

Report

**Wellhead  
Protection Plan**

City of  
**Fond du Lac, WI**

January 2009

Report for  
**City of Fond du Lac, Wisconsin**

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Wellhead Protection Plan

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## EXECUTIVE SUMMARY

This report is a Wellhead Protection Plan (WHPP) for the fifteen existing City of Fond du Lac wells. The purpose of this plan is to establish specific criteria for protection of each well's recharge area. This WHPP was prepared for the City of Fond du Lac's active wells to conform with the requirements of Wisconsin Administrative Code, Chapter NR 811, Section 16(5), for wellhead protection (WHP) planning.

The North Well field includes Well Nos. 10 through 15 and Well No. 21 (Well No. 22 is currently offline). The South Well field contains Well Nos. 16 through 20 and 23 through 25.

Land use in the vicinity of unit wells in the North Well field is primarily residential, with some commercial, manufacturing, and recreational development. Land use in the vicinity of unit wells in the South Well field is primarily agricultural, with some manufacturing, and recreational development. Historically, land use in the vicinity of both the North and South Well fields was agricultural and used for grassland and row crops.

A regional groundwater flow model was prepared for Fond du Lac County (Cherkauer, et al., 2003). The model, refined as part of another project for the City, was utilized for this WHPP to delineate time-related (5-year time of travel (TOT)) zones of contribution (ZOCs) for each active Fond du Lac well and the zone of influence for the well fields.

Figures in Section 3 show the wellhead protection area (WHPA) for each of Fond du Lac's fifteen active wells. Two zones of protection are within the WHPA. Zone A is defined by the 5-year TOT ZOC and Zone B is defined by a 1,200-foot fixed radius around each well. The WHPAs will provide a conservative protection zone to account for changes in pumping rates, pumping duration, and interference drawdown from other existing and future wells.

A contaminant source inventory (CSI) was performed for the unit well areas including a visual inspection. Potential and existing contaminant sources within the WHPA of each unit well, or immediately upgradient of the WHPA, include the following:

- Potential spills along roads and main transportation corridors.
- Active and closed underground storage tank (UST) sites.
- Hazardous waste transportation, use, or storage sites.
- Landfills.
- Agricultural farming
- Fertilizer spreading.
- Possible manure and sludge spreading areas on agricultural fields.
- Closed and active private sewage disposal systems.
- Road salt use.

Programs and activities to be used by the City of Fond du Lac and others for WHPA management at the unit wells are grouped into five principal categories as follows:

1. Existing Programs
  - a. Private On-Site Wastewater Treatment Ordinance (Chapter 58)
  - b. Well Abandonment Cost Share Programs
  - c. City Drop-Off Site
  - d. Spill Notification and Awareness of Remedial Investigation and Cleanup Actions
  - e. Livestock Waste Utilization Ordinance (Chapter 14)
  - f. Land Application of Sludge and Septage
2. Land Use Controls
  - a. Existing Zoning and Ordinances
3. Intergovernmental Cooperation
  - a. Land Use Planning and Site Plan Review
4. Monitoring
  - a. CSI Maintenance
  - b. Water Quality Monitoring
5. Public Education and Awareness
  - a. Availability of the WHPP
  - b. Public Informational Meeting
  - c. News Releases
  - d. Informational Materials Distributed to Residents in WHPAs
  - e. School Programs

Some of these programs and activities are currently being performed, while others are new and will be implemented to help protect Fond du Lac unit wells.

The Fond du Lac Water Utility currently encourages water conservation on a voluntary basis.

The Utility has formulated a contingency plan for providing water if one or more of the City's water supply wells would be contaminated or removed from service.

The City of Fond du Lac is developing a WHP ordinance. The WHP ordinance will help ensure that new potential contaminant sources are not located in WHPAs.

**SECTION 1**  
**INTRODUCTION**

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## 1.01 INTRODUCTION

This report is a Wellhead Protection Plan (WHPP) for the existing City of Fond du Lac unit wells. The purpose of this plan is to establish specific criteria for protection of the recharge areas in the vicinity of these unit wells including management strategies to maintain a high quality water supply free of contamination.

This WHPP was prepared for the City of Fond du Lac unit wells to conform with the requirements of the Wisconsin Administrative Code, Chapter NR 811, Section 16(5), for wellhead protection (WHP) planning. A copy of this section of the code is in Appendix A. The project scope included the following:

1. Utilize the Fond du Lac County groundwater flow computer model to delineate wellhead protection areas (WHPAs).
2. Inventory potential contamination sources.
3. Establish a WHPA for each well.
4. Develop a public education program for wellhead protection.
5. Develop a conservation program for wellhead protection.
6. Develop a contingency and management plan.

## 1.02 LOCATION AND BACKGROUND

The North Well Field includes Well Nos. 10, 11, 12, 13, 14, 15, and 21, and the South Well Field includes Well Nos. 16, 17, 18, 19, 20, 22, 23, 24, and 25. Figure 1.02-1 shows the location of existing unit wells in the City of Fond du Lac. Site plans for the individual wells are provided in Appendix B. The City water system serves approximately 43,900 people and consists of 15 active wells (excluding Well No. 22, which is inactive), 6 booster pumping facilities, 5 ground storage reservoirs, 3 active elevated water storage tanks, and approximately 210 miles of water distribution mains. The water system is divided into three separate pressure zones: the Lower Zone, Upper Zone 1, and Upper Zone 2. Unit wells in the North Well Field are in the Lower Zone and unit wells in the South Well Field are in Upper Zone 1.

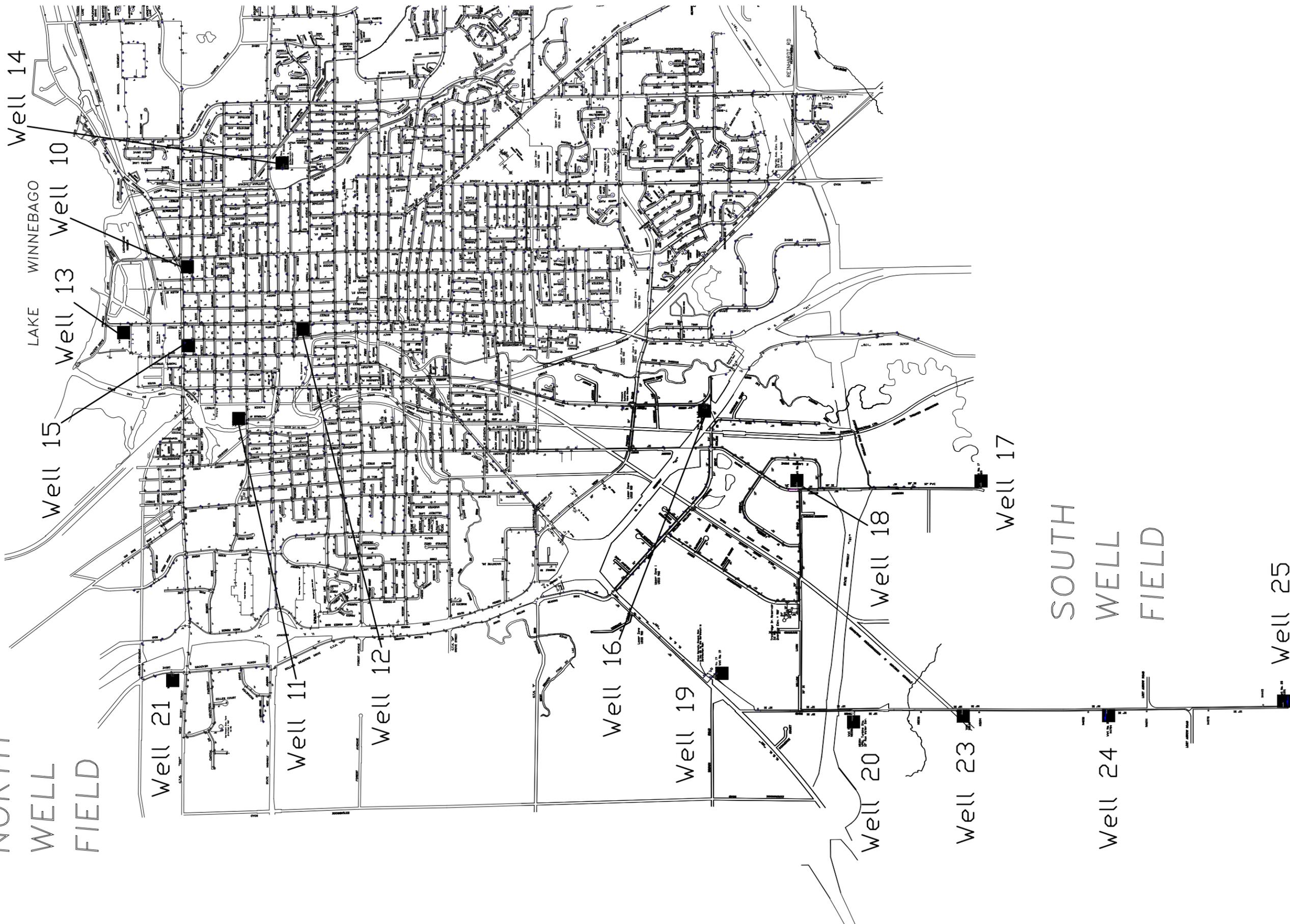
### A. North Well Field

For each of the fifteen unit wells, well construction details and formation logs prepared by the well drillers are provided as Appendix C.

#### 1. Well No. 10

Well No. 10 is located on the north side of 169 Bischoff Street on a 52- by 120-foot lot in a residential neighborhood. The site is in the NW $\frac{1}{4}$  of the NW $\frac{1}{4}$  of Section 11, Township 15 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 10 is located approximately 2,700 feet southeast of Well No. 13 and 2,350 feet east of Well No. 15. Well No. 10 was constructed in 1932 and was placed in service in 1933. Water from the well discharges into the Merrill Avenue ground storage reservoir. It was constructed to a depth of 885 feet. The well is cased with a 20-inch outer diameter (OD) casing that extends 108 feet below ground with a 10-inch grouted inner diameter (ID) casing from the surface to a depth of 117 feet. A

NORTH  
WELL  
FIELD



SOUTH  
WELL  
FIELD

LOCATION OF UNIT WELLS  
WELL HEAD PROTECTION PLAN

CITY OF FOND DU LAC  
FOND DU LAC COUNTY, WISCONSIN



FIGURE NO. 1.02-1

1063045

\$FILES\$

\$USERS\$

\$DATES\$

\$TIMES\$

20-inch-diameter open borehole extends from 117 to 885 feet in depth. Sinnipee dolomite was encountered at a depth of 100 feet. St. Peter sandstone was encountered at a depth of 300 feet, and Cambrian sandstone was encountered at a depth of 490 feet. Precambrian slate was encountered at a depth of 835 feet. Well No. 10 was test pumped at a rate of 620.0 gallons per minute (gpm) for four hours. The specific capacity of Well No. 10 was approximately 13.47 gallons per minute per foot (gpm/ft) of drawdown when the well was constructed.

2. Well No. 11

Well No. 11 is located on the north side of 285 West Arndt Street on a 35-by 84-foot lot in an industrial area. The site is in the SW $\frac{1}{4}$  of the NW $\frac{1}{4}$  of Section 10, Township 15 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 11 is located approximately 2,800 feet southwest of Well No. 15 and 3,200 feet northwest of Well No. 12. Well No. 11 was constructed in 1945 and was placed in service in 1947. Water from the well discharges into the Merrill Avenue ground storage reservoir. It was constructed to a depth of 760 feet. The well is cased with a 20-inch OD casing that extends 70 feet below ground with a 16-inch grouted ID casing from the surface to a depth of 80 feet. A 15-inch-diameter open borehole extends from 80 to 760 feet in depth. Sinnipee dolomite was encountered at a depth of 70 feet. St. Peter sandstone was encountered at a depth of 265 feet, and Cambrian sandstone was encountered at a depth of 450 feet. Precambrian quartzite was encountered at a depth of 750 feet. Well No. 11 was test pumped at a rate of 822.0 gpm for four hours. The specific capacity of Well No. 11 was approximately 34.6 gpm/ft of drawdown when the well was constructed.

3. Well No. 12

Well No. 12 is located on the east side of 101 North Macy Street, adjacent to the Merrill Avenue storage reservoir. The site is in the NW $\frac{1}{4}$  of the SE $\frac{1}{4}$  of Section 10, Township 15 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 12 is located approximately 3,200 feet southwest of Well No. 11 and 3,500 feet south of Well No. 15. Well No. 12 was constructed in 1946 and was placed in service in 1947. Water from the well discharges into the Merrill Avenue ground storage reservoir. It was constructed to a depth of 745 feet. The well is cased with an 18-inch OD casing that extends 104.3 feet below ground with a 16-inch grouted ID casing from the surface to a depth of 116 feet. A 15 1/4-inch-diameter open borehole extends from 116 to 745 feet in depth. Sinnipee dolomite was encountered at a depth of 105 feet. St. Peter sandstone was encountered at a depth of 300 feet, and Cambrian sandstone was encountered at a depth of 470 feet. Precambrian quartzite was encountered at a depth of 740 feet. Well No. 12 was test pumped at a rate of 907.0 gpm for 24 hours. The specific capacity of Well No. 12 was approximately 16.8 gpm/ft of drawdown when the well was constructed.

4. Well No. 13

Well No. 13 is located at 648 North Main Street on the south side of Lakeside Park. The site is in the NW $\frac{1}{4}$  of the SE $\frac{1}{4}$  of Section 3, Township 15 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 13 is located approximately 2,700 feet northwest of Well No. 10 and 1,950 feet north of Well No. 15. Well No. 13 was constructed and placed in service in 1948.

Water from the well discharges into the Merrill Avenue ground storage reservoir. It was constructed to a depth of 790 feet. The well is cased with a 20-inch OD casing that extends 80 feet below ground with a 16-inch grouted ID casing from the surface to a depth of 90 feet. A 15-inch-diameter open borehole extends from 90 to 790 feet in depth. Sinipee dolomite was encountered at a depth of 65 feet. St. Peter sandstone was encountered at a depth of 290 feet. Prairie du Chien dolomite was encountered at a depth of 385 feet. Cambrian sandstone was encountered at a depth of 435 feet. Well No. 13 was test pumped at a rate of 900.0 gpm for 24 hours. The specific capacity of Well No. 13 was approximately 8.43 gpm/ft of drawdown when the well was constructed.

5. Well No. 14

Well No. 14 is located at 464 East Johnson Street on a 208- by 208-foot lot adjacent to McDermott Park. The site is in the NW¼ of the SE¼ of Section 11, Township 15 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 14 is located approximately 4,350 feet southeast of Well No. 10 and 5,250 feet east of Well No. 12. Well No. 14 was constructed and placed in service in 1953. Water from the well discharges into the McDermott ground storage reservoir. It was constructed to a depth of 835 feet. The well is cased with a 24-inch OD casing that extends 143.75 feet below ground with a 16-inch grouted ID casing from the surface to a depth of 154.66 feet. A 15 1/4-inch-diameter open borehole extends from 154.66 to 579 feet and a 12-inch-diameter open borehole extends from 579 to 835 feet in depth. There were liners placed between the layers of St. Peter and Cambrian sandstones because of soft caving. A 12-inch-diameter casing extends from 455 to 508 feet with a 10-inch ID casing from 478 to 498 feet. A second 12-inch-diameter slotted casing extends from 508 to 523 feet followed by a 12-inch-diameter casing from 523 to 579 feet. Sinipee dolomite was encountered at a depth of 105 feet. St. Peter sandstone was encountered at a depth of 345 feet, and Cambrian sandstone was encountered at a depth of 505 feet. Precambrian quartzite was encountered at a depth of 825 feet. Well No. 14 was test pumped at a rate of 380.0 gpm. The specific capacity of Well No. 14 was approximately 2.93 gpm/ft of drawdown when the well was constructed.

6. Well No. 15

Well No. 15 is located at 53 West Bank Street on a 60- by 130-foot lot in a residential neighborhood. The site is in the NW¼ of the NE¼ of Section 10, Township 15 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 15 is located approximately 1,950 feet south of Well No. 13 and 2,350 feet west of Well No. 10. Well No. 15 was constructed in 1952 and placed in service in 1953. Water from the well discharges into the Merrill Avenue ground storage reservoir. It was constructed to a depth of 825 feet. The well is cased with a 20-inch OD casing that extends 90 feet below ground and with a 16-inch grouted ID casing from the surface to a depth of 101 feet. A 15 1/4-inch-diameter open borehole extends from 101 to 825 feet in depth. Sinipee dolomite was encountered at a depth of 80 feet. St. Peter sandstone was encountered at a depth of 300 feet, and Cambrian sandstone was encountered at a depth of 430 feet. Precambrian quartzite was encountered at a depth of 810 feet. Well No. 15 was test pumped at a rate of 975.0 gpm. The specific capacity of Well No. 15 was approximately 9.5 gpm/ft of drawdown when the well was constructed.

7. Well No. 21

Well No. 21 is located at 610 North Rolling Meadows Drive on a 300- by 300-foot lot just west of Highway 41. The site is in the SE $\frac{1}{4}$  of the SE $\frac{1}{4}$  of Section 5, Township 15 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 21 is located approximately 8,100 feet northwest of Well No. 11 and Well No. 10, and 100 feet west of Well No. 15. Well No. 21 was constructed in 1971 and placed in service in 1972. Water from the well discharges directly into the distribution system of the lower pressure zone. It was constructed to a depth of 784 feet. The well is cased with a 26-inch OD casing that extends 53 feet below ground with an 18-inch grouted ID casing from the surface to a depth of 222 feet. A 17-inch-diameter open borehole extends from 222 to 575 feet, and a 12-inch-diameter open borehole extends from 575 to 784 feet in depth. Sinipee dolomite was encountered at a depth of 35 feet. St. Peter sandstone was encountered at a depth of 200 feet. Prairie du Chien dolomite was encountered at a depth of 305 feet. Cambrian sandstone was encountered at a depth of 355 feet. Precambrian quartzite was encountered at a depth of 585 feet. Well No. 21 was test pumped at a rate of 580.0 gpm for 16 hours. The specific capacity of Well No. 21 was approximately 2.0 gpm/ft of drawdown when the well was constructed.

B. South Well Field

1. Well No. 16

Well No. 16 is located at 1822 Morris Street on a large lot in an industrial area. The site is in the NW $\frac{1}{4}$  of the NW $\frac{1}{4}$  of Section 28, Township 15 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 16 is located approximately 3,500 feet northeast of Well No. 18 and 7,950 feet east of Well No. 19. Well No. 16 was constructed and placed in service in 1965. Water from the well discharge is currently being routed to the Trowbridge reservoir. It was constructed to a depth of 970 feet. The well is cased with a 20-inch OD casing that extends 164.75 feet below ground with a 16-inch grouted ID casing from the surface to a depth of 402.25 feet. A 19 1/4-inch-diameter open borehole extends from 402.25 to 970 feet in depth. Sinipee dolomite was encountered at a depth of 160 feet. St. Peter sandstone was encountered at a depth of 380 feet. Prairie du Chien dolomite was encountered at a depth of 460 feet. Cambrian sandstone was encountered at a depth of 575 feet. Precambrian quartzite was encountered at a depth of 965 feet. Well No. 16 was test pumped at a rate of 720.0 gpm for 12 hours. The specific capacity of Well No. 16 was approximately 2.56 gpm/ft of drawdown when the well was constructed.

2. Well No. 17

Well No. 17 is located at N5089 Hickory Road on a 100-foot-square lot just north of the east branch of the Fond du Lac River in an agricultural area. The site is in the NE $\frac{1}{4}$  of the SE $\frac{1}{4}$  of Section 33, Township 15 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 17 is located approximately 5,600 feet south of Well Nos. 18 and 7, and 100 feet east of Well No. 23. Well No. 17 was constructed in 1975 and placed into service in 1977. Water from the well discharges to the lower pressure zone through the Trowbridge Drive ground storage reservoir. It was constructed to a depth of 1,025 feet. The well is cased with a 24-inch OD casing that

extends 159 feet below ground with an 18-inch grouted ID casing from the surface to a depth of 384.42 feet. A 17 1/4-inch-diameter open borehole extends from 384.42 to 655 feet and a 13 1/4-inch-diameter open borehole extends from 655 to 1,025 feet in depth. There is also a 14-inch-diameter grouted casing that extends from 363.33 to 553 feet. Sinipee dolomite was encountered at a depth of 160 feet. St. Peter sandstone was encountered at a depth of 365 feet, and Cambrian sandstone was encountered at a depth of 555 feet. Precambrian quartzite was encountered at a depth of 1,015 feet. Well No. 17 was test pumped at a rate of 708.0 gpm for 24 hours. The specific capacity of Well No. 17 was approximately 3.4 gpm/ft of drawdown when the well was constructed.

3. Well No. 18

Well No. 18 is located at 1445 South Hickory Street on a large lot in an agricultural area. The site is in the SE $\frac{1}{4}$  of the NE $\frac{1}{4}$  of Section 28, Township 15 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 18 is located approximately 3,500 feet southwest of Well No. 16 and 5,600 feet north of Well No. 17. Well No. 18 was constructed in 1966 and placed into service in 1967. Water from the well discharges to the lower pressure zone through the Trowbridge Drive ground storage reservoir. It was constructed to a depth of 989 feet. The well is cased with a 26-inch OD casing that extends 159.67 feet below ground with a 20-inch grouted ID casing from the surface to a depth of 378 feet. A 19-inch-diameter open borehole extends from 378 to 989 feet in depth. Sinipee dolomite was encountered at a depth of 155 feet. St. Peter sandstone was encountered at a depth of 370 feet. Prairie du Chien dolomite was encountered at a depth of 500 feet. Cambrian sandstone was encountered at a depth of 545 feet. Precambrian quartzite was encountered at a depth of 985 feet. Well No. 18 was test pumped at a rate of 700.0 gpm for four hours. The specific capacity of Well No. 18 was approximately 3.7 gpm/ft of drawdown when the well was constructed.

4. Well No. 19

Well No. 19 is located at N5701 Highway 51 on a large lot adjacent to the Rolling Meadows Golf Course. The site is in the SW $\frac{1}{4}$  of the SE $\frac{1}{4}$  of Section 20, Township 15 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 19 is located approximately 4,250 feet northeast of Well No. 20 and 6,200 feet northwest of Well No. 18. Well No. 19 was constructed in 1968 and placed into service in 1969. Water from the well discharges to the lower pressure zone through the Trowbridge Drive ground storage reservoir. It was constructed to a depth of 870 feet. The well is cased with a 26-inch OD casing that extends 127 feet below ground with a 20-inch grouted ID casing from the surface to a depth of 345 feet. A 19-inch-diameter open borehole extends from 345 to 870 feet in depth. Sinipee dolomite was encountered at a depth of 120 feet. St. Peter sandstone was encountered at a depth of 335 feet. Prairie du Chien dolomite was encountered at a depth of 405 feet. Cambrian sandstone was encountered at a depth of 500 feet. Precambrian quartzite was encountered at a depth of 860 feet. Well No. 19 was test pumped at a rate of 700.0 gpm for 10 hours. The specific capacity of Well No. 19 was approximately 3.0 gpm/ft of drawdown when the well was constructed.

5. Well No. 20

Well No. 20 is located at N5388 River Road on a 70- by 193-foot lot in a rural area. The site is in the SE¼ of the SW¼ of Section 29, Township 15 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 20 is located approximately 4,250 feet southwest of Well No. 19 and 3,350 feet north of Well No. 23. Well No. 20 was constructed in 1969 and placed into service in 1970. Water from the well discharges to the lower pressure zone through the Trowbridge Drive ground storage reservoir. It was constructed to a depth of 911 feet. The well is cased with a 26-inch OD casing that extends 137 feet below ground with a 20-inch grouted ID casing from the surface to a depth of 364 feet. A 19-inch-diameter open borehole extends from 364 to 911 feet in depth. Sinnipee dolomite was encountered at a depth of 130 feet. St. Peter sandstone was encountered at a depth of 350 feet. Prairie du Chien dolomite was encountered at a depth of 425 feet. Cambrian sandstone was encountered at a depth of 515 feet. Well No. 20 was test pumped at a rate of 700.0 gpm for 16 hours. The specific capacity of Well No. 20 was approximately 2.65 gpm/ft of drawdown when the well was constructed.

6. Well No. 23

Well No. 23 is located on a triangular lot on the west side of the road at N5146 River Road. The site is in the SE¼ of the NW¼ of Section 32, Township 15 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 23 is located approximately 4,400 feet north of well 24 and 3,450 feet south of Well No. 20. Well No. 23 was constructed in 1991 and placed into service in 1993. Water from the well discharges to the lower pressure zone through the Trowbridge Drive ground storage reservoir. It was constructed to a depth of 965 feet. The well is cased with a 24-inch OD casing that extends 20 feet below ground with a 16-inch grouted ID casing from the surface to a depth of 364 feet. A 15-inch-diameter open borehole extends from 364 to 965 feet in depth. Maquoketa shale was encountered at a depth of 70 feet. Sinnipee dolomite was encountered at a depth of 135 feet. St. Peter sandstone was encountered at a depth of 355 feet. Prairie du Chien dolomite was encountered at a depth of 430 feet. Cambrian sandstone was encountered at a depth of 485 feet. Precambrian quartzite was encountered at a depth of 950 feet. Well No. 23 was test pumped at a rate of 807.0 gpm for 24 hours. The specific capacity of Well No. 23 was approximately 3.3 gpm/ft of drawdown when the well was constructed.

7. Well No. 24

Well No. 24 is located on the west side of the road at N4784 River Road. The site is in the SE¼ of the NW¼ of Section 5, Township 14 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 24 is located approximately 4,400 feet south of Well No. 23, and 5,350 feet north of Well No. 25. Well No. 23 was constructed in 1991 and placed into service in 1993. Water from the well discharges into the Trowbridge Drive ground storage reservoir. It was constructed to a depth of 1,055 feet. The well is cased with a 24-inch OD casing that extends 95 feet below ground with a 16-inch grouted ID casing from the surface to a depth of 385 feet. A 15-inch-diameter open borehole extends from 385 to 1,055 feet in depth. Maquoketa shale was encountered at a depth of 50 feet. Sinnipee dolomite was encountered at a depth of 150 feet. St. Peter sandstone was encountered at a depth of 370 feet. Prairie du Chien dolomite was

encountered at a depth of 415 feet. Cambrian sandstone was encountered at a depth of 505 feet. Precambrian quartzite was encountered at a depth of 1,011 feet. Well No. 24 was test pumped at a rate of 822.0 gpm for 24 hours. The specific capacity of Well No. 24 was approximately 2.49 gpm/ft of drawdown when the well was constructed.

8. Well No. 25

Well No. 25 is located on a 210- by 208-foot lot at N4391 River Road. The site is in the SW¼ of the NE¼ of Section 8, Township 14 North, Range 17 East, Fond du Lac County, Wisconsin. Well No. 25 is located approximately 5,350 feet south of Well No. 24 and 11,300 feet southwest of Well No. 17. Well No. 25 was constructed in 1991 and placed into service in 1993. Water from the well discharges to the lower pressure zone through the Trowbridge Drive ground storage reservoir. It was constructed to a depth of 1,140 feet. The well is cased with a 24-inch OD casing that extends 89 feet below ground with a 16-inch grouted ID casing from the surface to a depth of 373 feet. A 15-inch-diameter open borehole extends from 373 to 1,140 feet in depth. Maquoketa shale was encountered at a depth of 115 feet. Sinipee dolomite was encountered at a depth of 144 feet. St. Peter sandstone was encountered at a depth of 355 feet. Prairie du Chien dolomite was encountered at a depth of 415 feet. Cambrian sandstone was encountered at a depth of 525 feet. Precambrian quartzite was encountered at a depth of 980 feet. Well No. 25 was test pumped at a rate of 807.0 gpm for 24 hours. The specific capacity of Well No. 25 was approximately 4.0 gpm/ft of drawdown when the well was constructed.

### 1.03 REFERENCES

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*Groundwater Supply Study*, prepared by Kaempfer & Associates Inc., 1997.

## 1.04 DEFINITIONS

AST	aboveground storage tank
BMS	Brownfield Management System
CCR	Consumer Confidence Report
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System
CSI	contaminant source inventory
DNR	Wisconsin Department of Natural Resources ()
ERNS	Emergency Response Notification System
ERP	Emergency Repair Program
ft/day	feet per day
ft/ft	feet per foot
GIS	geographical information system
gpm	gallons per minute
gpm/ft	gallons per minute per foot
ID	inner diameter
in/yr	inches per year
LUST	leaking underground storage tank
MSL	mean sea level
NFRAP	No Further Remedial Action Planned Comprehensive Environmental Response Compensation and Liability Information System
NPL	National Priority List
OD	outer diameter
PAL	Preventive Action Limit
RCP	reinforced concrete pipe
RCRA COR ACT	Resource Conservation and Recovery Information System Sites
RCRA GEN	Resource Conservation and Recovery Information System Generators
RCRA TSD	Resource Conservation and Recovery Information System Treatment, Storage, and Disposal Facilities
TOT	time of travel
USGS	United States Geological Survey
UST	underground storage tank
VCP	vitrified clay pipe
WHP	wellhead protection
WHPP	Wellhead Protection Plan
WHPA	Wellhead Protection Area
ZOCs	zones of contribution
ZOI	zone of influence

**SECTION 2**  
**HYDROGEOLOGIC CONDITIONS**

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## 2.01 LAND USE, TOPOGRAPHY, AND DRAINAGE

Land use varies by well location but includes commercial, agricultural, industrial, recreational, and residential development. A more specific description of land use at each well site is found in Section 4.

The general topography of the City Fond du Lac is comprised of a gently sloping plain that extends southward from Lake Winnebago. Outside of the city limits to the south and west, approximately 3 to 4 miles from Lake Winnebago, is a ridge. About the same distance to the east and southeast is the Niagara Escarpment. Topographic elevations in the Fond du Lac area range from approximately 747 feet above mean sea level (MSL) near Lake Winnebago to approximately 1,160 feet at the top of the Niagara Escarpment.

The surface elevation at the North Field Well Nos. 10, 11, 12, 13, 14, 15, and 21 is approximately 753, 754, 758, 750, 757, 751, and 768 feet MSL, respectively. The surface elevation at South Field Well Nos. 16, 17, 18, 19, 20, 23, 24, and 25 is approximately 808, 820, 832, 837, 839, 835, 837, and 845 feet MSL, respectively.

Drainage in the vicinity of the North Field Wells is northerly toward Lake Winnebago. Drainage in the vicinity of the South Field Wells is westerly to the west branch of the Fond du Lac River.

Appendix D is an excerpt (Chapter 3) from the 1997 report, *Groundwater Supply Study*, prepared by Kaempfer & Associates Inc. for the City of Fond du Lac. The report excerpt provides additional details on the Fond du Lac area physical environment and land use.

## 2.02 GEOLOGY

The Fond du Lac area was glaciated by the Green Bay Lobe during the Wisconsin Stage. The rocks and unlithified deposits in the area range from Precambrian basement rocks to recent soils. The bedrock from oldest to youngest includes Precambrian crystalline rocks and Cambrian and Ordovician age bedrock consisting of sandstone, dolomite, and shale. Just east of Fond du Lac, Silurian dolomite is also present.

Refer to the geologic cross sections and Table 3-1 in Appendix D for additional information on the Fond du Lac area geology. Formation logs for strata encountered at each unit well are provided in Appendix C. The stratigraphic sequence encountered in the wells is briefly described in the following paragraphs.

### A. Crystalline Basement Bedrock

Crystalline rocks of Precambrian age form the basement rock for most of the wells in the City of Fond du Lac. Crystalline basement bedrock was encountered in water supply Well Nos. 10, 11, 12, 14, 15, and 21 at depths of 835, 750, 740, 825, 810, and 585 feet MSL, respectively, but it was not encountered in water supply Well No. 13. Crystalline basement bedrock encountered in Well Nos. 11, 12, 14, 15, and 21 is quartzite and Well No. 10 is slate.

Crystalline basement bedrock was encountered in water supply Well Nos. 16, 17, 18, 19, 20, 23, 24, and 25 at depths of 965, 1015, 985, 860, 950, 1011, and 980 feet MSL, respectively, but it was not encountered in water supply Well No. 20. Crystalline basement bedrock encountered at these wells is quartzite.

B. Consolidated Sedimentary Bedrock

Consolidated sedimentary bedrock encountered in the north unit wells include in descending order the Sinnipee Group, the St. Peter Group, the Prairie du Chien Group, and then Cambrian age sandstones. Consolidated sedimentary bedrock encountered in the south unit wells include in descending order the Maquoketa formation, the Sinnipee Group, the St. Peter Group, the Prairie du Chien Group, and then Cambrian age sandstones.

The consolidated sedimentary bedrock dips gently to the east and southeast and is from the Cambrian and Ordovician geologic periods. The Maquoketa formation, known as Maquoketa shale, lies at the base of the Niagara Escarpment, and wells that encounter this formation must be cased through the shale because it often sloughs into the open hole. This layer is encountered in Well Nos. 23, 24, and 25.

The Sinnipee Group forms the bedrock beneath the drift for all unit wells excluding Well Nos. 23, 24, and 25. The Sinnipee Group includes the Galena, Decorah, and Platteville formations. This Group can be described as dolomitic and ranges from an average of 200 to 335 feet in thickness.

The St. Peter Group is comprised of fine to medium-grained sandstone and is one of the major water-producing units for the City of Fond du Lac. Most of the wells that obtain their water from the St. Peter Group also obtain part of their supply from overlying and underlying formations. The St. Peter Group ranges in thickness from 40 to 160 feet.

The Prairie du Chien Group is a cherty dolomitic layer with beds of shale. This layer is encountered in all south unit wells and in Well Nos. 13 and 21 in the North Well Field. The thickness of this layer can vary greatly from being completely removed to up to 115 feet.

Cambrian age formations (in the Tunnel City and Elk Mound Groups) vary from fine to coarse-grained sandstones, dolomitic and silty to layers of shale, siltstone, and dolomite. The units that comprise the Tunnel City and the Elk Mound groups appear to be the major sources of groundwater for the City of Fond du Lac and are encountered in all unit wells. The thickness of this layer can range from 0 to 440 feet.

C. Unconsolidated Sedimentary Rocks

Bedrock is mantled by unlithified glacial till and alluvial deposits. The alluvial material exists along streams in small amounts. Most surface material is glacial drift. The drift is composed of stratified clays, sands, and gravel where the major agent of deposition was water. Drift in Fond du Lac varies from 0 to more than 100 feet in thickness. This layer is not an adequate source of groundwater for high yield wells in the City of Fond du Lac.

The three major soils in Fond du Lac are classified as Manawa silt loam, Poygan silty clay loam, and Kewaunee silt loam. Other nearby soils in drainage courses areas are DePere silty clay loam and Poygan silty clay loam. Three other major soils series are scattered throughout Fond du Lac which include Keowns, Peebles, and Oshkosh. All major soil types except Keowns have a high shrink well potential. The risk of corrosion for uncoated steel is moderate to high and for concrete is low.

### 2.03 HYDROGEOLOGY

In the study area, groundwater occurs within the lower bedrock aquifer and upper bedrock aquifer. The surface deposits are not an adequate source of groundwater for high-yield wells for the City of Fond du Lac. The Sinnipee Group provides small to moderate amounts of groundwater to agricultural and domestic wells. Municipal and industrial wells are constructed into the lower bedrock aquifer. Following is a brief discussion about the aquifers.

#### A. Lower Bedrock Aquifer

The lower bedrock aquifer is made up of Cambrian age sandstone units, and the Prairie du Chien dolomite is typically considered a confining unit above. The permeability of the lower aquifer is variable and in some locations may produce limited amounts of groundwater. However, the saturated thickness of the lower bedrock aquifer is approximately 355 to 505 feet thick and 485 to 575 feet thick in the North Well Field and South Well Field, respectively, producing good yields for the municipal wells in these fields. (Kaempfer, 1997) The hydraulic conductivity of the lower bedrock aquifer varies from approximately 0.6 to 6 feet per day (ft/day) (Cherkauer, 2003). The porosity is estimated to be about 14 percent (Cherkauer, 2003).

In general, the difference between the North wells and South wells is that most of the newer wells located in the South Well Field are cased through the Sinnipee layer and are only open to a portion of the St. Peter sandstone. The wells in the North Well Field are typically open to the entire upper and lower aquifers.

In May 2007, the potentiometric surface of the South unit wells was 59 to 95 feet below ground surface. (DNR Water Well Data)

#### B. Upper Bedrock Aquifer

The upper bedrock aquifer consists of the Sinnipee dolomite and St. Peter sandstone. The Maquoketa shale is a confining unit above these Groups. In general the older unit wells found in the North Well Field are open to the upper bedrock aquifer and the lower bedrock aquifer. The combined thickness of the St. Peter sandstone and Sinnipee dolomite in the North Well Field varies from 270 to 400 feet. The saturated thickness of the upper bedrock aquifer in the North Well Field varies from 35 to 105 feet.

The combined thickness of the St. Peter sandstone and Sinnipee dolomite in the South Well Field varies from 285 to 395 feet. The saturated thickness of the upper bedrock aquifer in the South Well Field varies from 45 to 190 feet. In May 2007, the potentiometric surface of the North unit wells, excluding Well Nos. 23, 24, and 25, was 35 to 103 feet below ground surface. Well Nos. 23, 24, and 25 have potentiometric surfaces varying from 170 to 195 feet below the surface (DNR Water Well Data).

The hydraulic conductivity of the upper bedrock aquifer is approximately 1 to 2 ft/day for the Sinipee Group and 4 to 8 ft/day for the St. Peter Group (Cherkauer, 2003). The porosity of the Groups is estimated to be approximately 4.87 and 14.47 percent, respectively (Cherkauer, 2003).

A potentiometric surface elevation map for the St. Peter sandstone (Pfeiffer and Bradbury, 2002a) is provided as Appendix E.

C. Till Aquifer

The till aquifer occurs at the near surface and is made up of Pleistocene till and Silurian dolomite. The till aquifer is a low water producing layer and supplies water for residential and other low capacity private wells. Where present, the hydraulic conductivity of the till varies from about 12 to 46 ft/day for the Pleistocene till and from about 3.5 to 12 ft/day for the Silurian dolomite. Porosity values also vary depending on the material, about 30 percent and 4.94 percent, respectively. A water table elevation map (Pfeiffer and Bradbury, 2002b) is provided as Appendix F.

D. Groundwater Flow System

Average annual precipitation in the City of Fond du Lac area is reported to be approximately 29 inches per year (Newport, 1962). Movement of groundwater is generally east toward Fond du Lac from groundwater divides in the western and southern parts of the county. A deep cone of depression has formed under the City of Fond du Lac because of extensive pumping from municipal wells in the North and South Fields and at other nearby communities. At Fond du Lac, groundwater in the sandstone aquifers moves toward the cone of depression from all directions. The recharge rate in Fond du Lac County ranges from 0.0 to 8.2 inches per year (in/yr) and has an average value of 2.0 in/yr in the Fond du Lac area (Cherkauer, 2003). Recharge of groundwater is mainly due to precipitation. Lake Winnebago has a clay and marl bottom that restricts water from moving downward. Water recharges the bedrock formations where the units are near the surface. This occurs west of the Niagara Escarpment to the groundwater divides south and west of the City. The recharge then runs down the hydraulic gradient toward the City of Fond du Lac. From the geology maps in the Newport report (1962), the estimated regional hydraulic gradient is approximately 0.0027 feet per foot (ft/ft) for the Galena dolomite/Platteville formation and 0.0021 ft/ft for the Maquoketa shale.

**SECTION 3**  
**WELLHEAD PROTECTION AREA DELINEATION**

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### 3.01 OVERVIEW

This chapter describes methodologies used to define the Zone of Influence (ZOI) and Zone of Contribution (ZOC) for the existing City of Fond du Lac wells. The City's 15 active wells include, in the North Well Field, Well Nos. 10 through 15, and 21, and in the South Well Field, Well Nos. 16 through 20 and 23 through 25.

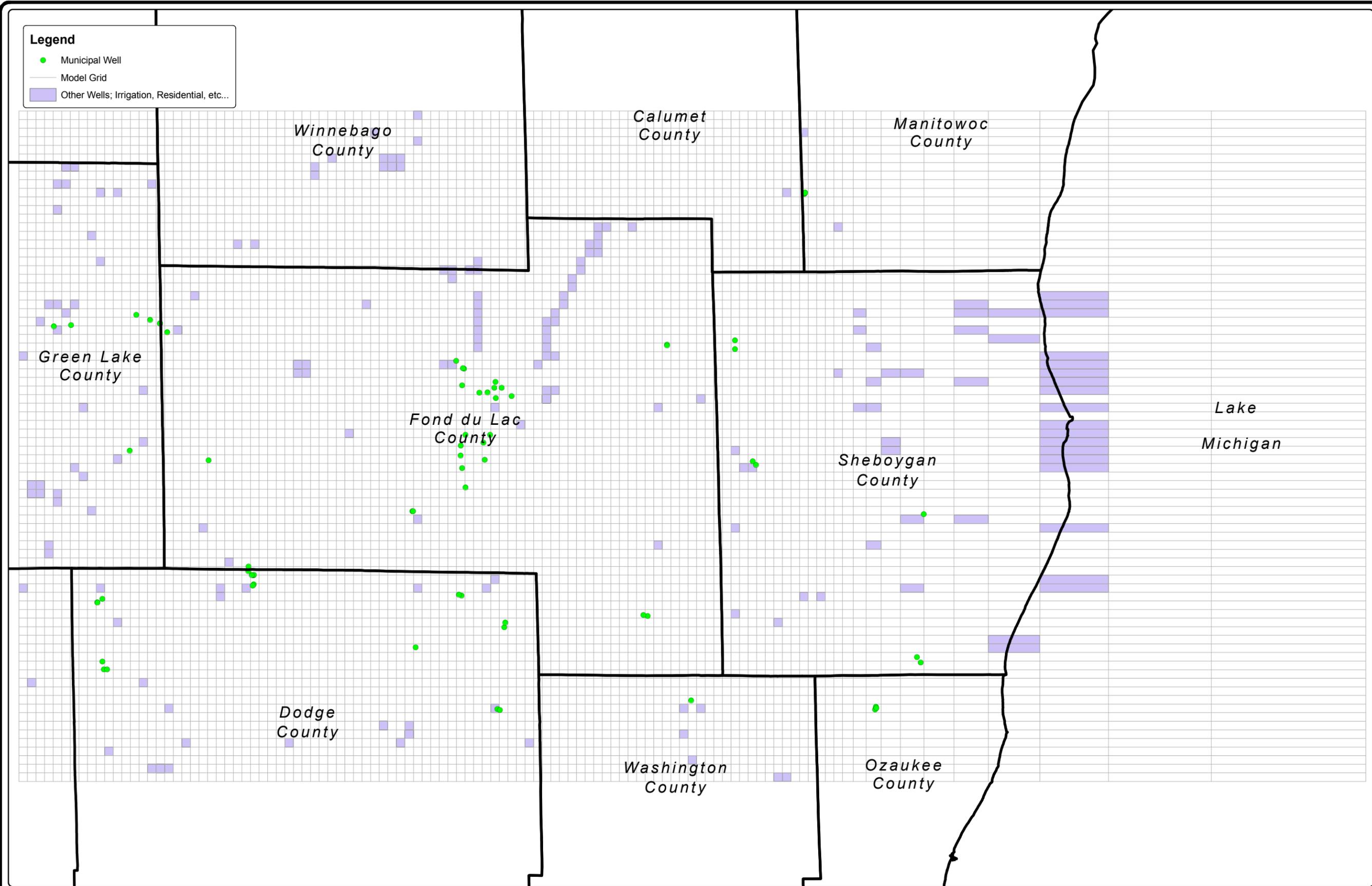
A groundwater flow model was used to define the ZOI for the well fields and the ZOC for each well. The groundwater flow model used is a refined version of the finite-difference groundwater flow model created previously for Fond du Lac County. The original Fond du Lac County Groundwater Model (County Model) is a three-dimensional, steady-state flow model constructed with the United States Geological Survey (USGS) MODFLOW code. The County Model was developed in 2003 by Dr. Douglas Cherkauer, University of Wisconsin-Milwaukee, and Douglas Carlson, Louisiana Geological Survey (Cherkauer, 2003). The County Model includes 10 layers that are variable in thickness. In Fond du Lac County, layer 1 is Pleistocene deposits, layer 2 is Silurian dolomite, layer 3 is Maquoketa shale, layer 4 is Sinnipee dolomite, layer 5 is St. Peter sandstone, layer 6 is Prairie du Chien dolomite, and layers 7 through 10 are Cambrian sandstone. The geologic units simulated as layers 2 to 4 pinch out to the west in the modeled area. Where they have been eroded away, the layers are simulated in the model as having the weathered properties of the topmost rock. The major confining unit in the Fond du Lac area is the Maquoketa shale (layer 3). The Sinnipee dolomite (layer 4) functions as a relatively low conductivity aquifer or as a semiconfining unit in the area. Municipal wells in the Fond du Lac area typically withdraw water from below these layers. Figure 3.01-1 identifies the County Model area, grid, and well locations. For additional information related to the County Model, refer to the report prepared by Cherkauer and Carlson titled *Development and Calibration of a Ground Water Flow Model of Fond du Lac County, Wisconsin*, January 2003.

Analysis of the Fond du Lac well fields was completed as part of another project for the City. For that project, the County Model was changed from steady-state to transient and the model grid was refined in the Fond du Lac area. Transient pumping rates were entered for City of Fond du Lac wells and for other municipal wells near Fond du Lac, and various future pumping scenarios were simulated to predict aquifer responses in the year 2040. The refined groundwater flow model (Refined Model) was then used to complete well field analysis and evaluate the aquifer's ability to meet future water supply demands.

For this WHPP, the Refined Model was also used to define the ZOI for the Fond du Lac well fields and the ZOC for each of the City's 15 unit wells.

### 3.02 ZOI

The ZOI for the North and South Well Fields was estimated in accordance with Wisconsin Department of Natural Resources (DNR) requirements based on 30 days of continuous pumping at the rated pump capacities and assuming no aquifer recharge. The ZOI was determined using the Refined Model by contouring the drawdown generated by pumping both Fond du Lac well fields under the given parameters. The simulated ZOI is defined by the area bounded by the 1-foot drawdown contour line. The estimated ZOI for the North and South Well Fields combined is approximately 657 square miles, covering the eastern two-thirds of the county and extending north and south beyond the limits of Fond



COUNTY MODEL GRID AND WELL LOCATIONS  
WELL HEAD PROTECTION PLAN

CITY OF FOND DU LAC  
COUNTY OF FOND DU LAC, WISCONSIN



FIGURE 3.01-1  
1-063.045

S:\@SAI\051--100\063\045\Data\GIS\Figures\Figure 3.01-1 - Scenarios 11x17.mxd

du Lac County. This estimated ZOI is believed to be conservatively large because it is unlikely that the wells would ever be pumped continuously for 30 days at maximum capacity and the aquifer receives significant recharge. The simulated ZOI for model layers 4, 5, and 6 are very similar and these layers represent the uppermost aquifer layers from which the City's wells are withdrawing water. The figure in Appendix G shows the simulated ZOI for Layer 6 of the Refined Model.

### 3.03 GROUNDWATER MODEL DEVELOPMENT AND ZOC DELINEATION

The Refined Model was also used to delineate time-related ZOCs for each of the City's 15 municipal wells. MODPATH (USGS), a particle tracking program that utilizes the MODFLOW groundwater flow results, was used to determine time-related ZOCs.

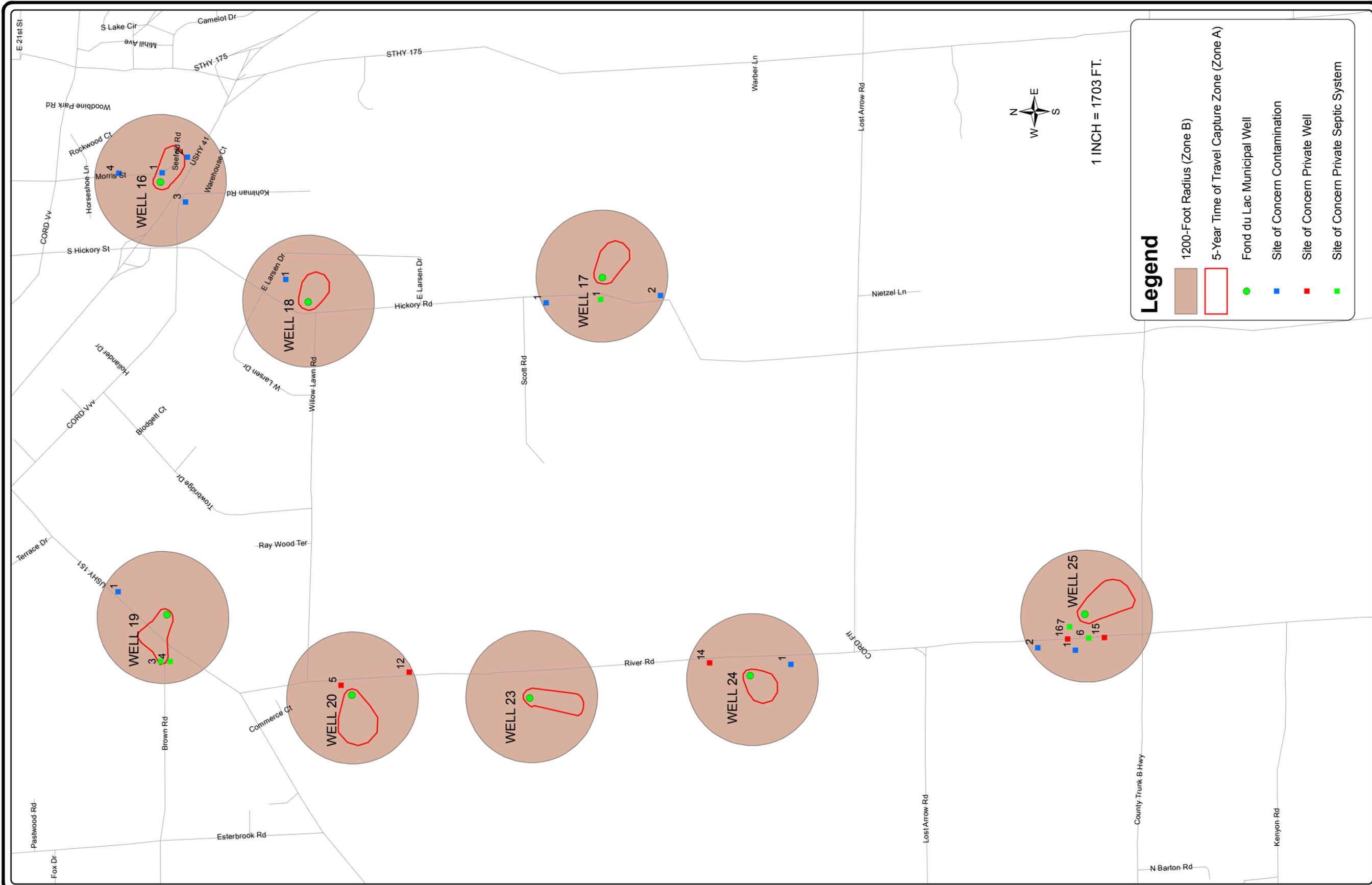
One groundwater flow simulation was performed using the calibrated Refined Model. The simulation was performed using the projected year 2030 average day withdrawal for Fond du Lac municipal wells. The projected average day withdrawal from the North and South Well Fields combined is 7.4 million gallons per day (mgd). The 7.4 mgd was distributed to the 15 active wells based on historic pumping rates for the wells.

MODPATH was used to determine the time-related ZOCs for each well. Particles were input in the model around each well and then tracked backward from the well to points where they enter the groundwater flow system.

### 3.04 ZOC

The area that recharges or contributes water to each well is defined as the ZOC. The areal extent of the ZOC depends on the pumping rate, amount of horizontal and vertical recharge, aquifer characteristics, pumping duration, and other stresses such as other pumping wells. It is beneficial to know the well capture zone because contaminants introduced within the zone could reach the well.

Figures 3.04-1 through 3.04-3 show the 5-year time of travel (TOT) ZOCs for the Fond du Lac wells in the North and South Well Fields, respectively. The ZOCs are based on the projected year 2030 average day pumping demand. The model also includes groundwater withdrawals from other surrounding community municipal wells, such as Oakfield and North Fond du Lac. Table 3.04-1 summarizes the upgradient and downgradient extent of the capture zone for each well.



**SOUTH WELL FIELD  
WELL HEAD PROTECTION AREAS  
CITY OF FOND DU LAC  
FOND DU LAC COUNTY, WISCONSIN**



**FIGURE 3.04-1  
1-063.045**

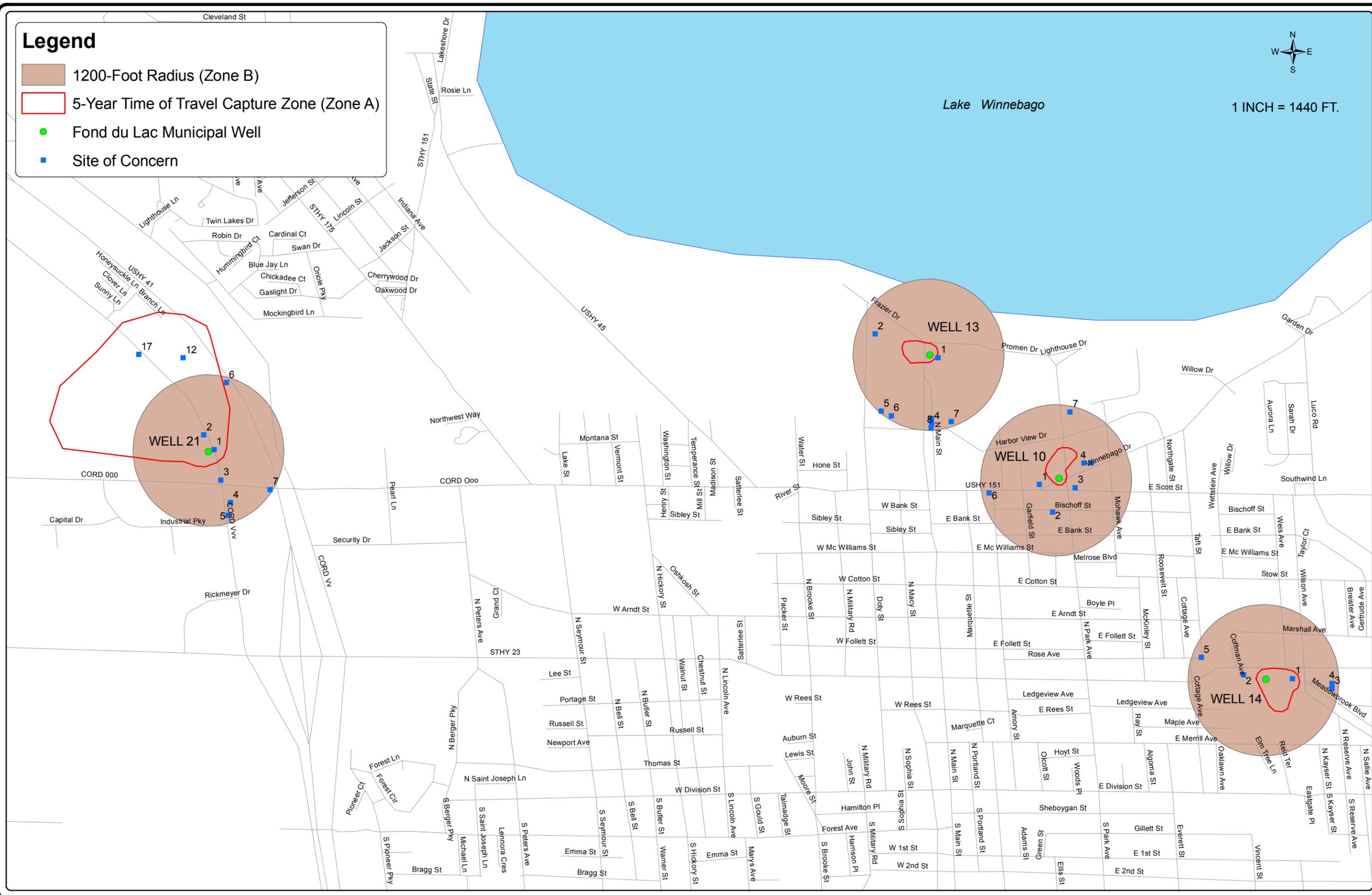
S:\@SAI\051--100\063\045\Data\GIS\Figures\Figure 3.04-1 - South Well Field.mxd

**Legend**

- 1200-Foot Radius (Zone B)
- 5-Year Time of Travel Capture Zone (Zone A)
- Fond du Lac Municipal Well
- Site of Concern



1 INCH = 1440 FT.



**WELLS 10, 13, 14, AND 21  
WELL HEAD PROTECTION AREAS  
CITY OF FOND DU LAC  
FOND DU LAC COUNTY, WISCONSIN**



**FIGURE 3.04-2  
1-063.045**

**Legend**

- 1200-Foot Radius (Zone B)
- 5-Year Time of Travel Capture Zone (Zone A)
- Fond du Lac Municipal Well
- Site of Concern



1 INCH = 700 FT.



**WELLS 11, 12, AND 15  
WELL HEAD PROTECTION AREAS  
CITY OF FOND DU LAC  
FOND DU LAC COUNTY, WISCONSIN**



**FIGURE 3.04-3  
1-063.045**

Well No.	Projected Year 2030 Withdrawal (mgd)	Upgradient Extent of ZOC (feet)	Downgradient Extent of ZOC (feet)
10	0.449	504	72
11	0.449	792	108
12	0.598	720	144
13	0.374	648	108
14	0.411	612	144
15	0.598	576	180
16	0.299	639	170
17	0.449	681	170
18	0.374	554	170
19	0.449	937	85
20	0.598	894	128
21	0.598	2,628	216
23	0.598	979	128
24	0.524	596	128
25	0.598	937	128

**Table 3.04-1 Summary of ZOC**

### 3.05 WHPA

Wisconsin Administrative Code [Chapter NR811.16(5)(e)] requires that a WHPA for new municipal water supply wells “encompass, at a minimum, that portion of the recharge area equivalent to a 5-year TOT to the well.” Figures 3.04-1 through 3.04-3 show the WHPA for each well. Two zones of protection are within the WHPA. Zone A is the area around the well that is defined by the 5-year TOT ZOC, and Zone B is the area around each well, beyond Zone A, that is defined by a 1,200-foot fixed radius. Sites of Concern (potential contaminant sources) within each WHPA are also shown on Figures 3.04-1 through 3.04-3. Refer to Section 4 for additional information on the Sites of Concern identified on these figures.

A 1,200-foot radius (Zone B) is the minimum separation distance established between a municipal water supply well and some contamination sources summarized in Wisconsin Administrative Code, Chapter NR 811.16(4). The boundary of Zone B is larger than the 5-year TOT ZOC delineated for each Fond du Lac well, except for Well No. 21. The WHPAs will provide a conservative protection zone to account for changes in pumping rates, pumping duration, and interference drawdown from other existing and future wells. The WHPAs are located within the City of Fond du Lac and the Towns of Fond du Lac and Byron.

**SECTION 4**  
**POTENTIAL CONTAMINANT SOURCES**

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#### 4.01 CONTAMINANT SOURCE INVENTORY

A Contaminant Source Inventory (CSI) was compiled for each of the Fond du Lac unit wells. The CSIs were compiled using a database search firm, FirstSearch Technology Corporation, and a follow-up reconnaissance survey of the area within about a one-half-mile radius of each unit well. General land use observations and reconnaissance were made on January 10, 2008. The CSIs also included phone interviews with City, County, and DNR representatives and others knowledgeable about potential contaminant sources near the unit wells. Information related to location of storm and sanitary sewers, private wells, and private sewage treatment systems was also collected.

The FirstSearch reports identify Sites of Concern (potential contaminant sources) within one-half mile of each unit well. The FirstSearch reports locate sites identified on the following state and federal databases:

- National Priority List (NPL)
- National Priority List Subset (NPL Delisted)
- Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS)
- Comprehensive Environmental Response Compensation and Liability Information System Archived Sites (NFRAP) No Further Remediation Action Planned
- Resource Conservation and Recovery Information System Sites (RCRA COR ACT)
- Resource Conservation and Recovery Information System Treatment, Storage, and Disposal Facilities (RCRA TSD)
- Resource Conservation and Recovery Information System Generators (RCRA GEN)
- Federal IC/EC (Brownfield Management System (BMS) and Federal Engineering and Institutional Controls)
- Emergency Response Notification System (ERNS); State/Tribal Sites (List of Hazard Ranking Sites)
- State Spill 90 (Listing of All Spills)
- State/Tribal SWL (Active and Historic Licensed Solid Waste Landfills List)
- State/Tribal LUST (Listing of all Leaking Underground Storage Tanks)
- State/Tribal UST/AST (Storage Tank Database)
- RADON (National Radon Database)
- State Other (Listing of Emergency Repair Programs Sites)

Data compiled for the CSIs, including a portion of each FirstSearch report, is provided as Appendix H. Copies of the complete FirstSearch reports are available upon request.

In general, potential and existing contaminant sources within the WHPAs might include potential spills along roads and main transportation corridors, active and closed underground storage tank (UST) sites, leaking underground storage tank (LUST) sites, aboveground storage tank (AST) sites, reported releases from industrial sites, chemical or waste use or storage, transport or disposal sites, landfills, agricultural farming, fertilizer spreading, possible manure and sludge spreading areas on agricultural fields, private sewage disposal systems, road salt use, and active private wells. These Sites of Concern located within one-half-mile of the unit wells are summarized on Table 4.01-1. The Sites of Concern

TABLE 4.01-1

CONTAMINANT SOURCE INVENTORY SUMMARY (NOVEMBER 2007)

WELL NO. 10

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 10	Location within Capture Zone	Estimated Threat to Supply Wells
1	Edward L Wuest 164 E Scott St. Fond du Lac, WI 54935	FirstSearch	UST (555-gal fuel oil) tank in use.	Active	.03 miles southwest	Directly downgradient, beyond 5 year TOT	Low
2	Susan Steffen 165 Bischoff Street Fond du Lac, WI 54935	FirstSearch	One UST (550-gal fuel oil) tank closed/removed. Leaking UST closed.	Closed Closed	.07 miles southwest	Downgradient beyond 5 year TOT	Low
3	Kwik Trip 606/Heather Harvey 471 N Park Avenue Fond du Lac, WI 54935	FirstSearch	A spill occurred from an overflowing gas tank. 8 gallons of petroleum was released. 8 USTs: 3 in use (10,000-gal unleaded gasoline; 12,000-gal unleaded gasoline; 10,000-gal unleaded gasoline), 5 closed/removed (4,000-gal leaded gasoline; 2,000 diesel gasoline; 500-gal kerosene; 4,000 unleaded gasoline; 4,000-gal unleaded gasoline). One leaking UST was closed with groundwater restrictions at site.	Closed Active Closed	.08 miles southeast	Beyond 5 year TOT (sidegradient)	Moderate
4	J and M Towing and Services, Inc. John Schmitz 233 Winnebago Drive Fond du Lac, WI 54935	FirstSearch	A leaking UST was closed. Six USTs: 1 tank in use (300-gal waste/used motor oil), and 5 tanks closed/removed (300-gal fuel oil; 8,000-gal unleaded gasoline; 500-gal waste/used motor oil; 5,000-gal leaded gasoline; 5,000 leaded gasoline). CEG—conditionally exempt small quantity generator. Hazardous waste: Ignitable waste.	Closed Active VGN	.11 miles northeast	Upgradient beyond 5 year TOT	Low
5	Charter Communications/Star Cablevision 243-261 Winnebago Drive Fond du Lac, WI 54935	FirstSearch	Three USTs: 1 in use (500-gal diesel for the back up generator), 2 closed/removed (500-gal leaded gasoline; 500-gal diesel fuel). A leaking UST was closed.	Active Closed	.12 miles northeast	Upgradient beyond 5 year TOT	Low
6	Jet Stream Car Wash 60 E Scott Street Fond du Lac, WI 54935	FirstSearch	A leaking UST was closed.	Closed	.20 miles southwest	Downgradient beyond 5 year TOT	Low
7	Department of Public Works 555 N Park Avenue Fond du Lac, WI 54935	FirstSearch	Four USTs: 2 in use (2,500-gal unleaded gasoline; 1,000-gal unleaded gasoline), 2 closed/removed (850-gal unleaded gasoline; 1,500-gal unleaded gasoline).	Active	.23 miles northeast	Upgradient beyond 5 year TOT	Low
8	Tack Oil 69 E Scott Street Fond du Lac, WI 54935	FirstSearch	Three USTs (1,000-gal fuel oil; 10,000-gal unleaded gasoline; 6,000-gal leaded gasoline) closed/removed.	Closed	.24 miles southwest	Downgradient beyond 5 year TOT	Low
9	Davisco/Toliba Cheese 45 E Scott Street Fond du Lac, WI 54935	FirstSearch	A spill occurred from a broken transformer. All contaminant was contained/recovered. A spill when a Davisco trailer ruptured a fuel tank during a delivery. 10 gal diesel fuel released.	Historic Spill Closed	.24 miles southwest	Downgradient beyond 5 year TOT	Low
10	Ready Mixed Concrete Mark Carter 57 E Scott Street Fond du Lac, WI 54935	FirstSearch	11 USTs: 2 in use (250-gal waste/used motor oil; 10,000-gal diesel fuel), 6 closed/removed (2,000-gal unleaded gasoline; 10,000-gal diesel fuel; 10,000-gal diesel fuel; 1,000-gal diesel fuel; 2,000-gal leaded gasoline; 10,000-gal diesel fuel) and 3 closed/filled with inert material (1,000-gal fuel oil; 500-gal fuel oil; 1,500-gal leaded gasoline).	Active	.25 miles southwest	Downgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 10	Location within Capture Zone	Estimated Threat to Supply Wells
11	Saputo Cheese/Tolbia Cheese/Stella Foods Inc Fond du Lac 45 E Scott Street Fond du Lac, WI 54935/54979	FirstSearch	4 USTs: 1 in use (10,000-gal fuel oil), 3 closed/removed (550-gal fuel oil; 5,000-gal fuel oil; 5,000-gal fuel oil). A leaking UST releasing petroleum was closed. SQG–small quantity generator. Hazardous waste: corrosive waste. A spill occurred from a blocked valve causing backflow. 500 lbs of a substance was released into the storm sewer. A spill occurred from a ruptured release valve on cooling system. 400 lbs of ammonia was released. A spill occurred from accidental overfilling. 100 gallons of a substance was released into storm sewer. A spill occurred from a leading pipe inside condenser coil on the roof. 5668 lbs of ammonia was released. A spill occurred because of operator error resulting in overfill of a tanker truck and releasing 440 lbs of a substance. A spill occurred from a leak in line and in containment. 67 gallons of a substance was released into storm sewer. A spill occurred when a filling transport left a valve open. 10,000 lbs of a substance was released.	Active Closed SGN Closed Closed Closed Closed Closed Closed	.26 miles southwest	Downgradient beyond 5 year TOT	Low
12	Macgregor Bldg (former) 23-37 McWilliams and 374-382 Mar Fond du Lac, WI 54935	FirstSearch	A leaking UST was closed.	Closed	.30 miles southwest	Downgradient beyond 5 year TOT	Low
13	Service Motors 24 E Scott Street Fond du Lac, WI 54935	FirstSearch	Three USTs: 2 in use (280-gal waste/used motor oil; 510-gal waste/used motor oil), 1 closed/removed (500-gal waste/used motor oil). CEG–conditionally exempt small quantity generators. Hazardous waste information: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane, Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol. A spill occurred when a broken hydraulic line on a loading trucked released 15 gallons of mineral oil.	Active VGN Closed	.31 miles southwest	Downgradient beyond 5 year TOT	Low
14	D J Lavey/Action Rent a Car 411 N Main Street Fond du Lac, WI 54979	FirstSearch	Four USTs: 3 closed/filled with inert material (6,000-gal leaded gasoline; 8,000-gal diesel fuel; 8,000-gal leaded gasoline), 1 closed/removed (550-gal waste/used motor oil). A leaking UST was closed.	Closed Closed	.33 miles northwest	Downgradient beyond 5 year TOT	Low
15	Tack Oil Co. 533 N Main Street Fond du Lac, WI 54935	FirstSearch	Ten USTs closed/removed (500-gal leaded gasoline; 1,111-gal unleaded gasoline; 1,111-gal leaded gasoline; 1,000-gal unleaded gasoline; 1,111-gal fuel oil; 10,000-gal diesel fuel; 1,111-gal unleaded gasoline; 500-gal diesel fuel; 1,111-gal unleaded gasoline; 1,111-gal fuel oil). One tank was leaking.	Closed	.33 miles northwest	Beyond 5 year TOT (sidegradient)	Low
16	Parkside Motors 446 N Main Street Fond du Lac, WI 54935	FirstSearch	Four USTs: 3 closed/filled with inert material (4,000-gal leaded gasoline; 550-gal fuel gasoline; 6,000-gal unleaded gasoline), 1 closed/removed (275-gal kerosene). One tank was leaking. CEG–conditionally exempt small quantity generator. Hazardous waste: Ignitable waste.	Closed VGN	.33 miles southwest	Downgradient beyond 5 year TOT	Low
17	Alexander Motors 421 N Main Street Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generators.	VGN	.33 miles southwest	Downgradient beyond 5 year TOT	Low
18	Main Street and Scott Street Fond du Lac, WI	FirstSearch	A spill occurred from a broken valve on a bulk tank truck. All contamination was contained/recovered.	Historic Spill	.33 miles northwest	Downgradient beyond 5 year TOT	Low
19	Mike Davis 24 E McWilliams Street Fond du Lac, WI 54935	FirstSearch	One UST closed/removed (10,000-gal fuel oil).	Closed	.33 miles southwest	Downgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 10	Location within Capture Zone	Estimated Threat to Supply Wells
20	Robert J Rabe 520 W Main Street Fond du Lac, WI 54935	FirstSearch	SQG—small quantity generator. hazardous waste: NON-LISTED TOXIC WASTE and lead. 1 UST closed/removed (10,000-gal leaded gasoline).	SGN Closed	.36 miles northwest	Beyond 5 year TOT (sidegradient)	Low
21	City of Fond du Lac 371 N Main Street Fond du Lac, WI 54935	FirstSearch	A leaking UST was closed. Five USTs: 2 closed/filled with inert material (6,000-gal unleaded gasoline; 6,000-gal leaded gasoline) and 3 closed/removed (750-gal leaded gasoline; 1,000-gal leaded gasoline; 1,000-gal leaded gasoline).	Closed Closed	.36 miles southwest	Downgradient beyond 5 year TOT	Low
22	Roger Orlando 526 N Main Street Fond du Lac, WI 54935	FirstSearch	1 UST closed/removed (10,000-gal unleaded gasoline).	Closed	.36 miles northwest	Beyond 5 year TOT (sidegradient)	Low
23	A-1 Auto Body 532 N Main Street Fond du Lac, WI 54935	FirstSearch	CEG—conditionally exempt small quantity generators.	VGN	.37 miles northwest	Beyond 5 year TOT (sidegradient)	Low
24	American Family Insurance Co. 374 N Main Street Fond du Lac, WI 54935	FirstSearch	A spill occurred during the removal of an underground abandoned tank. Gasoline was released.	Closed	.37 miles southwest	Downgradient beyond 5 year TOT	Low
25	Pennzoil 10 Minute Oil Change 40 W Scott Street Fond du Lac, WI 54935	FirstSearch	CEG—conditionally exempt small quantity generators, NON-LISTED TOXIC WASTE, chromium, cadmium, arsenic, lead. Two USTs in use (550-gal waste/used motor oil; 550-gal waste/used motor oil).	VGN Active	.38 miles southwest	Downgradient beyond 5 year TOT	Low
26	Anders Auto Parts, Inc 16 W Sibley Street Fond du Lac, WI 54935	FirstSearch	CEG—conditionally exempt small quantity generators. Hazardous waste information: cresols, cresylic acid, and nitrobenzene, Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane.	VGN	.38 miles southwest	Downgradient beyond 5 year TOT	Low
27	Harley Guell/Fond du Lac Auto Sales 317 N Main Street Fond du Lac, WI 54935	FirstSearch	A leaking UST was closed. Four USTs closed/removed.	Closed Closed	.42 miles southwest	Downgradient beyond 5 year TOT	Low
28	Rons Self Service/Abootilib Sharif 324 N Main Street Fond du Lac, WI 54935	FirstSearch	A leaking UST was closed. Five USTs: 3 in use, 2 closed/removed.	Closed Active	.42 miles southwest	Downgradient beyond 5 year TOT	Low
29	Mike and Kristine Schoening 254 E Arndt Street Fond du Lac, WI 54935	FirstSearch	2 USTs closed/removed.	Closed	.43 miles southeast	Beyond 5 year TOT (sidegradient)	Low
30	Pick and Save Parking Lot 75 W Scott Street Fond du Lac, WI 54935	FirstSearch	A spill occurred when a leaking gasoline tank released 10 gallons of petroleum.	Closed	.45 miles southwest	Downgradient beyond 5 year TOT	Low
31	Charles Burnett 18 W Cotton Street Fond du Lac, WI 54935	FirstSearch	1 UST in use.	Active	.46 miles southwest	Downgradient beyond 5 year TOT	Low
32	La Esperanza Groceries/Donald Waldschmidt 306 N Main Street Fond du Lac, WI 54935	FirstSearch	A leaking UST was closed. Three USTs closed/filled with inert material.	Closed Closed	.46 miles southwest	Downgradient beyond 5 year TOT	Low
33	U Haul 290 N Main Street Fond du Lac, WI 54935	FirstSearch	Two USTs closed/removed. CEG—conditionally exempt small quantity generator. Ignitable waste and X001	Closed VGN	.47 miles southwest	Downgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 10	Location within Capture Zone	Estimated Threat to Supply Wells
34	Bend Industries 183 W Follett Street Fond du Lac, WI 54935	FirstSearch	Three USTs closed/removed.	Closed	.47 miles southeast	Beyond 5 year TOT (sidegradient)	Low
35	Paul K Kottke/Vulcan (former)  566 N Main Street Fond du Lac, WI 54935	FirstSearch	Four USTs closed/removed. Environmental repair: petroleum.	Closed Closed	.47 miles northwest	Beyond 5 year TOT (sidegradient)	Low
36	School Dist. of N Fond du Lac 225 McKinley Street North Fond du Lac, WI 54935	FirstSearch	Two USTs closed/removed.	Closed	.48 miles southeast	Beyond 5 year TOT (sidegradient)	Low
37	A to Z Vending 83 Harbor View Drive Fond du Lac, WI 54935	FirstSearch	A leaking UST releasing petroleum was closed.	Closed	.48 miles northwest	Beyond 5 year TOT (sidegradient)	Low
38	John Hackley/ Family Auto Center 271 N Main Street Fond du Lac, WI 54935	FirstSearch	Two USTs closed/removed. CEG–conditionally exempt small quantity generators.	Closed VGN	.49 miles southwest	Downgradient beyond 5 year TOT	Low
39	Hall Family Trust/Abels Optical Service 98 W Scott Street Fond du Lac, WI 54935	FirstSearch	A leaking UST was closed/removed	Closed	.50 miles southwest	Downgradient beyond 5 year TOT	Low

WELL NO. 11

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 11	Location within Capture Zone	Estimated Threat to Supply Wells
1	Arndt and Satterlee Street Fond du Lac, WI	FirstSearch	A spill occurred from a leaking concrete wall. A spill occurred from a traffic accident. 15 gallons of petroleum was released from a broken transformer caused by the accident.	Historic Spill Closed	.07 miles southeast	Beyond 5 year TOT (sidegradient)	Low
2	Tracks 100 yards N of Shops Fond du Lac, WI	FirstSearch	A spilled occurred from a broken site light on a locomotive.	Historic Spill	.08 miles northeast	Downgradient beyond 5 year TOT	Low
3	South Yard Track 11 Fond du Lac, WI 54481	FirstSearch	Freight Train/Leak in car because of unknown causes. An unknown amount of sodium chlorate was released.	Railroad	.09 miles northeast	Downgradient beyond 5 year TOT	Low
4	Sadoff Iron and Metal 240 W Arndt Street Fond du Lac, WI 54935	FirstSearch	11 USTs: 6 in use (12,000-gal diesel fuel; 300-gal kerosene; 250-gal waste/used motor oil; 280-gal waste/used motor oil; 4,000-gal diesel fuel; 280-gal waste/used motor oil), 5 (4,000-gal diesel fuel; 12,000-gal unleaded gasoline; 12,000-gal diesel fuel; 12,000-gal diesel fuel; 550-gal fuel oil) closed/removed. Environmental repair: This activity is still open. CEG—conditionally exempt small quantity generators. Hazardous waste: NON-LISTED TOXIC WASTE Environmental repair: No information available. 33 gallons of oil, misc: was released from a transformer when a contractor hit pole. A leaking UST was closed. A leaking UST was discovered releasing methyl tertiary butyl ether. This activity is still open. A spill occurred when a drum fell off a pallet. 50 gallons of mineral oil was released. A spill occurred from an overflow while fueling. 50 gallons of diesel fuel was released.	Active Open VGN Closed Fixed Facility Closed Open Closed Historic Spill	.10 miles southeast	Beyond 5 year TOT (sidegradient)	Low
5	John A Strum/ Whealon Towing 273 Satterlee/271 W Johnson Street Fond du Lac, WI 54935	FirstSearch	Two USTs (4,500-gal leaded gasoline; 8,000-gal diesel fuel) closed/removed. A leaking UST releasing petroleum was closed.	Closed Closed	.10 miles southeast	Beyond 5 year TOT (sidegradient)	Low
6	WI Dept of Military Affairs Pete Schuster 200 Satterlee Street Fond du Lac, WI 54935	FirstSearch	A leaking UST (2000-gal leaded gasoline) was closed.	Closed	.14 miles southeast	Beyond 5 year TOT (sidegradient)	Low
7	Storm sewer 319 Arndt Street Fond du Lac, WI	FirstSearch	Gasoline spill of unknown amount and by unknown party occurred.	Closed	.15 miles southwest	Upgradient beyond 5 year TOT	Low
8	B and B Land Corp. 226 W Cotton Street Fond du Lac, WI 54935	FirstSearch	Environmental repair: mercury, arsenic, volatile organic compounds, and metals. One UST (500-gal waste/used motor oil) closed/removed	Closed Closed	.15 miles northeast	Downgradient beyond 5 year TOT	Low
9	Jacks Body Inc Collision Ctr John Strum 195 Satterlee Street Fond du Lac, WI 54935	FirstSearch	CEG—conditionally exempt small quantity generators. Hazardous waste: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, 2-nitropropane, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol. Three USTs (1,000-gal fuel oil; 7,990-gal diesel fuel; 4,071-gal unleaded gasoline) closed/removed.	VGN Closed	.16 miles southeast	Beyond 5 year TOT (sidegradient)	Low
10	Bud Boudry/ Boudry Electric 380 W Arndt Street Fond du Lac, WI 54935	FirstSearch	Two USTs (1,000-gal unleaded gasoline; 1,000-gal leaded gasoline) closed/removed—one was leaking.	Closed Closed	.17 miles southwest	Upgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 11	Location within Capture Zone	Estimated Threat to Supply Wells
11	Fond du Lac National Guard Jon Jacobson 225 McWilliams Street Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generators. Hazardous waste: Ignitable waste	VGN	.17 miles northeast	Downgradient beyond 5 year TOT	Low
12	Ziebart Tidy Car 212 W Cotton Street Fond du Lac, WI	FirstSearch	Environmental repair: soil contamination.	Closed	.17 miles northeast	Downgradient beyond 5 year TOT	Low
13	Nafco International Inc Randy Rupp 206 W McWilliams Street Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generators. Hazardous waste: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane, Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated fluorocarbons, ignitable waste, Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol. A leaking UST (10,000-gal diesel fuel) was closed.	VGN Closed	.20 miles northeast	Downgradient beyond 5 year TOT	Low
14	Whites Petroleum 385 W Arndt Street Fond du Lac, WI 54935	FirstSearch	Two UST (1,000-gal leaded gasoline; 1,000-gal leaded gasoline) closed/removed.	Closed	.20 miles southwest	Upgradient beyond 5 year TOT	Low
15	Capelle Bros. and Diedrich Inc. 400 W Arndt Street Fond du Lac, WI 54935	FirstSearch	One UST (500-gal fuel oil) closed/removed.	Closed	.20 miles southwest	Upgradient beyond 5 year TOT	Low
16	Merwin Oil Co Inc 331 W Johnson Street Fond du Lac, WI 54935	FirstSearch	Three USTs (10,000-gal unleaded gasoline; 10,000-gal unleaded gasoline; 10,000-gal unleaded gasoline) closed/removed—one was leaking.	Closed	.21 miles southwest	Upgradient beyond 5 year TOT	Low
17	James Treptow 275 N Hickory Street Fond du Lac, WI 54935	FirstSearch	One UST (175-gal waste/used motor oil) in use.	Active	.22 miles southwest	Upgradient beyond 5 year TOT	Low
18	Badger Tires Inc/ Michael D Schneider 350 W Johnson Street Fond du Lac, WI 54935	FirstSearch	A spill occurred when 3 gallons of antifreeze was spilled during an intentional flushing of antifreeze from vehicle onto pavement. One UST (400-gal waste/used motor oil) in use.	Closed Active	.23 miles southwest	Upgradient beyond 5 year TOT	Low
19	Capelle Bros. and Diedrich Inc. 253 N Hickory Street Fond du Lac, WI 54935	FirstSearch	Two USTs (550-gal fuel oil; 1,000-gal leaded gasoline) closed/removed.	Closed	.24 miles southwest	Upgradient beyond 5 year TOT	Low
20	Whealon Towing and Repair Inc Dave Whealon 375 N Hickory Street Fond du Lac, WI 54935	FirstSearch	One UST (500-gal waste/used motor oil) in use.	Active	.24 miles northwest	Beyond 5 year TOT (sidegradient)	Low
21	Hanefeld Brothers Trucking Intersection of Johnson and Ches Fond du Lac, WI	FirstSearch	A spill occurred when a fuel tank fell off a truck. 60 gallons of diesel fuel was released.	Closed	.24 miles southwest	Upgradient beyond 5 year TOT	Low
22	Metz Baking/ Holsum Baking Thrift Shop 237 Hickory Street Fond du Lac, WI 54935	FirstSearch	A leaking UST was closed. A UST was (1,000-gal fuel oil) closed/removed. CEG–conditionally exempt small quantity generators. Hazardous waste: benzene, lead, and ignitable waste.	Closed Closed VGN	.25 miles southwest	Upgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 11	Location within Capture Zone	Estimated Threat to Supply Wells
23	Jack Strum/ Jacks Auto Body 267 W Johnson Street Fond du Lac, WI 54935	FirstSearch	One UST (1,000-gal fuel oil) closed/removed. CEG—conditionally exempt small quantity generators. Hazardous waste: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, 2-nitropropane, ignitable waste, and NON-LISTED TOXIC WASTE.	Closed VGN	.25 miles southeast	Beyond 5 year TOT (sidegradient)	Low
24	Fond du Lac Concrete Products 183 W Follett Street Fond du Lac, WI	FirstSearch	Two leaking USTs were closed.	Closed	.25 miles southeast	Beyond 5 year TOT (sidegradient)	Low
25	Wisconsin Power and Light Co FDL 270 W Johnson Street Fond du Lac, WI 54935	FirstSearch	Environmental repair: cyanide, metals, and polynuclear aromatic hydrocarbons. This activity is still open. SQG—small quantity generator. Hazardous waste: NON-LISTED TOXIC WASTE0 and benzene. A spill occurred because of vandalism. 2800 gallons of mineral oil was released.	Open SGN Closed	.26 miles southeast	Beyond 5 year TOT (sidegradient)	Low
26	Sara Lee Baking Group—Metz Baking Company 236 N Hickory Fond du Lac, WI 54935	FirstSearch	One UST (10,000-gal leaded gasoline) closed/removed.	Closed	.26 miles southwest	Upgradient beyond 5 year TOT	Low
27	Annen Brake Service 230 N Hickory Street Fond du Lac, WI 54935	FirstSearch	One UST (1,000-gal waste/used motor oil) closed/filled with inert material. CEG—conditionally exempt small quantity generators. Hazardous waste: ignitable waste.	Closed VGN	.26 miles southwest	Upgradient beyond 5 year TOT	Low
28	Wara Enterprises Inc./ Citgo Miniserve 401 W Johnson Street Fond du Lac, WI 54935	FirstSearch	Four USTs (500-gal fuel oil; 6,000-gal unleaded gasoline; 10,000-gal unleaded gasoline; 6,000-gal unleaded gasoline) closed/removed. A leaking UST releasing petroleum was closed.	Closed Closed	.27 miles southwest	Upgradient beyond 5 year TOT	Low
29	Brooke and Johnson Street Intersections Fond du Lac, WI	FirstSearch	A spill occurred with a train hit a semi at a railroad crossing. 30 gallons of petroleum was released.	Historic Spill	.28 miles southeast	Beyond 5 year TOT (sidegradient)	Low
30	Brooke Street and W Sibley Street Fond du Lac, WI	FirstSearch	A spill occurred when a line on a tank truck broke and released 45 gallons of an unknown substance.	Historic Spill	.28 miles northeast	Downgradient beyond 5 year TOT	Low
31	Mercury Marine Hickory Street Bridge Fond du Lac, WI	FirstSearch	A spill originated at this site in 1979.	Closed	.28 miles northwest	Beyond 5 year TOT (sidegradient)	Low
32	French Advertising 235 Johnson Street Fond du Lac, WI 54935	FirstSearch	One UST (550-gal leaded gasoline) closed/removed. A leaking UST releasing petroleum. This activity is still open. SQG—small quantity generator: Hazardous waste: Ignitable waste. Environmental repair: diesel fuel and volatile organic compounds.	Closed Open SGN Closed	.28 miles southeast	Beyond 5 year TOT (sidegradient)	Low
33	Stock Lumber Co. 154 W McWilliams Street Fond du Lac, WI 54935	FirstSearch	Three USTs (85,500-gal leaded gasoline; 1,000-gal leaded gasoline; 500-gal unleaded gasoline) closed/removed. Leaking UST was closed.	Closed Closed	.28 miles northeast	Beyond 5 year TOT (sidegradient)	Low
34	Sadoff Iron and Metal Co 240 W Arndt Street Fond du Lac, WI 54935	FirstSearch	A spill occurred during daily crushing and shredding operations. 100 gallons of engine waste oil was released.	Historic Spill	.28 miles southeast	Beyond 5 year TOT (sidegradient)	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 11	Location within Capture Zone	Estimated Threat to Supply Wells
35	Metal Link Corp./ Simplex Manufacturing Corp 322 N Military Road Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generators. Hazardous waste: Ignitable waste, tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated fluorocarbons, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, 2-nitropropane, Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol Two USTs (300-gal unleaded gasoline; 550-unleaded gasoline): 1 closed/removed, 1 closed/filled with inert material. A leaking UST was closed.	VGN Closed Closed	.28 miles northeast	Downgradient beyond 5 year TOT	Low
36	Wendts Autobody Service 402 W Johnson Street Fond du Lac, WI 54935	FirstSearch	One UST (1,111-gal waste/used motor oil) closed/removed. CEG–conditionally exempt small quantity generators. Hazardous waste: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, 2-nitropropane, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, and ignitable waste.	Closed VGN	.28 miles southwest	Upgradient beyond 5 year TOT	Low
37	Osborn Trucking–WI DOT/ Donald J Osborn 221 W Johnson Street–STH 23 Fond du Lac, WI	FirstSearch	Two USTs (500-gal diesel fuel; 500-gal leaded gasoline) closed/removed. A leaking UST was closed.	Closed Closed	.29 miles southeast	Beyond 5 year TOT (sidegradient)	Low
38	Larrys Auto Body Larry Wendt 278 W Scott Street Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generators. Hazardous waste: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane.	VGN	.29 miles northeast	Downgradient beyond 5 year TOT	Low
39	Michael W Tighe 180 W Sibley Fond du Lac, WI 54935	FirstSearch	One UST (1,000-gal unleaded gasoline) in use.	Active	.29 miles northeast	Downgradient beyond 5 year TOT	Low
40	Jordan M Hansen/ Jordans Mobil 415 W Johnson Street Fond du Lac, WI 54935	FirstSearch	10 USTs: 1 (160-gal waste/used motor oil) in use, 9 (500-gal waste/used motor oil; 6,000-gal leaded gasoline; 2,000-gal diesel fuel; 550-gal kerosene; 4,000-gal unleaded gasoline; 1,000-gal diesel fuel; 6,000-gal unleaded gasoline; 4,000-gal unleaded gasoline; 4,000-gal unleaded gasoline) closed/removed. A leaking UST was closed.	Active Closed	.30 miles southwest	Upgradient beyond 5 year TOT	Low
41	Hilda Hamberger Estate 234 W Johnson Street Fond du Lac, WI 54935	FirstSearch	One UST (560-gal unleaded gasoline) closed/removed. A leaking UST was closed.	Closed Closed	.30 miles southeast	Beyond 5 year TOT (sidegradient)	Low
42	Osborn and Associates of Fond du Lac 179 W Sibley Street Fond du Lac, WI 54935	FirstSearch	Two USTs (500-gal leaded gasoline; 500-gal leaded gasoline): 1 closed/removed and 1 closed/filled with inert material.	Closed	.30 miles northeast	Downgradient beyond 5 year TOT	Low
43	Jeff Lallier 320 W Scott Street Fond du Lac, WI 54935	FirstSearch	One UST (500-gal fuel oil) closed/removed.	Closed	.30 miles northwest	Beyond 5 year TOT (sidegradient)	Low
44	Amoco Oil SS 15650/ Hansen Auto Care Inc. 414 W Johnson Street Fond du Lac, WI 54936	FirstSearch	7 USTs: 3 (12,000-gal unleaded gasoline; 6,000-gal unleaded gasoline; 6,000-gal diesel fuel) in use, 4 (550-gal waste/used motor oil; 6,000-gal unleaded gasoline; 6,000-gal unleaded gasoline; 8,000-gal unleaded gasoline) closed/removed. CEG–conditionally exempt small quantity generators. Hazardous waste: NON-LISTED TOXIC WASTE, ignitable waste, corrosive waste, benzene, and lead. A leaking UST was closed.	Active VGN Closed	.31 miles southwest	Upgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 11	Location within Capture Zone	Estimated Threat to Supply Wells
45	Holiday Companies/ Holiday Station 441 W Johnson Street Fond du Lac, WI 54935	FirstSearch	Three USTs (12,000-gal unleaded gasoline; 3,000-gal leaded gasoline; 12,000-gal leaded gasoline) closed/removed. A leaking UST releasing petroleum was closed.	Closed Closed	.31 miles southwest	Upgradient beyond 5 year TOT	Low
46	Gilbert C Osborn 208 W Johnson Street Fond du Lac, WI 54935	FirstSearch	One UST (200-gal fuel oil) abandoned without product.	Abandoned	.31 miles southeast	Beyond 5 year TOT (sidegradient)	Low
47	John M Buser 341 W Scott Street Fond du Lac, WI 54935	FirstSearch	Two USTs (10,000-gal unleaded gasoline; 10,000-gal leaded gasoline) closed/removed. A leaking UST was closed.	Closed Closed	.32 miles northwest	Beyond 5 year TOT (sidegradient)	Low
48	John M Buser 321 W Scott Street Fond du Lac, WI 54935	FirstSearch	Two USTs (300-gal waste/used motor oil; 250-gal waste/used motor oil): 1 closed/removed and 1 closed/filled with inert material.	Closed	.32 miles northwest	Beyond 5 year TOT (sidegradient)	Low
49	Cartwright Property/ Theodore D Cartwright 420 N Hickory Street Fond du Lac, WI	FirstSearch	Two USTs closed/removed. A leaking UST was closed.	Closed Closed	.33 miles northwest	Beyond 5 year TOT (sidegradient)	Low
	Georgetown Dry Cleaning Butler/Johnson intersection Fond du Lac, WI 54935	Field reconnaissance	Dry Cleaning business not found in the FirstSearch database.	Active	.33 miles southwest	Upgradient beyond 5 year TOT	Low
50	CSI 235 W Scott Street Fond du Lac, WI 54935	FirstSearch	Three USTs (12,000-gal unleaded gasoline; 10,000-gal unleaded gasoline; 10,000-unleaded gasoline) temporarily out of service.	Active	.34 miles northeast	Downgradient beyond 5 year TOT	Low
51	Lang Property/ Robert Lang 154 N Brooke Street Fond du Lac, WI	FirstSearch	One UST (300-gal fuel oil) closed/removed. A leaking UST was closed.	Closed Closed	.35 miles southeast	Beyond 5 year TOT (sidegradient)	Low
52	Gerald L White 404 Franklin Ave MT North Fond du Lac, WI 54935	FirstSearch	One UST (500-gal unleaded gasoline) in use.	Active	.35 miles northwest	Beyond 5 year TOT (sidegradient)	Low
53	Royal Cleaners 481 W Johnson Street Fond du Lac, WI 54935	FirstSearch	CEG—conditionally exempt small quantity generators. Hazardous waste: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated fluorocarbons, tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane	VGN	.38 miles southwest	Upgradient beyond 5 year TOT	Low
54	Merlin Corp/ Emro Marketing Co 468 W Johnson Fond du Lac, WI 54935	FirstSearch	Three USTs: 1 in use (250-gal waste/used motor oil), 2 closed/removed (14,000-gal unleaded gasoline; 6,000-gal leaded gasoline). A leaking UST closed.	Active Closed	.39 miles southwest	Upgradient beyond 5 year TOT	Low
55	Donald Jacques 160 W Scott Street Fond du Lac, WI 54935	FirstSearch	Two USTs (500-gal unleaded gasoline; 1,000-gal unleaded gasoline) closed/removed.	Closed	.39 miles northeast	Downgradient beyond 5 year TOT	Low
56	442 W Scott Street Fond du Lac, WI	FirstSearch	A spill occurred when a truck braked for traffic. 300 gallons of an unknown substance was released into the storm sewer.	Historic Spill	.41 miles northwest	Beyond 5 year TOT (sidegradient)	Low
57	AASTHA Petroleum LLC/ Clark Station 1502 136 W Scott Street Fond du Lac, WI 54935	FirstSearch	Six USTs: 3 in use (4,000-gal unleaded gasoline; 12,000-gal unleaded gasoline; 10,000-gal tank), 3 closed/removed (10,000-gal unleaded gasoline; 10,000-unleaded gasoline; 6,500-gal leaded gasoline). A leaking UST was discovered. This activity still open. A spill occurred releasing 11 gallons of gasoline from a leak in a vehicle gasoline line.	Active Open Closed	.42 miles northeast	Downgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 11	Location within Capture Zone	Estimated Threat to Supply Wells
58	Dorothy Jewson/ Jewsen Property 432 Doty Street Fond du Lac, WI 54935	FirstSearch	A leaking UST was closed. A leaking UST (1,000-gal fuel oil) was closed/removed.	Closed Closed	.45 miles northeast	Downgradient beyond 5 year TOT	Low
59	Richard Neas 527 W Johnson Street Fond du Lac, WI 54935	FirstSearch	Three UST (500-gal leaded gasoline; 500-gal leaded gasoline; 500-gal leaded gasoline) closed/removed. A leaking UST was closed.	Closed Closed	.45 miles southwest	Upgradient beyond 5 year TOT	Low
60	Merwin Oil Bulk Facility (former) 254 Auburn Street Fond du Lac, WI	FirstSearch	Four USTs (12,000-gal fuel oil; 16,000-gal fuel oil; 20,000-gal fuel oil; 13,000-gal fuel oil) closed/removed. Environmental repair: petroleum and diesel fuel contamination.	Closed Closed	.46 miles southeast	Beyond 5 year TOT (sidegradient)	Low
61	Robert Lloyd/ Mr Marine 532 Water Street Fond du Lac, WI 54935	FirstSearch	Three USTs (1,000-gal unleaded gasoline; 1,000-gal unleaded gasoline; 1,000-gal unleaded gasoline) closed/removed. A leaking UST was closed.	Closed Closed	.47 miles northeast	Downgradient beyond 5 year TOT	Low
62	Supple S Marsh Fond du Lac, WI	FirstSearch	Solid waste landfill.	Active	.47 miles northeast	Beyond 5 year TOT (sidegradient)	Low
63	Boudry Ceramics and Gifts 223N Seymour Street Fond du Lac, WI 54935	FirstSearch	One UST (550-gal leaded gasoline) closed/removed.	Closed	.47 miles southwest	Upgradient beyond 5 year TOT	Low
64	Giddings and Lewis Machine Tools LLC 142 Doty Street Fond du Lac, WI 54935	FirstSearch	SQG—small quantity generator. Hazardous waste: ignitable waste, F017, corrosive waste, mercury 8 UST (14,000-gal fuel oil; 14,000-gal fuel oil; 500-gal unleaded gasoline; 6,000-gal tank; 14,000-gal fuel oil; 14,000-gal fuel oil; 5,000-gal tank; 265-gal unleaded gasoline); 2 abandonment without product, 2 closed/filled with inert material, 4 closed/removed. A leaking UST was closed. A spill occurred when a 55 gallon barrel was punctured while being handled on a fork lift releasing 5 gallons of chlorinated solvents.	SGN Abandoned /Closed Closed Closed	.48 miles southeast	Beyond 5 year TOT (sidegradient)	Low
65	Fond du Lac Lutheran Home 244 N Macy Street Fond du Lac, WI 54935	FirstSearch	A leaking UST was closed. One UST (1,500-gal fuel oil) closed/removed.	Closed Closed	.48 miles southeast	Beyond 5 year TOT (sidegradient)	Low
66	Abels Optical Service/ Hall Family Trust 98 W Scott Street Fond du Lac, WI	FirstSearch	A leaking UST was closed. One UST (550-gal diesel fuel) closed/removed.	Closed Closed	.48 miles northeast	Downgradient beyond 5 year TOT	Low
67	FRL Transportation Inc. James Kiepke 96 Doty Street Fond du Lac, WI 54935	FirstSearch		Transporter	.50 miles southeast	Beyond 5 year TOT (sidegradient)	Low
68	West Park Marine/ Melvin Willie 570 Water Street Fond du Lac, WI	FirstSearch	Two USTs (550-gal unleaded gasoline; 500-gal leaded gasoline) closed/removed. A leaking UST releasing gasoline was closed.	Closed Closed	.50 miles northeast	Downgradient beyond 5 year TOT	Low

WELL NO. 12

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 12	Location within Capture Zone	Estimated Threat to Supply Wells
1	City of Fond du Lac 30 W Rees Street Fond du Lac, WI 54935	FirstSearch	One UST (600-gal diesel) in use.	Active	.00 miles	5 year TOT	Moderate
2	Fond du Lac WTP Reservoir and booster station 40 W Rees Street Fond du Lac, WI 54935	FirstSearch	Environmental repair: diesel fuel detected in soils within 1,000 feet of public well. This activity still open.	Open	.04 miles northwest	Downgradient beyond 5 year TOT	Low
3	Hometown Realty W 118 Main Street Fond du Lac, WI 54935	FirstSearch	10 USTs (1,000-gal waste/used motor oil; 4,000-gal leaded gasoline; 1,000-gal leaded gasoline; 4,000-gal leaded gasoline; 3,000-gal leaded gasoline; 4,000-gal leaded gasoline; 500-gal fuel oil; 6,000-gal leaded gasoline; 2,500-gal leaded gasoline; 2,000-gal leaded gasoline) closed/removed.	Closed	.06 miles southeast	Beyond 5 year TOT (sidegradient)	Low
4	Fond du Lac City/ Hometown Realty Property–Waste Oil 116-118 N Main Street Fond du Lac, WI	FirstSearch	Two leaking USTs closed.	Closed	.06 miles southeast	Beyond 5 year TOT (sidegradient)	Low
5	Alliant Energy–WP and E 136 N Main Street Fond du Lac, WI 54935	FirstSearch	Two USTs (300-gal leaded gasoline; 15,000-gal unleaded gasoline) closed/removed.	Closed	.07 miles northeast	Downgradient beyond 5 year TOT	Low
6	Pioneer Land and Development 117 N Main Street Fond du Lac, WI 54935	FirstSearch	A leaking UST closed/removed. One UST (1,111-gal leaded gasoline) closed/removed.	Closed Closed	.07 miles southeast	Beyond 5 year TOT (sidegradient)	Low
7	Jim and Dale Super Value 160 N Main Street Fond du Lac, WI 54935	FirstSearch	Three USTs (10,000-gal unleaded gasoline; 8,000-gal unleaded gasoline; 6,000-gal unleaded gasoline) closed/removed. A leaking UST was closed.	Closed Closed	.08 miles northeast	Downgradient beyond 5 year TOT	Low
8	Frank Motor Sales/ Pat Frank 145 North Main Street Fond du Lac, WI 54935	FirstSearch	Seven USTs (6,000-gal leaded gasoline; 550-gal waste/used motor oil; 6,000-gal leaded gasoline; 550-gal fuel oil; 275-gal waste/used motor oil; 550-gal waste/used motor oil; 500-gal leaded gasoline) closed/removed. SQG–small quantity generator. Hazardous waste: ignitable waste. A leaking UST was closed.	Closed SGN Closed	.08 miles northeast	Downgradient beyond 5 year TOT	Low
9	Larry Timm/ Fond du Lac City Parking Lot 71 N Main Street Fond du Lac, WI 54935	FirstSearch	Six USTs (500-gal fuel oil; 2,000-gal unleaded gasoline; 550-gal fuel oil; 2,000-gal unleaded gasoline; 1,000-gal leaded gasoline; 300-gal waste/used motor oil) closed/removed. A leaking UST was closed. A spill occurred from a fire in a building.	Closed Closed Historic Spill	.10 miles southeast	Upgradient beyond 5 year TOT	Low
10	J William Roemer 97 Doty Street Fond du Lac, WI 54936	FirstSearch	One UST (550-gal leaded gasoline) closed/removed.	Closed	.11 miles southwest	Beyond 5 year TOT (sidegradient)	Low
11	Rueping Leather Company 96 Doty Street Fond du Lac, WI 54935	FirstSearch	EPA responded to abandoned leather tannery containing shock sensitive flammable and chromium containing waste. The wastes were stabilized, containerized and removed from site as needed. SQG–small quantity generator. Hazardous waste: Arsenic and NON-LISTED TOXIC. A LUST was closed. In 2002 the site received Sustainable Urban Development Zone Funding and site was redeveloped. Waste remains on site, capped.	Closed Closed Closed	.12 miles southwest	Beyond 5 year TOT (sidegradient)	Moderate

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 12	Location within Capture Zone	Estimated Threat to Supply Wells
12	Q-Mart 213 171 N Main Street Fond du Lac, WI 54935	FirstSearch	A leaking UST releasing petroleum was closed.	Closed	.12 miles	Downgradient beyond 5 year TOT	Low
13	EP Rentals/Robert Fellman 68 N Main Street Fond du Lac, WI 54935	FirstSearch	Three USTs (5,000-gal unleaded gasoline; 5,000-gal leaded gasoline; 1,000-gal fuel oil): 1 closed/removed, 2 closed/filled with inert material. A leaking UST was closed. Environmental repair: chlorinated solvents.	Closed Closed Closed	.12 miles southeast	Upgradient beyond 5 year TOT	Low
14	Quality State Oil Co., Inc. 171 N Main Street Fond du Lac, WI 54935	FirstSearch	16 USTs: 3 in use (8,000-gal leaded gasoline; 6,000-gal diesel fuel; 12,000-gal unleaded gasoline), 13 closed/removed (10,000-gal unleaded gasoline; 8,000-gal leaded gasoline; 300-gal waste/used motor oil; 6,000-gal leaded gasoline; 500-gal fuel oil; 300-gal waste/used motor oil; 8,000-gal unleaded gasoline; 8,000-gal unleaded gasoline; 8,000-gal leaded gasoline; 8,000-gal leaded gasoline; 6,000-gal leaded gasoline; 12,000-gal unleaded gasoline; 6,000-gal unleaded gasoline).	Active	.12 miles northeast	Downgradient beyond 5 year TOT	Low
15	Georgetown Cleaners North 178 N Main Street Fond du Lac, WI 54935	FirstSearch	Brownfield ID: 69597820-45481	EPA Brownfield	.12 miles northeast	Upgradient beyond 5 year TOT	Moderate
16	37 E Rees Street Fond du Lac, WI	FirstSearch	A spill occurred during a neighborhood feud.	Historic Spill	.13 miles northeast	Beyond 5 year TOT (sidegradient)	Low
17	Giddings and Lewis Machine Tools LLC 142 Doty Street Fond du Lac, WI 54936	FirstSearch	SQG—small quantity generator. Hazardous waste: ignitable waste, F017, corrosive waste, mercury 8 USTs (14,000-gal fuel oil; 14,000-gal fuel oil; 500-gal unleaded gasoline; 6,000-gal other; 14,000-gal fuel oil; 5,000-gal other; 265-gal unleaded gasoline): 2 abandonment without product, 2 closed/filled with inert material, 4 closed/removed. A leaking UST closed. A spill occurred when a 55 gallon barrel was punctured while being handled on a fork lift. 5 gallons of chlorinated solvent was released.	SGN Abandoned /Closed Closed Closed	.13 miles northwest	Beyond 5 year TOT (sidegradient)	Low
18	FRL Transportation James Kiepke 96 Doty Street Fond du Lac, WI 54935	FirstSearch	Haz Waste transporter. ID: WID099138786	Transporter	.13 miles northwest	Beyond 5 year TOT (sidegradient)	Low
19	Georgetown Clothing Care/ Bric Associates/ Georgetown Cleaners 180 N Main Street Fond du Lac, WI 54935	FirstSearch	CEG—conditionally exempt small quantity generator. Hazardous waste: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane. Three USTs (550-gal leaded gasoline; 1,000-gal leaded gasoline; 550-gal leaded gasoline) closed/removed. Environmental repair: Chlorinated solvents, volatile organic solvents, and perchloroethylene. Within 1000 ft of public well. This activity is still open.	VGN Closed Open	.13 miles northeast	Downgradient beyond 5 year TOT	Moderate
20	Rentit Shop 55 N Macy Street Fond du Lac, WI	FirstSearch	Three USTs (1,111-gal leaded gasoline; 1,000-gal diesel fuel; 1,000-gal leaded gasoline) closed/removed. Leaking UST releasing gasoline was closed.	Closed Closed	.14 miles southeast	Upgradient beyond 5 year TOT	Low
21	Manowske Welding Corp 200 N Main Street Fond du Lac, WI 54935	FirstSearch	CEG—conditionally exempt small quantity generators. Hazardous waste: Ignitable waste, methyl ethyl ketone, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, 2-nitropropane, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol. A leaking UST (1,000-gal leaded gasoline) closed. Environmental Repair: polynuclear aromatic hydrocarbons.	VGN Closed Open	.15 miles northeast	Downgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 12	Location within Capture Zone	Estimated Threat to Supply Wells
22	Murphy USA Marketing Company 229 N Main Street Fond du Lac, WI 54935	FirstSearch	11 underground tanks (1,000-gal fuel oil; 8,000-gal unleaded gasoline; 10,000-gal leaded gasoline; 550-gal waste/used motor oil; 300-gal unknown; 4,000-gal unleaded gasoline; 1,000-gal fuel oil; 10,000-gal unleaded gasoline; 2,000-gal unleaded gasoline; 8,000-gal unleaded gasoline; 8,000-gal unleaded gasoline) closed/removed. A leaking UST releasing petroleum was closed.	Closed Closed	.22 miles northeast	Downgradient beyond 5 year TOT	Low
23	Holy Family Church 26A Follett Street Fond du Lac, WI 54935	FirstSearch	Environmental repair: polynuclear aromatic hydrocarbons, metals, and volatile organic compounds discovered on site. This activity is still open. Environmental repair: polynuclear aromatic hydrocarbons, metals, and volatile organic compounds.	Open Closed	.22 miles northeast	Downgradient beyond 5 year TOT	Moderate
24	Donald Waldschmidt 232 N Main Street Fond du Lac, WI 54935	FirstSearch	One UST (550-gal leaded gasoline) closed/removed.	Closed	.22 miles northeast	Downgradient beyond 5 year TOT	Low
25	Fond du Lac Lutheran Home 244 N Macy Street Fond du Lac, WI 54935	FirstSearch	A leaking UST (1,500-gal fuel oil) was closed.	Closed	.24 miles northwest	Downgradient beyond 5 year TOT	Low
26	Covenant United Methodist Church 20 N Marr Street Fond du Lac, WI 54935	FirstSearch	One UST (5,000-gal fuel oil) abandoned without product.	Abandoned	.27 miles southeast	Upgradient beyond 5 year TOT	Low
27	Robert G Mach 31 E Division Street Fond du Lac, WI 54935	FirstSearch	One UST (1,000-gal unleaded gasoline) closed/filled with inert material	Closed	.27 miles southeast	Upgradient beyond 5 year TOT	Low
28	Dickinson Property 79 E Division Street Fond du Lac, WI	FirstSearch	Two USTs (1,100-gal fuel oil; 500-gal fuel oil) closed/removed—one leaking UST releasing petroleum.	Closed	.27 miles southeast	Upgradient beyond 5 year TOT	Low
29	Dan Barta 108 W Division Street Fond du Lac, WI 54935	FirstSearch	One UST (100-gal fuel oil) closed/removed.	Closed	.28 miles southwest	Upgradient beyond 5 year TOT	Low
30	Wright Bros Paper Box Co Inc 21 W Arndt Street Fond du Lac, WI 54935	FirstSearch	One UST (7,000-gal fuel oil) closed/removed.	Closed	.28 miles northeast	Downgradient beyond 5 year TOT	Low
31	Hull Property/Donald and Judith Hull 46 E Division Street Fond du Lac, WI	FirstSearch	A leaking UST (1,000-gal fuel oil) closed.	Closed	.29 miles southeast	Upgradient beyond 5 year TOT	Low
32	John Hackney/ Family Auto Center 271 N Main Street Fond du Lac, WI 54935	FirstSearch	Two USTs (500-gal fuel oil; 250-gal waste/used motor oil) closed/removed. CEG—conditionally exempt small quantity generators.	Closed VGN	.30 miles northeast	Downgradient beyond 5 year TOT	Low
33	Badger Freund Printing/Dirk S Van Pelt 145 W Division Street Fond du Lac, WI	FirstSearch	Two USTs (1,000-gal unleaded gasoline; 1,000-gal unleaded gasoline) closed/removed. A leaking UST was closed.	Closed Closed	.32 miles southwest	Upgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 12	Location within Capture Zone	Estimated Threat to Supply Wells
34	Wisconsin Bell Inc PL0106/ Ameritech L0106/ SBC Services Inc (PDO164) 70 E Division Street Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generators. Hazardous waste: Ignitable and corrosive waste. Five USTs (560-gal diesel fuel; 1,125-gal diesel fuel; 500-gal diesel fuel; 8,000-gal fuel oil; 4,000-gal diesel fuel): 2 in use, 1 closed/filled with inert material, 2 closed/removed. A spill occurred when a storage battery was dropped and 8 gallons of an unknown substance was released. A spill occurred when a LUST was being removed. An unknown amount of petroleum was released.	VGN Active Closed Closed	.32 miles southeast	Upgradient beyond 5 year TOT	Low
35	U Haul Co Inc 75071 Dick Williams 290 N Main Street Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generators. Hazardous waste: Ignitable waste and X001. Two USTs (10,000-gal unleaded gasoline; 550-gal waste/used motor oil) closed/removed.	VGN Closed	.32 miles northeast	Downgradient beyond 5 year TOT	Low
36	Robert Lang/ Lang Property 154 N Brooke Street Fond du Lac, WI 54935	FirstSearch	A leaking UST (300-gal fuel oil) was closed.	Closed	.32 miles northwest	Beyond 5 year TOT (sidegradient)	Low
37	Elks Club 57 33 Sheboygan Street Fond du Lac, WI 54935	FirstSearch	A leaking UST (1,000-gal fuel oil) was closed.	Closed	.33 miles southeast	Upgradient beyond 5 year TOT	Low
38	Firstar Bank 51 S Main Street Fond du Lac, WI	FirstSearch	A leaking UST releasing petroleum was closed.	Closed	.33 miles southeast	Upgradient beyond 5 year TOT	Low
39	Fond du Lac Public Library Ken Hall 32 Sheboygan Street Fond du Lac, WI 54935	FirstSearch	SQG–small quantity generator. Hazardous waste: Cadmium.	SGN	.33 miles southeast	Upgradient beyond 5 year TOT	Low
40	Gilbert C Osborn 208 W Johnson Street Fond du Lac, WI 54935	FirstSearch	One UST (200-gal fuel oil) abandoned without product	Abandoned	.33 miles northwest	Beyond 5 year TOT (sidegradient)	Low
41	U.S. Bank Corporate Real Estate 55 S Main Street Fond du Lac, WI 54935	FirstSearch	One UST (7,000-gal fuel oil) closed/removed.	Closed	.34 miles southeast	Upgradient beyond 5 year TOT	Low
42	Robert A Grinnell 52 Sheboygan Street Fond du Lac, WI 54935	FirstSearch	One UST (500-gal fuel oil) closed/filled with inert material.	Closed	.35 miles southeast	Upgradient beyond 5 year TOT	Low
43	Fond du Lac Concrete Products 183 W Follett Street Fond du Lac, WI	FirstSearch	Two leaking USTs were closed.	Closed	.35 miles northwest	Beyond 5 year TOT (sidegradient)	Low
44	La Esperanza Groceries/Donald Waldschmidt 306 N Main Street Fond du Lac, WI 54935	FirstSearch	Three USTs (4,000-gal leaded gasoline; 4,000-gal leaded gasoline; 4,000-gal diesel fuel) closed/filled with inert material. A leaking UST was closed.	Closed Closed	.35 miles northeast	Downgradient beyond 5 year TOT	Low
45	Brooke and Johnson Street intersections Fond du Lac, WI	FirstSearch	A spill occurred when a train hit a semi at a railroad crossing. 30 gallons of diesel fuel were released.	Historic Spill	.35 miles northwest	Beyond 5 year TOT (sidegradient)	Low
46	Osborn Trucking–WI DOT/ Osborn and Associates 221 W Johnson Street–STH 23 Fond du Lac, WI	FirstSearch	Two USTs (500-gal diesel fuel; 500-gal leaded gasoline) closed/removed. A leaking UST was closed.	Closed Closed	.36 miles northwest	Beyond 5 year TOT (sidegradient)	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 12	Location within Capture Zone	Estimated Threat to Supply Wells
47	Hilda Hamberger Estate 234 W Johnson Street Fond du Lac, WI 54935	FirstSearch	A leaking UST (560-gal unleaded gasoline) releasing gasoline was closed.	Closed	.36 miles northwest	Beyond 5 year TOT (sidegradient)	Low
48	Wisconsin Central LTD/Michler Enterprises 253 Lewis Street Fond du Lac, WI 54935	FirstSearch	Five USTs (8,000-gal fuel oil; 12,000-gal fuel oil; 8,000-gal diesel fuel; 8,000-gal gasoline; 8,000-gal fuel oil) closed/removed. A leaking UST was closed. Environmental repair: petroleum and gasoline.	Closed Closed Closed	.37 miles southwest	Beyond 5 year TOT (sidegradient)	Low
49	First Presbyterian Church 72 Sheboygan Street Fond du Lac, WI 54935	FirstSearch	One UST (500-gal fuel oil) closed/removed.	Closed	.37 miles southeast	Upgradient beyond 5 year TOT	Low
50	Model Cleaners/ Model Laundry Co. 66 S Macy Street Fond du Lac, WI 54936	FirstSearch	CEG–conditionally exempt small quantity generators. Hazardous waste: lead. One UST (550-gal other; 500-gal leaded gasoline) closed/filled with inert material, 1 UST closed/removed. A leaking UST releasing gasoline was closed. Environmental repair: non-chlorinated solvents.	VGN Closed Closed Closed	.37 miles southeast	Upgradient beyond 5 year TOT	Low
51	Charles Burnett 18 W Cotton Street Fond du Lac, WI	FirstSearch	One UST (550-gallon waste/used motor oil) closed/removed.	Closed	.37 miles northeast	Downgradient beyond 5 year TOT	Low
52	Speedway/Superamerica LLC No 2006 129 Forest Avenue Fond du Lac, WI 54935	FirstSearch	A spill occurred from a leaking tank. 700 gallons of gasoline was released. A leaking UST was closed. Two USTs (14,000-gal unleaded gasoline; 6,000-gal unleaded gasoline) in use.	Historic Spill Closed Active	.38 miles southwest	Upgradient beyond 5 year TOT	Low
53	French Advertising 235 W Johnson Street Fond du Lac, WI 54935	FirstSearch	SQG–small quantity generator. Hazardous waste: Ignitable waste. One UST (550-gal leaded gasoline) closed/removed. A leaking UST releasing petroleum was discovered. This activity is still open. Environmental repair: diesel fuel and volatile organic compounds.	SGN Closed Open Closed	.38 miles northwest	Beyond 5 year TOT (sidegradient)	Low
54	Fond du Lac Clinic–M V Mutzelburg 80 Sheboygan Street Fond du Lac, WI 54935	FirstSearch	One UST (1,111-gal fuel oil) abandoned without product.	Abandoned	.38 southeast	Upgradient beyond 5 year TOT	Low
55	Dons Radiator/ Scott Zimmermann 117 Forest Avenue Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generators. Hazardous waste: Ignitable waste. 12 USTs (1,000-gal leaded gasoline; 4,000-gal leaded gasoline; 1,000-gal leaded gasoline; 1,000-gal diesel fuel; 1,000-gal unknown; 2,000-gal leaded gasoline; 6,000-gal leaded gasoline; 500-gal waste/used motor oil; 5,000-gal unleaded gasoline; 1,000-gal leaded gasoline; 2,000-gal leaded gasoline; 2,000-gal leaded gasoline): 11 closed/removed, 1 closed/filled with inert material. A leaking UST releasing petroleum was closed.	VGN Closed Closed	.38 miles southwest	Upgradient beyond 5 year TOT	Low
56	First Presbyterian Church 39 S Marr Street Fond du Lac, WI	FirstSearch	A leaking UST (2,000-gal fuel oil) closed.	Closed	.38 miles southeast	Upgradient beyond 5 year TOT	Low

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57	Sadoff Iron and Metal Co 240 W Arndt Street Fond du Lac, WI 54935	FirstSearch	A spill occurred from a daily crushing and shredding operation. 100 gallons of engine waste oil was released.	Historic Spill	.39 miles northwest	Beyond 5 year TOT (sidegradient)	Low
58	Main Street Between Forest Avenue and 1 <sup>st</sup> Street Fond du Lac, WI	FirstSearch	A spill occurred while cleaning. 5 gallons of an unknown substance was accidentally released.	Historic Spill	.39 miles southeast	Upgradient beyond 5 year TOT	Low
59	180 W Division Street Fond du Lac, WI	FirstSearch	A spill was reported when an automobile struck a gas meter. No action was taken.	Historic Spill	.39 miles southwest	Beyond 5 year TOT (sidegradient)	Low
60	Wells MFG Corp–diesel UST 26 S Brooke Street Fond du Lac, WI 54935	FirstSearch	Leaking UST releasing diesel fuel was discovered. This activity still open. Leaking UST releasing petroleum discovered. This activity still open. Environmental repair: volatile organic compounds and metals found on site. This activity still open. Environmental repair: volatile organic compounds.	Open Open Open Closed	.40 miles southwest	Beyond 5 year TOT (sidegradient)	Low
61	Fond du Lac Auto Sales/ Harley Guell 317 N Main Street Fond du Lac, WI	FirstSearch	Four USTs (500-gal diesel fuel; 5,000-gal leaded gasoline; 500-gal waste/used motor oil; 5,000-gal leaded gasoline) closed/removed. A leaking UST was closed.	Closed Closed	.40 miles northeast	Downgradient beyond 5 year TOT	Low
62	Forest Ave 100 E of Military Road Fond du Lac, WI	FirstSearch	A spill occurred when a hose on a boat burst. 25 gallons of petroleum was released.	Historic Spill	.40 miles southwest	Upgradient beyond 5 year TOT	Low
63	Merwin Oil Bulk Facility (former) 254 Auburn Street Fond du Lac, WI	FirstSearch	Four USTs (12,000-gal fuel oil; 16,000-gal fuel oil; 20,000-gal fuel oil; 13,000-gal fuel oil) closed/removed. Environmental repair: diesel fuel and petroleum.	Closed Closed	.40 miles southwest	Beyond 5 year TOT (sidegradient)	Low
64	Ferris Property/ Michael and Susan Ferris 105 Sheboygan Street Fond du Lac, WI	FirstSearch	Two USTs (1,000-gal fuel oil; 195-gal unleaded gasoline) closed/removed. A leaking UST was closed.	Closed Closed	.41 miles southeast	Upgradient beyond 5 year TOT	Low
65	Rons Self Serve/Abootilib Sharif 324 N Main Street Fond du Lac, WI 54935	FirstSearch	Five USTs (10,000-gal unleaded gasoline; 10,000-gal unleaded gasoline; 10,000-gal leaded gasoline; 10,000-gal unleaded gasoline; 4,000-gal unleaded gasoline): 3 in use, 2 closed/removed. A leaking UST was closed.	Active Closed	.41 miles northeast	Downgradient beyond 5 year TOT	Low
66	Scott M McNab/ Sunrise Auto Body 140 Forest Avenue Fond du Lac, WI 54935	FirstSearch	Two USTs (100-gal unleaded gasoline; 90-gal empty tank) closed/removed. CEG–conditionally exempt small quantity generators. Hazardous waste: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated fluorocarbons, Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, ignitable waste, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane.	Closed VGN	.41 miles southwest	Upgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 12	Location within Capture Zone	Estimated Threat to Supply Wells
67	Taylor and Moore Street Fond du Lac, WI	FirstSearch	A spill occurred when a leaking underground transfer pipe released 2000 gallons of an unknown substance.	Closed	.41 miles southwest	Beyond 5 year TOT (sidegradient)	Low
68	Wells MFG Corp/ United Components Michael G Baumhardt 26 S Brooke Street Fond du Lac, WI 54935	FirstSearch	SQG–small quantity generator. Hazardous waste: Lead, NON-LISTED TOXIC WASTE, trichloroethylene, wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; benzene, ignitable waste, and tetrachloroethylene. One UST (550-gal fuel oil) closed/filled with inert material. A leaking UST releasing petroleum was discovered in 2003. This activity is still open. Environmental repair: volatile organic compounds.	SGN Closed Open Closed	.42 miles southwest	Beyond 5 year TOT (sidegradient)	Low
69	Jack Strum/ Jacks Auto Body 267 W Johnson Street Fond du Lac, WI 54935	FirstSearch	One UST (1,000-gal fuel oil) closed/removed. CEG–conditionally exempt small quantity generators. Hazardous waste: Ignitable waste, NON-LISTED TOXIC WASTE, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane.	Closed VGN	.43 miles northwest	Beyond 5 year TOT (sidegradient)	Low
70	Salem United Methodist Church 120 Sheboygan Street Fond du Lac, WI 54935	FirstSearch	One UST (1,111-gal fuel oil) abandoned without product.	Abandoned	.43 miles southeast	Upgradient beyond 5 year TOT	Low
71	Wehrenberg Property 164 Hamilton Place Fond du Lac, WI	FirstSearch	Two USTs (300-gal leaded gasoline; 550-gal leaded gasoline) closed/removed. A leaking UST was closed.	Closed Closed	.43 miles southwest	Upgradient beyond 5 year TOT	Low
72	Bend Industries 183 W Follett Street Fond du Lac, WI 54935	FirstSearch	Three USTs (6,000-gal diesel fuel; 2,000-gal diesel fuel; 1,000-gal unleaded gasoline) closed/removed.	Closed	.43 miles northwest	Beyond 5 year TOT (sidegradient)	Low
73	Fox Valley Savings and Loan/CD Smith Company 51 E 1 <sup>st</sup> Street Fond du Lac, WI 54935	FirstSearch	One UST (1,000-gal waste/used motor oil) closed/removed. Large quantity generator. Hazardous waste: lead. A spill occurred while excavating for a parking lot and hit an unmarked, abandoned UST. Environmental repair: engine waste oil.	Closed LGN Closed Closed	.44 miles southeast	Upgradient beyond 5 year TOT	Low
74	Wisconsin Power and Light Co 270 W Johnson Street Fond du Lac, WI 54935	FirstSearch	SQG–small quantity generator. Hazardous waste: NON-LISTED TOXIC WASTE and benzene. Environmental repair: cyanide, metals, and polynuclear hydrocarbons. This activity still open. A spill occurred caused by vandalism releasing 2,800 gallons of mineral oil.	SGN Open Closed	.44 miles northwest	Beyond 5 year TOT (sidegradient)	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 12	Location within Capture Zone	Estimated Threat to Supply Wells
5	Thomas Sander 170 Forest Avenue Fond du Lac, WI 54935	FirstSearch	One UST (7,000-gal fuel oil)	DD	.44 miles southwest	Upgradient beyond 5 year TOT	Low
76	Eckerts Sanitation Service Inc/ Waste Management 281 W Division Street Fond du Lac, WI 54935	FirstSearch	2 USTs closed/filled with inert material. A leaking UST was discovered in 1991.	Transporter Closed	.46 miles southwest	Beyond 5 year TOT (sidegradient)	Low
77	T and W Partnership/ Calumet Apartments 68 Harrison Place Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generators. Hazardous waste: Ignitable waste. 1 UST (8,000-gal fuel oil) closed/removed	VGN Closed	.47 miles southwest	Upgradient beyond 5 year TOT	Low
78	Fond du Lac Reporter/Thomson Corporation 33 W 2 <sup>nd</sup> Street Fond du Lac, WI 54935	FirstSearch	SQG–small quantity generator. Hazardous waste: Benzene. Leaking UST discovered in 2000. Gasoline is leaking within 1000 feet of a public well. The site is currently conditionally closed. 1 UST (1,000-gal leaded gasoline) closed/removed.	SGN Conditional Close	.47 miles southwest	Upgradient beyond 5 year TOT	Low
79	Mike Davis 24 E Mc Williams Street Fond du Lac, WI 54935	FirstSearch	1 UST (10,000-gal fuel oil) closed/removed	Closed	.47 miles northeast	Downgradient beyond 5 year TOT	Low
80	Jeremy Smet 179 N Park Avenue Fond du Lac, WI 54935	FirstSearch	1 UST (60-gal fuel oil) closed/removed	Closed	.48 miles northeast	Beyond 5 year TOT (sidegradient)	Low
81	Condon Oil Franks Amoco 173 N Park Avenue Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generators. Hazardous waste: NON-LISTED TOXIC WASTE, lead, benzene, corrosive and ignitable waste. 6 USTs (8,000-gal unleaded gasoline; 1,000-gal waste/used motor oil; 8,000-gal unleaded gasoline; 2,000-gal unleaded gasoline; 550-gal used fuel oil; 700-gal waste/used motor oil) closed/removed. Leaking UST discovered in 1994.	VGN Closed	.48 miles northeast	Upgradient beyond 5 year TOT	Low
82	Simplex Manufacturing Corp./ Metal Link Corp 322 N Military Road Fond du Lac, WI 54936	FirstSearch	2 USTs (300-gal unleaded gasoline; 550-gal unleaded gasoline): 1 closed/filled with inert material, 1 closed/removed CEG–conditionally exempt small quantity generators. Hazardous waste: Tetrachloroethylene, trichlorethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated fluorocarbons, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, 2-nitropropane, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol. Leaking UST discovered in 1995.	Closed VGN Closed	.48 miles northwest	Downgradient beyond 5 year TOT	Low
83	Forest Avenue 1/8 mile W of Brooke Fond du Lac, WI	FirstSearch	In 1991 a spill occurred when a bulk tank overflowed while filling. 400 gallons of gasoline was spilled. In 1988 a spill occurred when a bulk storage tank overfilled. In 1992 a spill occurred during a transportation accident when a load shifted and cap came off the gas tank. 75 gallons were released.	Historic Spill Historic Spill Historic Spill	.48 miles southwest	Upgradient beyond 5 year TOT	Low
84	US Postal Service J Retzlaff 99 W 2 <sup>nd</sup> Street Fond du Lac, WI 54935	FirstSearch	4 USTs (3,000-gal unleaded gasoline; 1,500-gal fuel oil; 8,000-gal unleaded gasoline; 3,000-gal unleaded gasoline) closed/removed. CEG–conditionally exempt small quantity generators. Hazardous waste: Ignitable waste. Leaking UST discovered in 1996.	Closed VGN	.48 miles southwest	Upgradient beyond 5 year TOT	Low
85	107 2 <sup>nd</sup> Street Fond du Lac, WI	FirstSearch	In 1988 a spill occurred when a home heating tank was overfilled. 147 gallons of petroleum were released.	Historic Spill	.48 miles southwest	Upgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 12	Location within Capture Zone	Estimated Threat to Supply Wells
86	90 W 2 <sup>nd</sup> Street Fond du Lac, WI	FirstSearch	In 1988 spill occurred when there was a mixing of improper chemicals. 5 gallons were released into the sanitary sewer.	Historic Spill	.49 miles southwest	Upgradient beyond 5 year TOT	Low
87	National Exchange Bank 130 S Main Street Fond du Lac, WI	FirstSearch	In 1996 a spill occurred when a cylinder leaked during a test load. 55 gallons of mineral oil was released.	Closed	.49 miles southeast	Upgradient beyond 5 year TOT	Low
88	Rodenkirch Property 21 E Second Street Fond du Lac, WI	FirstSearch	Environmental repair- polynuclear aromatic hydrocarbons discovered. 2 USTs (500-gal leaded gasoline; 115-gal leaded gasoline) closed/removed.	Closed Closed	.49 miles southeast	Upgradient beyond 5 year TOT	Low
89	O Connor Oil Corp. 27 Talmadge Street Fond du Lac, WI 54935	FirstSearch	2 USTs (140-gal kerosene; 550-gal leaded gasoline) closed/removed	Closed	.50 miles southwest	Beyond 5 year TOT (sidegradient)	Low
90	City of Fond du Lac 371 N Main Street Fond du Lac, WI 54935	FirstSearch	5 USTs (6,000-gal unleaded gasoline; 6,000-gal leaded gasoline; 750-gal leaded gasoline; 1,000-gal leaded gasoline; 1,000-gal leaded gasoline): 2 closed/filled with inert material, 3 closed/removed. A leaking UST releasing gasoline was discovered in 1991.	Closed Closed	.50 miles northeast	Downgradient beyond 5 year TOT	Low
91	Ziebart Tidy Car 212 W Cotton Street Fond du Lac, WI	FirstSearch	Environmental repair in 1994. Soil contamination.	Closed	.50 miles northwest	Beyond 5 year TOT (sidegradient)	Low
92	Macgregor Building (former) 23-37 McWilliams and 374-382 Mar Fond du Lac, WI	FirstSearch	A leaking UST was discovered in 1998.	Closed	.50 miles northeast	Downgradient beyond 5 year TOT	Low
93	Main Exchange Restaurant 161 S Main Street Fond du Lac, WI	FirstSearch	In 2005 a spill occurred because of vandalism. 55 gallons of food product was dumped into the storm sewer.	Closed	.50 miles southeast	Upgradient beyond 5 year TOT	Low

WELL NO. 13

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 13	Location within Capture Zone	Estimated Threat to Supply Wells
1	Paul K Kottke (Former Vulcan) 566 N Main Street Fond du Lac, WI 54935	FirstSearch	Four USTs (1,500-gal leaded gasoline; 1,000-gal diesel fuel; 1,200-gal unleaded gasoline; 18,000-gal waste/used motor oil) closed/removed. Environmental Repair: petroleum.	Closed Closed	.04 miles southeast	Directly upgradient, beyond the 5 year TOT	Moderate
2	City of Fond du Lac/Fond du Lac Wastewater 700 N Doty Street Fond du Lac, WI 54935	FirstSearch	Three USTs (10,000-gal fuel oil; 10,000-gal fuel oil; 7,500-gal fuel oil) closed/removed. Environmental Repair: volatile organic compounds polynuclear aromatic hydrocarbons and metals	Closed Open	.13 miles northwest	Directly downgradient, beyond the 5 year TOT	Moderate
	City Garage 530 Doty Street Fond du Lac, WI 54935	Visual Inspection	Bulk salt storage at City Garage. Also serves as a drop off center for bulky waste, used oil, oil based paint, gasoline, anti-freeze, and fluorescent lights.	Active	.18 miles northeast	Beyond 5 year TOT (sidegradient)	Low
3	A-1 Auto Body 532 N Main Street Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generators.	VGN	.21 miles southeast	Beyond 5 year TOT (sidegradient)	Low
4	Roger Orlando 526 N Main Street Fond du Lac, WI 54935	FirstSearch	Leaking UST (10,000-gal unleaded gasoline) releasing petroleum closed.	Closed	.22 miles southeast	Beyond 5 year TOT (sidegradient)	Low
5	City of Fond du Lac/Fond du Lac Municipal Garage 530 Doty Street Fond du Lac, WI 54979	FirstSearch	9 USTs (2,500-gal waste/used motor oil; 1,000-gal waste/used motor oil; 12,000-gal diesel fuel; 12,000-gal unleaded gasoline; 10,000-gal unleaded gasoline; 400-gal waste/used motor oil; 10,000-gal diesel fuel; 12,000-gal diesel fuel; 12,000-gal unleaded gasoline): 4 in use, 5 closed/removed. Leaking UST releasing petroleum closed. SQG–small quantity generator. Hazardous waste: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane.	Active Closed SGN	.22 miles southwest	Beyond 5 year TOT (sidegradient)	Moderate
6	A to Z Vending 83 Harbor View Drive Fond du Lac, WI 54979	FirstSearch	Leaking UST releasing petroleum closed.	Closed	.22 miles southwest	Beyond 5 year TOT (sidegradient)	Low
7	David W Tack/Tack Oil 533 N Main Street Fond du Lac, WI 54979	FirstSearch	UST closed/removed. SQG–small quantity generator. Hazardous waste: NON-LISTED TOXIC WASTE and lead.	Closed SGN	.23 miles southeast	Beyond 5 year TOT (sidegradient)	Low
8	Rabe Wholesale/Robert J Rabe 520 N Main Street Fond du Lac, WI 54979	FirstSearch	10 USTs (500-gal leaded gasoline; 1,111-gal unleaded gasoline; 1,111-gal leaded gasoline; 1,000-gal unleaded gasoline; 1,111-gal fuel oil; 10,000-gal diesel fuel; 1,111-gal unleaded gasoline; 500-gal diesel fuel; 1,111-gal unleaded gasoline; 1,111-gal fuel oil) closed/removed. Leaking UST releasing petroleum closed.	Closed Closed	.23 miles southeast	Beyond 5 year TOT (sidegradient)	Low
9	Main Street and Scott Street Fond du Lac, WI	FirstSearch	A spill occurred from a broken valve on a bulk tank truck. All material from the spill was contained/recovered.	Historic Spill	.34 miles southeast	Beyond 5 year TOT (sidegradient)	Low
10	Supple S Marsh Fond du Lac, WI 54979	FirstSearch	Solid Waste Landfill	SWL	.36 miles northwest	Downgradient beyond the 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 13	Location within Capture Zone	Estimated Threat to Supply Wells
11	Saputo Cheese/Tolbia Cheese/Stella Food Inc Fond du Lac 45 E Scott Street Fond du Lac, WI 54935	FirstSearch	4 USTs (5,000-gal fuel oil; 10,000-gal fuel oil; 550-gal fuel oil; 5,000-gal fuel oil): 1 in use, 3 closed/removed. A leaking UST releasing petroleum was closed. SQG–small quantity generator. Hazardous waste: corrosive waste. 7 Spills reported–all closed.	Active Closed SGN Closed	.37 miles southeast	Beyond 5 year TOT (sidegradient)	Low
12	Kiekhaefer Aeromarine Inc. 600 N Water Street Fond du Lac, WI 54979	FirstSearch	One UST (1,000-gal unleaded gasoline) closed/removed.	Closed	.37 miles southwest	Beyond 5 year TOT (sidegradient)	Low
13	Service Motors Ford Inc. 24 E Scott Street Fond du Lac, WI 54979	FirstSearch	3 USTs (280-gal waste/used motor oil; 510-gal waste/used motor oil; 500-gal waste/used motor oil): 2 in use, 1 closed/removed. CEG–conditionally exempt small quantity generators. Hazardous waste: NON-LISTED TOXIC WASTE, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane. A spill occurred from a broken hydraulic line on a truck while it was loading vehicles. 15 gallons of mineral oil was released.	Active VGN Closed	.37 miles southeast	Beyond 5 year TOT (sidegradient)	Low
14	Pick N Save Parking Lot 75 W Scott Street Fond du Lac, WI 54935	FirstSearch	A spill occurred from a lead in gasoline tank. 10 gallons of petroleum was released.	Closed	.37 miles southwest	Beyond 5 year TOT (sidegradient)	Low
15	Pennzoil 10 Minute Oil Change/Robert J Mueller 40 W Scott Street Fond du Lac, WI 54979	FirstSearch	Two USTs (550-gal waste/used motor oil; 550-gal waste/used motor oil) in use. CEG–conditionally exempt small quantity generator. Hazardous waste: NON-LISTED TOXIC WASTE, chromium, cadmium, arsenic, lead.	Active VGN	.38 miles southwest	Beyond 5 year TOT (sidegradient)	Low
16	Davisco/Tolbia Cheese 45 E Scott Street Fond du Lac, WI 54979	FirstSearch	A spill occurred with a Davisco trailer punctured a fuel tank doing a delivery. 10 gallons of diesel fuel was released. A spill occurred from a broken transformer. All contaminant was contained/recovered.	Closed Historic Spill	.38 miles southeast	Beyond 5 year TOT (sidegradient)	Low
17	Mercury Marine–Brad Sabel 580 Water Street Fond du Lac, WI 54936	FirstSearch	One UST (550-gal unleaded gasoline) closed/removed.	Closed	.38 miles southwest	Beyond 5 year TOT (sidegradient)	Low
18	Ready Mixed Concrete Inc./Wayne Geis 57 E Scott Street Fond du Lac, WI 54935	FirstSearch	11 USTs (2,000-gal unleaded gasoline; 250-gal waste/used motor oil; 10,000-gal diesel fuel; 1,500-gal leaded gasoline; 10,000-gal diesel fuel; 500-gal fuel oil; 1,000-gal diesel fuel; 2,000-gal leaded gasoline; 1,000-gal fuel oil; 10,000-gal diesel fuel; 10,000-gal diesel fuel): 2 in use, 6 closed/removed, 4 closed/filled with inert material.	Active	.38 miles southeast	Beyond 5 year TOT (sidegradient)	Low
19	Tack Oil 69 E Scott Street Fond du Lac, WI 54979	FirstSearch	Three USTs (1,000-gal fuel oil; 10,000-gal unleaded gasoline; 6,000-gal leaded gasoline) closed/removed.	Closed	.38 miles southeast	Beyond 5 year TOT (sidegradient)	Low
20	Parkside Motors 446 N Main Street Fond du Lac, WI 54935	FirstSearch	Six USTs (275-gal kerosene; 4,000-gal leaded gasoline; 550-gal fuel oil; 6,000-gal unleaded gasoline; 550-gal waste/used motor oil; 4,000-gal unleaded gasoline) closed/removed. Leaking UST leasing petroleum and engine oil was closed. CEG–conditionally exempt small quantity generator. Hazardous waste: ignitable waste.	Closed Closed VGN	.39 miles southeast	Beyond 5 year TOT (sidegradient)	Low
21	Melvin Willie/West Park Marine 570 N Water Street Fond du Lac, WI 54979	FirstSearch	Two USTs (550-gal unleaded gasoline; 500-gal leaded gasoline) closed/removed. A leaking UST releasing gasoline closed.	Closed Closed	.39 miles southwest	Beyond 5 year TOT (sidegradient)	Low
22	Abels Optical Service/Hall Family Trust 98 W Scott Street Fond du Lac, WI 54979	FirstSearch	One UST (550-gal diesel fuel) closed/removed. A leaking UST was closed.	Closed Closed	.40 miles southwest	Beyond 5 year TOT (sidegradient)	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 13	Location within Capture Zone	Estimated Threat to Supply Wells
23	Jet Stream Car Wash 60 E Scott Street Fond du Lac, WI 54979	FirstSearch	A leaking UST was closed.	Closed	.41 miles southeast	Beyond 5 year TOT (sidegradient)	Low
24	Mr Marine/Robert Lloyd 532 Water Street Fond du Lac, WI 54979	FirstSearch	Three USTs closed/removed. A leaking UST was closed.	Closed Closed	.41 miles southwest	Beyond 5 year TOT (sidegradient)	Low
25	Clark Station 1502/AASTHA Petroleum LLC 136 W Scott Street Fond du Lac, WI 54979	FirstSearch	6 USTs (10,000-gal unleaded gasoline; 10,000-gal unleaded gasoline; 6,500-gal leaded gasoline; 4,000-gal unleaded gasoline; 12,000-gal unleaded gasoline; 10,000-gal content 17): 3 in use, 3 closed/removed. A leaking UST was discovered releasing gasoline. The activity is still open. A spill occurred from a leak in a vehicle gas line. 11 gallons of gasoline were released into storm sewer.	Active Open Closed	.43 miles southwest	Beyond 5 year TOT (sidegradient)	Low
26	Dept of Public Works 555 N Park Avenue Fond du Lac, WI 54979	FirstSearch	4 USTs (2,500-gal unleaded gasoline; 850-gal unleaded gasoline; 1,000-gal unleaded gasoline; 1,500-gal unleaded gasoline): 2 in use, 2 closed/removed	Active	.44 miles southeast	Upgradient beyond 5 year TOT	Low
27	Dorothy Jewsen/Jewsen Property 432 Doty Street Fond du Lac, WI 54979	FirstSearch	One UST (1,000-gal fuel oil) closed/removed. A leaking UST was closed.	Closed Closed	.44 miles southwest	Beyond 5 year TOT (sidegradient)	Low
28	Alexander Motors 421 N Main Street Fond du Lac, WI 54979	FirstSearch	CEG—conditionally exempt generators.	VGN	.45 miles southeast	Beyond 5 year TOT (sidegradient)	Low
29	D J Lavey/Action Rent A Car 411 N Main Street Fond du Lac, WI 54979	FirstSearch	4 USTs (6,000-gal leaded gasoline; 8,000-gal diesel fuel; 550-gal waste/used motor oil; 8,000-gal leaded gasoline): 3 closed/filled with inert material, 1 closed/removed. Leaking UST closed.	Closed Closed	.46 miles southeast	Beyond 5 year TOT (sidegradient)	Low
30	Donald Jacques 160 W Scott Street Fond du Lac, WI 54979	FirstSearch	Two USTs (500-gal unleaded gasoline; 1,000-gal unleaded gasoline) closed/removed.	Closed	.46 miles southwest	Beyond 5 year TOT (sidegradient)	Low
31	Edward L Wuest 164 E Scott Street Fond du Lac, WI 54979	FirstSearch	One UST (555-gal fuel oil) in use.	Active	.50 miles southeast	Beyond 5 year TOT (sidegradient)	Low
32	Anders Auto Parts Inc 16 W Sibley Street Fond du Lac, WI 54979	FirstSearch	CEG—conditionally exempt generator. Hazardous waste: Ignitable waste, cresols, cresylic acid, nitrobenzene, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane.	VGN	.50 miles southwest	Beyond 5 year TOT (sidegradient)	Low
	Harvat Fill Site Winnebago Drive Fond du Lac, WI 54935	FirstSearch	Environmental Repair: unknown amount of a substance not listed. This activity is still open.	Open	Non GC	Beyond 5 year TOT (sidegradient)	Low
	Zernicke Trucking Hwy 45 and W Scott Street Fond du Lac, WI 54935	FirstSearch	A spill occurred when a semi trailer overturned because of traffic accident. An unknown amount of diesel and another substance were released.	Closed	Non GC	Beyond 5 year TOT (sidegradient)	Low
	Winnebago Street Fond du Lac, WI 54935	FirstSearch	A spill occurred from a transformer explosion. 18 gallons of petroleum were released.	Historic Spill	Non GC	Beyond 5 year TOT (sidegradient)	Low
	City Landing Lake Winnebago Fond du Lac, WI	FirstSearch	A spill occurred when a boat rammed the shore. No action was taken.	Historic Spill	Non GC	Beyond 5 year TOT (sidegradient)	Low
	Pickarts Radiator 308 N Brooke Street Fond du Lac, WI 54935	FirstSearch	SQG—small quantity generator. Hazardous waste: lead.	SGN	Non GC	Beyond 5 year TOT (sidegradient)	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 13	Location within Capture Zone	Estimated Threat to Supply Wells
	Hometown Realty 118 N Main Street Fond du Lac, WI 54935	FirstSearch	10 USTs (500-gal fuel oil; 4,000-gal leaded gasoline; 3,000-gal leaded gasoline; 4,000-gal leaded gasoline; 6,000-gal leaded gasoline; 2,000-gal leaded gasoline; 1,000-gal leaded gasoline; 2,500-gal leaded gasoline; 4,000-gal leaded gasoline; 1,000-gal waste/used motor oil) closed/removed.	Closed	Non GC	Beyond 5 year TOT (sidegradient)	Low
	Agnes Ramien N Main Street Fond du Lac, WI	FirstSearch	A spill occurred during a traffic crash. 10 gallons of gasoline was released.	Closed	Non GC	Beyond 5 year TOT (sidegradient)	Low

WELL NO. 14

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 14	Location within Capture Zone	Estimated Threat to Supply Wells
1	Edmund Vetter 503 HWY 23E Fond du Lac, WI 54979	FirstSearch	One UST (140-gal leaded gasoline) abandoned without product.	Abandoned	.04 miles northeast	5 year TOT	Low
2	Holiday Station Station 137 441 Johnson Street E Fond du Lac, WI 54979	FirstSearch	CEG- conditionally exempt small quantity generator. Hazardous waste: Non-listed toxic waste, benzene, ignitable waste.	VGN	.07 miles northwest	Directly downgradient, beyond 5 year TOT	Low
3	Albert Gaskill 638 E Johnson Street Fond du Lac, WI 54935	FirstSearch	One UST (450-gal fuel oil) in use.	Active	.18 miles southeast	Upgradient beyond 5 year TOT	Low
4	Mueller Property 639 Johnson Street Fond du Lac, WI 54935	FirstSearch	Leaking UST closed.	Closed	.18 miles northeast	Upgradient beyond 5 year TOT	Low
5	David Schroeder N178 Taft Fond du Lac, WI 54979	FirstSearch	One UST (550-gal unleaded gasoline) closed/removed.	Closed	.22 miles northwest	Beyond 5 year TOT (sidegradient)	Low
6	Michael and Susan Sorrell 175 Cottage Avenue Fond du Lac, WI 54979	FirstSearch	One UST (1,000-gal fuel oil) closed/removed.	Closed	.24 miles southwest	Beyond 5 year TOT (sidegradient)	Low
7	Gordon A Porter 486 McWilliam Fond du Lac, WI 54979	FirstSearch	One UST (250-gal fuel oil) in use.	Active	.32 miles northwest	Beyond 5 year TOT (sidegradient)	Low
8	Michael and Kay Bihss 492 E McWilliams Street Fond du Lac, WI 54979	FirstSearch	One UST (300-gal fuel oil) in use.	Active	.32 miles northwest	Beyond 5 year TOT (sidegradient)	Low
9	Moraine Park Technical/Norbert McCormick 235 N National Avenue Fond du Lac, WI 54979/54935	FirstSearch	6 USTs (2,000-gal unleaded gasoline; 500-gal waste/used motor oil; 500-gal waste/used motor oil; 500-gal waste/used motor oil; 2,000-gal leaded gasoline; 275-gal waste/used motor oil) closed/removed. SQG–small quantity generator. Hazardous waste: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, 2-nitropropane, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol.	Closed SGN	.36 miles northeast	Beyond 5 year TOT (sidegradient)	Low
10	Associated Physicians Group 505 E Division Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt quantity generator. Hazardous waste: Non-listed toxic waste.	VGN	.36 miles southwest	Beyond 5 year TOT (sidegradient)	Low
11	North Fond du Lac School District 225 McKinley Street Fond du Lac, WI 54979	FirstSearch	Two USTs (500-gal unleaded gasoline; 500-gal unleaded gasoline) closed/removed. SQG–small quantity generator. Hazardous waste: Naphthalene, Benzene, 1,4-dichloro- (OR) p-Dichlorobenzene, Ignitable waste, 1,3-Benzenediol (OR) Resorcinol, benzene, hexahydro- (I) (OR) Cyclohexane (I), 2-Propanone (I) (OR) Acetone (I), Acetic acid ethyl ester (I) (OR) Ethyl acetate (I), Aniline (I,T) (OR) Benzenamine (I,T) Benzene, methyl- (OR) Toluene, 2,4-Dinitrophenol (OR) Phenol, 2,4-dinitro-, Formaldehyde.	Closed SGN	.37 miles northwest	Beyond 5 year TOT (sidegradient)	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 14	Location within Capture Zone	Estimated Threat to Supply Wells
12	Norbert Meixensperger RTE 4 Fond du Lac, WI 54979	FirstSearch	Two USTs (1,000-gal fuel oil; 550-gal fuel oil) in use.	Active	.37 miles northeast	Beyond 5 year TOT (sidegradient)	Low
13	St Agnes Hospital 33 Oak Lawn Avenue Fond du Lac, WI 54935	FirstSearch	One UST (1,000-gal fuel oil) closed/removed	Closed	.37 miles southwest	Beyond 5 year TOT (sidegradient)	Low
14	Edward J Kremer/Kremer Property 445 E Division Street Fond du Lac, WI 54935	FirstSearch	One UST (2,000-gal fuel oil) closed/removed. A leaking UST releasing petroleum closed.	Closed Closed	.38 miles southwest	Beyond 5 year TOT (sidegradient)	Low
15	Bill Engel N6916 Lap Rd Fond du Lac, WI 54935	FirstSearch	One UST (250-gal unleaded gasoline) closed/removed.	Closed	.39 miles southeast	Upgradient beyond 5 year TOT	Low
16	St Agnes Hospital/Paul Feldner 430 E Division Street Fond du Lac, WI 54935	FirstSearch	9 USTs (1,000-gal leaded gasoline; 300-gal diesel fuel; 150-gal fuel oil; 15,000-gal fuel oil; 20,000-gal fuel oil; 10,000-gal fuel oil; 250-gal fuel oil; 333-gal diesel fuel; 15,000-gal fuel oil): 3 in use, 6 closed/removed. A leaking UST releasing petroleum closed. A spill occurred during operation. SQG–small quantity generator. Hazardous waste: Corrosive waste, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol.	Closed/Active Closed Historic Spill SGN	.39 miles southwest	Beyond 5 year TOT (sidegradient)	Low
17	St Agnes Hospital 425 E Division Street Fond du Lac, WI 54935	FirstSearch	Two USTs (500-gal fuel oil; 1,000-gal fuel oil) closed/removed. A leaking UST releasing petroleum removed.	Closed Closed	.39 miles southwest	Beyond 5 year TOT (sidegradient)	Low
18	School District of North Fond du Lac 225 McKinley Street North Fond du Lac, WI 54935	FirstSearch	Two USTs (500-gal unleaded gasoline; 500-gal unleaded gasoline) closed/removed.	Closed	.39 miles northwest	Beyond 5 year TOT (sidegradient)	Low
19	John J Cooper 14 Champion Avenue Fond du Lac, WI 54935	FirstSearch	One UST (1,000-gal fuel oil) in use.	Active	.46 miles southwest	Beyond 5 year TOT (sidegradient)	Low
20	Mike and Kristine Schoening 254 E Arndt Street Fond du Lac, WI 54979	FirstSearch	Two USTs (100-gal leaded gasoline; 300-gal diesel fuel) closed/removed.	Closed	.47 miles northwest	Beyond 5 year TOT (sidegradient)	Low
21	Robert Hutter 337 Sheboygan Street Fond du Lac, WI 54935	FirstSearch	One UST (1,000-gal fuel oil) closed/removed.	Closed	.50 miles southwest	Beyond 5 year TOT (sidegradient)	Low

WELL NO. 15

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 15	Location within Capture Zone	Estimated Threat to Supply Wells
1	Pick N Save Parking Lot 75 W Scott Street Fond du Lac, WI 54935	FirstSearch	A spill occurred from a leak in a gasoline tank. 10 gallons of gasoline was released.	Closed	.02 miles northwest	5 year TOT	Low
2	Robert J Mueller/Pennzoil 10 Minutes Oil Change 40W Scott Street Fond du Lac, WI 54979	FirstSearch	Two USTs (550-gal waste/used motor oil; 550-gal waste/used motor oil) in use. CEG–conditionally exempt small quantity generator. Hazardous waste: Non-listed toxic waste, chromium, cadmium, arsenic, and lead.	Active VGN	.06 miles southeast	Beyond 5 year TOT (sidegradient)	Low
3	Abels Optical Service/Hall Family Trust 98 W Scott Street Fond du Lac, WI 54979	FirstSearch	One UST (550-gal diesel fuel) closed/removed. A leaking UST was closed.	Closed Closed	.07 miles southwest	Beyond 5 year TOT (sidegradient)	Low
4	Jewsen Property/Dorothy Jewson 432 Doty Street Fond du Lac, WI 54979	FirstSearch	One UST (1,000-gal fuel oil) closed/removed. A leaking UST was closed.	Closed Closed	.09 miles southwest	Downgradient beyond 5 year TOT	Low
5	Parkside Motors 446 N Main Street Fond du Lac, WI 54979	FirstSearch	6 USTs (275-gal kerosene; 4,000-gal leaded gasoline; 550-gal fuel oil; 6,000-gal unleaded gasoline; 550-gal waste/used motor oil; 4,000-gal unleaded gasoline) closed/removed. A leaking UST releasing petroleum and engine waste oil was closed. CEG–conditionally exempt small quantity generator. Hazardous waste: Ignitable waste.	Closed Closed VGN	.11 miles southeast	Beyond 5 year TOT (sidegradient)	Low
6	Main Street and Scott Street Fond du Lac, WI 54979	FirstSearch	A spill occurred from a broken valve on a bulk tank truck. Contamination was contained/recovered.	Historic Spill	.11 miles northeast	Beyond 5 year TOT (sidegradient)	Low
7	Service Motors Ford Inc. 24 E Scott Street Fond du Lac, WI 54979	FirstSearch	Three USTs (280-gal waste/used motor oil; 510-gal waste/used motor oil; 500-gal waste/used motor oil): 2 in use, 1 closed/removed. CEG–conditionally exempt small quantity generator. Hazardous waste: Ignitable waste, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane. A spill occurred from a broken hydraulic line on a truck while loading at Service motors. 15 gallons of mineral oil was released.	Active VGN Closed	.13 miles southeast	Beyond 5 year TOT (sidegradient)	Low
8	Clark Station 1502/AASTHA Petroleum LLC 136 W Scott Street Fond du Lac, WI 54979	FirstSearch	6 USTs (10,000-gal unleaded gasoline; 10,000-gal unleaded gasoline; 6,500-gal leaded gasoline; 4,000-gal unleaded gasoline; 12,000-gal unleaded gasoline; 10,000-gal content 17): 3 in use, 3 closed/removed. A leaking UST releasing gasoline is still open. A spill occurred from a leak in a vehicle gasoline line. 11 gallons of gasoline was released into storm sewer.	Active Open Closed	.14 miles southwest	Beyond 5 year TOT (sidegradient)	Low
9	Alexander Motors 421 N Main Street Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generator.	VGN	.15 miles southeast	Beyond 5 year TOT (sidegradient)	Low
10	Action Rent a Car/D J Lavey 411 N Main Street Fond du Lac, WI 54979	FirstSearch	4 USTs (6,000-gal leaded gasoline; 8,000-gal diesel 550-gal waste/used motor oil; 8,000-gal leaded gasoline): 3 closed/filled with inert material, 1 closed/removed. A leaking UST closed.	Closed Closed	.15 miles southeast	Beyond 5 year TOT (sidegradient)	Low
11	Anders Auto Parts Inc 16 W Sibley Street Fond du Lac, WI 54979	FirstSearch	CEG–conditionally exempt small quantity generator. Hazardous waste: Ignitable waste, cresols, cresylic acid, nitrobenzene, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane.	VGN	.16 miles southeast	Downgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 15	Location within Capture Zone	Estimated Threat to Supply Wells
12	Saputo Cheese/Tolbia Cheese/Stella Foods Inc Fond du Lac 45 E Scott Street Fond du Lac, WI 54935/54979	FirstSearch	4 USTs (5,000-gal fuel oil; 10,000-gal fuel oil; 550-gal fuel oil; 5,000-gal fuel oil): 1 in use, 3 closed/removed. A leaking UST releasing petroleum was closed. SQG—small quantity generator. Hazardous waste: corrosive waste. A total of 7 spills reported—all closed.	Active Closed SGN Closed	.17 miles northeast	Beyond 5 year TOT (sidegradient)	Low
13	A to Z Vending 83 Harbor View Drive Fond du Lac, WI 54979	FirstSearch	Leaking UST releasing petroleum was closed.	Closed	.17 miles northwest	Upgradient beyond 5 year TOT	Low
14	Robert J Rabe/Rabe Wholesale 520 N Main Street Fond du Lac, WI 54979	FirstSearch	10 USTs closed/removed. Leaking UST releasing petroleum was closed.	Closed Closed	.17 miles northeast	Upgradient beyond 5 year TOT	Low
15	A-1 Auto Body 532 N Main Street Fond du Lac, WI 54935	FirstSearch	CEG—conditionally exempt small quantity generators.	VGN	.18 miles northeast	Upgradient beyond 5 year TOT	Low
16	Wayne Geil/Ready Mixed Concrete Inc. 57 E Scott Street Fond du Lac, WI 54979	FirstSearch	11 USTs (2,000-gal unleaded gasoline; 250-gal waste/used motor oil; 10,000-gal diesel fuel; 1,500-gal leaded gasoline; 10,000-gal diesel fuel; 500-gal fuel oil; 1,000-gal diesel fuel; 2,000-gal leaded gasoline; 1,000-gal fuel oil; 10,000-gal diesel fuel; 10,000-gal diesel fuel): 2 in use, 6 closed/removed, 4 closed/filled with inert material.	Active	.18 miles northeast	Upgradient beyond 5 year TOT	Low
17	American Family Insurance Co 374 N Main Street Fond du Lac, WI 54935	FirstSearch	A spill occurred during the removal of an abandoned UST. An unknown amount of gasoline was released.	Closed	.18 miles southeast	Downgradient beyond 5 year TOT	Low
18	Roger Orlando 526 N Main Street Fond du Lac, WI 54979	FirstSearch	One UST (10,000-gal unleaded gasoline) closed/removed.	Closed	.18 miles northeast	Upgradient beyond 5 year TOT	Low
19	Donald Jacques 160 W Scott Street Fond du Lac, WI 54979	FirstSearch	2 USTs (500-gal unleaded gasoline; 1,000-gal unleaded gasoline) closed/removed.	Closed	.19 miles southwest	Beyond 5 year TOT (sidegradient)	Low
20	Davisco/Tolbia Cheese 45 E Scott Street Fond du Lac, WI 54979	FirstSearch	A spill occurred with a Davisco trailer punctured a fuel tank doing a delivery. 10 gallons of diesel fuel was released. A spill occurred from a broken transformer. All contaminant was contained/recovered.	Closed Historic Spill	.19 miles northeast	Beyond 5 year TOT (sidegradient)	Low
21	City of Fond du Lac, 371 N Main Street Fond du Lac, WI 54979	FirstSearch	5 USTs (6,000-gal unleaded gasoline; 6,000-gal leaded gasoline; 750-gal leaded gasoline; 1,000-gal leaded gasoline; 1,000-gal leaded gasoline): 3 closed/removed, 2 closed/filled with inert material. A leaking UST releasing gasoline closed.	Closed Closed	.19 miles southeast	Downgradient beyond 5 year TOT	Low
22	Tack Oil 69 E Scott Street Fond du Lac, WI 54979	FirstSearch	3 USTs (1,000-gal fuel oil; 10,000-gal unleaded gasoline; 6,000-gal leaded gasoline) closed/removed.	Closed	.19 miles northeast		Low
23	City of Fond du Lac/Fond du Lac Municipal Garage 530 N Doty Street Fond du Lac, WI 54979	FirstSearch	9 USTs (12,000-gal diesel fuel; 400-gal unleaded gasoline; 10,000-gal unleaded gasoline; 2,500-gal waste/used motor oil; 10,000-gal diesel fuel; 1,000-gal waste/used motor oil; 12,000-gal diesel fuel; 12,000-gal unleaded gasoline; 12,000-gal unleaded gasoline): 4 in use, 5 closed/removed. Leaking UST discovered in 1989 releasing petroleum. SQG—small quantity generator. Hazardous waste: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane.	Active Closed SGN	.20 miles northwest	Upgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 15	Location within Capture Zone	Estimated Threat to Supply Wells
24	David W Tack/Tack oil Co 533 N Main Street Fond du Lac, WI 54979	FirstSearch	10 USTs (500-gal leaded gasoline; 1,111-gal unleaded gasoline; 1,111-gal leaded gasoline; 1,000-gal unleaded gasoline; 1,111-gal fuel oil; 10,000-gal diesel fuel; 1,111-gal unleaded gasoline; 500-gal diesel fuel; 1,111-gal unleaded gasoline; 1,111-gal fuel oil) closed/removed. SQG–small quantity generator. Hazardous waste: NON-LISTED TOXIC WASTE and lead.	Closed SGN	.20 miles northeast	Upgradient beyond 5 year TOT	Low
	City Garage 530 Doty Street Fond du Lac, WI 54935	Visual Inspection	Bulk salt storage at City Garage. Also serves as a drop off center for bulky waste, used oil, oil based paint, gasoline, anti-freeze, and fluorescent lights.	Active	.22 miles northwest	Upgradient beyond 5 year TOT	Low
25	Jet Stream Car Wash 60 E Scott Street Fond du Lac, WI 54979	FirstSearch	A leaking UST was closed.	Closed	.24 miles southeast	Beyond 5 year TOT (sidegradient)	Low
26	Osborn and Associates of Fond du Lac 179 W Sibley Street Fond du Lac, WI 54979	FirstSearch	Two USTs (500-gal leaded gasoline; 500-gal leaded gasoline): 1 closed/removed, 1 closed/filled with inert material.	Closed	.25 miles southwest	Beyond 5 year TOT (sidegradient)	Low
27	Michael W Tighe 180 W Sibley Street Fond du Lac, WI 54935	FirstSearch	One UST (1,000-gal unleaded gasoline) in use.	Active	.26 miles southwest	Beyond 5 year TOT (sidegradient)	Low
28	Mike Davis 24 W Mc Williams Street Fond du Lac, WI 54979	FirstSearch	One UST (10,000-gal fuel oil) closed/removed.	Closed	.26 miles southeast	Downgradient beyond 5 year TOT	Low
29	Ron's Self Service/Abottilib Sharif 324 N Main Street Fond du Lac, WI 54979	FirstSearch	5 USTs (10,000-gal unleaded gasoline; 10,000-gal unleaded gasoline; 10,000-gal leaded gasoline; 10,000-gal unleaded gasoline; 4,000-gal unleaded gasoline): 3 in use, 2 closed/removed. A leaking UST releasing petroleum was closed.	Active Closed	.27 miles southeast	Downgradient beyond 5 year TOT	Low
30	Brooke Street and W Sibley Street Fond du Lac, WI 54979	FirstSearch	A spill occurred from a broken line on a tank truck. 45 gallons of an unknown substance was released.	Historic Spill	.27 miles southwest	Beyond 5 year TOT (sidegradient)	Low
31	Stock Lumber Co 154 W McWilliams Street Fond du Lac, WI 54979	FirstSearch	A leaking UST was closed. Three USTs (85,500-gal leaded gasoline; 1,000-gal leaded gasoline; 500-gal unleaded gasoline) closed/removed.	Closed Closed	.27 miles southwest	Downgradient beyond 5 year TOT	Low
32	Macgregor Building 23-37 McWilliams and 374-382 MAR Fond du Lac, WI 54979	FirstSearch	A leaking UST was closed.	Closed	.27 miles southeast	Beyond 5 year TOT (sidegradient)	Low
33	Mr Marine/Robert Lloyd 532 Water Street Fond du Lac, WI 54979	FirstSearch	Three USTs (1,000-gal unleaded gasoline; 1,000-gal unleaded gasoline; 1,000-gal unleaded gasoline) closed/removed. A leaking UST was closed.	Closed Closed	.28 miles northwest	Beyond 5 year TOT (sidegradient)	Low
34	Metal Link Corp/Simplex Manufacturing Corp 322 N Military Road Fond du Lac, WI 54979/54936	FirstSearch	CEG–conditionally exempt small quantity generators. Hazardous waste: Ignitable waste, tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated fluorocarbons, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, 2-nitropropane, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol. Two USTs (300-gal unleaded gasoline; 550-gal unleaded gasoline): 1 closed/removed and 1 closed/filled with inert material. A leaking UST was closed.	VGN Closed Closed	.29 miles southwest	Downgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 15	Location within Capture Zone	Estimated Threat to Supply Wells
35	Fond du Lac Auto Sales/Harley Guell 317 N Main Street Fond du Lac, WI 54979	FirstSearch	Four USTs (500-gal diesel fuel; 5,000-gal leaded gasoline; 500-gal waste/used motor oil; 5,000-gal leaded gasoline) closed/removed. A leaking UST closed.	Closed Closed	.29 miles southeast	Downgradient beyond 5 year TOT	Low
36	Charles Burnett 18 W Cotton Street Fond du Lac, WI 54979	FirstSearch	One UST (550-gal waste/used motor oil) in use.	Active	.30 miles southeast	Downgradient beyond 5 year TOT	Low
37	Mercury Marine/Brad Sabel 580 Water Street Fond du Lac, WI 54936/54979	FirstSearch	One UST (550-gal unleaded gasoline) closed/removed.	Closed	.31 miles northwest	Beyond 5 year TOT (sidegradient)	Low
38	Melvin Willie/West Park Marine 570 N Water Street Fond du Lac, WI 54979	FirstSearch	Two USTs (550-gal unleaded gasoline; 500-gal leaded gasoline) closed/removed. A leaking UST releasing gasoline was closed.	Closed Closed	.31 miles northwest	Beyond 5 year TOT (sidegradient)	Low
39	CSI 235 W Scott Street Fond du Lac, WI 54979	FirstSearch	Three USTs (12,000-gal unleaded gasoline; 10,000-gal unleaded gasoline; 10,000-gal unleaded gasoline) temporarily out of service.	Active	.32 miles northwest	Beyond 5 year TOT (sidegradient)	Low
40	La Esperanza Groceries/Donald Waldschmidt 306 N Main Street Fond du Lac, WI 54979	FirstSearch	Three USTs (4,000-gal leaded gasoline; 4,000-gal leaded gasoline; 4,000-gal diesel fuel) closed/filled with inert material. A leaking UST closed.	Closed Closed	.32 miles southeast	Downgradient beyond 5 year TOT	Low
41	John Meyst/Nafco International Inc. 206 W McWilliams Street Fond du Lac, WI 54979/54935	FirstSearch	One UST (10,000-gal diesel fuel) closed/removed. A leaking UST closed. CEG—conditionally exempt small quantity generator. Hazardous waste: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, 2-nitropropane, tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons, Ignitable waste, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol.	Closed Closed VGN	.33 miles southwest	Beyond 5 year TOT (sidegradient)	Low
42	Kiekhaefer Aeromarine Inc 600 N Water Street Fond du Lac, WI 54979	FirstSearch	One UST (1,000-gal unleaded gasoline) closed/removed.	Closed	.33 miles northwest	Beyond 5 year TOT (sidegradient)	Low
43	U Haul Co Inc 75071 290 N Main Street Fond du Lac, WI 54979	FirstSearch	Two USTs (10,000-gal unleaded gasoline; 550-gal waste/used motor oil) closed/removed. CEG—conditionally exempt small quantity generator. Hazardous waste: Ignitable waste and X001.	Closed VGN	.35 miles southeast	Downgradient beyond 5 year TOT	Low
44	Paul K Kottke/Vulcan 566 N Main Street Fond du Lac, WI 54935/54979	FirstSearch	Four USTs (18,000-gal waste/used motor oil; 1,500-gal leaded gasoline; 1,200-gal unleaded gasoline; 1,000-gal diesel fuel) closed/removed. Environmental repair—petroleum.	Closed Closed	.37 miles northeast	Upgradient beyond 5 year TOT	Low
45	Fond du Lac National Guard 225 McWilliams Street Fond du Lac, WI 54979	FirstSearch	CEG—conditionally exempt small quantity generators. Hazardous waste: Ignitable waste	VGN	.37 miles southwest	Beyond 5 year TOT (sidegradient)	Low
46	Family Auto Center/E G Jaber Auto Sales/John Hackney 271 N Main street Fond du Lac, WI 54979/54935	FirstSearch	Two USTs (500-gal fuel oil; 250-gal waste/used motor oil) closed/removed. CEG—conditionally exempt small quantity generator.	Closed VGN	.38 miles southeast	Downgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 15	Location within Capture Zone	Estimated Threat to Supply Wells
47	Wright Bros Paper Box Co Inc 21 W Arndt Street Fond du Lac, WI 54979/54935	FirstSearch	One UST (7,000-gal fuel oil) closed/removed.	Closed	.38 miles southeast	Downgradient beyond 5 year TOT	Low
48	Supple S Marsh Fond du Lac, WI	FirstSearch	Solid waste landfill	SWL	.38 miles northwest		Low
49	Ziebart Tidy car 212 W Cotton Street Fond du Lac, WI 54979	FirstSearch	Environmental repair: soil contamination.	Closed	.40 miles southwest	Beyond 5 year TOT (sidegradient)	Low
50	B and B Land Corp/Cotton St Property 226 W Cotton street Fond du Lac, WI 54935/54979	FirstSearch	Environmental repair: Substances released include: mercury, arsenic, volatile organic compounds, and metals. 1 UST (500-gal waste/used motor oil) closed/removed	Closed Closed	.41 miles southwest	Beyond 5 year TOT (sidegradient)	Low
51	City of Fond du Lac/Fond du Lac Wastewater 700 N Doty Street Fond du Lac, WI 54935/54979	FirstSearch	Three USTs (7,500-gal fuel oil; 10,000-gal fuel oil; 10,000-gal fuel oil) closed/removed. Environmental repair–Polynuclear aromatic hydrocarbons and volatile organic compounds. No action taken–Polynuclear aromatic hydrocarbons, volatile organic compounds, arsenic, and chromium.	Closed Open No Action	.41 miles northwest	Upgradient beyond 5 year TOT	Low
52	Edward L Wuest 164 W Scott Street Fond du Lac, WI 54979	FirstSearch	One UST 555-gal fuel oil) in use.	Active	.41 miles southeast	Beyond 5 year TOT (sidegradient)	Low
53	Fond du Lac Lutheran Home 244 N Macy Street Fond du Lac, WI 54979/54935	FirstSearch	One UST (1,500-gal fuel oil) closed/removed. A leaking UST was closed.	Closed Closed	.42 miles southeast	Downgradient beyond 5 year TOT	Low
54	Susan Steffen/Steffen Property 165 Bischoff Street Fond du Lac, WI 54979	FirstSearch	One UST (550-gal fuel oil) closed/removed. A leaking UST was closed.	Closed Closed	.43 miles southeast	Beyond 5 year TOT (sidegradient)	Low
55	Holy Family Church Parking 26B W Follett Street Fond du Lac, WI 54935	FirstSearch	Environmental repair: Metals, polynuclear aromatic hydrocarbons, and volatile organic compounds.	Closed	.44 miles southeast	Downgradient beyond 5 year TOT	Low
56	Larry's Auto Body 278 W Scott Street Fond du Lac, WI 54979	FirstSearch	CEG–conditionally exempt small quantity generator. Hazardous waste: Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, 2-nitropropane, ignitable waste, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol.	VGN	.44 miles southwest	Beyond 5 year TOT (sidegradient)	Low
57	Tracks 100 yards N of Shops Fond du Lac, WI 54481	FirstSearch	A spilled occurred from a broken site light on a locomotive.	Historic Spill	.45 miles southwest	Beyond 5 year TOT (sidegradient)	Low
58	Donald Waldschmidt 232 N Main Street Fond du Lac, WI 54979	FirstSearch	One UST (550-gal leaded gasoline) closed/removed.	Closed	.45 miles southeast	Downgradient beyond 5 year TOT	Low
59	South Yard Track 11 Fond du Lac, WI 54481	FirstSearch	Freight Train/Leak in car because of unknown causes. An unknown amount of sodium chlorate was released.	Railroad	.45 miles southwest	Beyond 5 year TOT (sidegradient)	Low
60	Murphy Oil USA/Murphy USA Marketing 229 N Main Street Fond du Lac, WI 54979	FirstSearch	11 USTs (1,000-gal fuel oil; 8,000-gal unleaded gasoline; 10,000-gal leaded gasoline; 550-gal waste/used motor oil; 300-gal unknown; 4,000-gal unleaded gasoline; 1,000-gal fuel oil; 10,000-gal unleaded gasoline; 2,000-gal unleaded gasoline; 8,000-gal unleaded gasoline; 8,000-gal unleaded gasoline) closed/removed.	Closed	.46 miles southeast	Downgradient beyond 5 year TOT	Low
61	Jeff Lallier 320 W Scott Street Fond du Lac, WI 54979	FirstSearch	One UST (500-gal fuel oil) closed/removed	Closed	.49 miles northwest	Beyond 5 year TOT (sidegradient)	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 15	Location within Capture Zone	Estimated Threat to Supply Wells
62	Sadoff Iron and Metal Co/Alliance Energy/Mark One Company 240 W Arndt Street Fond du Lac, WI 54935	FirstSearch	11 USTs (12,000-gal diesel fuel; 300-gal kerosene; 4,000-gal diesel fuel; 250-gal waste/used motor oil; 280-gal waste/used motor oil; 12,000-gal unleaded gasoline; 4,000-gal diesel fuel; 12,000-gal diesel fuel; 280-gal waste/used motor oil; 12,000-gal diesel fuel; 550-gal fuel oil): 5 in use, 6 closed/removed. Environmental repair: This activity is still open. CEG—conditionally exempt small quantity generators. Hazardous waste: NON-LISTED TOXIC WASTE Environmental repair: No information available. 33 gallons of oil, misc: was released from a transformer when a contractor hit pole. A leaking UST was closed. A leaking UST was discovered releasing methyl tertiary butyl ether. This activity is still open. A spill occurred when a drum fell off a pallet. 50 gallons of mineral oil was released. A spill occurred from an overflow while fueling. 50 gallons of diesel fuel was released.	Active Open VGN Closed Fixed Facility Closed Open Closed Historic Spill	.50 miles southwest	Beyond 5 year TOT (sidegradient)	Low
63	John Buser 321 W Scott Street Fond du Lac, WI 54979	FirstSearch	Two USTs (1,111-gal unknown; 500-gal unleaded gasoline): 1 closed/removed and 1 closed/filled with inert material	Closed	.50 miles southwest	Beyond 5 year TOT (sidegradient)	Low

WELL NO. 16

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 16	Location within Capture Zone	Estimated Threat to Supply Wells
1	Fond du Lac Bumper Exchange 1285 Morris Street Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generator.	VGN	.02 miles northeast	5 year TOT	Low
2	Bestt Rollr Inc. 1800 Morris Street Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generator. Hazardous waste: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, and trichlorofluoromethane.	VGN	.11 miles southeast	5 year TOT	Low
3	Hickory Street–122 Kohlman Road Ripon, WI 54971	FirstSearch	A spill occurred when a valve on a saddle tank ruptured.	Historic Spill	.13 miles southwest	Beyond 5 year TOT (sidegradient)	Low
4	Lee Beverage Co Inc 1015 S Morris Street Fond du Lac, WI 54935	FirstSearch	Two USTs (10,000-gal leaded gasoline; 1,000-gal leaded gasoline) closed/removed.	Closed	.16 miles northeast	Beyond 5 year TOT (sidegradient)	Low
5	Tom Braker Fond du Lac, WI	FirstSearch	Solid waste landfill ID: SW001212	SWL	.23 miles southeast	Upgradient beyond 5 year TOT	Moderate–within 1,200 feet of Unit Well
6	Combination Door Co 1000 Morris Street Fond du Lac, WI 54935	FirstSearch	Two USTs (6,000-gal chemical; 6,000-gal chemical): 1 in use, 1 closed/removed. CEG–conditionally exempt small quantity generator. Hazardous waste: Ignitable waste. A spill occurred when a tank over flowed. 200 gallons of a substance was released. Environmental repair–soil contamination.	Active VGN Closed Closed	.25 miles northeast	Beyond 5 year TOT (sidegradient)	Low
7	RB Royal Industries Inc. 1350 S Hickory Street Fond du Lac, WI 54935	FirstSearch	SQG–small quantity generator. Hazardous waste: Non listed toxic waste and lead.	SGN	.25 miles northwest	Beyond 5 year TOT (sidegradient)	Low
8	Combination Door Co. 1000 Morris Street Fond du Lac, WI 54935	FirstSearch	150 gallons of a wood preservative was released when a storage tank overflowed.	Fixed Facility	.25 miles northeast	Beyond 5 year TOT (sidegradient)	Low
9	HWY 41 SB and Hickory Road Hwy 41 SB Fond du Lac, WI 54935	FirstSearch	A spill occurred because of a traffic accident. 15 gallons of petroleum was released.	Historic Spill	.25 miles northwest	Downgradient beyond 5 year TOT	Low
10	Jaeger Sign Co 995 Morris Street Fond du Lac, WI 54935	FirstSearch	One UST (550-gal leaded gasoline) closed/removed. A leaking UST releasing petroleum was closed.	Closed Closed	.26 miles northeast	Beyond 5 year TOT (sidegradient)	Low
11	Carew Concrete and Supply 990 S Morris Street Fond du Lac, WI 54935	FirstSearch	Four USTs (10,000-gal diesel fuel; 2,000-gal leaded gasoline; 10,000-gal diesel fuel; 250-gal waste/used motor oil): 2 in use, 1 closed/removed, 1 closed/filled with inert material.	Active	.27 miles northeast	Beyond 5 year TOT (sidegradient)	Low
12	Charter Specialty Steel/Charter Manufacturing Co, Inc 1795 S Hickory Street Fond du Lac, WI 54937/54935	FirstSearch	One UST (550-gal diesel fuel) closed/removed. LGN–Large quantity generator. Hazardous waste: Corrosive waste and spent pickle liquor.	Closed LGN	.28 miles southwest	Beyond 5 year TOT (sidegradient)	Low
13	Fond du Lac Cnty HHW CLNSWP 1207B Hickory Street Fond du Lac, WI 54935	FirstSearch	LGN–Large quantity generator. Hazardous waste: Lead, corrosive waste, and ignitable waste.	LGN	.28 miles northwest	Downgradient beyond 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 16	Location within Capture Zone	Estimated Threat to Supply Wells
14	International Paper Co 9811 S Hickory Street Fond du Lac, WI 54935	FirstSearch	7 USTs (10,000-gal fuel oil; 15,000-gal fuel oil; 10,000-gal fuel oil; 15,000-gal fuel oil; 15,000-gal fuel oil; 15,000-gal diesel fuel; 15,000-gal diesel fuel; 15,000-gal diesel fuel): 1 in use, 2 closed/filled with inert material, and 4 closed/removed. A leaking UST releasing diesel fuel was closed. CEG–conditionally exempt small quantity generators. Hazardous waste: Ignitable waste.	Active Closed VGN	.32 miles northwest	Downgradient beyond 5 year TOT	Low
15	Town of Fond du Lac Fire Dept W5990 W Pioneer Road Fond du Lac, WI 54935	FirstSearch	Two USTs (500-gal diesel fuel; 500-gal unleaded gasoline) closed/removed.	Closed	.36 miles northeast	Beyond 5 year TOT (sidegradient)	Low
16	Cole Oil Inc/Fondy Fuel Mart 1305 S Main Street Fond du Lac, WI 54935	FirstSearch	10 USTs (1,000-gal fuel oil; 500-gal waste/used motor oil; 8,000-gal unleaded gasoline; 1,000-gal fuel oil; 8,000-gal unleaded gasoline; 8,000-gal diesel fuel; 1,000-gal diesel; 12,000-gal unleaded gasoline; 8,000-gal unleaded gasoline; 6,000-gal diesel): 3 in use, 7 closed/removed. A leaking UST was closed.	Active Closed	.37 miles southeast	Upgradient beyond 5 year TOT	Low
17	Morris and Pioneer Road Fond du Lac, WI 54935	FirstSearch	A spill occurred because of a broken valve.	Historic Spill	.37 miles northeast	Beyond 5 year TOT (sidegradient)	Low
18	Badger Liquor Co Inc 850 S Morris Street Fond du Lac, WI 54935	FirstSearch	7 USTs (1,000-gal leaded gasoline; 12,000-gal diesel; 1,500-gal leaded gasoline; 10,000-gal unleaded gasoline; 10,000-gal diesel; 12,000-gal diesel; 8,000-gal unleaded gasoline): 2 in use, 5 closed/removed. A leaking UST releasing gasoline and diesel fuel was closed.	Active Closed	.39 miles northwest	Beyond 5 year TOT (sidegradient)	Low
19	Scott Holmes 283 W Pioneer Road Fond du Lac, WI 54935	FirstSearch	One UST (250-gal waste/used motor oil) in use.	Active	.39 miles northwest	Beyond 5 year TOT (sidegradient)	Low
20	James P Kelly 1016 S Main Street Fond du Lac, WI 54935	FirstSearch	One UST (500-gal leaded gasoline) closed/removed.	Closed	.39 miles northeast	Beyond 5 year TOT (sidegradient)	Low
21	Jet Stream Car Wash Inc 50 W Pioneer Road Fond du Lac, WI 54935	FirstSearch	Two USTs (650-gal waste/used motor oil; 650-gal waste/used motor oil) in use.	Active	.44 miles northeast	Beyond 5 year TOT (sidegradient)	Low
22	Mercury Marine PLTS 3,4,10,12,15,17 W6250 Pioneer Road Fond du Lac, WI 54935	FirstSearch	LQG–Large quantity generator. No significant non-compliance.	CA	.45 miles northeast	Beyond 5 year TOT (sidegradient)	Low
23	Parkside Motors 62 N Rolling Meadows Drive Fond du Lac, WI 54935	FirstSearch	Two USTs (250-gal waste/used motor oil; 250-gal waste/used motor oil): 1 in use, 1 closed/removed.	Active	.47 miles southwest	Beyond 5 year TOT (sidegradient)	Low
24	Le Mense Enterprises LLC 329 W Pioneer Road Fond du Lac, WI 54935	FirstSearch	Three USTs (10,000-gal unleaded gasoline; 10,000-gal diesel; 12,000-gal unleaded gasoline) in use.	Active	.47 miles northwest	Downgradient beyond 5 year TOT	Low
25	HWY 41 S Off Ramp to HWY 175 Fond du Lac, WI 54935	FirstSearch	A spill occurred because of a traffic accident. An unknown amount of diesel fuel was released.	Historic Spill	.48 miles southeast	Upgradient beyond 5 year TOT	Low
26	HWY 41 BND HWY 175 Overpass/unk HWY 41 S Off Ramp to HWY 175 Fond du Lac, WI 54935	FirstSearch	A spill occurred when 5 gallons of hydraulic oil fell off a vehicle into the highway.	Closed	.48 miles southeast	Upgradient beyond 5 year TOT	Low
27	Mulligans Mobil Mart/Fredon Holdings LLC 976 S Main Street Fond du Lac, WI 54935	FirstSearch	Four USTs (10,000-gal unleaded gasoline; 10,000-gal diesel; 8,000-gal unleaded gasoline; 8,000-gal unleaded gasoline) in use. A spill occurred when a vehicle struck a roadway obstruction putting a hole in the gas tank. 15 gallons of gasoline was released.	Active Closed	.50 miles northeast	Beyond 5 year TOT (sidegradient)	Low

WELL NO. 17

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 17	Location within Capture Zone	Estimated Threat to Supply Wells
1	Leo J Nett Fond du Lac, WI 54935	FirstSearch	One UST (100-gal leaded gasoline) abandoned without product.	Abandoned	.23 miles northwest	Downgradient beyond 5 year TOT	Low
2	Kenneth Meyn 3403 S Hickory Road Fond du Lac, WI 54935	FirstSearch	One UST (500-gal diesel fuel) in use.	Active	.48 miles northwest	Downgradient beyond 5 year TOT	Low

WELL NO. 18

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 18	Location within Capture Zone	Estimated Threat to Supply Wells
1	Birds Eye Food Inc 240 Larsen Drive Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generator. Hazardous waste: Non-listed toxic waste, 1,2-Dichloroethane, 1,1 Dichloroethylene.	VGN	.15 miles northeast	Beyond 5 year TOT (sidegradient)	Low
2	Veolia Es Solid Waste Midwest LLC/Onyx Waste Services Midwest/Superior Special Services Inc 100 W Larson Drive Fond du Lac, WI 54935	FirstSearch	One UST (500-gal waste/used motor oil) closed/removed. Environmental repair–Polynuclear aromatic hydrocarbons and volatile organic compounds. SQG–small quantity generator. Hazardous waste: Cadmium, mercury, non-listed toxic waste, lead, and silver.	Closed Closed SGN	.28 miles northwest	Downgradient beyond 5 year TOT	Low
3	Muthig Industries Inc 33 E Larsen Drive Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generator.	VGN	.30 miles northwest	Beyond 5 year TOT (sidegradient)	Low
4	Charter Specialty Steel/Charter Manufacturing Co Inc 1795 S Hickory Street Fond du Lac, WI 54937	FirstSearch	One UST (550-gal diesel fuel) in use. LQG–large quantity generators. Hazardous waste: Corrosive waste and spent pickle liquor.	Active LGN	.44 miles northeast	Beyond 5 year TOT (sidegradient)	Low
5	Parkside Motors 62 N Rolling Meadows Drive Fond du Lac, WI 54937	FirstSearch	Two USTs (250-gal waste/used motor oil; 250-gal waste/used motor oil): 1 in use, 1 closed/removed.	Active	.46 miles northeast	Beyond 5 year TOT (sidegradient)	Low

WELL NO. 19

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 19	Location within Capture Zone	Estimated Threat to Supply Wells
1	Zunker Contractors Inc/E and G Repair LLC/David L Zunker N5756 HWY 151 S Fond du Lac, WI 54937	FirstSearch	5 USTs (1,111-gal diesel; 1,000-gal waste/used motor oil; 2,000-gal waste/used motor oil; 2,000-gal empty; 1,111-gal empty): 4 closed/removed, 1 in use. A leaking UST closed. A leaking UST closed. A spill occurred when 3 catch basins were flushed in building.	Active Closed Closed Closed	.19 miles northeast	Beyond 5 year TOT (sidegradient)	Low
2	Agribank N5776 HWY 151 Fond du Lac, WI 54935	FirstSearch	One UST (500-gal leaded gasoline) closed/removed.	Closed	.24 miles northeast	Beyond 5 year TOT (sidegradient)	Low
3	Phillips Station N5789 STH 151 S Fond du Lac, WI 54935	FirstSearch	6 USTs (12,000-gal unleaded gasoline; 6,000-gal unleaded gasoline; 10,000-gal unleaded gasoline; 6,000-gal unleaded gasoline; 6,000-gal unleaded gasoline; 6,000-gal unleaded gasoline): 3 in use, 3 closed/removed. A leaking UST removed. Within 1000 feet of private well.	Active Closed	.28 miles northeast	Beyond 5 year TOT (sidegradient)	Low
4	Fondy Sports Complex N5820 HWY 151 S Fond du Lac, WI 54935	FirstSearch Well CD	One UST (300-gal leaded gasoline) closed/removed. Private Well	Closed Active	.37 miles northeast	Beyond 5 year TOT (sidegradient)	Low
5	Quality Truck Care Ctr Inc W 6753 Commerce Court Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generator. Hazardous waste: Tetrachloroethylene, trichlorethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons.	VGN	.46 miles southwest	Beyond 5 year TOT (sidegradient)	Low
6	Basic American Metal Products 336 Trowbridge Road Fond du Lac, WI 54935	FirstSearch	CEG–conditionally exempt small quantity generator. Hazardous waste: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol.	VGN	.46 miles southeast	Downgradient beyond 5 year TOT	Low

WELL NO. 20

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 20	Location within Capture Zone	Estimated Threat to Supply Wells
1	Quality Truck Care Ctr Inc Richard Peterson W6753 Commerce Ct Fond du Lac, WI 54937	FirstSearch	CEG–Conditionally exempt small quantity generator. Hazardous waste: Tetrachloroethylene, trichlorethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons.	VGN	.24 miles northwest	Beyond 5 year TOT (sidegradient)	Low
2	N5342 River Road Fond du Lac, WI	FirstSearch	A spill occurred from a pre-heater in a natural gas system boiled over. 200 gallons of a substance was released.	Closed	.26 miles southeast	Beyond 5 year TOT (sidegradient)	Low
3	Alliant Energy–WP and E N 5356 River Road Fond du Lac, WI 54935	FirstSearch	Two USTs (750,000-gal fuel oil; 750,000-gal diesel) in use. A spill occurred from an overflow of a storage tank. 500 gallons of a substance was released.	Active Historic Spill	.29 miles southeast	Beyond 5 year TOT (sidegradient)	Low
4	Valley Welding Inc N5603 Hwy 151 South Fond du Lac, WI 54937	FirstSearch	SQG–small quantity generator. Hazardous waste: Ignitable waste, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane.	SGN	.34 miles northwest	Beyond 5 year TOT (sidegradient)	Low
5	Service Motor Company Inc. N5560 Hwy 151 Fond du Lac, WI 54935	FirstSearch	5 USTs (1,000-gal unleaded gasoline; 5,000-gal diesel; 1,000-gal unleaded gasoline; 1,000-gal diesel; 2,000-gal diesel): 3 in use, 2 closed/removed	Active	.50 miles northwest	Upgradient beyond 5 year TOT	Low

WELL NO. 21

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 21	Location within Capture Zone	Estimated Threat to Supply Wells
1	FDL City Well 21 610 N Rolling Meadows Drive Fond du Lac, WI 54935	FirstSearch	A spill occurred when a pump that missed hydrofluosilicic acid with Fond du Lac city well water vibrated off shelf. Disconnected hoses allowed 20 gallons of acid to be pumped into floor drain in the well house.	Closed	.02 miles northeast	5 year TOT	Low
2	Dean Perleberg 815 Rolling Meadows Drive Fond du Lac, WI 54935	FirstSearch	One UST (250-gal waste/used motor oil) closed/removed.	Closed	.08 miles northeast	5 year TOT	Low
3	Northwest Supply 1011 W Scott Street Fond du Lac, WI 54935	FirstSearch	Leaking UST closed. A leaking UST (550-gal leaded gasoline) closed/removed.	Closed Closed	.08 miles southeast	Downgradient beyond 5 year TOT	Low
4	Interior Systems, Inc. Tom Holzman 525 Rolling Meadows Drive Fond du Lac, WI 54935	FirstSearch	CEG–Conditionally exempt small quantity generator. Hazardous waste: 2-Propanone or Acetone	VGN	.18 miles southeast	Downgradient beyond 5 year TOT	Low
5	Target Store 0808 Jennifer R Rymanowski 485 N Rolling Meadows Drive Fond du Lac, WI 54937	FirstSearch	CEG–Conditionally exempt small quantity generator. Corrosive and ignitable waste.	VGN	.21 miles southeast	Downgradient beyond 5 year TOT	Low
6	Agromatic Div. of Klinzing Af Co Inc N6989 Rolling Meadows Drive Fond du Lac, WI 54935	FirstSearch	CEG–Conditionally exempt small quantity generator. Hazardous Waste: Lead, NON-LISTED TOXIC WASTE, chromium, cadmium.	VGN	.21 miles northeast	Upgradient beyond the 5 year TOT	Low
7	Hwy 41 and Scott Street, NE corner Fond du Lac, WI 54935	FirstSearch	A spill occurred when a transformer tipped over during transport.	Historic Spill	.23 miles southeast	Downgradient beyond 5 year TOT	Low
8	Scott Street–1/8 mile east of USH 41 Fond du Lac, WI 54935	FirstSearch	A spill occurred during draining of tanks which caused the storm sewer to backup.	Historic Spill	.24 miles southeast	Downgradient beyond 5 year TOT	Low
9	Car X/All Car Automotive 470 N Rolling Meadows Drive Fond du Lac, WI 54937	FirstSearch	UST (560-gal waste/used motor oil) in use. GSQ–Generator small quantity requirements. Hazardous waste: mercury, cadmium, lead, chromium	Active SGN	.25 miles southeast	Downgradient beyond 5 year TOT	Low
10	Elsinger and Streaan LLC 175 N Pioneer Road North Fond du Lac, WI 54937	FirstSearch	Three USTs (1,000-gal diesel; 6,000-gal leaded gasoline; 6,000-gal leaded gasoline) closed/removed.	Closed	.29 miles northeast	Beyond 5 year TOT (sidegradient)	Low
11	W Scott Street–E of Frontage Road Fond du Lac, WI	FirstSearch	A spill occurred when the wrong valve was turned on. 250 G of petroleum was released.	Historic Spill	.29 miles southeast	Downgradient beyond 5 year TOT	Low
12	Wisconsin Industrial Truck Co. Inc./Dean Enterprises N6993 Rolling Meadows Fond du Lac, WI 54935	FirstSearch Well CD	CEG–Conditionally exempt small quantity generator. Private Industrial use well.	VGN Active	.30 miles northwest	5 year TOT	Moderate
13	Elsinger and Streaan LLC 185 N Pioneer Drive North Fond du Lac, WI 54937	FirstSearch	One UST (10,000-gal diesel) closed/removed. One leaking underground storage tank discovered.	Closed Open	.31 miles northeast	Beyond 5 year TOT (sidegradient)	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 21	Location within Capture Zone	Estimated Threat to Supply Wells
14	Bergstrom Corporation/Bergstrom Automotive Group 416 Rolling Meadows Drive Fond du Lac, WI 54935	FirstSearch	One UST (1,000-gal waste/used motor oil) in use.	Active	.35 miles southeast	Downgradient beyond the 5 year TOT	Low
15	Alliant Energy 883 W Scott Street Fond du Lac, WI 54935	FirstSearch	A spill occurred while transferring new oil from tanker and it overflowed. 40 gallons of petroleum spilled into soil.	Closed	.37 miles southeast	Downgradient beyond the 5 year TOT	Low
16	Fond du Lac Chevrolet-Caddillac, Inc. Steve S Volz 390 N Rolling Meadows Drive Fond du Lac, WI 54937	FirstSearch	CEG–Conditionally exempt small quantity generator. Hazardous Waste: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol, Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol, Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons. One UST (600-gal waste/used motor oil) in use.	VGN Active	.38 miles southeast	Downgradient beyond the 5 year TOT	Low
17	Eldon Odekirik 1102 Rolling Meadows Drive Fond du Lac, WI 54935	FirstSearch	One UST (300-gal leaded gasoline) closed/removed.	Closed	.38 miles northeast	5 year TOT	Low
18	Mack Sales of Fond du Lac 355 N Pioneer Road Fond du Lac, WI 54937	FirstSearch	CEG–Conditionally exempt small quantity generator.	VGN	.38 miles southeast	Downgradient beyond the 5 year TOT	Low
19	Walmart Stores, Inc 377 N Rolling Meadows Drive Fond du Lac, WI 54935	FirstSearch	Five USTs (400-gal “16”; 800-gal waste/used motor oil; 400-gal “16”; 110-gal chemical; 240-gal waste/used motor oil) in use.	Active	.40 miles southeast	Downgradient beyond the 5 year TOT	Low
20	Walmart Store 1643 377 N Rolling Meadows Drive Fond du Lac, WI 54935	FirstSearch	CEG–Conditionally exempt small quantity generator. Hazardous Waste: Ignitable and corrosive waste, lead, silver.	VGN	.40 miles southeast	Downgradient beyond the 5 year TOT	Low
21	Alliant Energy 883 W Scott Street Fond du Lac, WI 54935	FirstSearch	A spill occurred and 50 G of petroleum was released into the soil. A spill occurred when a valve on a circuit breaker broke during loading. 137 gallons of an unknown substance was released. Six USTs (550-gal waste/used motor oil; 12,000-gal unleaded gasoline; 12,000-gal diesel; 12,000-gal diesel; 300-gal waste/used motor oil; 10,000-gal leaded gasoline): 1 in use, 5 closed/removed. SQG –small quantity generator.	Historic Spill Closed Active VGN	.43 miles southeast	Downgradient beyond the 5 year TOT	Low
22	Joe Freund Distributing 207 N Pioneer North Fond du Lac, WI	FirstSearch	Two USTs (1,000-gal leaded gasoline; 500-gal leaded gasoline) closed/removed. A leaking UST was closed.	Closed Closed	.43 miles northeast	Beyond 5 year TOT (sidegradient)	Low
23	Penske Truck Leasing Co LP 209 N Pioneer Road North Fond du Lac, WI 54935	FirstSearch	Five USTs (500-gal waste/used motor oil; 550-gal waste/used motor oil; 1,500-gal other; 10,000-gal diesel; 1,500-gal “16”): 3 in use and 2 closed/removed. CEG–Conditionally exempt small quantity generator. Hazardous waste: X001, ignitable waste.	Active VGN	.44 miles northeast	Beyond 5 year TOT (sidegradient)	Low
24	Fedco Electronics Inc. Stephen Victor Jr. 1363 Capital Drive Fond du Lac, WI 54937	FirstSearch	SQG–small quantity generator: Generates 100- 1000 kg/month of hazardous waste. Hazardous waste: Cadmium and lead.	SGN	.44 miles southwest	Beyond 5 year TOT (sidegradient)	Low
25	Alliant Energy–WP and E 903 Scott Street Fond du Lac, WI 54937	FirstSearch	1 UST (500-gal waste/used motor oil) closed/removed.	Closed	.48 miles southeast	Downgradient beyond the 5 year TOT	Low

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 21	Location within Capture Zone	Estimated Threat to Supply Wells
26	Menards Inc. Brian Hilderman 1200 Rickmeyer Drive Fond du Lac, WI 54937	FirstSearch	1 UST (300-gal diesel) in use.	Active	.48 miles southwest	Beyond 5 year TOT (sidegradient)	Low
27	Alliant Energy 903 W Scott Street Fond du Lac, WI	FirstSearch	A spill occurred from draining rear differentials on a floor hoist. 20 gallons of substance was released.	Closed	.49 miles southeast	Downgradient beyond the 5 year TOT	Low

WELL NO. 23

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 23	Location within Capture Zone	Estimated Threat to Supply Wells
1	Alliant Energy–WP and L N5356 River Road Fond du Lac, WI 54935	FirstSearch	Two USTs (750,000-gal fuel oil; 750,000-gal diesel) in use. A spill occurred from an overflow of storage tank. 500 G of unknown substance released. A spill occurred from a faulty oil water separator.	Active Historic Spill Closed	.47 miles northeast	Downgradient beyond 5 year TOT	Low
2	N5342 River Road Fond du Lac, WI 54935	FirstSearch	A spill occurred when a pre-heater in natural gas system boiled over. 200 G of a substance released. No action taken.	Closed	.50 miles northeast	Downgradient beyond 5 year TOT	Low

WELL NO. 24

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 24	Location within Capture Zone	Estimated Threat to Supply Wells
1	Dan Shibley 3704 River Road Fond du Lac, WI 54935	FirstSearch	One UST (250-gal leaded gasoline) abandoned without product.	Abandoned	.12 miles southwest	Upgradient beyond 5 year TOT	Low

WELL NO. 25

Map Site No.	Owner/Location	Database or Reference Source	Existing, Potential, or Former Contaminant Sources	Reported Status	Approximate Distance to Unit Well 25	Location within Capture Zone	Estimated Threat to Supply Wells
1	Chester Kottke 802 River Road Fond du Lac, WI 54935	FirstSearch	Two USTs (300-gal leaded gasoline; 300-gal diesel) abandoned without product.	Abandoned	.12 miles northwest	Downgradient beyond 5 year TOT	Low
2	Delbert Haack 810 River Road Fond du Lac, WI 54935	FirstSearch	One UST (1,000-gal diesel) in use.	Active	.21 miles northwest	Downgradient beyond 5 year TOT	Low
3	Ervin W Kraft N4578 River Road Fond du Lac, WI 54935	FirstSearch	Two USTs (500-gal leaded gasoline; 300-gal leaded gasoline): 1 in use and 1 closed/removed	Active	.46 miles northwest	Downgradient beyond 5 year TOT	Low

identified within the WHPAs (5-year TOT capture zone and 1,200-foot radius) are also shown on Figures 3.04-1 through 3.04-3.

On the basis of available information, the following are descriptions of known existing or potential contaminant sources within the WHPAs:

A. UST and LUST

1. North Well Field

- a. 7 UST or LUST sites within 1,200 feet of Well No. 10.
- b. 13 UST or LUST sites within 1,200 feet of Well No. 11.
- c. 22 UST or LUST sites within 1,200 feet of Well No. 12.
- d. 7 UST or LUST sites within 1,200 feet of Well No. 13.
- e. 4 UST or LUST sites within 1,200 feet of Well No. 14.
- f. 17 UST or LUST sites within 1,200 feet of Well No. 15.
- g. 2 UST or LUST sites within 1,200 feet of Well No. 21.

- b. Some of the tanks near the wells are “active/in-use” and others have been removed. Refer to Table 4.01-1 for additional details on the UST and LUST sites and their estimated threat to specific unit wells.

2. South Well Field

- a. 1 UST or LUST site within 1,200 feet of Well No. 16.
- b. 1 UST or LUST site within 1,200 feet of Well No. 17.
- c. No UST or LUST sites within 1,200 feet of unit Well No. 18.
- d. 1 UST or LUST site within 1,200 feet of Well No. 19.
- e. No UST or LUST sites within 1,200 feet of Well No. 20.
- f. No UST or LUST sites within 1,200 feet of Well No. 23.
- g. 1 UST or LUST site within 1,200 feet of Well No. 24.
- h. 2 UST or LUST sites within 1,200 feet of Well No. 25.

- b. Some of the tanks near the wells are “active/in-use” and others have been removed. Refer to Table 4.01-1 for additional details on the UST and LUST sites and their estimated threat to specific unit wells.

B. State Other

Sites listed as “Other” in the FirstSearch report are Wisconsin DNR, Emergency Repair Program (ERP) Sites. These sites are non-LUST investigations and cleanups and could be dry cleaners, spills, historic fill sites, or other types of releases to the environment.

1. North Well Field

Well No. 11 has three Other sites within 1,200 feet. Sadoff Iron and Metal at 240 West Arndt Street is 0.10 miles southeast and is an open/active site because of an oil spill at the property.

Sadoff Iron is also a LUST site. The Cotton Street property at 226 West Cotton Street is 0.15 miles east and is a “closed” site. Lead contamination was detected in the soil and the site was closed with a zoning restriction. The Ziebart Tidy Car site at 212 Cotton Street is 0.17 miles east and is a “closed” site.

Well No. 12 has six other sites within 1,200 feet. The Well No. 12 site itself is listed as an Other site because of petroleum contamination that was found in geotechnical borings advanced at the site. Investigation and cleanup are ongoing. The Rueping Leather site at 93 Doty Street is listed as being 0.12 miles to the west. The Rueping site is also identified as a LUST site and a CERCLIS site but has been closed with deed restrictions and groundwater use restrictions. This was redeveloped in recent years and waste remains at the site, which is capped. EP Rentals is a closed solvent investigation site located 0.12 miles to the northeast. The site was closed with a groundwater Preventive Action Limit (PAL) exemption and a geographical information system (GIS) registry for soil and groundwater. Georgetown Cleaners is an open/active dry cleaner site 0.13 miles northeast with an ongoing site investigation. Approval for redevelopment of the site was acquired. Manowske Welding is an open/active site 0.15 miles northeast. Soil excavation and disposal were completed at the site and approval has been acquired for redevelopment, but the site investigation is ongoing. Holy Family Church is an open/active site 0.22 miles northeast. Soil excavation and disposal were completed at this site and approval has been acquired for building on a historic fill site, but investigation is ongoing.

Well No. 13 has two Other sites within 1,200 feet. The former Vulcan facility is located 0.04 miles east and was closed after site investigation and cleanup with a deed restriction, a PAL exemption, GIS registry for soil and groundwater, and contaminated soils were capped on the site. The City of Fond du Lac wastewater treatment plant is an active/open site that has had extensive excavation and disposal of contaminated materials and capping of contaminated soils that remain on-site. The treatment plant is 0.13 miles northwest of Well No. 13 and will be closed with a deed restriction and GIS registry for soil and groundwater also.

No “Other” sites were identified within 1,200 feet of Well Nos. 10, 14, 15, or 21.

2. South Well Field

No sites listed as “Other” were identified within 1,200 feet of the South Well Field.

C. Golf Courses

1. North Well Field

There are no golf courses within 1,200 feet of the North Well Field.

2. South Well Field

Rolling Meadows golf course is located east of (adjacent to) Well No. 19.

D. Cemeteries

1. North Well Field

There are no cemeteries within 1,200 feet of the North Well Field.

2. South Well Field

There are no cemeteries within 1,200 feet of the South Well Field.

E. Ponds

1. North Well Field

There are no ponds within 1,200 feet of the North Well Field.

2. South Well Field

There are no ponds within 1,200 feet of the South Well Field.

F. Solid Waste Sites

1. North Well Field

There are no solid waste sites within 1,200 feet of the North Well Field.

2. South Well Field

A solid waste landfill site is located 0.23 miles southeast of Well No. 16. The property is owned by Tom Braker and is identified by ID number SW001212 from the FirstSearch report. No other information is readily available from the FirstSearch report or from the DNR Web site or accessible DNR databases for this site. There are no solid waste sites within 1,200 feet of Well Nos. 17, 18, 19, 20, 23, 24, and 25.

G. Bulk Salt Storage and Chemical Storage

1. North Well Field

The only site within the City of Fond du Lac where bulk salt is stored is the City Garage at 530 Doty Street as verified in a phone conversation with Steve Kees from the City of Fond du Lac. Two wells are within approximately 1,200 feet of this facility, Well No. 13 located 0.17 miles northeast and Well No. 15 located 0.24 miles south of the City Garage. Well Nos. 10, 11, 12, 14, and 21 have no bulk salt storage within 1,200 feet.

2. South Well Field

There are no bulk storage sites within 1,200 feet of Well Nos. 16, 17, 18, 19, 20, 23, 24, and 25. A site found during reconnaissance of the area is the Orkin business located at 1821 Morris Street, directly across the street from Well No. 16. In a phone interview with Mark Woolhether, an employee at Orkin, all chemicals are stored within a store room with a concrete floor. Chemicals are shipped to the site, stored temporarily, and then are taken to work sites for applications. Chemicals are ordered based on supply so the equivalent of chemicals at the site at any given time is not more than about 30 gallons. Empty containers are disposed of properly by Waste Management. No spills have been reported to the DNR and Mark Woolhether indicates no reportable spills have occurred at the facility that he is aware of.

H. Storm and Sanitary Sewers

Distances were taken from system maps of the sanitary and storm sewers provided by the City. Distances are approximate.

1. North Well Field

The nearest sanitary and storm sewers to Well No. 10 are 45 feet south, made of 15-inch vitrified clay pipe (VCP), and 45 feet south, made of 12-inch reinforced concrete pipe (RCP), respectively. The nearest sanitary and storm sewers to Well No. 11 are 315 feet southwest, made of 30-inch RCP, and 330 feet south, made of 18-inch RCP, respectively. The nearest sanitary and storm sewers to Well No. 12 are 50 feet north, made of 15-inch VCP, and 220 feet east, made of 10-inch VCP, respectively. The nearest sanitary and storm sewers to Well No. 13 are 240 feet south, made of 8-inch VCP, and 515 feet west, made of 18-inch RCP, respectively. The nearest sanitary and storm sewers to Well No. 14 are 100 feet north, made of 15-inch RCP, and 100 feet north, made of 48-inch RCP, respectively. The nearest sanitary and storm sewers to Well No. 15 are 15 feet south, made of 30-inch RCP, and 45 feet south, made of 15-inch RCP, respectively. The nearest sanitary and storm sewers to Well No. 21 are 220 feet east, made of 8-inch PVC, and 730 feet southeast, made of 12-inch RCP, respectively.

2. South Well Field

The nearest sanitary and storm sewers to Well No. 16 are 240 feet northeast, made of 10-inch Transite, and 630 feet northwest, made of 30-inch RCP, respectively. The nearest sanitary and storm sewers to Well No. 17 are 2,140 feet north, made of 8-inch PVC, and none within a one-half-mile radius, respectively. The nearest sanitary and storm sewers to Well No. 18 are 250 feet west, made of 8-inch PVC, and none within a one-half-mile radius, respectively. The nearest sanitary and storm sewers to Well No. 19 are 2,650 feet southeast, made of 8-inch PVC, and none within a one-half-mile radius, respectively. There are no sanitary or storm sewers within a one-half-mile radius for Well Nos. 20, 23, 24, and 25.

I. Dry Cleaning Business

1. North Well Field

Georgetown Cleaners North is located at 178 and 180 North Main Street, 0.12 miles northeast of Well No. 12. There are no dry cleaning businesses within 1,200 feet of Well Nos. 10, 11, 13, 14, 15, and 21.

2. South Well Field

There are no dry cleaning businesses within 1,200 feet of the South Field wells.

J. Private Waste Disposal Systems and Private Wells

1. North Well Field

There are no private waste disposal systems or private wells within 1,200 feet of the North Well Field wells. Lists of private waste disposal systems and private wells (within 0.5 miles of the unit wells) are provided in Tables 5.01-1 and 5.01-2.

2. South Well Field

Well No. 17 has two private waste disposal systems within 1,200 feet. The first is located at N5072 Hickory Road, approximately 0.05 miles west, and a second is located at N4995 Hickory Road, approximately 0.23 miles southwest. Well No. 19 has two private waste disposal systems within 1,200 feet. The first is located at W6682 Brown Road, and the second is located at W6697 Brown Road, approximately 0.18 miles west. Well No. 25 has two private waste disposal systems within 1,200 feet. The first is at N4427 River Road, approximately 0.09 miles north, and the second is located at N4445 River Road, approximately 0.13 miles north.

There are five private wells located within 1,200 feet of Well Nos. 20, 24, and 25. Well No. 20 has two private wells within 1,200 feet. The first is located at N5394 River Road, approximately 0.04 miles north, and a second is located at N5303 River Road, approximately 0.20 miles south. Well No. 24 has one private well located within 1,200 feet at N4850 River Road, approximately 0.14 miles north. Well No. 25 has two private wells within 1,200 feet. The first is located at N4414 River Road, approximately 0.05 miles northwest, and the second is located at N4445 River Road, approximately 0.13 miles north. Lists of private waste disposal systems and private wells are provided in Tables 5.01-2 and 5.01-3.

K. Solid Waste Storage Site

1. North Well Field

There are no solid waste storage sites within 1,200 feet of the wells.

2. South Well Field

There are no solid waste storage sites within 1,200 feet of the wells.

L. Agricultural Fields

1. North Well Field

There are agricultural fields west of Well No. 21, within 1,200 feet.

2. South Well Field

There are agricultural fields within 1,200 feet of Well Nos. 23, 24, and 25.

The separation distances between new unit wells and potential contaminant sources identified in Wisconsin Administrative Code NR 811.16 are summarized in Table 4.01-2. The required separation distances from existing unit wells and potential contaminant sources, identified in the code, are currently not being met at several of the unit wells. There are no required separation distances between potential contaminant sources and existing wells.

Potential Contamination Source	Minimum Separation Distance
Storm Sewer	50 feet
Sanitary Sewer	200 feet
Sanitary Lift Station	200 feet
Single Family Residential Fuel Oil Tank	200 feet
Septic Tank Receiving Less than 8,000 gpd	400 feet
Cemetery	400 feet
Stormwater Drainage Pond	400 feet
Gasoline or Fuel Oil Tank Approved by Comm 10.10	600 feet
Land Application of Municipal, Commercial, or Industrial Waste	1,000 feet
Commercial or Municipal Wastewater Lagoons or Storage Structures	1,000 feet
Manure Stacks or Storage Structures	1,000 feet
Septic Tanks or Soil Absorptive Units Receiving Greater than 8,000 gpd	1,000 feet
Solid Waste Storage, Transportation, Transfer, Incineration, Air Curtain Destructor, Processing, Wood Burning, or One-Time Disposal or Small Demolition Facility	1,200 feet
Sanitary Landfill	1,200 feet
Coal Storage Area	1,200 feet
Salt or Deicing Material Storage	1,200 feet
Gasoline or Fuel Oil Storage Tanks not Approved by Comm 10.10	1,200 feet
Bulk Fuel Storage Facilities	1,200 feet
Pesticide or Fertilizer Handling or Storage Facilities	1,200 feet

**Table 4.01-2 Minimum Separation Requirements for New Wells**

## 4.02 LAND USES AND WELLHEAD PROTECTION PLANNING

Existing land uses in the vicinity of the existing unit wells is not compatible in some locations with WHP planning. Existing land uses such as dry cleaning facilities and petroleum storage sites are not compatible uses. Generally speaking, it is not desirable to have commercial, manufacturing, or industrial districts located in WHPAs. Manufacturing is the main land use near Well Nos. 11, 16, 17, and 18. Commercial and recreational are the main land uses near Well No. 13. Residential and commercial are the main land uses near Well No. 15, and residential and shopping are the main land uses near Well No. 12. Residential is the main land use near Well Nos. 10 and 14, and agricultural transition is the land use near Well Nos. 19 and 21. Zoning near Well Nos. 20, 23, 24, and 25 is exclusively agricultural.

New or expanded land uses summarized in Table 4.01-2 should be restricted in the vicinity of the existing unit wells, within the respective minimum separation distances shown. Additionally, the DNR recommends that land uses summarized in Table 1 in Appendix I be prohibited from WHPA Zones A and B. Where any of the uses listed in Table 1 currently exist within Zones A and B, owners may be allowed to upgrade the facilities to facilitate or enhance groundwater protection.

**SECTION 5**  
**MANAGEMENT STRATEGIES**

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## 5.01 ALTERNATIVE MANAGEMENT STRATEGIES

Table 5.01-1 summarizes key elements of a management plan developed for the City of Fond du Lac. Activities were identified for resource management within the delineated WHPAs.

The various activities can be grouped into five principal categories as follows:

1. Existing programs
2. Land use controls
3. Intergovernmental cooperation
4. Monitoring
5. Public education and awareness

Because most landowners within the WHPAs rely on groundwater resources for water supply, and a few maintain private water supply wells, emphasis should be placed on management activities that will provide a mutual benefit to the City of Fond du Lac residents and other property owners located within the WHPAs.

The Fond du Lac County Land and Water Resource Management Plan 2008-2012, which was adopted in August 2007, should be followed. The proposed management plan is coordinated with it.

### A. Category 1—Existing Programs

1. Private On-site Wastewater Treatment Ordinance (Chapter 58)

Fond du Lac County Code Enforcement Department enforces the Chapter 58 Article II ordinance that protects natural resources to prevent human health hazards with proper construction, maintenance, and disposal of septage and sewage for private on-site wastewater treatment systems. Data for private waste disposal systems can be obtained by contacting the Code Enforcement Department.

All owners of private waste disposal systems are required every one to three years, depending on the size of the tank, to have their septic tanks pumped. The Code enforcement office charges the owners of private waste disposal systems a \$15 filing fee at the time the maintenance/servicing is performed. Maintenance can only be performed on a system that holds a valid sanitary permit.

A list of private waste disposal systems near Fond du Lac unit wells, identified during a field visit and compiled for this WHPP, is provided in Table 5.01-2. For a full list of private waste disposal system owners, the Water Utility will need to contact the Fond du Lac Code Enforcement Department.

TABLE 5.01-1

SUMMARY OF MANAGEMENT STRATEGIES

Program Category	Activity	Description	Responsible Unit(s) of Government	Implementation Schedule	
				Date	Action Item
1. Existing Programs	a. Private On-site Wastewater Treatment Ordinance	<ul style="list-style-type: none"> <li>▪ Enforce County's existing private on-site wastewater treatment system ordinance.</li> <li>▪ Include all property/septic system owners located in WHPA in notification database.</li> <li>▪ Conduct Public Education.</li> <li>▪ Maintenance/servicing contract currently required for system owners on record.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fond du Lac County Code Enforcement Department</li> <li>▪ Fond du Lac Water Utility</li> </ul>	<ol style="list-style-type: none"> <li>1. <b>Continuous/ongoing</b></li> <li>2. <b>Summer 2009</b></li> <li>3. <b>Winter 2009/2010</b></li> <li>4. <b>Every 1 to 3 years</b></li> </ol>	<ol style="list-style-type: none"> <li>1. <b>Fond du Lac County Code Enforcement Department</b> enforces existing ordinance.</li> <li>2. <b>Fond du Lac Water Utility</b> requests that the Fond du Lac Code Enforcement Department provide the names and addresses of owners of private waste disposal systems located in the WHPAs.</li> <li>3. <b>Fond du Lac Water Utility</b> sends a mailing to owners of private waste disposal systems located within the WHPAs. The mailing should address sewage system maintenance and the types of waste that should not be disposed of in a private waste disposal system.</li> <li>4. <b>Fond du Lac County Code Enforcement Department</b> ensures that system maintenance and pumping are performed.</li> </ol>
	b. Well Abandonment Cost Share Programs	<ul style="list-style-type: none"> <li>▪ Review a list of private wells in WHPAs provided in this report.</li> <li>▪ Include all property/private well owners located in WHPA in notification database.</li> <li>▪ Conduct public education.</li> <li>▪ Update well inventory in WHPAs once every 5 years.</li> <li>▪ Enforce well abandonment and construction codes (Administrative Codes in NR 811 and 812).</li> <li>▪ Review new well construction relative to WHPAs.</li> <li>▪ Familiarize with WI Admin. Codes, Chapters NR 141, 811, and 812.</li> </ul>	<ul style="list-style-type: none"> <li>▪ City of Fond du Lac Plumbing Inspector</li> <li>▪ Town of Fond du Lac Plumbing Inspector</li> <li>▪ Town of Byron Plumbing Inspector</li> <li>▪ Wisconsin DNR</li> <li>▪ Fond du Lac County Land and Water Conservation Department</li> <li>▪ City of Fond du Lac</li> <li>▪ Fond du Lac County</li> <li>▪ Fond du Lac Water Utility</li> </ul>	<ol style="list-style-type: none"> <li>1. <b>2009, then annually</b></li> <li>2. <b>2009</b></li> <li>3. <b>Winter 2009/2010</b></li> <li>4. <b>Winter 2009/2010, then every five years</b></li> <li>5. <b>Ongoing</b></li> <li>6. <b>2009</b></li> <li>7. <b>As needed</b></li> </ol>	<ol style="list-style-type: none"> <li>1. <b>Fond du Lac Water Utility</b> will request that the Plumbing Inspectors in the City of Fond du Lac, Town of Fond du Lac, and Town of Byron review the list of private wells located in WHPAs provided in this report.</li> <li>2. <b>Fond du Lac Water Utility</b> determines the location of other private water supply wells that may be located within the WHPAs that are not recorded in the WHPP database.</li> <li>3. <b>Fond du Lac Water Utility</b> sends private well owners within the WHPA, DNR pamphlets about well upkeep and proper abandonment procedures in the event the owners abandon their existing wells.</li> <li>4. <b>Fond du Lac Water Utility</b> updates the private well inventory for wells located in the WHPA.</li> <li>5. <b>City of Fond du Lac and Fond du Lac County</b> enforces existing well abandonment statute, to ensure that all private wells are permitted or properly abandoned if unused.</li> <li>6. <b>Fond du Lac Water Utility</b> requests that Fond du Lac County consider proximity and depth of proposed private wells relative to Unit Wells prior to issuing permits for construction of new private water supply wells.</li> <li>7. <b>Fond du Lac Water Utility</b> directs residents to the DNR private well code (Chapter NR 812) or to the Wisconsin DNR private well section (920-492-5800) when questions arise about private water supply wells.</li> </ol>

Program Category	Activity	Description	Responsible Unit(s) of Government	Implementation Schedule	
				Date	Action Item
1. Existing Programs (cont.)	c. City Hazardous Waste Drop-Off Site	<ul style="list-style-type: none"> <li>Enforce existing rules and proper use.</li> </ul>	<ul style="list-style-type: none"> <li>Fond du Lac Water Utility</li> </ul>	1. 2009, then annually	1. <b>Fond du Lac Water Utility</b> will send information with utility bills about the waste drop-off site to encourage use of the site and proper waste disposal practices.
	d. Spill Notification and Awareness of Remedial Investigating and Cleanup Actions	<ul style="list-style-type: none"> <li>Monitor and keep informed of potential contamination sources in the WHPA and recharge areas.</li> <li>Work with DNR to achieve investigation and cleanup of known contamination sources.</li> </ul>	<ul style="list-style-type: none"> <li>Wisconsin DNR</li> <li>Fond du Lac County Emergency Management</li> <li>City of Fond du Lac Fire Department</li> <li>Fond du Lac Water Utility</li> </ul>	1. 2009  2. Ongoing	1. <b>Fond du Lac Water Utility</b> requests that DNR and the Fond du Lac County Emergency Management Office inform the City about future events (spills, leaks, investigations) that occur in the WHPAs or in upgradient recharge areas.  2. <b>Fond du Lac Water Utility</b> monitors the status of existing and potential contamination sources in the WHPAs and upgradient recharge areas, investigations regarding nature and extent of releases, and the status of cleanup activities.
	e. Livestock Utilization Ordinance	<ul style="list-style-type: none"> <li>Enforce existing rules.</li> </ul>	<ul style="list-style-type: none"> <li>Fond du Lac County Land &amp; Water Conservation Department</li> <li>Fond du Lac Water Utility</li> </ul>	1. 2009	1. <b>Fond du Lac Water Utility</b> will provide a copy of the WHPP and recharge area maps to the Fond du Lac County Land and Water Conservation Department and request that the Manure Storage Ordinance be enforced and considered in conjunction with Unit WHPAs and recharge areas.
	f. Land Application of Sludge and Septage	<ul style="list-style-type: none"> <li>Fond du Lac Regional Treatment Facility considers the WHPAs when identifying areas for septage application.</li> <li>DNR considers the WHPAs when identifying areas for septage application.</li> </ul>	<ul style="list-style-type: none"> <li>Fond du Lac Regional Treatment Facilities</li> <li>DNR Watershed Management</li> <li>Fond du Lac Water Utility</li> </ul>	1. 2009  2. March 2009	1. <b>Fond du Lac Water Utility</b> provides a copy of the WHPAs and recharge area maps to the Fond du Lac Regional Treatment Facilities and request that Unit Well recharge areas be considered when approving or identifying potential new permitted sites for sludge and septage spreading.  2. <b>Fond du Lac Water Utility</b> provides a copy of the WHPA and recharge area maps to the DNR Watershed Management office (608-267-7694 (central office) and request that Unit Well recharge areas be considered when approving or identifying potential new permitted sites for sludge and septage areas.
2. Land Use Controls	a. Zoning	<ul style="list-style-type: none"> <li>Develop and adopt a wellhead protection ordinance.</li> <li>Cooperate with surrounding communities to enforce the WHP ordinance.</li> </ul>	<ul style="list-style-type: none"> <li>City of Fond du Lac</li> <li>Fond du Lac County</li> <li>Village of North Fond du Lac</li> <li>Village of Oakfield</li> <li>Town of Byron</li> <li>Town of Fond du Lac</li> <li>Town of Empire</li> <li>Town of Taycheedah</li> </ul>	1. 2009—Ongoing  2. 2009	1. <b>City of Fond du Lac</b> develops and adopts a WHP ordinance during 2009.  2. <b>City of Fond du Lac</b> provides Fond du Lac County, the Villages of North Fond du Lac and Oakfield, and Townships of Byron, Empire, Fond du Lac, and Taycheedah with a copy of the WHP ordinance.

Program Category	Activity	Description	Responsible Unit(s) of Government	Implementation Schedule	
				Date	Action Item
3. Intergovernmental Cooperation	a. Land Use Planning and Site Plan Review	<ul style="list-style-type: none"> <li>▪ Cooperate in land use planning to protect groundwater resources and WHPAs.</li> <li>▪ Ensure development complies with separation distances between the well and potential contamination sources as required by WI Admin. Code, Chapter NR 811.16.</li> </ul>	<ul style="list-style-type: none"> <li>▪ City of Fond du Lac</li> <li>▪ Fond du Lac County</li> <li>▪ Village of Oakfield</li> <li>▪ Village of North Fond du Lac</li> <li>▪ Town of Fond du Lac</li> <li>▪ Town of Byron</li> <li>▪ Town of Empire</li> <li>▪ Town of Taycheedah</li> <li>▪ City of Fond du Lac Planning and Development Department</li> </ul>	1. 2009	1. <b>City of Fond du Lac</b> provides Fond du Lac County, the Villages of North Fond du Lac and Oakfield, and Townships of Byron, Empire, Fond du Lac, and Taycheedah with a copy of: <ul style="list-style-type: none"> <li>a. The WHPP including maps showing WHPA and recharge areas.</li> <li>b. A summary of separation distances required between municipal water supply wells and potential contamination sources (Wisconsin Administrative Code, Chapter NR 811.16(4)(d)).</li> <li>c. A list of potential contamination sources that can threaten groundwater.</li> <li>d. A list of high risk land uses that should be prohibited from WHPAs.</li> </ul>
				2. Ongoing	2. <b>City of Fond du Lac Planning and Development Department</b> will attempt to manage development so that it complies with separation distances required between municipal water supply wells and potential contamination sources.
4. Monitoring	a. Contaminant Source Inventory (CSI)	<ul style="list-style-type: none"> <li>▪ Update CSI in WHPAs.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fond du Lac Water Utility</li> </ul>	1. 2013, then every 5 years (2018)	1. <b>Fond du Lac Water Utility</b> updates the CSI by conducting a windshield survey of properties located in the WHPA and by performing state and federal database checks.
	b. Water Quality Monitoring	<ul style="list-style-type: none"> <li>▪ Conduct sampling of supply wells.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fond du Lac Water Utility</li> </ul>	1. As required–Ongoing	1. <b>Fond du Lac Water Utility</b> performs water quality monitoring as required by DNR and as otherwise needed.
5. Public Education and Awareness	a. Availability of WHPP	<ul style="list-style-type: none"> <li>▪ Provide copies of WHPP for viewing by general public.</li> <li>▪ Provide WHPP to Water Utility Office, Fond du Lac Public Library, City Hall, Fond du Lac County, the Villages of North Fond du Lac and Oakfield, and Townships of Byron, Empire, Fond du Lac, and Taycheedah.</li> <li>▪ Describe the availability of WHPP with utility bills.</li> </ul>	<ul style="list-style-type: none"> <li>▪ City of Fond du Lac</li> <li>▪ Fond du Lac Water Utility</li> </ul>	1. 2009	1. <b>City of Fond du Lac</b> provides copies of the WHPP for review by the public at the Water Utility Office, Fond du Lac Public Library, and City Hall.
				2. 2009	2. <b>City of Fond du Lac</b> provides copies of the WHPP to Fond du Lac County, the Villages of North Fond du Lac and Oakfield, and Townships of Byron, Empire, Fond du Lac, and Taycheedah.
				3. 2009	3. <b>Fond du Lac Water Utility</b> communicates the availability of the plan through informational materials that will be sent to the public with utility bills.
	b. Public Informational Meetings	<ul style="list-style-type: none"> <li>▪ Participate in a City Council Meeting.</li> <li>▪ Provide a brochure or information sheet of WHPAs.</li> </ul>	<ul style="list-style-type: none"> <li>▪ City of Fond du Lac</li> </ul>	1. 2009	1. <b>City of Fond du Lac</b> conducts a public informational meeting as part of a City Council meeting during the review phase of the WHPP or when the new WHP ordinance is adopted.
				2. 2009	2. <b>City of Fond du Lac</b> provides WHPA maps for public review and an information sheet or brochure available for public use.
	c. News Releases	<ul style="list-style-type: none"> <li>▪ Issue early in program implementation, and reinforce annually, as necessary.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fond du Lac Water Utility</li> </ul>	1. 2009, then annually	1. <b>Fond du Lac Water Utility</b> will consider a news release to the local newspaper(s) to inform the public of the WHP measures.

Program Category	Activity	Description	Responsible Unit(s) of Government	Implementation Schedule	
				Date	Action Item
5. Public Education and Awareness (cont.)	d. Informational Materials Distributed To Residents in WHPAs	<ul style="list-style-type: none"> <li>▪ Materials describing use of the City drop site, proper use of lawn fertilizers and pesticides, and wellhead protection planning.</li> <li>▪ Other materials or fact sheets will be available on the City Web site.</li> </ul>	<ul style="list-style-type: none"> <li>▪ City of Fond du Lac</li> <li>▪ Fond du Lac Water Utility</li> <li>▪ Wisconsin DNR</li> <li>▪ University Extension Office</li> </ul>	1. 2009, then ongoing	<p>1. <b>Fond du Lac Water Utility</b> prepares informational materials and/or obtains from the Wisconsin DNR Bureau of Drinking Water and Groundwater, Fond du Lac County or UW Extension. Materials will be made available to the public with utility bills. Materials may include brochures and pamphlets related to:</p> <ul style="list-style-type: none"> <li>a. Information about hazardous waste collection/disposal at the City of Fond du Lac drop site.</li> <li>b. Materials describing the proper use and application of lawn fertilizers and pesticides.</li> <li>c. Wellhead protection planning.</li> <li>d. Annual Consumer Confidence Report (CCR) containing information about WHP planning.</li> </ul>
				2. 2009	<p>2. <b>Fond du Lac Water Utility</b> adds information to Web site (<a href="http://www.ci.fond-du-lac.wi.us">http://www.ci.fond-du-lac.wi.us</a>) about WHP planning activities and best management procedures.</p>
	e. School Programs	<ul style="list-style-type: none"> <li>▪ Inform students of water supply facility tours.</li> <li>▪ Prepare a fact sheet to be distributed in the schools.</li> </ul>	<ul style="list-style-type: none"> <li>▪ City of Fond du Lac</li> <li>▪ University Extension Office</li> <li>▪ Fond du Lac Public Schools</li> <li>▪ Fond du Lac Water Utility</li> </ul>	1. 2009	<p>1. <b>Fond du Lac Water Utility</b> informs schools about the availability of tours at water supply facilities. During tours, students will be exposed to important concepts related to groundwater and WHP.</p>
				2. 2009	<p>2. <b>Fond du Lac Water Utility</b> prepares a water/groundwater fact sheet for school education programs.</p>

Map Site No.	Location	Closest Unit Well	Approximate Distance to Unit Well
1	N5072 Hickory Road Fond du Lac, WI 54935	Well 17	.05 miles west
2	N4995 Hickory Road Fond du Lac, WI 54935	Well 17	.23 miles southwest
3	W6682 Brown Road Fond du Lac, WI 54935	Well 19	.18 miles west
4	W6697 Brown Road Fond du Lac, WI 54935	Well 19	.18 miles west
5	N4694 River Road Fond du Lac, WI 54935	Well 24	.42 miles south
6	N4427 River Road Fond du Lac, WI 54935	Well 25	.09 miles north
7	N4445 River Road Fond du Lac, WI 54935	Well 25	.13 miles north
8	N4587 River Road Fond du Lac, WI 54935	Well 25	.47 miles north
9	N5230 River Road Fond du Lac, WI 54935	Well 20 Well 23	.40 miles south .24 miles north

**Table 5.01-2 Private Waste Disposal Inventory Summary**

These tasks will be completed in conjunction with this management activity:

- a. Fond du Lac Water Utility will request that the Fond du Lac Code Enforcement Department provide them the names and addresses of owners of private waste disposal systems located within the WHPAs.
- b. Fond du Lac Water Utility will send a mailing to owners of private sewage disposal systems located within the WHPAs discussing sewage system maintenance and the types of waste that should not be disposed of in private waste disposal systems.

2. Well Abandonment Cost-Share Programs

The Wisconsin State Statute/Code NR 812.26 governs proper well and drilling abandonment. A copy of NR812.26 can be found in Appendix J. To help enforce this statute, the Fond du Lac County Land and Water Conservation Department has worked with landowners to properly abandon old or unused wells since 2002. This department receives annual grants from the DNR and Wisconsin Department of Agriculture Trade and Consumer Protection that are used to offer cost-sharing for various conservation projects throughout the county. One such project is the well abandonment cost-share program where 70 percent of costs up to a maximum of \$1,000 is provided to have a licensed well driller or pump installer properly abandon old or unused wells. The landowner is required to get an estimate by a licensed well driller and fill out an application for cost-sharing. When the agreement is signed, the landowner can complete the project. The landowner will then pay the contractor in full and the county will reimburse the landowner up to \$1,000.

The DNR has a similar cost-sharing program started in late 2007 that offers up to 75 percent cost-sharing for the abandonment of old or unused wells.

The county encourages landowners to apply for cost-sharing through the DNR first because the cost-sharing offers 75 percent reimbursement compared to 70 percent from the county. However, the DNR program has a family income cap that makes many landowners ineligible. The county cost share program has no income caps.

The County Land and Water Conservation Department provides brochures that explain the importance of well abandonment, well contamination, and where to get more information for the County and DNR cost-sharing well abandonment programs. The brochures can be found in Appendix K.

The Wisconsin DNR has regulatory authority for proper construction and abandonment of unused wells (Wisconsin Administrative Code, Chapters NR 811 and 812).

A list of private wells located near Fond du Lac wells was compiled for this WHPP and is provided in Table 5.01-3. The Water Utility will send the list to the plumbing inspectors for the City of Fond du Lac, Town of Fond du Lac, and Town of Byron and ask for their review and concurrence and add private wells to the list/update the list as needed. The Water Utility will then send out a mailing to private well owners within the WHPAs. With assistance from the plumbing inspectors, the Water Utility will update the list every 5 years.

The following tasks will be completed in conjunction with this management activity:

- a. Fond du Lac Water Utility will request that the plumbing inspectors in the City of Fond du Lac, Town of Fond du Lac, and Town of Byron review the list of private wells located in WHPAs provided in this report.
- b. Fond du Lac Water Utility will attempt to locate other private water supply wells that may be within the WHPAs and that are not recorded in the WHPP database.
- c. Fond du Lac Water Utility will send private well owners within the WHPAs, DNR pamphlets about well upkeep, and proper abandonment procedures in the event the owners abandon their existing wells.
- d. Every five years, Fond du Lac Water Utility will update the private well inventory for wells located in the WHPAs and will consider sending an informational mailing to well owners.
- e. The City of Fond du Lac and Fond du Lac County will help enforce the existing state statues to ensure that private wells are permitted or properly abandoned if unused.

**TABLE 5.01-3**

**PRIVATE WELL INVENTORY SUMMARY**

Map Site No.	Owner/Location	Closest Unit Well	Wisconsin Unique Well Number	Approximate Distance to Unit Well
1	Fondy Sports Complex W5820 Hwy 151 Fond du Lac, WI 54935	Well 19	GO185	.33 miles northeast
2	Eric Kaufman W6727 Brown Road Fond du Lac, WI 54937	Well 19	OO272	.35 miles west
3	Wayne Kaufman W6727 Brown Road Fond du Lac, WI 54935	Well 19	KX760	.35 miles west
4	Touch the Earth N5878 State Hwy 151 Fond du Lac, WI 54937	Well 19	LK377	.45 miles northeast
5	Wisconsin Power and Light N5394 River Road Fond du Lac, WI	Well 20	FW943	.04 miles north
6	Jason and Laura Schneider N5506 River Road Fond du Lac, WI 54935	Well 20	TP944	.31 miles north
7	Ken Balda Property W6753 Commerce Ct Fond du Lac, WI 54935	Well 20	AV798	.41 miles northwest
8	Badger Metals W6750 Commerce Ct Fond du Lac, WI 54935	Well 20	MX053	.41 miles northwest
9	A. F. Klinzing Co. N6989 Rolling Meadow Drive Fond du Lac, WI 54935	Well 21	BO904	.42 miles northwest
10	Dean Enterprises N6993 Rolling Meadow Road Fond du Lac, WI 54935	Well 21	RP417	.42 miles northwest
11	Jerome Neenan W6783 Hwy 000 Fond du Lac, WI 54935	Well 21	CW968	.50 miles southwest
12	Timothy Murphy N5303 River Road Fond du Lac, WI 54935	Well 20 Well 23	TQ792	.20 miles south .44 miles north
13	Bill Steinbrenner N4982 River Road Fond du Lac, WI 54935	Well 23 Well 24	MU024	.37 miles south .46 miles north
14	Gerald and Charles Schmitz N4850 River Road Fond du Lac, WI 54935	Well 24	FV508	.14 miles north
15	Ivan Reetz N4414 River Road Fond du Lac, WI 54935	Well 25	OQ030	.05 miles northwest
16	Tim Kottke N4445 River Road Fond du Lac, WI 54935	Well 25	EP645	.13 miles north
17	Ervin Kraft N4578 River Road Fond du Lac, WI 54935	Well 25	IX439	.47 miles north

- f. Fond du Lac Water Utility will direct residents to the DNR private well code (Chapter NR 812) or to the Wisconsin DNR private well section (920-492-5800) when questions arise about private water supply wells.
3. City Drop-Off Site

The City drop-off site is located on the north side of the City Garage on Doty Street. This site is used by city residents for dropping off grass clippings, leaves, garden waste, small twigs, and hedge trimmings. The drop-off site accepts fluorescent lights, used oil, oil-based paint, gasoline, and anti-freeze in quantities of no more than 5 gallons. The site also collects bulky waste including freon items, microwaves, and computer monitors for a fee paid in advance. Hazardous items are hauled by Veolia Environmental Services to a transfer point on the south side of the City. From there the waste is properly disposed of at the Waste Management–Valley Trail facility in Berlin, Wisconsin.

The following task will be completed in conjunction with this management activity:

- a. Fond du Lac Water Utility will send information about the drop-off site to property owners with their utility bills. This will to encourage use of the site and proper waste disposal practices.
4. Spill Notification and Awareness of Remedial Investigation and Cleanup Actions

All active and closed spill sites or remediation sites within 0.5 miles of the Fond du Lac wells can be referenced in Table 4.01-1. Sites located within the WHPAs of the Fond du Lac Unit Wells are shown on Figures 3.04-1 through 3.04-3.

The Fond du Lac County Land and Water Conservation Department provides conservation planning assistance and technical service in the area of soil and water conservation to landowners, land users, and decision makers in Fond du Lac. Working with federal, state, and local agencies and departments, the Land and Water Conservation Department offers programs designed to protect and enhance the natural resources of Fond du Lac County.

Fond du Lac County Emergency Management is also in place to establish and coordinate a full scope of emergency management and Homeland Security functions to effectively maintain a healthy, safe and secure place to live and work. The purpose of Fond du Lac County Emergency Management is to direct public safety activities countywide in an effort to minimize the affects of natural and manmade disasters in Fond du Lac County. To serve as a resource and support agencies for all levels of government, volunteer/service groups, and industry.

The following tasks will be completed in conjunction with this management activity:

- a. Fond du Lac Water Utility will request that the DNR, Fond du Lac County Emergency Management, and Fond du Lac County Land and Water Conservation Department inform the City about future events (spills, leaks, investigations) that occur within the WHPAs.

- b. Fond du Lac Water Utility will continue to monitor the status of existing and potential contamination sources in the WHPAs and upgradient recharge areas, investigations regarding nature and extent of releases, and the status of cleanup activities.

5. Livestock Waste Utilization Ordinance (Chapter 14)

In general the City of Fond du Lac does not have animal waste product spreading because there is very little agricultural land within the city limits. However, Well Nos. 23, 24, and 25 are outside of the City boundary in the Towns of Fond du Lac and Byron respectively. During a visual inspection it was noted that these wells are located in agricultural areas.

The county of Fond du Lac is very committed to maintaining clean and safe groundwater in agricultural areas. The Fond du Lac County Land and Water Conservation Department administers the county's Livestock Waste Utilization Ordinance Chapter 14 also called the Manure Storage Ordinance. The purpose of the ordinance is to assure the safe handling and spreading of manure as well as to regulate location, construction, operation, and maintenance of all new livestock manure facilities.

Part of the application for livestock containment structure is to develop a Nutrient Management Plan. The Department has an agronomist that works with fertilizer producers to develop Nutrient Management Plans. These plans help producers apply manure in a more economic and environmentally friendly way. The producer utilizes farm nutrients to reduce overall cost and protects surface and groundwater.

The following tasks will be completed in conjunction with this management activity:

- a. Fond du Lac Water Utility will provide a copy of the WHPP to the Fond du Lac County Land and Water Conservation Department and request that the Manure Storage Ordinance be enforced and considered in conjunction with WHPAs.

6. Land Application of Septage and Sludge

The Wisconsin DNR issues permits for septage and sludge disposal sites in Wisconsin. Information collected indicates that haulers do not have permitted septage and sludge disposal sites within the City of Fond du Lac, but permitted sites likely exist in areas upgradient from the wells and possibly in the vicinity of Well Nos. 23, 24, and 25, located outside the city limits. On the basis of available data, it appears that septage and sludge are not currently being applied to parcels located within 1 mile of any of wells.

The following tasks will be completed in conjunction with this management activity:

- a. Fond du Lac Water Utility will provide a copy of the WHPA maps to the Fond du Lac Regional Treatment Facilities and request that wells be considered when approving or identifying potential new permitted sites for sludge and septage spreading.

- b. Fond du Lac Water Utility will provide a copy of the WHPA maps to the DNR Watershed Management office 608-267-7694 (central office) and request that separation distance from wells be considered when approving or identifying potential new permitted sites for sludge and septage spreading.

B. Category 2—Land Use Controls

1. Existing Zoning

The City of Fond du Lac, Fond du Lac County, and other area municipalities have land subdivision and zoning ordinances to control and direct development. Land subdivision and zoning ordinances are used to safeguard floodplains, wetlands, shorelands, highway access, air quality, surface water, and other concerns. Existing zoning regulations will be enforced to help protect municipal well recharge areas and groundwater.

The following tasks will be completed in conjunction with this management activity:

- a. The City of Fond du Lac will develop and adopt a WHP ordinance during 2008. An example Wellhead Protection Ordinance is provided as Appendix L.
- b. The City of Fond du Lac will provide Fond du Lac County, the Villages of North Fond du Lac and Oakfield, and the Townships of Byron, Empire, Fond du Lac, and Taycheedah with a copy of the Fond du Lac WHP ordinance after it is approved by the City.

C. Category 3—Intergovernmental Cooperation

1. Land Use Planning and Site Plan Review

Land use planning is performed to control and direct development. Land use planning and site plan review should also be used to help protect WHPAs.

The following tasks will be completed in conjunction with this management activity:

- a. The City of Fond du Lac will provide Fond du Lac County, the Villages of North Fond du Lac and Oakfield, and the Townships of Byron, Empire, Fond du Lac, and Taycheedah with a copy of:
  - (1) The WHPP including maps showing the WHPAs.
  - (2) A summary of separation distances required between new municipal water supply wells and potential contamination sources (Wisconsin Administrative Code, Chapter NR 811.16(4)(d)).
  - (3) A list of potential contamination sources that can threaten groundwater.
  - (4) A list of new high risk land uses that should be prohibited from WHPAs.

- b. City of Fond du Lac Planning Division will attempt to manage development so that it complies with separation distances required between municipal water supply wells and potential contamination sources.

D. Category 4–Monitoring

1. CSI Maintenance

As part of this study, a CSI was conducted within the delineated WHPAs. It will be important to maintain current knowledge of land use, potential contamination sources, and development within the WHPAs. The following task will be completed in conjunction with this management activity:

- Fond du Lac Water Utility will update the CSI by conducting a windshield survey of properties located in the WHPAs and by performing state and federal database checks once every five years.

2. Water Quality Monitoring

Currently, each of the City’s supply wells are tested to DNR state standards. The following task will be completed in conjunction with this management activity:

- Fond du Lac Water Utility will perform water quality monitoring as required by the DNR and as otherwise needed.

E. Category 5–Public Education and Awareness

1. The City of Fond du Lac will implement an education program to inform area residents of the need to protect the public water supply. The public education program will consist of the following:

- a. Make copies of the WHPP available to the public
- b. Hold a public informational meeting
- c. Utilize news releases
- d. Make available and distribute informational materials
- e. Promote land use and contaminant source awareness
- f. Involve school programs

2. Availability of WHPP

The following tasks will be completed in conjunction with this management activity:

- a. The City of Fond du Lac will provide copies of the WHPP for review by the public at the Water Utility Office, City of Fond du Lac Public Library, and City Hall.

- b. The City of Fond du Lac will provide copies of the WHPP to Fond du Lac County, the Villages of North Fond du Lac and Oakfield, and the Townships of Byron, Empire, Fond du Lac, and Taycheedah.
- c. Fond du Lac Water Utility will notify the public of the availability of the plan through informational materials that will be sent with utility bills.

### 3. Public Informational Meeting

The purpose of a public informational meeting will be to inform residents of the WHPP and provide an opportunity for public education and awareness.

The following tasks will be completed in conjunction with this management activity:

- a. The City of Fond du Lac will conduct a public informational meeting as part of a City committee meeting during the review phase of the WHPP or when the new WHP ordinance is adopted.
- b. The City of Fond du Lac will make WHPA maps available for public review and an information sheet or brochure available to the public.

### 4. News Releases

The purposes of news releases are to elevate public awareness, educate the public on the need for WHP, and provide examples of prudent WHP measures. Initially, a news release will inform the public that a WHPP has been developed for Fond du Lac wells and will indicate the locations where the WHPP is available for review. The Fond du Lac Water Utility will consider using a newspaper article to inform the public of the WHP measures.

### 5. Informational Materials Distributed to Residents in WHPAs

Informational materials will be prepared and distributed to residents to educate and inform property owners about various topics such as WHP planning activities and best waste management procedures.

The following tasks will be completed in conjunction with this management activity:

- a. Fond du Lac Water Utility will prepare informational materials and/or obtain materials from the Wisconsin DNR Bureau of Drinking Water and Groundwater, Fond du Lac County, or the UW Extension. Materials will be made available to the public with the WHPP and will be distributed to the public with utility bills. Materials may include brochures and pamphlets related to:
  - (1) Information about hazardous waste disposal at the City of Fond du Lac drop site.

- (2) Materials describing the proper use and application of lawn fertilizers and pesticides.
  - (3) Information on WHP planning.
  - (4) Annual Consumer Confidence Report (CCR) containing information about WHP planning.
- b. Fond du Lac Water Utility will add information to its Web site homepage (<http://www.ci.fond-du-lac.wi.us>) about WHP planning activities and best waste management procedures.

#### 6. School Programs

The City of Fond du Lac will participate in school education programs. The following tasks will be completed in conjunction with this management activity:

- a. Fond du Lac Water Utility will inform schools about the availability of tours at water supply facilities. During tours, students will be exposed to important concepts related to groundwater and WHP.
- b. Fond du Lac Water Utility may distribute a water/groundwater fact sheet for school education programs.

### 5.02 WATER CONSERVATION PROGRAM

The Fond du Lac Water Utility has an existing water conservation program that includes addressing the needs for water accountability in the distribution system and voluntary water conservation by the public.

From 2004 to 2006, the Utility maintained water accountability in the distribution system of 79 percent. The Utility maintains this level of water accountability by testing and replacing meters throughout the system and performing proper maintenance of the distribution system.

The Utility sent out a water conservation pamphlet in the summer of 2007 to all City of Fond du Lac residents. This same pamphlet was also featured in the City newspaper. The City also encourages water conservation by discouraging lawn watering on hot summer days only on a voluntary basis.

The City of Fond du Lac will prepare a letter to all customers explaining the importance of water conservation. The letter will indicate that the pamphlet *15 Ways You Can Save Water* can be found on the DNR Web site and will be made available at City Hall for pickup.

The Utility also has the authority to impose water use restrictions when necessary.

### 5.03 CONTINGENCY PLAN

The Utility has formulated a contingency plan for providing water if one or more of the City's water supply wells would be contaminated or removed from service. The plan primarily relies on the firm capacity of the system without any given well or wells to meet the maximum day supply needs of the City of Fond du Lac.

The City's water system was designed to supply the maximum water demand for an indefinite period with the two largest wells out of service. As a result, if any supply well of the water system is out of service, the reliable water supply capacity is more than sufficient to meet demands.

Additionally, the City's wells and well fields are widely spaced and generally have different recharge areas, thereby making them less vulnerable to potential localized contamination. Many of the wells have an on-site generator that will provide power in case of localized or widespread power failure.

The contingency plan also relies on communication with first responders and a plan of action in the event of a water system emergency. Fond du Lac County Communication and Emergency Management Office will be requested to notify the Water Utility if there is an occurrence in the vicinity of a Fond du Lac WHPA.

A list of emergency contact numbers was compiled to provide Utility staff immediate access to the appropriate agencies in the event of an emergency. This list is provided in Table 5.03-1.

### 5.04 SUMMARY OF MANAGEMENT PLAN

A management plan was formulated to help protect each WHPA from existing and potential future sources of contamination. As listed in Table 5.01-1, major elements of the management plan and includes an implementation schedule for management plan action items.

Public education is an important element in the management plan, particularly because the WHPAs of Wells include property in the City of Fond du Lac, Town of Fond du Lac, and Town of Byron. Educational activities provide a mutual benefit to the City of Fond du Lac and other property owners located within the WHPA.

Local governmental agencies (City, Township, and County) recognize the need for planning to protect WHPAs. Intergovernmental cooperation is an important part of the plan as agencies work together to consider the needs for WHP during planning and permitting processes. The City will provide Fond du Lac County, the Villages of North Fond du Lac and Oakfield, and Townships of Byron, Empire, Fond du Lac, and Taycheedah with a copy of the WHPP and maps showing WHPAs, the separation distances required between municipal water supply wells and potential contamination sources (Wisconsin Administrative Code, Chapter NR 811.16(4)(d)), and a list of potential contamination sources that can threaten groundwater. The City will encourage County, Village, and Town Boards to help protect the WHPAs and upgradient recharge areas when evaluating proposed development.

The City of Fond du Lac will develop a WHP ordinance. The ordinance will reference each well's WHPA map. The ordinance will prohibit incompatible development with the establishment of an overlay district for the 5-year TOT ZOC (Zone A) and the 1,200-foot radius ZOC (Zone B). The WHP ordinance will help ensure that future potential contamination sources are not located in the WHPA.

**TABLE 5.03-1**

**EMERGENCY CONTACT NUMBERS**

	<b>Name</b>	<b>Phone No.</b>
Water Utility Emergency Service	Police, then Kathryn Scharf	911 Office: 920-322-3682
Water Operations Manager	Kathryn Scharf	Office: 920-322-3682
Director of Public Works	Mark O. Lentz, P.E.	Office: 920-322-3472
City Engineer/Deputy Director of Public Works	Richard E. Goding, P.E.	Office: 920-322-3473
Police Department	Emergency Dispatch Non-Emergency Dispatch	911 920-322-3700
Fire Department	Emergency Dispatch Administration	911 920-322-3800
Fond du Lac County Emergency Response	On-Call	911
Fond du Lac County Communications & Emergency Management	Erin Gerred	920-929-3288
Local—DNR Water Supply Contact Person	Jim Schedgick Oshkosh	920-424-7883
Central Office—DNR Water Supply	Kris Khatri Green Bay	920-662-5406
City of Fond du Lac Plumbing Inspector Town of Fond du Lac Plumbing Inspector	Lydell Weir	920-322-3573
Town of Byron Plumbing Inspector	Alex Leonard	920-922-6089
Fond du Lac City Clerk	Sue L. Strands	920-322-3430
Byron Town Chairman	Francis Ferguson	920-922-1268
Taycheedah Town Chairman	Jerry Guelig	9220-921-2697
Town of Empire Chairman	James Pierquet	920-922-7814
Oakfield Chairman	Terry Dietzel	920-583-4400
North Fond du Lac Village President	Chuck Hornung	920-923-1757
State Patrol	Emergency Administration	911 920-929-3700
Hazardous Material Response Team (DNR) Wisconsin Division of Emergency Mgt.	Fond du Lac Fire Department	911 920-322-3800
Electric Utility	Alliant Energy Emergency Service	1-800-255-4268 1-800-862-6261