lime - grey - hard		45	75
Grey lime - medium		75	200
Dark grey lime - hard		200	205
Grey lime - hard		205	245
Grey lime - medium		245	250
Grey lime hard		250	295
Dark grey lime - hard		295	365
Sandstone - medium		365	370
Sand - medium		370	395
Sand - soft		395	445
Sand - medium		445	495
Sand - hard		495	505
Sand - medium		505	550
Sand - dolomite		550	555
Sand - hard		555	570
Red hard		570	575
Red lime & dolomite hard		575	590
Pink sand & dolomite hard		590	595
Grey lime & dolomite hard		595	600
Crevice at 605 dolomite hard		600	605
No cuttings - washed away		605	610
No cuttings - dolomite hard		610	615
Limestone & dolomite hard		615	630
Brown lime hard		630	670
Limestone brown hard		670	685
Limestone brown sandy		685	690

COMPANY Layne-Western
FARM City of Belvidere NO. 6
DATE DRILLED 1955 COUNTY NO. 1
AUTHORITY Layne-Western
ELEVATION 782-curb elevation
LOCATION 440'S line & 66'W line of SW
COUNTY BOONE

24-44N-3E

Strata	Thickness	Top	Bottom
Dolomite, sandy, very silty, light greenish gray to light gray, lithographic; little shale, sandy, dolomitic, greenish gray, brittle.	10		350
Dolomite, as above; little sandstone, light gray, very fine to fine, coarse, rounded, incoherent.	10		360
Dolomite, very sandy and silty, buff to light gray, extra fine to fine, crystalline,	5		365
Sandstone, very silty, light gray, very fine to fine, coarse, rounded, frosted, incoherent.	5		370
Sandstone, white to light gray, very fine to fine, coarse, rounded, frosted, incoherent, little friable.	10		380
Chazy Series			
St. Peter Formation			
Sandstone, white to light gray, very fine to fine, little medium to coarse, rounded, frosted, incoherent.	5		385
Sandstone, white to light gray, very fine to fine, coarse, rounded, frosted, incoherent, little friable.	25		410
Sandstone, white to light gray, very fine to medium, little coarse, rounded, frosted, incoherent.	25		435
Sandstone, silty to very silty, light buff to light gray, very fine to medium, little coarse, rounded, frosted, incoherent.	30		465
Sandstone, white to light gray, very fine to fine, little medium, rounded, frosted, incoherent.	30		495
Sandstone, silty to very silty, light buff, very fine to medium, little coarse, rounded, frosted, incoherent, little friable.	55		550

Strata	Thickness	Top	Bottom
to buffish gray, very fine to medium, crystalline, speckled (black).	10		140
Dolomite, buff, little gray, extra fine to very fine, medium, crystalline, mottled.	20		160
Dolomite, slightly cherty, buff to buffish gray, extra fine to fine, little medium, crystalline.	20		180
Dolomite, buff to grayish, extra fine to very fine, little fine to medium, crystalline.	10		190
Decorah Formation			
Dolomite, slightly cherty and argillaceous, grayish buff to buffish gray, very fine to medium, crystalline, slightly speckled (black).	10		200
Dolomite, gray to grayish buff, extra fine to fine, crystalline, very speckled (black), slightly mottled.	10		210
Dolomite, buff to gray, extra fine to very fine, crystalline, very speckled (black, little red.)	9		218
Platteville Formation			
Dolomite, buff, very fine to fine, little medium, crystalline.	22		240
Dolomite, slightly silty to silty, buff to gray, very fine to fine, crystalline.	45		285
Dolomite, silty, buff to gray, extra fine to fine, crystalline, mottled.	25		310
Dolomite, slightly silty, buff to buffish gray, very fine to fine, crystalline.	15		325
Glenwood Formation			
Sandstone, dolomitic, light gray to buff, very coarse to fine, rounded, frosted, incoherent to compact; little dolomite, very silty, sandy, light greenish gray, lithographic.	15		340

Strata	Thickness	Top	Bottom
Sandstone, dolomitic, glauconitic, slightly silty, reddish-brown to buff, very fine to fine, little medium, compact, incoherent.	10		675
Sandstone, glauconitic, slightly dolomitic, reddish-brown, very fine to medium, incoherent to compact, grades to shale, dolomitic, slightly glauconitic, sandy, reddish-brown, tough.	30		705
Sandstone, glauconitic, slightly dolomitic, reddish-brown to buff, very fine to fine, incoherent, compact.	12		717
Ironton Formation			
Sandstone, slightly dolomitic, white to light gray, very fine to fine, coarse to very coarse, rounded, incoherent, little compact.	13		730
Sandstone, white to light gray, very fine to very coarse, rounded, frosted, incoherent, little compact.	25		755
Sandstone, slightly dolomitic, slightly silty to silty, light gray, very fine to coarse, rounded, frosted, incoherent, little compact.	35		790
Sandstone, very silty, light buff, very fine to very coarse, rounded, frosted, incoherent, little compact.	10		800
Galesville Formation			
Sandstone, white to light gray, fine to medium, little coarse, rounded, frosted, incoherent.	15		815
Sandstone, slightly silty to silty, white to light gray, very fine to medium, little coarse, rounded, frosted, incoherent.	25		840
Sandstone white to light gray, very fine to medium, little coarse,			

Strata	Thickness	Top	Bottom
Sandstone, siliceous, light gray, buff, yellowish-brown, coarse, to very fine, rounded, incoherent, compact.	10		560
Sandstone, cherty, siliceous, light gray to light buff, very fine to coarse, rounded, incoherent, compact.	15		575
Sandstone, cherty, reddish-brown to light gray, very fine to medium, little coarse, rounded, incoherent, little compact; little shale, reddish-brown, tough.	5		580
Sandstone, slightly siliceous, pinkish-brown, fine to very coarse, incoherent, little compact.	8		588
CAMBRIAN SYSTEM			
St. Croixan Series			
Trempealeau Formation			
Dolomite, very silty, buff to pinkish-buff, extra fine to fine, crystalline.	17		605
No sample	5		610
Dolomite, silty, light buff to buff, extra fine to very fine, crystalline, little geodic quartz.	10		620
No sample "limestone and dolomite".	10		630
Dolomite, slightly glauconitic (fine), slightly silty, light buff to light grayish-buff, extra fine to very fine, crystalline, little geodic quartz.	10		640
Dolomite, glauconitic (fine), silty, pinkish-buff to reddish-brown, extra fine to fine, crystalline, little geodic quartz.	20		660
Franconia Formation			
Dolomite, glauconitic (fine to medium), very sandy, silty, buff to reddish-brown, very fine to fine crystalline.	5		665

(37329—20M—5-56)

(6)

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Summary Sample Study by G. H. Emrich	3/57		
Pleistocene Series			
Soil	1		1
Till, silty (coarse), yellowish-brown, oxidized, leached.	4		5
Sand, gravely, slightly silty, yellowish brown, very coarse to fine, oxidized, leached.	5		10
Sand, gravely, yellowish-brown, fine to very coarse, oxidized, slightly calcareous, clean.	10		20
Sand, silty, gravely, buff to yellowish buff, coarse to fine, unoxidized, calcareous.	5		25
ORDOVICIAN SYSTEM			
Mohawkian Series			
Galena Formation			
Dolomite, yellowish-buff, extra fine to fine, crystalline.	5		30
No sample - "lime, brown".	5		35
Dolomite, buff to yellowish buff, extra fine to fine, crystalline.	10		45
Dolomite, buff to grayish buff, extra fine to fine, little medium, crystalline, slightly speckled (black).	40		85
Dolomite, slightly silty, buff to grayish buff, extra fine to fine, little medium, crystalline.	27		112
No sample "lime gray"	8		120
Dolomite, as above.	10		130
Dolomite, slightly argillaceous, buff			

COMPANY Layne-Western
FARM City of Belvidere NO. 6
DATE DRILLED 1955 COUNTY NO. 1
AUTHORITY G. H. Emrich
ELEVATION 782 curb elevation
LOCATION 440' S line, 66' W line of SW
COUNTY BOONE S.S.#25649

24-44N-3E

John C. Moore Corporation, Rockford, N. Y.

(6)

TOWN Belvidere TOWNSHIP No. 6
COMPANY Chicago [illegible] 3 E
FARM No. T Sec. 24
AUTHORITY U[illegible] BULL. 264, p. [illegible] 44-[illegible]
ELEVATION 7[illegible] est. top map L.S.W.
COLLECTOR DATE DRILLED
CONFIDENTIAL

No.	Co #290 STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
Pleistocene	Clay, yellow	5		[illegible]	
	Sand	7		[illegible]	
	Gravel, fine and very coarse	20		[illegible]2	
	Quicksand	30		[illegible]2	
	Gravel, niggerheads, [illegible]	30		[illegible]	
Galena Plat.	Limestone, loose, sandy	3		[illegible]25	
	Limestone, Trenton, water [illegible]	230		355	
St. Peter	Sandstone, Madison (water [illegible])	209		564	
	Sandstone, Madison (water [illegible])	10		574	
	Marl, red	3		577	
	Sandstone, red, water bearing Principal water [illegible]	31		608	
Prairie du Chien	Limestone, hard	35		643	
	Shale, brown, water tight	75		718	
Dresbach	Sandstone, Potsdam, water bearing	116		834	
Eau Claire	Marl, red	2		836	
	Shale, blue, water tight	148		984	
Mt. Simon	Sandstone, Potsdam, water bearing	72		1056	
	Sandstone, hard, becoming [illegible] and coarse	17[illegible]		1231	

Pumps 1[illegible] gallons per min.
Water bearing beds at [illegible], 1,070, and 1,231 feet.

County BOONE Index No. [illegible]
T.—DRILL RECORD