AGENDA

VILLAGE OF LITTLE CHUTE UTILITY COMMISSION MEETING

PLACE: Little Chute Village Hall, Board Room
DATE: Tuesday, January 20th, 2026
TIME: 5:00 p.m.

Join Zoom Meeting https://us06web.zoom.us/j/6312471039?omn=81873040911
Meeting ID: 631 247 1039
One tap mobile
+13126266799, 6312471039# US (Chicago)

A. Call to Order
B. Roll Call
C. Public Appearance for Items Not on the Agenda

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1. Approval of Minutes of December 16th, 2025

2. Discussion — Odor Research Meter Station 3

3. Discussion — Water Service Plan

4. Discussion/Action — Water Evaluation Study

5. Progress Reports
    a. MCO Operations Update
    b. Director of Public Works
    c. Finance Director

6. Approval of Vouchers

7. Unfinished Business

8. Items for Future Agenda

9. Adjournment

Requests from persons with disabilities who need assistance to participate in this meeting should be made with as much advance notice as possible to the Clerk's Office at 108 West Main Street, (920) 423-3852
Prepared: January 16, 2026

MINUTES OF THE UTILITY COMMISSION MEETING OF December 18, 2025

Call to Order
The Utility Commission meeting was called to order virtually at 5:00 PM by Kevin Coffey, Chair

Roll Call
PRESENT: Tom Buchholz
Ken Verstegen
Jessica Schultz
Mike Vanden Berg
Kevin Coffey, Chair

ALSO PRESENT: Lisa Remiker-DeWall, Beau Bernhoft, Bob Givens, Jerry Verstegen

Approval of Minutes from the Utility Commission Meeting of November 18th, 2025

Moved by Commissioner Buchholz, seconded by Commissioner Schultz to Approve Minutes from the Utility Commission of November 18th, 2025.

All Ayes – Motion Carried

Discussion/Recommendation — Election of Officers – Coffey (Chair) and Vanden Berg (Village Board Representative/President)
The appointments are 5-year terms.

Moved by Commissioner Verstegen, seconded by Commissioner Schultz to recommend Kevin Coffey as the Utility Commission Chair and Michael Vanden Berg as the Village Board Representative for the Utility Commission to the Village Board for appointment.

Commissioners Coffey and Vanden Berg Abstained All Ayes – Motion Carried

Discussion—Odor Research Meter Station 3
Givens gave an overview of the procedures thus far and Chair Coffey has reached out to the residents with the update.

Discussion/Recommendation — Water Rate Study Proposal Selection
Director Remiker-DeWall gave an overview of the RFP scoring and provided the review team's breakdown for recommendation of Trilogy.

Moved by Commissioner Buchholz, seconded by Commissioner Verstegen to recommend approval to the Village Board for Trilogy to complete the Village's Water Rate Study.

All Ayes – Motion Carried

Progress Reports

Approval of Vouchers

Moved by Commissioner Buchholz, seconded by Commissioner Schultz to Approve and Authorize payment of Vouchers and draw from the respective funds.

All Ayes – Motion Carried

Unfinished Business
None

Items for Future Agendas
Odor Issue Update

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Adjournment
Moved by Commissioner Coffey, seconded by Commissioner Schultz to Adjourn Utility Commission Meeting at 5:22 p.m.

All Ayes – Motion Carried

VILLAGE OF LITTLE CHUTE

By: _____
Kevin Coffey, Chair

Attest: _____
Nicole Ryerson, Village Clerk

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Item For Consideration

For Commission Review On: 01/20/2026

Prepared On: 01/14/2026
Prepared By: Jerry Verstegen

Agenda Item Topic: Water Supply Service Area Plan Review

Report: Water Supply Service Area Plan

Fiscal Impact:
Adoption of the Plan is primarily a planning/compliance action and does not by itself authorize construction. Future capital projects, if any, would be evaluated and brought forward through normal budgeting and approval processes.

Recommendation/Commission Action:
Approve adoption of the **Water Supply Service Area Plan** for the Village of Little Chute municipal water system and authorize staff to complete the public participation items and submit/maintain the Plan per NR 854 requirements.

1) Service area and growth

- The Plan delineates the **current service area** and **projected growth area** consistent with the Village comprehensive plan and future land use map (Figure 2). Growth is anticipated across residential, commercial (notably along **I-41**), and industrial (industrial park and North Avenue/CTH OO) land uses.

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Item For Consideration

- Existing distribution, wells, tanks, and system interconnections are mapped in **Figure 1 (page 5)**.

2) Existing system assets (supply, treatment, storage, distribution)

- Core components include **three wells (Wells #1, #3, #4)**, **three ion exchange softening plants**, **three ground reservoirs (200k/300k/500k gal)**, **six booster pumps**, and **two elevated towers (250k/300k gal)**.
- Well #1 facility improvements (2017) included well/booster rehabilitation, new softeners to improve efficiency and reduce salt/chloride discharges, routing regeneration waste to sanitary sewer, and a new **diesel generator**.
- Storage facilities summary (Table 4) confirms elevated and ground storage capacities and construction years.
- Distribution system is approximately **61 miles** of main (4"–16") with age/diameter breakdown in Table 5.

3) Population and demand trends

- Updated **2024 DOA projections** (based on the 2020 Census) project population increasing to **~14,559 by 2045** (interpolated).
- Recent water demand increased sharply from 2022–2024; **2024** is reported as the highest recent year with **ADD 1.666 mgd** and **MDD 2.610 mgd**.
- Industrial demand increased substantially post-2021; Figure 4 shows industrial average-day demand reaching **~694,000 gpd** by 2024.
- Major users are documented in Table 7 (e.g., Agropur, Crystal Print, Nestle) and are used to inform demand uncertainty.

4) Demand projections and planning assumptions

- Plan uses **135 gpcd** total pumpage and a **1.62** max-day-to-average-day ratio (highest observed 2020–2024) for projections.
- The Plan includes a **0.5 mgd (500,000 gpd)** additional demand scenario to represent a potential new/expanded large industrial user.
- Projected demands for 2045 are summarized as:
    - **Population growth only: ADD 1,965,500 gpd**, **MDD 3,184,100 gpd**
    - **Population growth + 0.5 mgd: ADD 2,465,500 gpd**, **MDD 3,994,100 gpd**

5) Water supply adequacy and alternatives

- Using a "water balance" approach, when all wells are available the system can produce approximately **3,150 gpm (~4.54 mgd)**, which the Plan indicates is adequate to meet current and projected maximum-day conditions **when all three wells are in service**.

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Item For Consideration

- An **emergency interconnection** with the City of Appleton exists at **Evergreen Drive & French Road** (manual valves; no meter). Appleton's higher hydraulic grade line can supply Little Chute without pumping, but use must be monitored to prevent tower overflow.

Next Steps / Implementation

- Plan is to be adopted and maintained in the utility planning record; it is to be **updated every five years**, with the next update due **December 31, 2030**.
- Public participation section currently contains **placeholders** for notice/hearing/comment dates; staff will finalize these items consistent with NR 854.08 prior to final Plan completion.

Proposed Motion

Review/Comment, this needs to go to Village Board for review and adoption.

Respectfully Submitted,
Jerry Verstegen

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ENGINEERING REPORT

WATER SUPPLY SERVICE AREA PLAN

FOR THE

Little Chute
ESTABLISHED 1848

VILLAGE OF LITTLE CHUTE | OUTAGAMIE COUNTY, WISCONSIN

DECEMBER 2025

McMAHON
ENGINEERS ARCHITECTS

McMAHON ASSOCIATES, INC.
1445 McMAHON DRIVE NEENAH, WI 54956 Mailing: PO BOX 1025 NEENAH, WI 54957-1025 PH 920.751.4200 MCMGRP.COM
McM. No. L0001-092500305.08

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WATER SUPPLY SERVICE AREA PLAN

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ENGINEERING REPORT

WATER SUPPLY SERVICE AREA PLAN

VILLAGE OF LITTLE CHUTE
OUTAGAMIE COUNTY, WISCONSIN

DECEMBER 2025
McM No. L0001-09-25-00305

I. INTRODUCTION

A. Background

The Village of Little Chute is located in the Heart of the Valley area within the Fox Cities region of northeastern Wisconsin. It is situated in eastern Outagamie County along the Fox River, directly adjacent to the City of Kaukauna and just east of the City of Appleton. The Village is part of the Appleton metropolitan area and is accessible via Interstate 41 (I-41) and State Highway 96, making it well connected within the region.

The Village of Little Chute operates a municipal water system that provides service to residential, commercial, industrial, and public authority customers. The water utility is regulated by both the Public Service Commission of Wisconsin (PSCW) and the Wisconsin Department of Natural Resources (DNR). Historically, Little Chute was primarily a residential community made up of single-family homes. In recent years, the Village has experienced steady growth, including new industrial development on both sides of I-41 and increased multi-family residential development north of I-41.

B. Plan Requirements & Purpose

Public water supply systems serving 10,000 or more people and utilize their own surface water or groundwater intakes must complete a Water Supply Service Area Plan by December 31, 2025. This Water Supply Service Area Plan has been developed in accordance with Wis. Stat. 281.348 and NR 854, which require municipalities to plan for the efficient development of water supply systems, ensure long-term capacity, promote water conservation, and align with local and regional planning efforts. The Water Supply Service Area Plan encompasses the following:

- Delineation of the area for which the plan is being prepared.
- An inventory of the sources and quantities of the current water supplies in the area.

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- Assessment of the current population and population density of the area covered by the plan, along with projections of the expected population during the plan period, based on regional growth trends and municipally designated population densities.
- A forecast of the demand for water in the area over the period covered by the plan.
- Identification of options for supplying water in the area for the period covered by the plan.
- An assessment of the environmental and economic impacts of implementing the proposed diversion.
- Identification of the procedures for implementing and enforcing the plan and a commitment to using those procedures.

C. Establishment of Planning Period

As specified in NR 854.05(1), the Water Supply Service Area Plan must identify the planning period it covers. Wisconsin Administrative Code NR 854 requires that this planning period be no less than 10 years and no more than 20 years. For this plan, a 20-year planning period has been selected, extending through 2045. The full 20-year period was chosen to provide a long-term outlook on water demands, ensuring that the Village can be proactive in addressing future water supply infrastructure needs.

D. Delineation of Water Supply Area(s)

Per requirements listed in NR 854.05(02)(a), the Water Supply Service Area Plan shall delineate the area for which the plan is being prepared, including all areas to which the public water supply currently serves and the projected growth area for the system within the planning period.

The Village of Little Chute Water Utility provides service to the incorporated Village and selected adjacent areas, including established residential neighborhoods, the industrial park, and institutional customers. A map of the existing water distribution system is provided in Figure #1.

The Village's 2016–2036 Comprehensive Plan outlines projected growth and future land use. A map of future land use is shown in Figure #2. This service area delineation defines the area in which the Village plans to provide water service now, and in the future, ensuring that existing and projected development can be adequately served. The Comprehensive Plan anticipates growth across residential, commercial, and industrial land uses, with the greatest commercial opportunities along I-41 and industrial growth concentrated in the Little Chute Industrial Park and along North Avenue (CTH OO).

Little Chute
ESTABLISHED 1848

Water Distribution System (By Diameter)

- 4 inch
- 6 inch
- 8 inch
- 10 inch
- 12 inch
- 16 inch

Other Mapped Features

- Connection Point
- Elevated Tank
- Well
- Municipal Boundary
- Parcel or Right-of-Way Line
- Railroad Centerline
- Stream
- Surface Water

Source: Outagamie County, 2023-25.

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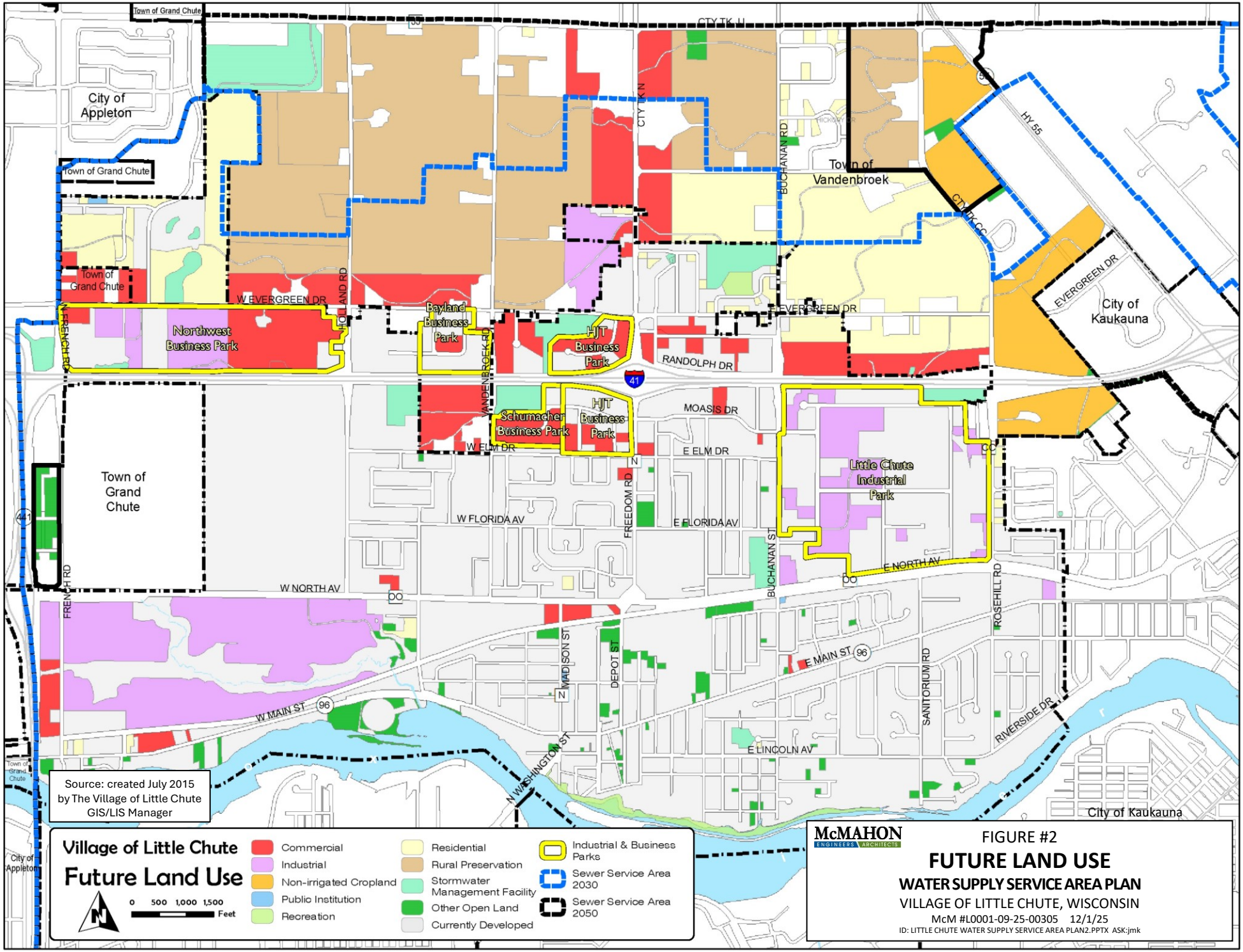
0 1,500 3,000 Feet

McMAHON ENGINEERS ARCHITECTS
McMAHON ASSOCIATES, INC.

FIGURE 1
2025 WATER DISTRIBUTION SYSTEM BY DIAMETER
WATER SUPPLY SERVICE AREA PLAN
VILLAGE OF LITTLE CHUTE
OUTAGAMIE COUNTY, WISCONSIN

w:\PROJECTS\L0001\09250030S\CADD\GIS\WaterDistributionByDiam_B.mxd December 1, 2025 kpk


Town of Grand Chute
City of Appleton
Town of Grand Chute
Town of Grand Chute
Northwest Business Park
W EVERGREEN DR
HOLLAND RD
Bayland Business Park
VANDENBROEK RD
HJT Business Park
RANDOLPH DR
Town of Vandenbroek
BUCHANAN RD
HY 55
EVERGREEN DR
City of Kaukauna
Schumacher Business Park
HJT Business Park
MOASIS DR
W ELM DR
E ELM DR
Little Chute Industrial Park
Town of Grand Chute
W FLORIDA AV
E FLORIDA AV
FREEDOM RD
W NORTH AV
E NORTH AV
FRENCH RD
BUCHANAN ST
ROSEHILL RD
MADISON ST
DEPOT ST
E MAIN ST
W MAIN ST
SANITORIUM RD
RIVERSIDE DR
E LINCOLN AV
N WASHINGTON ST
City of Kaukauna
City of Appleton
Source: created July 2015 by The Village of Little Chute GIS/LIS Manager
Village of Little Chute
Future Land Use
0 500 1,000 1,500 Feet
Commercial
Industrial
Non-irrigated Cropland
Public Institution
Recreation
Residential
Rural Preservation
Stormwater Management Facility
Other Open Land
Currently Developed
Industrial & Business Parks
Sewer Service Area 2030
Sewer Service Area 2050
McMAHON ENGINEERS ARCHITECTS
FIGURE #2
FUTURE LAND USE
WATER SUPPLY SERVICE AREA PLAN
VILLAGE OF LITTLE CHUTE, WISCONSIN
McM #L0001-09-25-00305 12/1/25
ID: LITTLE CHUTE WATER SUPPLY SERVICE AREA PLAN2.PPTX ASK:jmk

II. EXISTING WATER SUPPLIES & FACILITIES

A. General

The Village of Little Chute water system primarily consists of the following components:

- Three Wells – Well #1, Well #3 and Well #4
- Three Ion Exchange Softening Treatment Plants
- Three Ground Level Water Storage Reservoirs – 200,000, 300,000 and 500,000-gallon
- Six Booster Pumps
- Two Elevated Water Towers – 250,000 and 300,000-gallon
- Water Distribution System

A schematic of the water system operation is provided on Figure #3.

B. Existing Water Sources

Well construction information is summarized in Table #1 and the well construction logs are provided in Appendix #1. The capacity of the booster pumping equipment is presented in Table #2. Softener facility data is provided in Table #3. A summary table of the storage facilities is provided in Table #4. A general description of the facilities is provided in the following sections.

1. Well #1 Pumphouse (Doyle Park)

The Well #1 Pumphouse is located at Doyle Park in the southern area of the Village. The facility houses Well #1, the ion exchange softening system, a 300,000-gallon ground level water storage reservoir and two booster pumps. Well #1 is a 12-inch diameter well, originally constructed in 1923 and later deepened to 724-feet in 1950. Raw water from Well #1 is treated using the on-site ion exchange softening shells. Treated water is stored in the 300,000-gallon ground reservoir prior to distribution by the two booster pumps (Booster Pumps #1 and #2).

An extensive improvement project was completed at the Well #1 Pumphouse in 2017, including:

- Rehabilitation of the well pumping equipment and replacement of the booster pump motors.
- Replacement of the softeners to increase the efficiencies and decrease salt use/chloride discharges.
- Redirection of softener regeneration brine cycle, slow rinse and fast rinse wastewater to the sanitary sewer.

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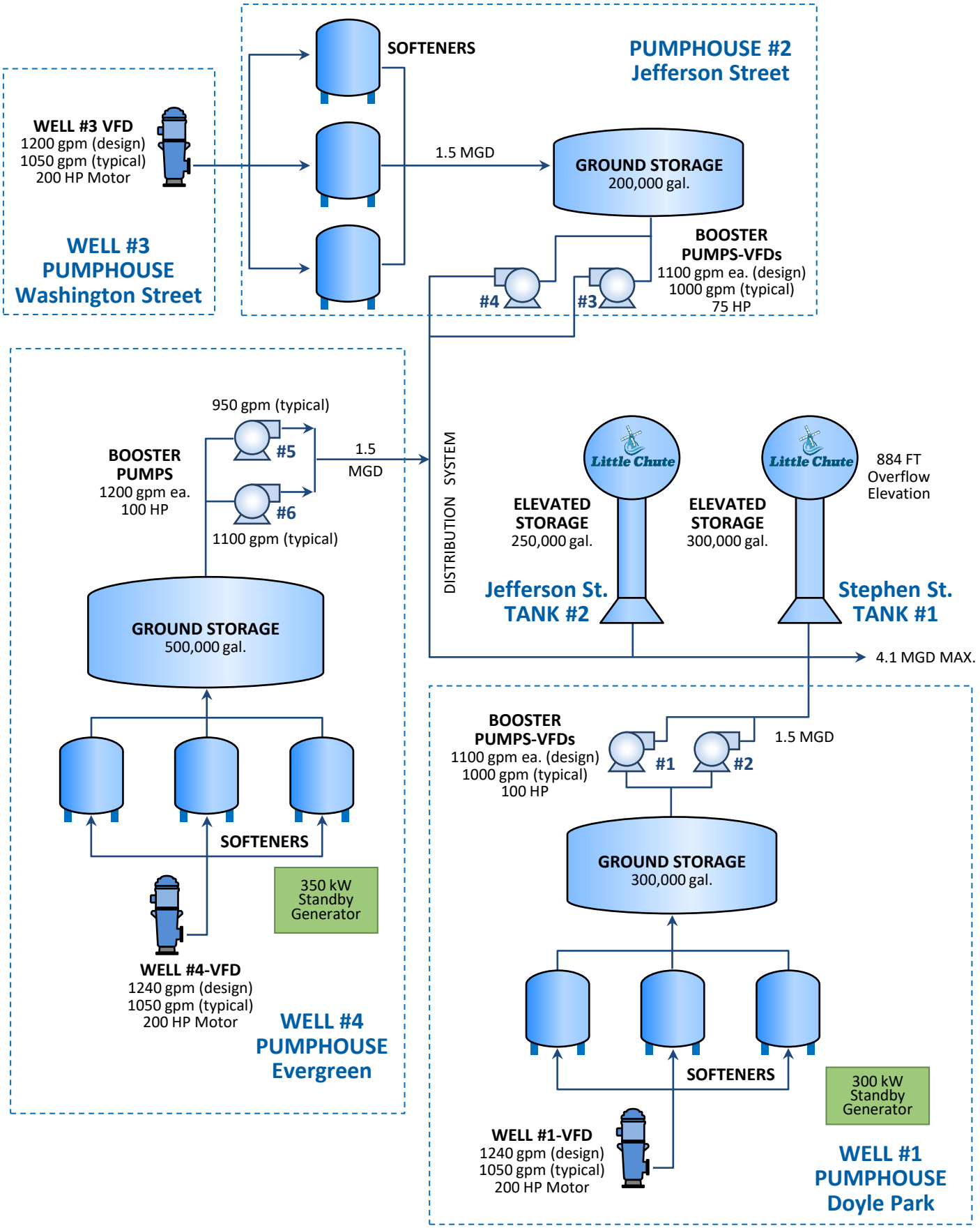

FIGURE #3

WATER SYSTEM SCHEMATIC

WATER SUPPLY SERVICE AREA PLAN

VILLAGE OF LITTLE CHUTE, WISCONSIN

McM #L0001-09-25-00305 12/1/25

ID: LITTLE CHUTE WATER SUPPLY SERVICE AREA PLAN3.PPTX ASK:jmk

McMAHON ENGINEERS ARCHITECTS

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Table #1

WELL CONSTRUCTION & WELL PUMP DATA

WATER SUPPLY SERVICE AREA PLAN

Village of Little Chute | Outagamie County, Wisconsin

		Well Depth	Casing Data	Pump Install Data	Design Capacity	Pump Setting	Motor Install Data	Auxiliary Power
WELL #1		734-feet	12-inch: 0 - 102-feet	2017 - Goulds 12 CHC 6-Stage	1,400 gpm	280-feet	200-HP	Diesel Generator
BG 582					Typical Operating Capacity: 1,050 gpm		1997 - Aurora	
Constructed	1950							
WELL #3		805-feet	18-inch: 0 - 48-feet	2021- Goulds 12 CHC 7-Stage	1,300 gpm	430-feet	200-HP	None
BG 584			12-inch: 2 - 320-feet		Typical Operating Capacity: 1,050 gpm		1992	
Constructed	1974							
WELL #4		750-feet	20-inch: 0 - 47-feet	2018 - Goulds 12 CHC 6-Stage	1,100 gpm	430-feet	200-HP	Diesel Generator
NG 591			16-inch: 0 - 449-feet		Typical Operating Capacity: 1,050 gpm		2009 - GE	
Constructed	1999							

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Table #2

BOOSTER PUMPING EQUIPMENT

WATER SUPPLY SERVICE AREA PLAN

Village of Little Chute | Outagamie County, Wisconsin

	Location	Motor	Motor Mfg.	VFD/Soft	Installed/Built	Design Capacity	Typical Capacity	TDH	Auxiliary Power
Booster #1	Well House #1 - 100 VanBuren Street	100-HP	US Motor	VFD	2017	1,100 gpm	1,050 gpm	196	Diesel Generator
Booster #2	Well House #1 - 100 VanBuren Street	100-HP	US Motor	VFD	2017	1,100 gpm	1,050 gpm	196	Diesel Generator
Booster #3	Pumphouse #2 - 1118 Jefferson Street	75-HP	US Motor	VFD	1992	1,100 gpm	1,000 gpm	154	None
Booster #4	Pumphouse #2 - 1118 Jefferson Street	75-HP	US Motor	VFD	2014	1,100 gpm	1,000 gpm	154	None
Booster #5	Well House #4 - 625 E Evergreen	100-HP	US Motor	Soft	2001	1,200 gpm	950 gpm	174	Diesel Generator
Booster #6	Well House #4 - 625 E Evergreen	100-HP	US Motor	Soft	2001	1,200 gpm	1,100 gpm	174	Diesel Generator

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Table #3

SOFTENER FACILITIES

WATER SUPPLY SERVICE AREA PLAN

Village of Little Chute | Outagamie County, Wisconsin

ID Tag	Location	Year Installed / Built	Design Resin (cu.ft.)	Actual Resin (cu.ft.)	Resin Removal	Hardness	Design Regeneration Setpoint	Actual Regeneration Setpoint
Well #1 - Shell #1	Well House #1	2017	230	230	19,000	24	182,083	154,000
Well #1 - Shell #2	Well House #1	2017	230	230	19,000	24	182,083	154,000
Well #1 - Shell #3	Well House #1	2017	230	230	19,000	24	182,083	154,000
Pump #2 - Shell #1	Pumphouse #2	1992	260	260	20,000	22	236,364	180,000
Pump #2 - Shell #2	Pumphouse #2	1992	260	260	20,000	22	236,364	180,000
Pump #2 - Shell #3	Pumphouse #2	1950 / Rehab 2002	260	260	20,000	22	236,364	180,000
Well #4 - Shell #1	Well House #4	2001	320	320	20,000	34	188,235	150,000
Well #4 - Shell #2	Well House #4	2001	320	320	20,000	34	188,235	150,000
Well #4 - Shell #3	Well House #4	2001	320	320	20,000	34	188,235	150,000

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Table #4

SUMMARY OF WATER STORAGE FACILITIES

WATER SUPPLY SERVICE AREA PLAN

Village of Little Chute | Outagamie County, Wisconsin

Location	Capacity	Year Constructed
Elevated Tanks		
Tank #1 - Stephen Street	300,000-gal	2002
Tank #2 - Jefferson Street	250,000-gal	1967
Ground Reservoirs		
Reservoir #1 - Well #1	300,000-gal	1979
Reservoir #2 - Pumphouse #2	200,000-gal	1952
Reservoir #3 - Well #4	500,000-gal	2001

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- Installation of a new 300 kW diesel generator with an automatic transfer switch.

2. Pumphouse #2 (Jefferson Street) & Well #3 (Washington Street)

Pumphouse #2 is located at the north end of Jefferson Street at the railroad tracks. Well #2 was previously abandoned, but the ion exchange softeners and booster pumping equipment is still housed in the pumphouse. Well #3 is located on Washington Street, approximately 2,000-feet west of Pumphouse #2. This 12-inch well was originally constructed in 1973. Raw water from Well #3 is pumped to Pumphouse #2 for treatment and distribution to the system. Treated water is stored in the 200,000-gallon ground reservoir prior to distribution by the two booster pumps (Booster Pumps #3 and #4).

3. Well #4 Pumphouse (Evergreen Drive)

Located on the north side of I-41, the Well #4 Pumphouse was constructed in 2000. The pumphouse houses Well #4, three softener shells and two booster pumps (Booster Pumps #5 and #6). There is also a 500,000-gallon ground storage tank at this location.

C. Existing Water Storage

The storage facilities in the Little Chute system include both elevated storage and ground storage reservoirs. The ground storage reservoirs are located at each pump station, as previously mentioned. Treated water is discharged to each reservoir and then pumped into the system via the booster pumps.

Elevated storage serves two purposes in a water system: 1) Maintains system pressure; and 2) Provides reserve capacity for fire protection supply and for peak demands.

There are two elevated water towers in the system:

- Stephen Street - Elevated Tower #1 ..... 300,000-gallon
- Pumphouse #2 - Jefferson Street - Elevated Tower #2 ..... 250,000-gallon

D. Distribution System

The Village of Little Chute water distribution system (See Figure #1) consists of approximately 61-miles of water main, ranging in size from 4-inch to 16-inch. A summary of the pipe diameters and lengths is summarized in Table #5.

Table #5

WATER MAIN DATA
FEET OF MAIN / AGE OF MAIN
WATER SUPPLY SERVICE AREA PLAN
Village of Little Chute | Outagamie County, Wisconsin

Pipe Size	1920-1940 (feet)	1941-1960 (feet)	1961-1970 (feet)	1971-1980 (feet)	1981-1990 (feet)	1991-2000 (feet)	2001-2010 (feet)	2011-2020 (feet)	2021-2030 (feet)	Total (feet)
4-inch	290	306				68				664
6-inch	3,071	5,680	7,247	13,130	1,267	1,560	1,108	2,262	372	35,697
8-inch	3,057	8,570	10,543	31,760	16,731	18,060	42,085	29,247	6,831	166,884
10-inch	1,621	4,522		1,105	1,517	1,526	7,474	2,898		20,663
12-inch	70		2,653	10,295	13,276	12,480	26,824	20,061	6,100	91,759
16-inch				3,520	677	1,663	331		2	6,193
Total	**8,109**	**19,078**	**20,443**	**59,810**	**33,468**	**35,357**	**77,822**	**54,468**	**13,305**	**321,860**
										61-miles

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III. HISTORIC AND PROJECTED POPULATION AND WATER DEMANDS

A. Population

Population projections for the years 2020 through 2030 were previously developed in 2013 for the State of Wisconsin by the Department of Administration (DOA) and reported in the Village's Comprehensive Plan.

- 2000 Census..... 10,476
- 2010 Census..... 10,449
- 2020 10,740
- 2025 10,950
- 2030 11,100
- 2035 11,107
- 2040 10,900

Updated population projections through year 2050 were recently produced by the DOA in 2024 based on the 2020 Census data.

- 2020 Census..... 11,619
- 2030 12,896
- 2040 14,109
- 2045.....14,559**
- 2050 14,859

**Obtained by interpolation.

With a 2020 Census population of 11,619, the Village's population has well exceeded the previous projections used in the Comprehensive Plan and the 2017 Water System Evaluation and Plan for the Village of Little Chute . These most recent projections indicate that the Village's population is expected to increase to almost 12,900 people by year 2030 compared to the projected 2030 population of 11,100 from 2013. With an estimated population of 12,178 in 2023, the Village is well on its way to meeting the current year 2030 projection and may still be exceeding projections.

As previously discussed in Section I.C, Wisconsin Administrative Code NR 854 requires that this planning period be no less than 10 years and no more than 20 years. For this Plan, a 20-year planning period has been selected, extending through 2045. The full 20-year period was chosen to provide a long-term outlook on water demands, ensuring that the Village can be proactive in addressing future water supply infrastructure needs.

B. Historical Demands

1. Water Demand Trends

Table #6 summarizes water system demands from 2015 through 2024. Between 2015 and 2019, the Average Day Demand (ADD) and Maximum Day Demand (MDD) slightly decreased, even though the number of customers increased from 4,335 to 4,543.

- 2015: ADD = 1.22 mgd, MDD = 1.845 mgd
- 2019: ADD = 1.141 mgd, MDD = 1.505 mgd

This reduction was likely due to water-saving fixtures, industrial efficiency improvements, and impacts from the COVID-19 pandemic.

In 2020, the ADD and MDD increased to levels slightly above those observed in 2015 before the observed decrease in demands to the 2019 low. Demands remained stable from 2020 through 2022 despite an increase of 131 total customers. This was followed by sharp increases in both ADD and MDD from 2022 to 2024. 2024 saw the highest overall water system demand over the 5-year period between 2020 and 2024, with an ADD of 1.666 mgd and an MDD of 2.610 mgd. The total number of customers increased by 213 over this period, with the biggest observed increase in the residential customer category followed by commercial, while the number of industrial customers decreased by two.

In terms of water use, residential use decreased by 10% over the 5-year period despite the increase in customers. Industrial water use increased by 85% even with the loss of two customers over the same period.

2. Major Water Users

As per the requirements in NR 854.05(5)(D), listed in Table #7 are the Village of Little Chute's overall 10 largest retail water customers over the 10-year period between 2015 and 2024. The list of top customers includes a mix of industrial, commercial, public authority, and multi-family residential users.

3. Water Use By Customer Sector

A graph of Village's average daily demands by customer category from 2015 through 2024 is provided in Figure # 4. Residential water demand has remained relatively stable, fluctuating slightly around 400,000 gpd throughout the period. Commercial usage shows more variability, peaking at around 110,627 gpd in 2022 before decreasing slightly in recent years. Industrial water demand experienced substantial growth following 2021, increasing from approximately 424,044 gpd in 2022 to nearly 694,000 gpd by 2024. Public authority usage remains steady.

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Table #6

HISTORICAL & PROJECTED WATER USAGE
WATER SUPPLY SERVICE AREA PLAN
Village of Little Chute | Outagamie County, Wisconsin

Customer Classification	2015 No. of Customers	2015 Annual Water Sales (gallons)	2016 No. of Customers	2016 Annual Water Sales (gallons)	2017 No. of Customers	2017 Annual Water Sales (gallons)	2018 No. of Customers	2018 Annual Water Sales (gallons)	2019 No. of Customers	2019 Annual Water Sales (gallons)	2020 No. of Customers	2020 Annual Water Sales (gallons)	2021 No. of Customers	2021 Annual Water Sales (gallons)	2022 No. of Customers	2022 Annual Water Sales (gallons)	2023 No. of Customers	2023 Annual Water Sales (gallons)	2024 No. of Customers	2024 Annual Water Sales (gallons)	OVERALL Change in No. of Customers	OVERALL Change in Water Sales (gallons)	% Change in Water Sales (gallons)	2045 Projection Parameters
Residential	3,947	147,804,000	3,982	150,235,000	4,003	145,879,000	4,032	146,156,000	4,063	142,220,000	4,069	164,375,000	4,128	148,796,000	4,173	146,526,000	4,213	152,098,000	4,234	147,296,000	287	-508,000	0%	
Commercial	309	31,882,000	341	31,092,000	323	29,060,000	355	28,879,000	363	30,287,000	363	26,384,000	374	34,928,000	391	40,379,000	399	35,505,000	404	30,926,000	95	-956,000	-3%	
Industrial	29	146,672,000	33	152,197,000	39	147,820,000	40	150,412,000	40	144,916,000	32	137,038,000	29	148,001,000	32	154,776,000	32	220,776,000	30	253,307,000	1	106,635,000	73%	
Public Authority	24	8,428,000	24	9,298,000	25	14,308,000	33	9,358,000	25	9,206,000	27	9,194,000	27	8,146,000	28	10,229,000	22	13,604,000	33	10,617,000	9	2,189,000	26%	
Multi-family Residential	26	20,333,000	27	20,008,000	42	20,625,000	50	19,685,000	52	23,413,000	52	27,873,000	51	30,660,000	50	32,755,000	52	30,647,000	55	32,121,000	29	11,788,000	58%	
Totals	**4,335**	**355,119,000**	**4,407**	**362,830,000**	**4,432**	**357,692,000**	**4,510**	**354,490,000**	**4,543**	**350,042,000**	**4,543**	**364,864,000**	**4,609**	**370,531,000**	**4,674**	**384,665,000**	**4,718**	**452,630,000**	**4,756**	**474,267,000**	**421**	**119,148,000**	**34%**	
																						Average		
Population Estimate	10,641		10,815		11,006		11,225		11,484		11,619		12,170		12,160		12,178		12,364			11,566		**14,559**
Annual Pumpage, gallons	445,275,000		450,187,000		443,282,000		437,021,000		416,556,000		463,173,000		455,439,000		463,208,000		557,840,000		608,099,000			474,008,000		
Average Day, gpd	1,220,000		1,233,000		1,214,000		1,197,000		1,141,000		1,269,000		1,248,000		1,269,000		1,528,000		1,666,000			1,299,000		
Total GPCD	115		114		110		107		99		109		103		104		125		**135**			112		**135**
Residential GPCD	38		38		36		36		34		39		33		33		34		33			35		
Maximum Day, gpd	1,845,000		1,813,000		1,895,000		1,782,000		1,505,000		1,883,000		2,021,000		1,897,000		2,284,000		2,610,000			1,953,500		
Max Day Ratio	1.51		1.47		1.56		1.49		1.32		1.48		**1.62**		1.49		1.49		1.57			1.50		**1.62**
Minimum Day, gpd	773,000		819,000		846,000		854,000		754,000		720,000		824,000		892,000		1,034,000		1,181,000			869,700		
Non-Revenue Water	20%		19%		19%		19%		16%		21%		19%		17%		19%		22%			19%		

Projected Water Use Parameter	**Avg Day (gpd)**	**Max Day Demand (gpd)**
2050 Population = 14,859	1,965,500	3,184,100
	(14,8559 x 135 gpcd)	(1.965 mgd x 1.62)
Add 0.5 mgd (Avg. Day Demand)	500,000	810,000
		(0.50 mgd x 1.62)
Projected Water Demand With Population Growth + 0.5 mgd	**2,465,500**	**3,994,100**

Table #7

HISTORICAL WATER DEMANDS FOR TOP 10 CUSTOMERS

WATER SUPPLY SERVICE AREA PLAN

Village of Little Chute | Outagamie County, Wisconsin

Industrial Customer	2024 Annual Total (gal)
Agropur, Inc	114,632,777
Crystal Print Water	68,908,078
Nestle Pizza Division	46,894,866
Lexington Homes, Inc.	15,255,771
Oh Snap! Pickling, LLC	9,809,446
Outagamie County	5,181,890
Bel Brands USA	5,601,821
Village of Little Chute	3,212,821
REDJ, LLC	3,106,463
Hickory Lane MHC WI	3,383,738
Total Top 10	**275,987,671**

Industrial Customer	2023 Annual Total (gal)
Agropur, Inc	109,253,005
Nestle Pizza Division	53,924,476
Crystal Print	35,605,202
Lexington Homes, Inc.	14,823,384
Outagamie County	6,493,001
Bel Brands USA	7,492,571
Hickory / Dutch Harbor MHC WI	5,913,055
Village of Little Chute	4,802,620
Absolute Supply, LLC	6,418,450
Oh Snap! Pickling	5,889,107
	250,614,871

Industrial Customer	2022 Annual Total (gal)
Nestle	58,143,021
Agropur, Inc	52,513,420
Crystal Print	25,465,034
Lexington Homes, Inc.	14,974,860
Absolute Welding, LLC	10,034,050
Outagamie County	4,133,343
Bel Brands USA	6,635,000
Oh Snap!	5,956,950
Hickory Lane MHC WI	5,186,380
KWIK Trip	3,525,540
	186,567,598

Industrial Customer	2021 Annual Total (gal)
Nestle	62,410,430
Agropur, Inc	53,222,010
Crystal Print	21,091,000
Lexington Homes, Inc.	10,635,330
Bel Brands USA	6,290,000
Outagamie County	3,616,000
Absolute Welding, LLC	5,794,360
GCK Foods, LLC	3,366,600
Appleton Hospitality, LLC	3,213,700
KWIK Trip	3,294,340
	172,933,770

Industrial Customer	2020 Annual Total (gal)
Nestle DSD	67,018,570
Agropur, Inc	48,916,700
Crystal Print Water	22,194,000
Lexington Homes, Inc.	6,141,890
Bel Brands USA	6,144,000
Outagamie County Hwy Dept	3,348,000
HPII Properties, LLC	2,865,000
KWIK Trip	3,124,480
Litton Portfolio, LLC	2,540,000
Hickory Lane MHC WI	2,370,000
	164,662,640

Industrial Customer	2019 Annual Total (gal)
Nestle	61,151,960
Agropur, Inc	46,998,830
Crystal Print Water	27,839,000
Lexington Management	7,427,320
Bel Brands USA	6,622,000
Outagamie County	4,364,640
Appleton Hospitality, LLC	3,088,700
KWIK Trip	2,806,670
HP II Properties	2,759,000
Badger Portfolio	2,400,000
Total Top 10	**165,458,120**

Industrial Customer	2018 Annual Total (gal)
Nestle Pizza Division	64,458,183
Agropur, Inc	45,267,000
Crystal Print	29,257,000
Bel Brands USA	7,057,000
Badger Portfolio, LLC	3,044,000
Outagamie County	2,862,993
Little Chute Schools	2,806,000
Victor Allen Coffee	2,577,031
HP II Properties, LLC	2,345,500
Litton Portfolio, LLC	2,241,000
	161,915,707

Industrial Customer	2017 Annual Total (gal)
Nestle Pizza Division	64,664,224
Agropur, Inc	40,984,000
Crystal Print Water	30,668,000
Outagamie County	8,580,300
Bel Brands USA	7,273,000
Badger Portfolio, LLC	4,256,000
Lexington Homes, Inc.	3,302,640
Appleton Hospitality, LLC	3,904,100
HP II Properties	2,515,000
Litton Portfolio, LLC	2,250,000
	168,397,264

Industrial Customer	2016 Annual Total (gal)
Nestle Pizza Division	105,192,202
Agropur, Inc	43,106,000
Outagamie County Hwy Dept	15,088,135
Crystal Print	29,002,000
Bel Brands USA	11,900,610
Appleton Hospitality, LLC	3,966,800
Little Chute Schools	3,032,000
Badger Portfolio	3,148,000
Litton Portfolio, LLC	2,496,000
Little Chute Village	2,167,630
	219,099,377

Industrial Customer	2015 % of Total
Nestle Pizza Division	10.43
Agropur, Inc	5.82
Crytal Print	4.32
Bel Brands USA	1.62
Premier Little Chute, LLC	1.28
HPII Properties, LLC	0.93
Little Chute Schools	0.78
Appleton Hospitality, LLC	0.78
REDJ, LLC	0.71
Outagamie County	0.63
	27.30

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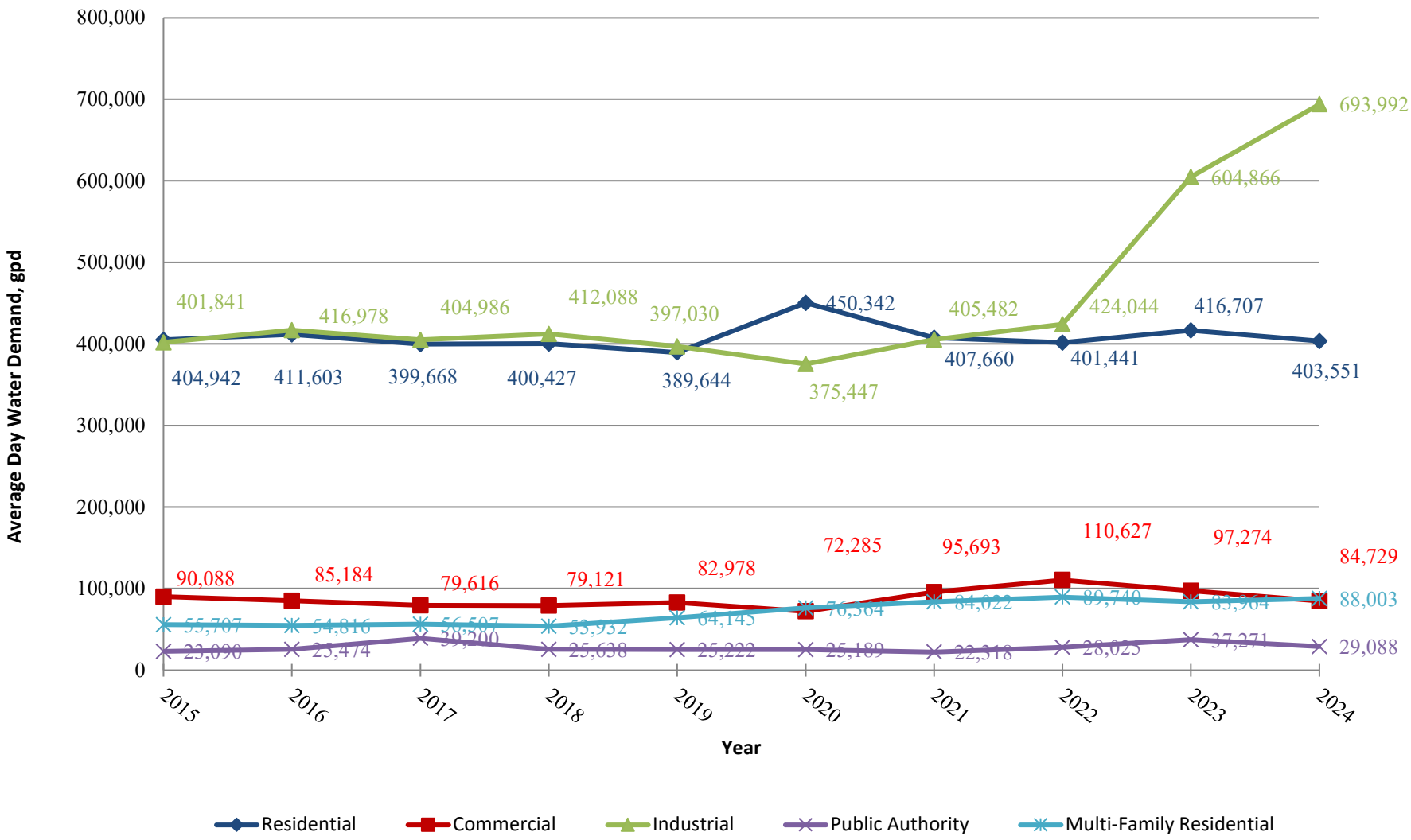
Figure #4

HISTORICAL WATER DEMAND BY CUSTOMER CATEGORY

WATER SUPPLY SERVICE AREA PLAN

Village of Little Chute | Outagamie County, Wisconsin



generally at around 20,000 to 30,000 gpd, while multi-family residential demand has increased moderately, reaching around 88,000 gpd in 2024.

C. Projected Demands

Water demand parameters based on the historical averages and common engineering standards are typically used for projecting future water demands. However, in cases where non-residential customers make up a significant portion of the total water demand, projected commercial and industrial growth needs to be considered.

The Village of Little Chute's top water users were recently surveyed in an effort to gain a better understanding of their projected future water use. Agropur responded indicating that their Little Chute facility is currently operating at 60% of its capacity and if product demand increases, production would increase accordingly. However, they did not know how an increase in production would correlate with their water demand. Crystal Print initially indicated that they were looking into improving their chiller system, which would result in a significant reduction in their water demand; however, they recently indicated that their water use could double in conjunction with the facility expansion they are considering. Nestle projected a slight increase in water demand, annually, in response to rising consumer demand.

Historical water use data from 2015 to 2024, as provided in Table #6, was used to develop parameters for projecting future demands. The following demand parameters are proposed for projecting future demands, and to analyze the capacity of the water supply and storage facilities.

- Total Pumpage Gallon Per Capita Per Day (gpcd)..... 135 gpcd
- Maximum Day Demand to Average Day Demand Ratio.....1.62

The 135 gpcd of total pumpage accounts for the current industrial water demand within the "per capita" value and projects an increased demand from current industrial customers proportional to population growth. This can be used in the absence of actual water demand projections from the Village's top water users and may be considered conservative based on the survey of the top water users discussed previously. The 1.62 MDD to ADD ratio is the highest observed ratio over the 5-year period between 2020 and 2024, whereas the average ratio over that period is 1.53.

New industrial development should also be considered when projecting future demands as a new wet industry could present a significant demand on the water system. The current ADD for the Village's top water user, Agropur, is about 315,000 gpd, assuming production is 365 days per year. The ADD for the next two top water users are about 189,000 gpd and 128,500 gpd, respectively. An additional 500,000 gpd demand was previously used in the 2017 Water System Evaluation and Plan to account for a new large customer and/or expansion by an existing customer. Use of the addition 500,000 gpd demand appears to be appropriate as evidenced by a recent inquiry by a company

looking to move into the area that was projecting a similar water demand for their proposed facility at full buildout.

Year 2045 water demand projections based on projected population growth are summarized in Table #6. An additional future demand of 500,000 gpd was also added to the projections to evaluate conditions associated with a large customer moving into the Village and/or existing industrial customers expanding their production.

The projected future demands are as follows:

	Average Day Demand (gpd)	**Maximum Day Demand (gpd)**
Population Growth (14,559 people)	1,965,500	3,184,100
Population Growth + 0.5 mgd	2,465,500	3,994,100

IV. WATER SUPPLY ALTERNATIVES

The Water Service Area was evaluated per Wisconsin Administrative Code NR 854 using a "water balance" approach, which assesses whether the total available water supply is sufficient to meet current and future demands. This method is suitable for long-range planning and sustainability; however, it does not account for the system's firm capacity, which is defined as the reliable pumping capacity available when the largest or highest-producing well is out of service.

The adequacy of the Village's water supply system was evaluated based on its ability to meet Maximum Day Demand (MDD) conditions. When all sources of supply are available, the system can produce approximately 3,150 gpm or 4.54 mgd. This analysis indicates that the existing wells and supply facilities are adequate to meet current and projected future operational requirements and maximum day conditions when all three wells are in service.

Alternative water supply sources are currently available in the region, including an existing emergency backup supply from the City of Appleton. The Village of Little Chute's distribution system is connected to the City of Appleton's system at the intersection of Evergreen Drive and French Road. The connection consists of two gate valves, which are operated manually in the event of an emergency. There are no metering facilities on the connection. The hydraulic grade line of the Appleton system is elevation 914 while the hydraulic grade line of the Little Chute system is elevation 883. Therefore, the Appleton system can supply water to the Little Chute system without pumping; however, use of the connection needs to be closely monitored to prevent overflowing the Little Chute towers.

V. PROCEDURES FOR IMPLEMENTING & UPDATING THE PLAN

This Plan shall be adopted by the Village and maintained as part of the Utility's planning record. The Village shall monitor changes in water use and population and update the Plan once every five years to reflect changes. The next update to this Plan shall be completed by December 31, 2030.

The updates shall include:

- Re-delineation of service areas (if necessary)
- Update to water supply sources and their respective capacities (if necessary)
- Population and population projections
- Recalculation of future water demands

VI. PUBLIC PARTICIPATION

The Water Supply Service Area Plan requires a public participation process in accordance with NR 854.08. Public notice of the proposed Plan was published on February 3, 2026, and a public hearing was held on February 17, 2026 to present the Plan and gather public comment. A period for written public comments was provided from February 3 to February 10, 2026, during which all submitted comments were reviewed and considered. The final Plan, along with a summary of public comments, was adopted by the Village Board on February 17, 2026, and made available for public inspection.

APPENDIX #1

Well Construction Logs

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WISCONSIN UNIQUE WELL NUMBER **BG582**

Source: SWAP PROJECT KEYED

State of Wi-Private Water Systems-DG/2
Department Of Natural Resources, Box 7921
Madison, WI 53707

Form 3300-77A
(Rev 02/02)bw

Depth 734 FT

Property Owner: LITTLE CHUTE, VILLAGE OF		Telephone Number: 414-788-7398	
Mailing Address: 108 W MAIN ST			
City: LITTLE CHUTE	State: WI	Zip Code: 54140	
County of Well Location: 45 OUTAGAMIE	Co Well Permit No: W	Well Completion Date: January 1, 1950	

1. Well Location

T=Town C=City V=Village: V of LITTLE CHUTE

Fire#:

Street Address or Road Name and Number: 100 VAN BUREN ST #1

Subdivision Name | Lot# | Block #

Gov't Lot **or** NE 1/4 of SE 1/4 of Section 21 T 21 N;R 18 E

Latitude Deg. 44 Min. 16.6222

Longitude Deg 88 Min. 18.7554

Well Constructor: LAYNE CHRISTENSEN COMPANY	License #: 582	Facility ID (Public): 445033820	
Address: W229 N5005 DUPLAINVI		Public Well Plan Approval#:	
City: PEWAUKEE	State: WI	Zip Code: 53072	Date Of Approval: 07/20/1923
Hicap Permanent Well #: 83482	Common Well #: 001		Specific Capacity: 56.5 gpm/ft

2. Well Type 3 (See item 12 below)

1=New 2=Replacement 3=Reconstruction

of previous unique well # _____ constructed in 1923

Reason for replaced or reconstructed Well?

Lat/Long Method: GPS004

3. Well Serves M # of homes and or (eg: barn, restaurant, church, school, industry, etc.)

M=Munic O=OTM N=NonCom P=Private Z=Other X=NonPot A=Anode L=Loop H=Drillhole

High Capacity: Well? Property?

1 1=Drilled 2=Driven Point 3=Jetted 4=Other

4. Is the well located upslope or sideslope and not downslope from any contamination sources, including those on neighboring properties?

Well located in floodplain?

Distance in feet from well to nearest: (including proposed)

1. Landfill
2. Building Overhang
3. 1=Septic 2= Holding Tank
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. 1=Shoreline 2= Swimming Pool
9. Downspout/ Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain 1=Cast Iron or Plastic 2=Other
14. Building Sewer 1=Gravity 2=Pressure 1=Cast Iron or Plastic 2=Other
15. Collector Sewer: ___ units ___ in . diam.
16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe 1=Gravity 2=Pressure 1=Cast iron or Plastic 2=Other
23. Other manure Storage
24. Ditch
25. Other NR 812 Waste Source

5. Drillhole Dimensions and Construction Method

Dia.(in.)	From (ft)	To (ft)
15.0	surface	102
12.0	102	734

Upper Enlarged Drillhole

-- 1. Rotary - Mud Circulation

-- 2. Rotary - Air

-- 3. Rotary - Air and Foam

-- 4. Drill-Through Casing Hammer

-- 5. Reverse Rotary

-- 6. Cable-tool Bit _ n. dia

-- 7. Temp. Outer Casing _ in. dia. _____ depth ft. Removed ?

Other

Lower Open Bedrock

Geology Codes	8. Geology Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
_C_	CLAY	0	5
_L_	DOLOMITE GALENA PLATTEVILLE	5	151
_NL	SANDSTONE LOWER MAGNESIUM	151	189
G_LR	DOLOMITE LOWER MAGNESIUM	189	229
_NNL	SANDSTONE LOWER MAGNESIUM	229	237
G_L_	DOLOMITE LOWER MAGNESIUM	237	329
_NNL	SANDSTONE LOWER MAGNESIUM	329	335
_LS	DOLOMITE	335	345
_NL	SANDSTONE TREMPEALEAU	345	382
_NL	SANDSTONE FRANCONIAN	382	490
_N_	SANDSTONE DRESBACH	490	730
P_Q_	GRANITE PRECAMBRIAN	730	734

6. Casing Liner Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
12.0		surface	102

Dia.(in.)	Screen type, material & slot size	From	To

9. Static Water Level

38.0 feet B ground surface A=Above B=Below

10. Pump Test

Pumping level 44.0 ft. below surface

Pumping at 339.0 GP M 8.0 Hrs

11. Well Is: 0 in. Grade A=Above B=Below

Developed?

Disinfected?

Capped?

7. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
GROUT	surface	102.0	

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?

If no, explain

13. Initials of Well Constructor or Supervisory Driller | Date Signed

Initials of Drill Rig Operator (Mandatory unless same as above)

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Additonal Comments? Y Variance Issued?

Owner Sent Label? Y More Geology?

Batch 548

WISCONSIN UNIQUE WELL NUMBER
SOURCE: SWAP PROJECT KEYED **BG584**

State of Wi-Private Water Systems-DG/2
Department Of Natural Resources, Box 7921
Madison, WI 53707

Form 3300-77A
(Rev 12/00)

Property Owner: LITTLE CHUTE, VILLAGE OF
Telephone Number: 414 – 788 – 7398
Depth 805 FT

Mailing Address: 108 W MAIN ST

City: LITTLE CHUTE | State: WI | Zip Code: 54140

County of Well Location: 45 OUTAGAMIE | Co Well Permit No: NE W | Well Completion Date: February 1, 1974

1. Well Location V T=Town C=City V=Village of LITTLE CHUTE | Fire#

Street Address or Road Name and Number: 920 WASHINGTON ST #3

Subdivision Name | Lot# | Block #

Well Constructor: LAYNE CHRISTENSEN | License #: 582 | Facility ID (Public): 445033820

Address: W229 N5005 DUPLAINVI | Public Well Plan Approval#: 730121

City: PEWAUKEE | State: WI | Zip Code: 53072 | Date Of Approval: 02/26/1973

Hicap Permanent Well #: 83484 | Common Well #: 003 | 4.2 gpm/ft

Gov't Lot or SE 1/4 of NW 1/4 of
Section 21 T 21 N R 18 E

Latitude Deg. 44 Min. 17.0071
Longitude Deg 88 Min. 19.6573

2. Well Type 1 (1=New, See item 12 below) | Lat/Long Method
2=Replacement
3=Reconstruction of previous unique well # _____ constructed in 0

Reason for replaced or reconstructed Well?

3. Well Serves M (M=Munic O=OTM N=NonCom P=Private Z=Other X=NonPot A=Anode L=Loop H=Drillhole) # of homes and or (eg: barn, restaurant, church, school, industry, etc.)

High Capacity: Well? Property?

1 (1=Drilled 2=Driven Point 3=Jetted 4=Other)

4. Is the well located upslope or sideslope and not downslope from any contamination sources, including those on neighboring properties?

Well located in floodplain?

Distance in feet from well to nearest: (including proposed)

1. Landfill
2. Building Overhang
3. 1=Septic 2= Holding Tank
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. 1=Shoreline 2= Swimming Pool
9. Downspout/ Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain 1=Cast Iron or Plastic 2=Other
14. Building Sewer 1=Gravity 2=Pressure 1=Cast Iron or Plastic 2=Other
15. Collector Sewer: ___ units ___ in . diam.
16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe 1=Gravity 2=Pressure 1=Cast iron or Plastic 2=Other
23. Other manure Storage
24. Ditch
25. Other NR 812 Waste Source

5. Drillhole Dimensions and Construction Method

Dia.(in.)	From (ft)	To (ft)
18.0	surface	48
17.0	47	795
12.0	795	805

Upper Enlarged Drillhole — Lower Open Bedrock
-- 1. Rotary - Mud Circulation
-- 2. Rotary - Air
-- 3. Rotary - Air and Foam
-- 4. Drill-Through Casing Hammer
-- 5. Reverse Rotary
-- 6. Cable-tool Bit _____ in. dia
-- 7. Temp. Outer Casing _____ in. dia. _____ depth ft. Removed ?
Other

6. Casing Liner Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
18.0	A53B WELDED 0375 WALL	surface	48
12.0	A53B 0375 WALL WELDED	2	320

Dia.(in.)	Screen type, material & slot size	From	To

8. Geology

Geology Codes	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
R_C_	CLAY	0	45
_LL_	DOLOMITE SINNIPEE	45	175
_NL_	DOLOMITE @ SANDSTONE STP	175	185
E_HS	SHALE STP	185	195
__L_	DOLOMITE PDC	195	250
G_N_	SANDSTONE PDC	250	270
__LR	DOLOMITE PDC	270	365
P_L_	DOLOMITE COON VALLEY	365	375
R_NL	SANDSTONE COON VALLEY	375	380
O_N_	SANDSTONE VAN OSER	380	395
P_N_	SANDSTONE NORWALK	395	405
__N_	SANDSTONE TUN CITY	405	525

9. Static Water Level
129.0 feet B ground surface A=Above B=Below

11. Well Is:
Grade
0 in. A=Above B=Below
Developed?
Disinfected?
Capped?

10. Pump Test
Pumping level 319.0ft. below surface
Pumping at 790.0GPM 9.00Hrs

7. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
NEAT CEMENT	surface	320.0	

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
If no, explain

13. Initials of Well Constructor or Supervisory Driller | Date Signed

Initials of Drill Rig Operator (Mandatory unless same as above) | Date Signed

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Geology Codes	Geology Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
R_C_	CLAY	0	45
_LL_	DOLOMITE SINNIPEE	45	175
_NL_	DOLOMITE @ SANDSTONE STP	175	185
E_HS	SHALE STP	185	195
__L_	DOLOMITE PDC	195	250
G_N_	SANDSTONE PDC	250	270
__LR	DOLOMITE PDC	270	365
P_L_	DOLOMITE COON VALLEY	365	375
R_NL	SANDSTONE COON VALLEY	375	380
O_N_	SANDSTONE VAN OSER	380	395
P_N_	SANDSTONE NORWALK	395	405
__N_	SANDSTONE TUN CITY	405	525
I_N_	SANDSTONE ELK MOUND	525	715
P_N_	SANDSTONE ELK MOUND	715	795
R_Q_	SYENITE PC	795	805

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WISCONSIN UNIQUE WELL NUMBER
SOURCE: WELL CONSTRUCTION **NG591**

State of Wi-Private Water Systems-DG/2
Department Of Natural Resources, Box 7921
Madison, WI 53707

Form 3300-77A
(Rev 12/00)

Property Owner: LITTLE CHUTE, VILLAGE OF
Telephone Number: 920 – 788 – 7380
Depth 750 FT

Mailing Address: 108 W MAIN ST

City: LITTLE CHUTE | State: WI | Zip Code: 54140

County of Well Location: 45 OUTAGAMIE | NE | Co Well Permit No W | Well Completion Date: January 18, 1999

Well Constructor: SAMS ROTARY | License #: 370 | Facility ID (Public): 445033820

Address: PO BOX 150 | Public Well Plan Approval#: 98-1023

City: RANDOLPH | State: WI | Zip Code: 53956 | Date Of Approval: 08/04/1998

Hicap Well #: | Common Well # 004 | 25.6 gpm/ft

1. Well Location
T T=Town C=City V=Village of LITTLE CHUTE | Fire#
Street Address or Road Name and Number: EVER GREEN DR
Subdivision Name | Lot# | Block #
Gov't Lot | or NW 1/4 of NW 1/4 of
Section 15 T 21 N R 18 E
Latitude Deg. 44 Min. 18.0329
Longitude Deg 88 Min. 18.4465

2. Well Type 1 (1=New, 2=Replacement, 3=Reconstruction) (See item 12 below)
Lat/Long Method: GPS004
of previous unique well # _____ constructed in _____
Reason for replaced or reconstructed Well? NQ265
HICAP # 2877. FILE # 45-9-5.

3. Well Serves # of homes and or **MUNICIPALITY WELL #4** (eg: barn, restaurant, church, school, industry, etc.)
M (M=Municipal O=OTM N=NonCom P=Private Z=Other X=NonPot A=Anode L=Loop H=Drillhole)
High Capacity: Well? Y Property? Y
1 (1=Drilled 2=Driven Point 3=Jetted 4=Other)

4. Is the well located upslope or sideslope and not downslope from any contamination sources, including those on neighboring properties? Y
Well located in floodplain? N
Distance in feet from well to nearest: (including proposed)

1. Landfill
2. Building Overhang
3. 1=Septic 2= Holding Tank
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. 1=Shoreline 2= Swimming Pool
9. Downspout/ Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain 1=Cast Iron or Plastic 2=Other
14. Building Sewer 1=Gravity 2=Pressure 1=Cast Iron or Plastic 2=Other
15. Collector Sewer: ___ units ___ in . diam.
16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe 1=Gravity 2=Pressure 1=Cast iron or Plastic 2=Other
23. Other manure Storage
24. Ditch
25. Other NR 812 Waste Source

5. Drillhole Dimensions and Construction Method

Dia.(in.)	From (ft)	To (ft)
19.0	surface	449
15.0	449	750

Upper Enlarged Drillhole / Lower Open Bedrock
-- 1. Rotary - Mud Circulation
X -- 2. Rotary - Air
-- 3. Rotary - Air and Foam
-- 4. Drill-Through Casing Hammer
-- 5. Reverse Rotary
-- 6. Cable-tool Bit _____ in. dia
-- 7. Temp. Outer Casing _____ in. dia. _____ depth ft. Removed ?
Other

6. Casing Liner Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
16.0	STD BLK PIPE .375 WALL WELD JTS GENEVA	surface	449
20.0	STD BLK PIPE .375 WELL WELD JTS A53 SAWHILL - BARBER RIG	0	47

Dia.(in.)	Screen type, material & slot size	From	To

7. Grout or Other Sealing Material From # (Grout)

8. Geology

Geology Codes	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
_C_	CLAY	0	6
_Z_	CLAY W/GRAVEL	6	45
_BL_	BROKEN LIMEROCK	45	50
_L_	LIMEROCK	50	380
_LH	SHALEY LIMEROCK	380	395
_L_	LIMEROCK	395	405
_LH	SHALEY LIMEROCK	405	435
_L_	LIMEROCK	435	490
_N_	SANDROCK	490	530
_N_	SANDROCK	490	530
_NH	SHALEY SANDROCK	530	540
_N_	SANDROCK	540	640

9. Static Water Level
155.0 feet B ground surface A=Above B=Below

10. Pump Test
Pumping level 205.8ft. below surface
Pumping at 1300GPM 12.0Hrs

11. Well Is: A Grade
24 in. A=Above B=Below
Developed? Y
Disinfected? Y
Capped? Y

12. Did you notify the owner of the need to permanently abandon and fill all

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Method	BRADENHEAD/TREMIE Kind of Sealing Material	From (ft.)	To (ft.)	Sacks Cement
	CEMENT (TREMIE)	surface	50.0	75 S
	(BRAEDONHEAD)	50.0	449.0	325 S

unused wells on this property?

If no, explain

13. Initials of Well Constructor or Supervisory Driller SVJ — Date Signed 8/13/99

Initials of Drill Rig Operator (Mandatory unless same as above) RH — Date Signed 8/13/99

Additonal Comments? Y Variance Issued?

Owner Sent Label? Y More Geology?

Batch 714

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NG591

Geology Codes	Geology Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
__C_	CLAY	0	6
__Z_	CLAY W/GRAVEL	6	45
_BL_	BROKEN LIMEROCK	45	50
__L_	LIMEROCK	50	380
__LH	SHALEY LIMEROCK	380	395
__L_	LIMEROCK	395	405
__LH	SHALEY LIMEROCK	405	435
__L_	LIMEROCK	435	490
__N_	SANDROCK	490	530
__N_	SANDROCK	490	530
__NH	SHALEY SANDROCK	530	540
__N_	SANDROCK	540	640
_SN_	SOFT SANDROCK	640	680
__N_	SANDROCK	680	690
R_N_	RED SANDROCK	690	735
__N_	SANDROCK	735	750

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Item For Consideration

For Commission Review On: 01/20/2026 **Prepared On:** 01/14/2026
Agenda Item Topic: Comment/Accept Final Water Evaluation Report

Prepared By: Jerry Verstegen

Report: McMahon will provide an overview of the final evaluation. The goal is to further develop the distribution system modeling providing a recommendation that includes opinions of probable cost for budgetary impacts.

Fiscal Impact:

The water tower was identified as a Tax Incremental District 7 expense. The expenditure period for this district ends July 18, 2033.

All other identified future priority items in the study will be a direct water utility cost.

Recommendation/Commission Action: Comment/Approve final report

Respectfully Submitted,
Jerry Verstegen

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ENGINEERING REPORT

WATER SYSTEM EVALUATION & PLAN UPDATE

FOR THE

Little Chute
ESTABLISHED 1848

VILLAGE OF LITTLE CHUTE | OUTAGAMIE COUNTY, WISCONSIN

NOVEMBER 2025

McMAHON
ENGINEERS ARCHITECTS

McMAHON ASSOCIATES, INC.
1445 McMAHON DRIVE NEENAH, WI 54956 Mailing: PO BOX 1025 NEENAH, WI 54957-1025 PH 920.751.4200 MCMGRP.COM
McM. No. L0001-092500305 / ASK:jlh

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WATER SYSTEM EVALUATION & PLAN UPDATE

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ENGINEERING REPORT

WATER SYSTEM EVALUATION & PLAN UPDATE

VILLAGE OF LITTLE CHUTE
OUTAGAMIE COUNTY, WISCONSIN

NOVEMBER, 2025
McM No. L0001-09-25-00305

I. INTRODUCTION

The Village of Little Chute is located in the Heart of the Valley area of the Fox Cities in northeastern Wisconsin. For many years, the Village was predominately a residential community consisting of single-family homes. The community has experienced steady growth with more recent industrial development occurring both south and north of Interstate 41 (I-41) and residential multi-family development north of I-41.

A Water System Evaluation and Plan was previously prepared by McMahon Associates, Inc. (McMahon) for the Village in 2017, which projected water demands based on a year 2030 projected population of 11,100 residents. With industrial development and the Village's current population increasing above 12,000 residents, the Village has outgrown the 2017 Water System Evaluation and Plan and an update to the Plan is needed.

II. WATER SYSTEM DESCRIPTION

A. General

The Village of Little Chute water system primarily consists of the following components:

- Three Wells – Well #1, Well #3 and Well #4
- Three Ion Exchange Softening Treatment Plants
- Three Ground Level Water Storage Reservoirs – 200,000, 300,000 and 500,000-gallon
- Six Booster Pumps
- Two Elevated Water Towers – 250,000 and 300,000-gallon
- Water Distribution System

A schematic of the operation of water system is provided on Figure #1. A current map of the distribution system identifying the system components is provided on Figure #2.

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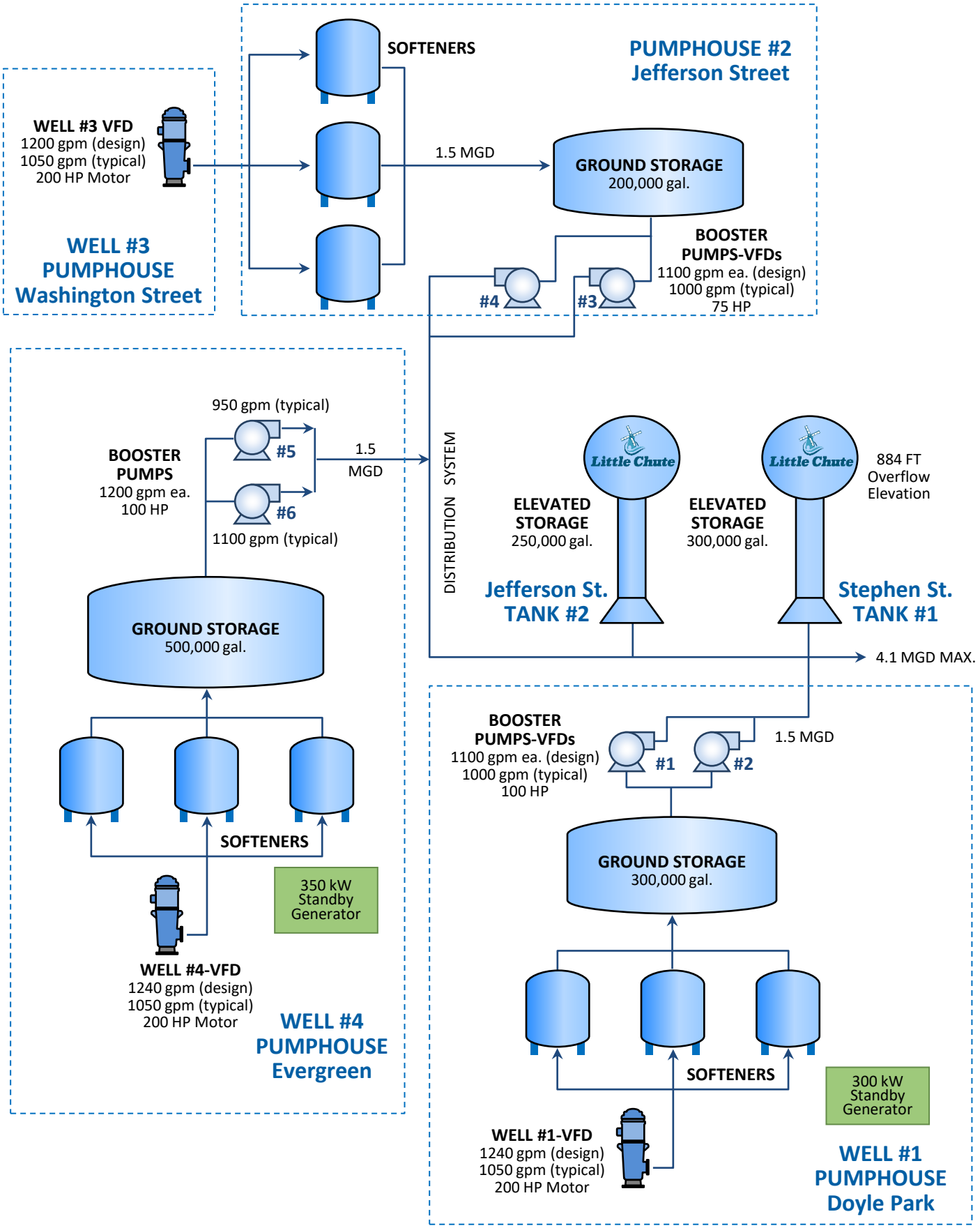

FIGURE #1

WATER SYSTEM SCHEMATIC

WATER SYSTEM EVALUATION &

VILLAGE OF LITTLE CHUTE, WISCONSIN

McM #L0001-09-25-00305 7/31/25

ID: LITTLE CHUTE WATER SYSTEM EVAL FIG 1 SCHEMATIC.PPTX ASK:jmk

McMAHON ENGINEERS ARCHITECTS

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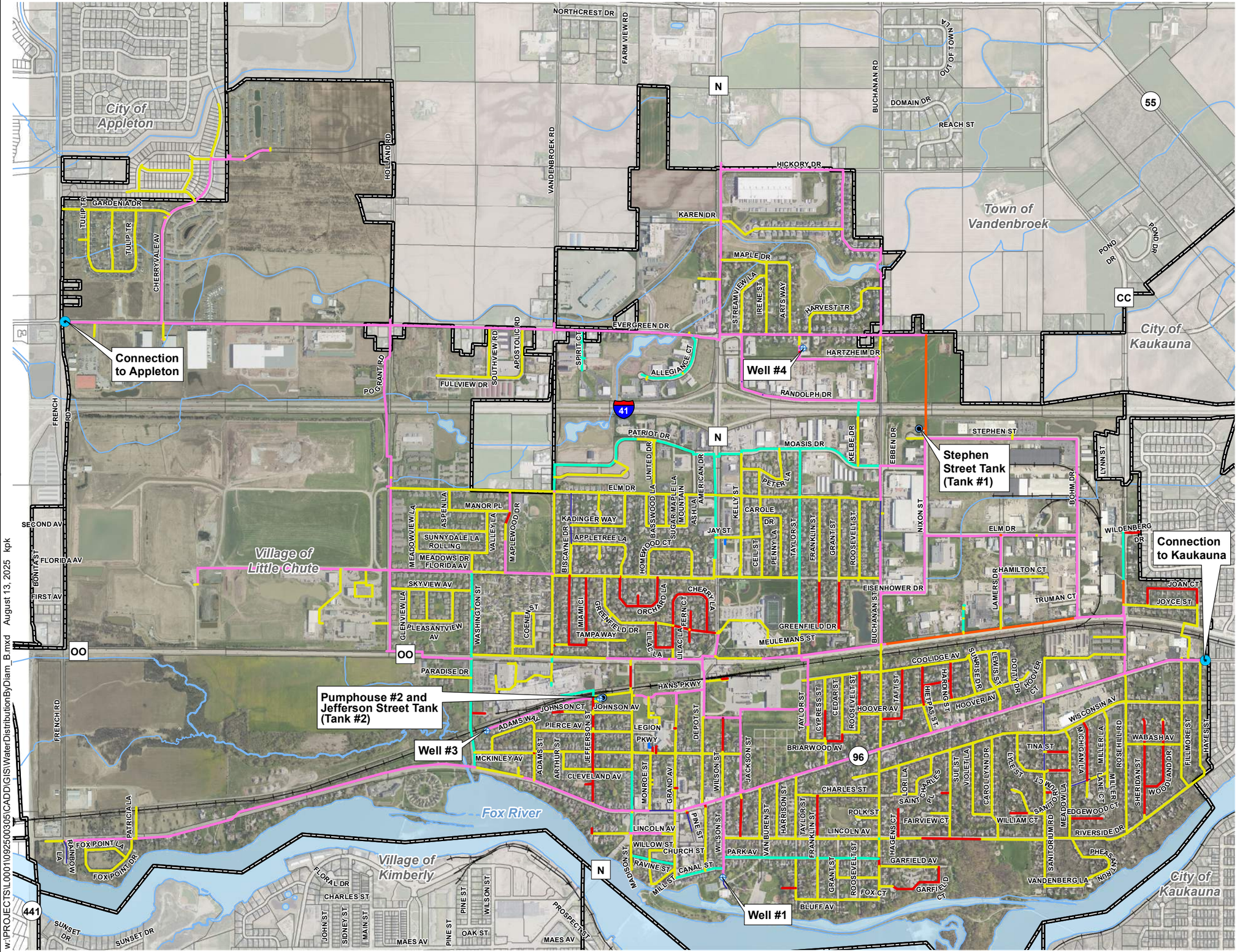

Little Chute
ESTABLISHED 1848

Water Distribution System (By Diameter)

- 4 inch
- 6 inch
- 8 inch
- 10 inch
- 12 inch
- 16 inch

Other Mapped Features

- Connection Point
- Elevated Tank
- Well
- Municipal Boundary
- Parcel or Right-of-Way Line
- Railroad Centerline
- Stream
- Surface Water

Source: Outagamie County, 2023-25.

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0 1,500 3,000 Feet

McMAHON ENGINEERS ARCHITECTS
McMAHON ASSOCIATES, INC.

FIGURE 2
2025 WATER DISTRIBUTION SYSTEM BY DIAMETER
WATER SYSTEM EVALUATION AND PLAN UPDATE
VILLAGE OF LITTLE CHUTE
OUTAGAMIE COUNTY, WISCONSIN

w:\PROJECTS\L0001\09250030S\CADD\GIS\WaterDistributionByDiam_B.mxd August 13, 2025 kpk

B. Water System Facilities

Well construction information is summarized in Table #1 and the well construction logs are provided in Appendix #1. The capacity of the booster pumping equipment is presented in Table #2. Softener facility data is provided in Table #3. A summary table of the storage facilities is provided in Table #4. A general description of the facilities is provided in the following sections.

1. Well #1 Pumphouse – Doyle Park

The Well #1 Pumphouse is located at Doyle Park in the southern area of the Village. The facility houses Well #1, the ion exchange softening system, a 300,000-gallon ground level water storage reservoir and two booster pumps. Well #1 is a 12-inch diameter well, originally constructed in 1923 and later deepened to 724-feet in 1950. Raw water from Well #1 is treated using the onsite ion exchange softening shells. Treated water is stored in the 300,000-gallon ground reservoir prior to distribution by the two booster pumps (Booster Pumps #1 and #2).

An extensive improvement project was completed at the Well #1 Pumphouse in 2017, including:

- Rehabilitation of the well pumping equipment and replacement of the booster pump motors.
- Replacement of the softeners to increase the efficiencies and decrease salt use/chloride discharges.
- Redirection of softener regeneration brine cycle, slow rinse and fast rinse wastewater to the sanitary sewer.
- Installation of a new 300 kW diesel generator with an automatic transfer switch.

2. Pumphouse #2 (Jefferson Street) & Well #3 (Washington Street)

Pumphouse #2 is located at the north end of Jefferson Street at the railroad tracks. Well #2 was previously abandoned, but the ion exchange softeners and booster pumping equipment is still housed in the pumphouse. Well #3 is located on Washington Street, approximately 2,000-feet west of Pumphouse #2. This 12-inch well was originally constructed in 1973. Raw water from Well #3 is pumped to Pumphouse #2 for treatment and distribution to the system. Treated water is stored in the 200,000-gallon ground reservoir prior to distribution by the two booster pumps (Booster Pumps #3 and #4).

Table #1

WELL CONSTRUCTION & WELL PUMP DATA
WATER SYSTEM EVALUTION & PLAN UPDATE
Village of Little Chute | Outagamie County, Wisconsin

		Well Depth	Casing Data	Pump Install Data	Design Capacity	Pump Setting	Motor Install Data	Auxiliary Power
WELL #1		734-feet	12-inch: 0 - 102-feet	2017 - Goulds 12 CHC 6-Stage	1,400 gpm	280-feet	200-HP	Diesel Generator
BG 582					Typical Operating Capacity: 1,050 gpm		1997 - Aurora	
Constructed	1950							
WELL #3		805-feet	18-inch: 0 - 48-feet	2021- Goulds 12 CHC 7-Stage	1,300 gpm	430-feet	200-HP	None
BG 584			12-inch: 2 - 320-feet		Typical Operating Capacity: 1,050 gpm		1992	
Constructed	1974							
WELL #4		750-feet	20-inch: 0 - 47-feet	2018 - Goulds 12 CHC 6-Stage	1,100 gpm	430-feet	200-HP	Diesel Generator
NG 591			16-inch: 0 - 449-feet		Typical Operating Capacity: 1,050 gpm		2009 - GE	
Constructed	1999							

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Table #2

BOOSTER PUMPING EQUIPMENT

WATER SYSTEM EVALUATION & PLAN UPDATE

Village of Little Chute | Outagamie County, Wisconsin

	Location	Motor	Motor Mfg.	VFD/Soft	Installed/Built	Design Capacity	Typical Capacity	TDH	Auxiliary Power
Booster #1	Well House #1 - 100 VanBuren Street	100-HP	US Motor	VFD	2017	1,100 gpm	1,050 gpm	196	Diesel Generator
Booster #2	Well House #1 - 100 VanBuren Street	100-HP	US Motor	VFD	2017	1,100 gpm	1,050 gpm	196	Diesel Generator
Booster #3	Pumphouse #2 - 1118 Jefferson Street	75-HP	US Motor	VFD	1992	1,100 gpm	1,000 gpm	154	None
Booster #4	Pumphouse #2 - 1118 Jefferson Street	75-HP	US Motor	VFD	2014	1,100 gpm	1,000 gpm	154	None
Booster #5	Well House #4 - 625 E Evergreen	100-HP	US Motor	Soft	2001	1,200 gpm	950 gpm	174	Diesel Generator
Booster #6	Well House #4 - 625 E Evergreen	100-HP	US Motor	Soft	2001	1,200 gpm	1,100 gpm	174	Diesel Generator

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Table #3

SOFTENER FACILITIES

WATER SYSTEM EVALUATION & PLAN UPDATE

Village of Little Chute | Outagamie County, Wisconsin

ID Tag	Location	Year Installed / Built	Design Resin (cu.ft.)	Actual Resin (cu.ft.)	Resin Removal	Hardness	Design Regeneration Setpoint	Actual Regeneration Setpoint
Well #1 - Shell #1	Well House #1	2017	230	230	19,000	24	182,083	154,000
Well #1 - Shell #2	Well House #1	2017	230	230	19,000	24	182,083	154,000
Well #1 - Shell #3	Well House #1	2017	230	230	19,000	24	182,083	154,000
Pump #2 - Shell #1	Pumphouse #2	1992	260	260	20,000	22	236,364	180,000
Pump #2 - Shell #2	Pumphouse #2	1992	260	260	20,000	22	236,364	180,000
Pump #2 - Shell #3	Pumphouse #2	1950 / Rehab 2002	260	260	20,000	22	236,364	180,000
Well #4 - Shell #1	Well House #4	2001	320	320	20,000	34	188,235	150,000
Well #4 - Shell #2	Well House #4	2001	320	320	20,000	34	188,235	150,000
Well #4 - Shell #3	Well House #4	2001	320	320	20,000	34	188,235	150,000

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Table #4

SUMMARY OF WATER STORAGE FACILITIES

WATER SYSTEM EVALUATION & PLAN UPDATE

Village of Little Chute | Outagamie County, Wisconsin

Location	Capacity	Year Constructed
Elevated Tanks		
Tank #1 - Stephen Street	300,000-gal	2002
Tank #2 - Jefferson Street	250,000-gal	1967
Ground Reservoirs		
Reservoir #1 - Well #1	300,000-gal	1979
Reservoir #2 - Pumphouse #2	200,000-gal	1952
Reservoir #3 - Well #4	500,000-gal	2001

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3. Well #4 Pumphouse – Evergreen Drive

Located on the north side of I-41, the Well #4 Pumphouse was constructed in 2000. The pumphouse houses Well #4, three softener shells and two booster pumps (Booster Pumps #5 and #6). There is also a 500,000-gallon ground storage tank at this location.

4. System Storage

The storage facilities in the Little Chute system include both elevated storage and ground storage reservoirs. The ground storage reservoirs are located at each pump station, as previously mentioned. Treated water is discharged to each reservoir and then pumped into the system via the booster pumps.

Elevated storage serves two purposes in a water system: 1) Maintains system pressure; and 2) Provides reserve capacity for fire protection supply and for peak demands.

There are two elevated water towers in the system:

- Stephen Street - Elevated Tower #1 ..... 300,000-gallon
- Pumphouse #2 - Jefferson Street - Elevated Tower #2 ..... 250,000-gallon

C. Water Distribution System

The Village of Little Chute water distribution system (See Figure #2) consists of approximately 61-miles of water main, ranging in size from 4-inch to 16-inch. A summary of the pipe diameters and lengths is summarized in Table #5. Approximately 15,600-feet or about 3-miles of new water main has been installed since 2016, primarily to serve new development north of I-41 and immediately adjacent to I-41 to the south.

The transmission system consists of the larger diameter water mains that convey the majority of water through the distribution system and should connect the supply and storage components of the system. The Little Chute transmission system consists of 10, 12 and 16-inch diameter water mains and is highlighted on Figure #2.

The Village of Little Chute and the City of Appleton water distribution systems are connected for emergency purposes at the intersection of Evergreen Drive and French Road. Currently, the connection consists of two gate valves, which are operated manually in the event of an emergency. There are no metering facilities on the connection. The hydraulic grade line of the Appleton system is 914 and the grade line of the Little Chute system is 884. Therefore, the Appleton system can provide water to the Little Chute system without pumping.

Table #5

WATER MAIN DATA
FEET OF MAIN / AGE OF MAIN
WATER SYSTEM EVALUATION & PLAN UPDATE
Village of Little Chute | Outagamie County, Wisconsin

Pipe Size	1920-1940 (feet)	1941-1960 (feet)	1961-1970 (feet)	1971-1980 (feet)	1981-1990 (feet)	1991-2000 (feet)	2001-2010 (feet)	2011-2020 (feet)	2021-2030 (feet)	Total (feet)
4-inch	290	306				68				664
6-inch	3,071	5,680	7,247	13,130	1,267	1,560	1,108	2,262	372	35,697
8-inch	3,057	8,570	10,543	31,760	16,731	18,060	42,085	29,247	6,831	166,884
10-inch	1,621	4,522		1,105	1,517	1,526	7,474	2,898		20,663
12-inch	70		2,653	10,295	13,276	12,480	26,824	20,061	6,100	91,759
16-inch				3,520	677	1,663	331		2	6,193
Total	**8,109**	**19,078**	**20,443**	**59,810**	**33,468**	**35,357**	**77,822**	**54,468**	**13,305**	**321,860**
										61-miles

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The Village's distribution system is also connected to the Kaukauna Utilities' water system at East Main Street at Hayes Street. The connection is the same as the connection to the Appleton system, in that valves are operated manually to open the connection and there are no metering facilities. The hydraulic grade line of the Kaukauna system is 865, which is about 19-feet lower than the Little Chute system. Therefore, the Little Chute system can provide water to Kaukauna, but the Kaukauna system cannot provide water to Little Chute without pumping to maintain current operating conditions. However, the hydraulic grade line of the Kaukauna system is about 13-feet above the "low level" of Little Chute's towers and, therefore, could be used in an emergency.

D. System Operation

The main controls for the water system are housed at the Well #4 Pumphouse. Booster pumps are called to operate based on the water level in the Jefferson Street tank. The Stephen Street tank was previously used for control because the Jefferson Street tank level is heavily influenced by its proximity to Pumphouse #2. However, the Stephen Street tank is drawn down faster than the Jefferson Street tank due to the increased demand in the north side of the system. Control using the Stephen Street tank results in overflow of the Jefferson Street tank well before the Stephen Street tank reaches its high level setpoint.

The booster pumps are currently controlled using an operating range of the top 5-feet of the elevated tanks. There are two control matrixes, one for daytime or "on-peak" operation (5:00 am to 7:00 pm) and the other for nighttime or "off-peak" operation (7:00 pm to 5:00 am) using six overlapping level control stages with setpoints between the 5-foot operating range.

The controls are generally set so that only one booster pump at each pumphouse runs at a time. If demand cannot be met with one pump, a second pump at a different station is automatically started. If there is additional demand on the system, a third pump at still another station would be started. All boosters are operated alternately, so each booster is used regularly. The lead booster pump is rotated between Booster Pumps #1, #2, #3, and #4 during on-peak operation. Booster Pumps #5 and #6 are normally reserved for off-peak operation to save on energy costs. All of the booster pumps are operated at the same rate, so the supply is consistent. There is usually at least one pump running 24-hours, 7-days a week. During on-peak hours, a second pump is always called to run and sometimes a third. There is usually only one pump running during off-peak hours.

The operation of the well pumps is regulated by the water level in the respective reservoir. The booster pumps at the Well #1 Pumphouse and Pumphouse #2, match the well pump flow rate which is normally 1,050 gpm with all softener shells in operation and 950 gpm with a softener in regeneration. The booster pumps at the Well #4 Pumphouse operate at a constant flow rate of 1,175 gpm. The regeneration of the softeners does not cause a bottleneck at any of the pumphouses.

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III. FUTURE NEEDS

A. Water System Service Area

The Village of Little Chute is in a desirable location with easy access to I-41. The community has experienced both residential and non-residential growth recently, and it is anticipated that the growth will continue. The water distribution system is already well developed in the southeastern portion of the service area and continues to expand north of I-41.

The future water service area is highlighted on Figure #3 and is located as follows:

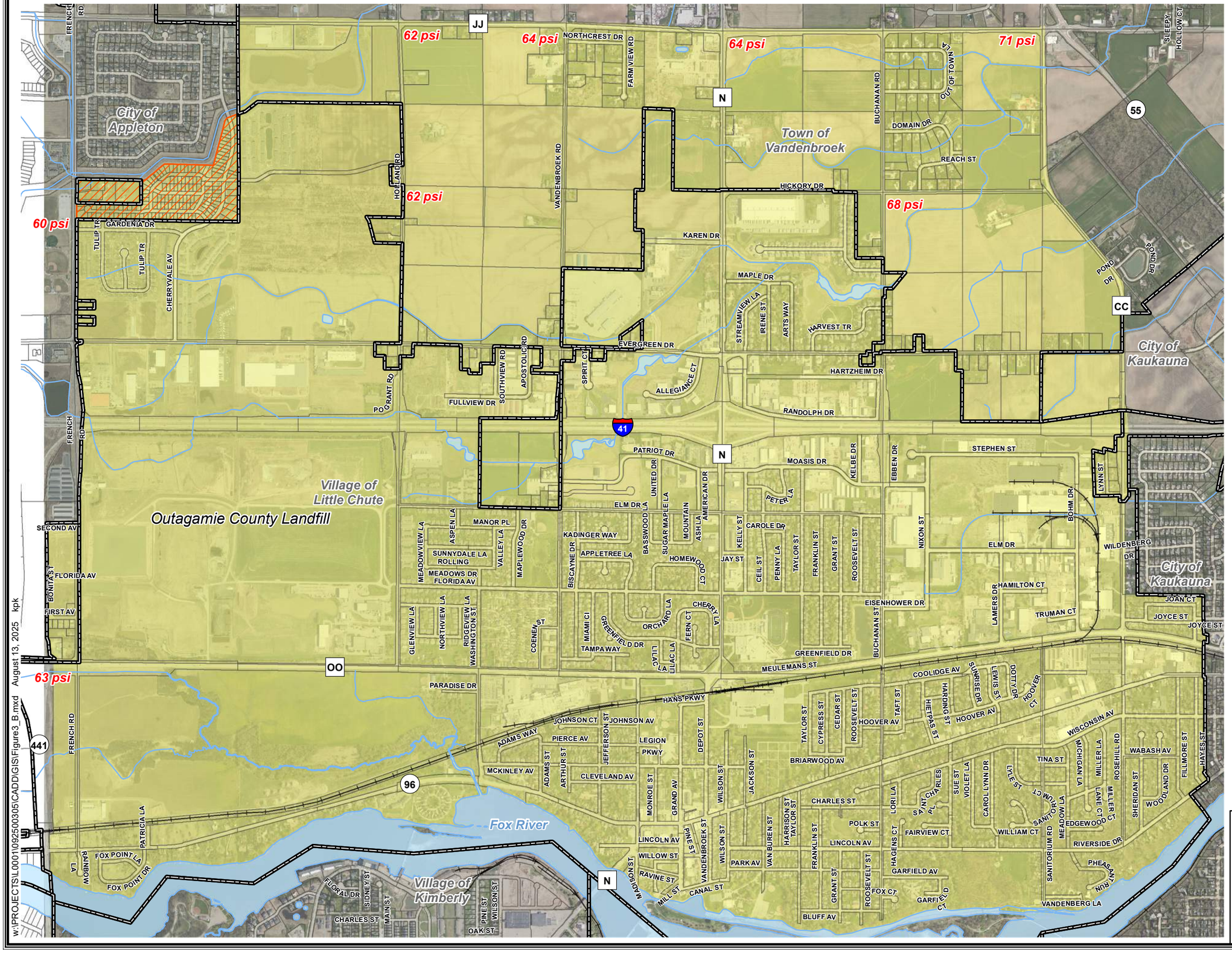
- South Boundary – Fox River
- West Boundary – French Road and HWY 441
- North Boundary – CTH JJ and Gardenia Drive
- East Boundary – CTH CC, Rosehill Road and Hayes Street

A Comprehensive Plan 2016 - 2036 was completed for the Village by Martenson & Eisele in July 2016. The Plan presents anticipated growth and land use projected for the community. A copy of the Future Land Use Map is presented on Figure #4. As stated in the Comprehensive Plan, the strongest opportunities for commercial development are on both sides of I-41. Industrial development should be promoted in the Little Chute Industrial Park and on the south side of North Avenue (CTH OO), across from the Outagamie Recycling & Solid Waste Facility. There are relatively few limitations on development in the planning area caused by natural resources, such as steep slopes, soil conditions or large bodies of surface water. The following land needs projection is presented in the Comprehensive Plan:

"Based on historical ratios of the number of residents per acre of a specific land use, by 2025 the Village will need an additional 120-acres for residential development, 7-acres for commercial development and 7-acres for industrial development. However, due to the Village's location along I-41, demand is far exceeding the ratios."

Population projections for the years 2020 through 2030 were previously developed in 2013 for the State of Wisconsin by the Department of Administration (DOA) and reported in the Village's Comprehensive Plan.

- 2000 Census..... 10,476
- 2010 Census..... 10,449
- 2020 10,740
- 2025 10,950
- 2030 11,100



Note: System Hydraulic Grade Line - 884

Source: Outagamie County, 2023-25.

Disclaimer: The property lines, right-of-way lines, and other property information on this drawing were developed or obtained as part of the County Geographic Information System or through the County property tax mapping function. McMAHON ASSOCIATES, INC. does not guarantee this information to be correct, current, or complete. The property and right-of-way information are only intended for use as a general reference and are not intended or suitable for site-specific uses. Any use to the contrary of the above stated uses is the responsibility of the user and such use is at the user's own risk.

0 1,500 3,000 Feet

McMAHON ENGINEERS ARCHITECTS
McMAHON ASSOCIATES, INC.

FIGURE 3
WATER SYSTEM SERVICE AREA
WATER SYSTEM EVALUATION
AND PLAN UPDATE
VILLAGE OF LITTLE CHUTE
OUTAGAMIE COUNTY, WISCONSIN

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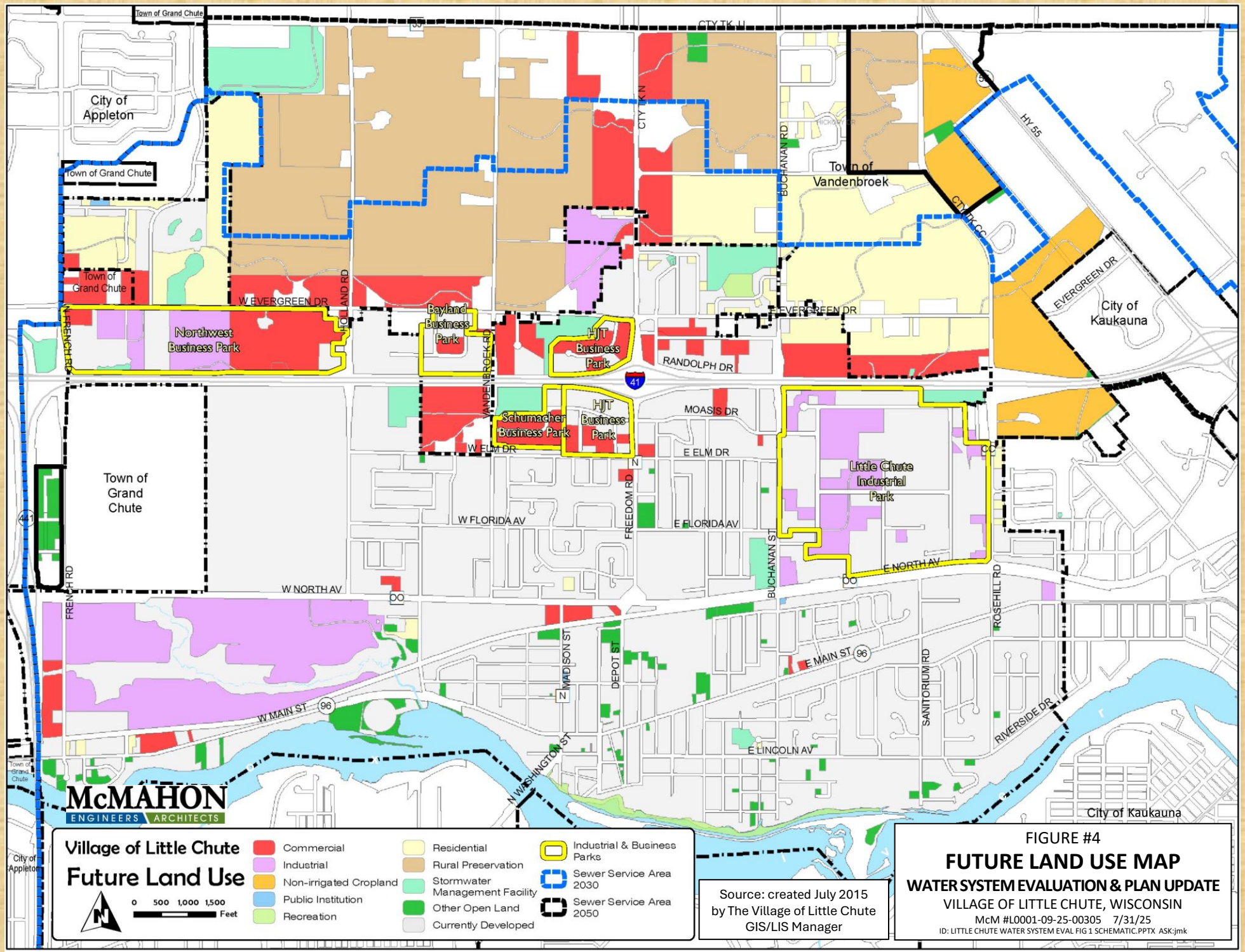
Town of Grand Chute
City of Appleton
Town of Grand Chute
Town of Grand Chute
W EVERGREEN DR
HOLLAND RD
Northwest Business Park
Bayland Business Park
VANDENBROEK RD
HJT Business Park
RANDOLPH DR
Town of Vandenbroek
BUCHANAN RD
HY 55
EVERGREEN DR
City of Kaukauna
Schumacher Business Park
HJT Business Park
MOASIS DR
W ELM DR
E ELM DR
Town of Grand Chute
Little Chute Industrial Park
W FLORIDA AV
E FLORIDA AV
FREEDOM RD
W NORTH AV
E NORTH AV
FRENCH RD
BUCHANAN ST
ROSEHILL RD
MADISON ST
DEPOT ST
E MAIN ST
W MAIN ST
SANITORIUM RD
RIVERSIDE DR
E LINCOLN AV
N WASHINGTON ST
City of Kaukauna
City of Appleton
McMAHON
ENGINEERS ARCHITECTS
Village of Little Chute
Future Land Use
0 500 1,000 1,500 Feet
Commercial
Industrial
Non-irrigated Cropland
Public Institution
Recreation
Residential
Rural Preservation
Stormwater Management Facility
Other Open Land
Currently Developed
Industrial & Business Parks
Sewer Service Area 2030
Sewer Service Area 2050
Source: created July 2015 by The Village of Little Chute GIS/LIS Manager
FIGURE #4
FUTURE LAND USE MAP
WATER SYSTEM EVALUATION & PLAN UPDATE
VILLAGE OF LITTLE CHUTE, WISCONSIN
McM #L0001-09-25-00305 7/31/25
ID: LITTLE CHUTE WATER SYSTEM EVAL FIG 1 SCHEMATIC.PPTX ASK:jmk

Updated population projections through year 2050 were recently produced by the DOA in 2024 based on the 2020 Census data.

- 2020 Census..... 11,619
- 2030 12,896
- 2040 14,109
- 2050 14,859

With a 2020 Census population of 11,619, the Village's population has well exceeded the previous projections used in the Comprehensive Plan and the 2017 Water System Evaluation and Plan for the Village of Little Chute . These most recent projections indicate that the Village's population is expected to increase to almost 12,900 people by year 2030 compared to the projected 2030 population of 11,100 from 2013. With an estimated population of 12,178 in 2023, the Village is well on its way to meeting the current year 2030 projection and may still be exceeding projections.

1. Water System Demands

a. Water Demand History

A summary of the Village of Little Chute's historical water system demands over the previous five years (2020 through 2024) are presented in Table #6. A graph of Village's average and maximum day demands compared to the number of water system customers from 2015 through 2024 is provided in Figure #5. A graph of Village's average day demands by customer category from 2015 through 2024 is provided in Figure #6.

The annual Average Day Demand (ADD) and Maximum Day Demand (MDD) slightly decreased over the period between 2015 through 2019, while the number of customers increased by over 200 (4,335 to 4,543) over the same 5-year period. In 2015, the ADD was 1.22 mgd and the MDD was 1.845 mgd while in 2019, the ADD was 1.141 mgd and the average MDD was 1.505 mgd. The decrease in demand from previous years can likely be attributed to residential customers installing water saving plumbing fixtures and appliances, industrial customers implementing water efficiency methods, and ultimately the beginning of the COVID-19 pandemic.

In 2020, the ADD and MDD increased to levels slightly above those observed in 2015 before the observed decrease in demands to the 2019 low. Demands remained stable from 2020 through 2022 despite an increase of 131 total customers. This was followed by sharp increase in both ADD and MDD from 2022 to 2024. 2024 saw the highest overall water system demand over the 5-year period between 2020 and 2024,

Table #6

HISTORICAL & PROJECTED WATER USAGE
WATER SYSTEM EVALUATION & PLAN UPDATE
Village of Little Chute | Outagamie County, Wisconsin

Customer Classification	2020 No. of Customers	2020 Annual Water Sales (gallons)	2021 No. of Customers	2021 Annual Water Sales (gallons)	2022 No. of Customers	2022 Annual Water Sales (gallons)	2023 No. of Customers	2023 Annual Water Sales (gallons)	2024 No. of Customers	2024 Annual Water Sales (gallons)	OVERALL Change in No. of Customers	OVERALL Change in Water Sales (gallons)	OVERALL % Change in Water Sales (gallons)	2050 Projection Parameters
Residential	4,069	164,375,000	4,128	148,796,000	4,173	146,526,000	4,213	152,098,000	4,234	147,296,000	165	-17,079,000	-10%	
Commercial	363	26,384,000	374	34,928,000	391	40,379,000	399	35,505,000	404	30,926,000	41	4,542,000	17%	
Industrial	32	137,038,000	29	148,001,000	32	154,776,000	32	220,776,000	30	253,307,000	-2	116,269,000	85%	
Public Authority	27	9,194,000	27	8,146,000	28	10,229,000	22	13,604,000	33	10,617,000	6	1,423,000	15%	
Multi-family Residential	52	27,873,000	51	30,660,000	50	32,755,000	52	30,647,000	55	32,121,000	3	4,248,000	15%	
Totals	**4,543**	**364,864,000**	**4,609**	**370,531,000**	**4,674**	**384,665,000**	**4,718**	**452,630,000**	**4,756**	**474,267,000**	**213**	**109,403,000**	**30%**	
												Average		
Population Estimate		11,619		12,170		12,160		12,178		12,364		12,218		**14,859**
Annual Pumpage, gallons		463,173,000		455,439,000		463,208,000		557,840,000		608,099,000		521,146,500		
Average Day, gpd		1,269,000		1,248,000		1,269,000		1,528,000		1,666,000		1,428,000		
Total GPCD		109		103		104		125		**135**		117		**135**
Residential GPCD		39		33		33		34		33		33		
Maximum Day, gpd		1,883,000		2,021,000		1,897,000		2,284,000		2,610,000		2,203,000		
Cause Of Max		Summer Demand		Summer Demand & Main Break		Summer Demand & Main Break		Summer Demand & Main Break		Summer Demand & Main Break				
Max Day Ratio		1.48		**1.62**		1.49		1.49		1.57		1.54		**1.62**
Minimum Day, gpd		720,000		824,000		892,000		1,034,000		1,181,000		982,750		
Total Water Losses		12%		10%		11%		12%		17%		13%		
Non-Revenue Water		21%		19%		17%		19%		22%		19%		

Projected Water Use Parameter	**Avg Day (gpd)**	**Max Day (gpd)**
2050 Population = 14,859	2,006,000 (14,859 x 135 gpcd)	3,249,700 (2.006 mgd x 1.62)
Add 0.5 mgd (Avg. Day Demand)	500,000	810,000 (0.50 mgd x 1.62)
Projected Water Demand With Population Growth + 0.5 mgd	**2,506,000**	**4,059,700**

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Figure #5

HISTORICAL WATER DEMAND

WATER SYSTEM EVALUATION & PLAN UPDATE

Village of Little Chute | Outagamie County, Wisconsin

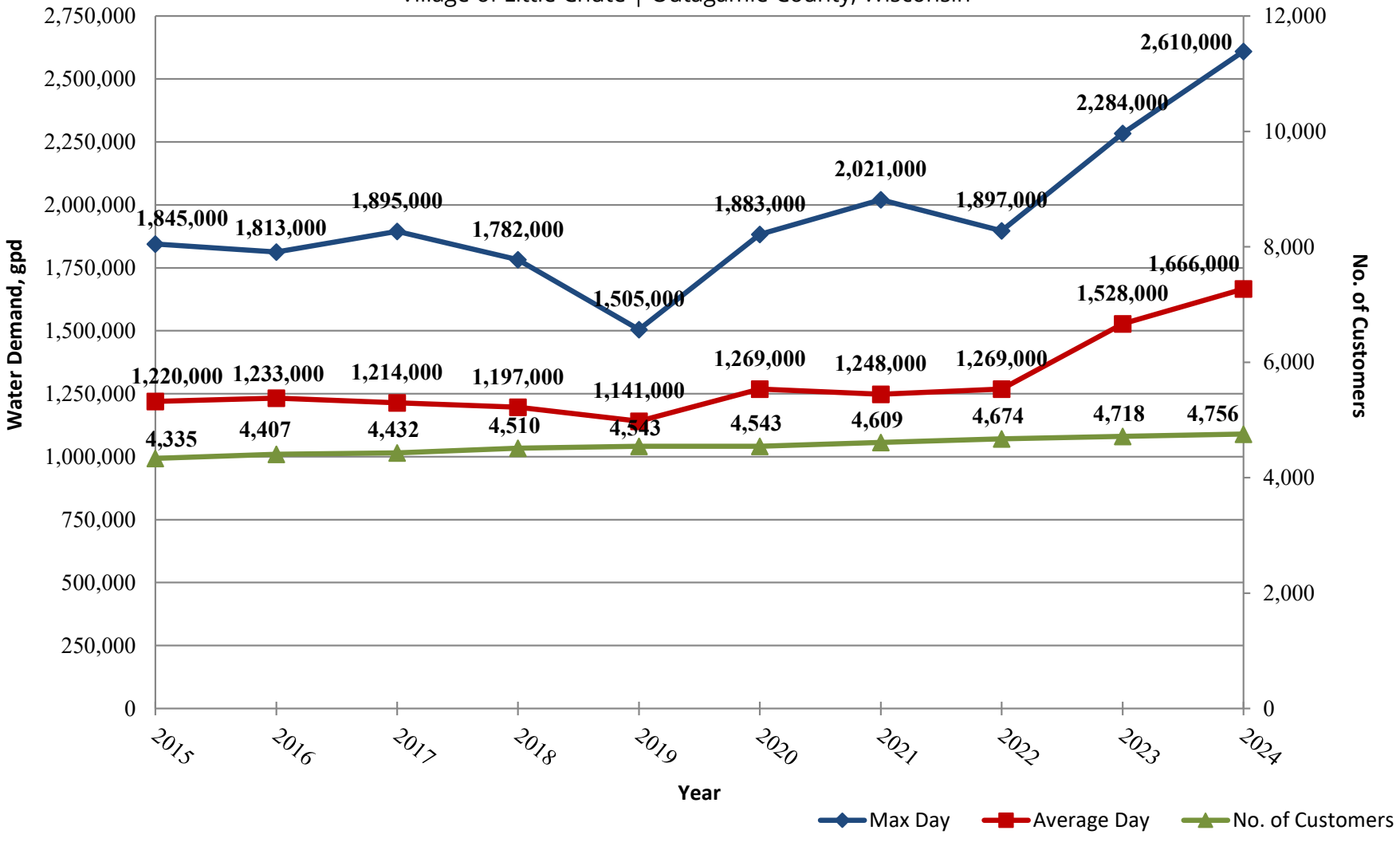
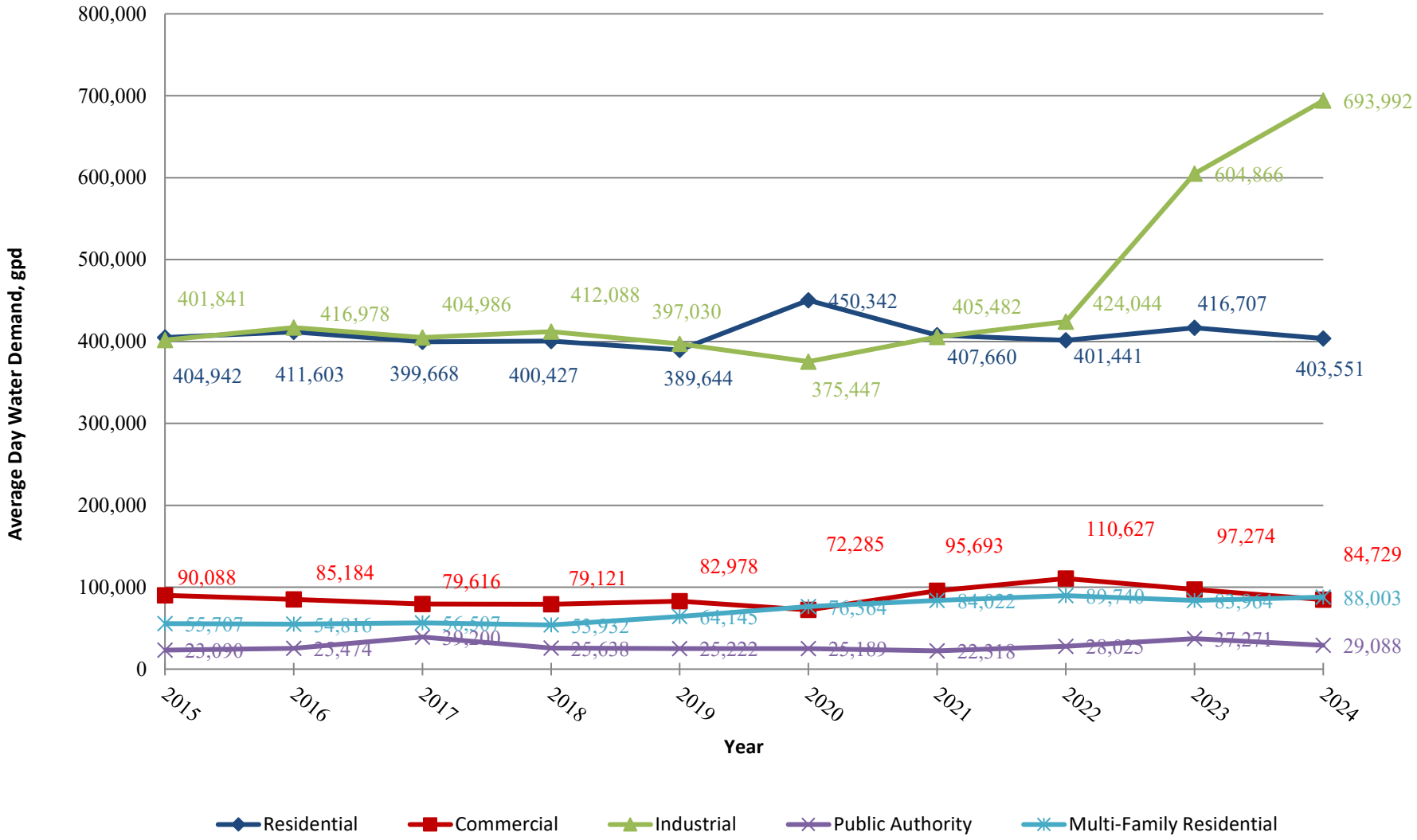


Figure #6

HISTORICAL WATER DEMAND BY CUSTOMER CATEGORY

WATER SYSTEM EVALUATION & PLAN UPDATE

Village of Little Chute | Outagamie County, Wisconsin



with an ADD of 1.666 mgd and an MDD of 2.610 mgd. The total number of customers increased by 213 over this period, with the biggest observed increase in the residential customer category followed by commercial, while the number of industrial customers decreased by two. In terms of water use, residential use decreased by 10% over the 5-year period despite the increase in the number of customers. Industrial water use increased by 85% even with the loss of two customers over the same period.

The following values are of note regarding the Little Chute water system demands:

	2020	2024	5-year Average
Total Water Use, gpcd	109	135	115
Residential Water Usage, gpcd	39	33	34
Average Day Demand, mgd	1.269	1.666	1.396
Maximum Day Demand, mgd	1.883	2.610	2.139

The annual water demands over the past five years for the Village of Little Chute's ten top water users based on 2024 volume are presented in Table #7. The top ten water users for each year (2020 through 2024) ranked in order of revenue, are included in Appendix #2. The list of top customers includes a mix of industrial, commercial, public authority, and multi-family residential users. In 2024, the "top ten" accounted for 58% of the Village's total water demand, up from about 43% in 2020; however, it should be noted that Oh Snap! didn't join the list of top users until 2022 and the Village of Little Chute wasn't included until 2023.

The current (2024) top five industrial water users in order of total water use include Agropur, Inc., Crystal Print, Inc., Nestle USA Inc., Oh Snap! Pickling, LLC, and Bel Brands USA. Agropur, which is currently the top water user and accounts for almost 24% of the total water sold annually, saw a significant increase in water demand in 2023 and 2024, increasing from 52.5 million gallons in 2022 to over 114 million gallons in 2024. Crystal Print also saw a significant increase in water use over the 5-year period from 22 million gallons in 2020 to just under 69 million gallons in 2024. Nestle, the third highest water user, saw a steady decrease in water use over the 5-year period from 67 million gallons in 2020 down to under 47 million gallons in 2024. Oh Snap!, which began production in 2022, has increased its water usage from about 6 million gallons in 2022 to just under 10 million gallons in 2024. Bel Brands saw an increasing trend between 2020 and 2023 before a noticeable decrease in water use in 2024 at around 5.6 million gallons, down from about 7.5 million gallons the previous year.

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Table #7

HISTORICAL WATER DEMANDS FOR TOP 10 CUSTOMERS

WATER SYSTEM EVALUATION & PLAN UPDATE

Village of Little Chute | Outagamie County, Wisconsin

Industrial Customer	2024		2023		2022		2021		2020	
	Annual Total (gal)	% of Total Sales	Annual Total (gal)	% of Total Sales	Annual Total (gal)	% of Total Sales	Annual Total (gal)	% of Total Sales	Annual Total (gal)	% of Total Sales
Agropur, Inc.	114,632,777	24%	109,253,005	24%	52,513,420	14%	53,222,010	14%	48,916,700	13%
Crystal Print Water	68,908,078	15%	35,605,202	8%	25,465,034	7%	21,091,000	6%	22,194,000	6%
Nestle Pizza Division	46,894,866	10%	53,924,476	12%	58,143,021	15%	62,410,430	17%	67,018,570	18%
Lexington Homes, Inc.	15,255,771	3%	14,823,384	3%	14,974,860	4%	10,635,330	3%	6,141,890	2%
Oh Snap! Pickling, LLC	9,809,446	2%	5,889,107	1%	5,956,950	2%	3,366,600**	1%	Not in 2020 Top Ten	
Bel Brands USA	5,601,821	1%	7,492,571	2%	6,635,000	2%	6,290,000	2%	6,144,000	2%
Outagamie County	5,181,890	1%	6,493,001	1%	4,133,343	1%	3,616,000	1%	3,348,000	1%
Hickory Lane MHC WI	3,383,738	1%	5,913,055	1%	5,186,380	1%	2,682,120	1%	2,370,000	1%
Village of Little Chute	3,201,621	1%	4,802,620	1%	Not in 2022 Top Ten		Not in 2021 Top Ten		Not in 2020 Top Ten	
REDJ, LLC	3,106,463	1%	6,418,450*	1%	10,034,050*	3%	5,794,360*	2%	2,317,770*	1%
Total Top 10	**275,976,471**	**58%**	**250,614,871**	**55%**	**183,042,058**	**48%**	**169,107,850**	**46%**	**158,450,930**	**43%**
Total Water Sold	**474,267,000**		**452,630,000**		**384,665,000**		**370,531,000**		**364,864,000**	

* Absolute Supply, LLC - Replaced by REDJ, LLC in the Top 10 in 2024

** GLK Foods, LLC - Owner of Oh Snap!

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The total metered volume of water that is delivered into the distribution system including both water that is sold (revenue water) and water that is not sold (non-revenue water), is monitored and reported in the Public Service Commission of Wisconsin (PSCW) Annual Report. Non-revenue water includes both unbilled-metered water and unbilled-unmetered water (flushing water mains and fire protection), as well as water lost due to system leaks or breaks. During a given year, efforts are made to track and estimate the quantity of non-revenue water. The amount that cannot be accounted for is reviewed and monitored on an annual basis because this represents lost revenue for the system.

Non-revenue water and total water losses as a percentage of the total volume of water delivered to the distribution system between the years 2020 and 2024 is included in Table #6. Over the last five years, non-revenue water has averaged approximately 20% while total water losses have averaged 12%. The highest total water loss occurred in 2024 at 17% of the total annual pumpage.

The PSCW recommends system losses be maintained below 15%. If the losses exceed 15%, the PSCW may require that actions be taken to reduce water loss. Actions that may be taken include:

- Verify the accuracy of master and customer meters.
- Reviewing and improving, as appropriate, the system used to document the unmetered usage.
- Identify unmetered usage.
- Implement a leak detection program for the distribution system.

b. Projected Future Demand

Water demand parameters based on the historical averages and common engineering standards are typically used for projecting future water demands. However, in cases where non-residential customers make up a significant portion of the total water demand, projected commercial and industrial growth needs to be considered.

The Village of Little Chute's top water users were recently surveyed in an effort to gain a better understanding of their projected future water use. Agropur responded indicating that their Little Chute facility is currently operating at 60% of its capacity and if product demand increases, production would increase accordingly. However, they did not know how an increase in production would correlate with their water demand. Crystal Print initially indicated that they were looking into improving their chiller system, which would result in a significant reduction in their water

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demand; however, they recently indicated that their water use could double in conjunction with the facility expansion they are considering. Nestle projected a slight increase in water demand, annually, in response to rising consumer demand.

Historical water use data from 2020 to 2024, as provided in Table #6, was used to develop parameters for projecting future demands. The following demand parameters are proposed for projecting future demands, and to analyze the capacity of the water supply and storage facilities.

- Total Pumpage Gallon Per Capita Per Day (gpcd) ..... 135 gpcd
- Maximum Day Demand to Average Day Demand Ratio 1.62

The 135 gpcd of total pumpage accounts for the current industrial water demand within the "per capita" value and projects an increased demand from current industrial customers proportional to population growth. This can be used in the absence of actual water demand projections from the Village's top water users and may be considered conservative based on the survey of the top water users discussed previously. The 1.62 MDD to ADD ratio is the highest observed ratio over the 5-year period between 2020 and 2024, whereas the average ratio over that period is 1.53.

New industrial development should also be considered when projecting future demands as a new wet industry could present a significant demand on the water system. The current ADD for the Village's top water user, Agropur, is about 315,000 gpd, assuming production is 365 days per year. The ADD for the next two top water users are about 189,000 gpd and 128,500 gpd, respectively. An additional 500,000 gpd demand was previously used in the 2017 Water System Evaluation and Plan to account for a new large customer and/or expansion by an existing customer. Use of the addition 500,000 gpd demand appears to be appropriate as evidenced by a recent inquiry by a company looking to move into the area that was projecting a similar water demand for their proposed facility at full buildout.

Year 2050 water demand projections based on projected population growth are summarized in Table #6. An additional future demand of 500,000 gpd was also added to the projections to evaluate conditions associated with a large customer moving into the Village and/or existing industrial customers expanding their production.

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The projected future demands are as follows:

	Average Day Demand (gpd)	Maximum Day Demand (gpd)
Population Growth (14,859 people)	2,006,000	3,249,700
Population Growth + 0.5 mgd	2,506,000	4,059,700

B. Water System Analysis

1. System Standards

The Village of Little Chute water supply, storage and distribution systems must be designed and operated to meet Wisconsin Administrative Code requirements. There are also a number of engineering design standards that should be used when evaluating and designing a water system. The State requirements and industry standard design criteria are summarized in Table #8. These standards will be referred to in the following sections of this Engineering Report.

2. Supply System Capacity Analysis

The adequacy of a water system is evaluated on the basis of the Maximum Day Demand requirements. As a minimum, the supply required to maintain the Maximum Day Demand or Peak Day Demand will need to be supplied from the entire water supply over a 24-hour period. It is important to analyze the supply system capacity before looking at the storage system capacity, because sufficient supply is needed to maintain the storage capacity. If all sources of supply are available, the supply system can produce 3,150 gpm or 4,536,000 gpd of water.

The reliability of the supply system can be analyzed under a variety of conditions. The following conditions have been analyzed and are listed in Table #9.

- Condition A.....This condition assumes all systems are operational. This condition would provide a supply of 3,150 gpm or 4,536,000 gpd.
- Condition B.....This condition assumes that the largest source of supply, Well #1, is out of service. The available supply would be 2,100 gpm or 3,024,000 gpd.
- Condition C.....This condition evaluates the system capacity operating under standby power. There is no standby power at Well #3/ Pumphouse #2, so those facilities would not be available. The available supply would be 2,100 gpm or 3,024,000 gpd; the same as Condition B.

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Table #8

SYSTEM STANDARDS

WATER SYSTEM EVALUATION & PLAN UPDATE

Village of Little Chute | Outagamie County, Wisconsin

Supply System Should Meet Maximum Day Demand	
Wisconsin Administrative Code NR 811	
Storage Capacity Recommendations - Insurance Underwriting/Grading Service	
Supply + Storage = Maximum Day Demand + Basic Fire Flow	
Design Facilities For Maximum Day Demand	
Wisconsin Administrative Code NR 811	
Minimum Requirements	
35 psi System Pressure	Wisconsin Administrative Code NR 810.10
30 psi Static Pressure at Corporation Stop	Wisconsin Public Service (PSC) Code 185.82
20 psi Residual Pressure at Meter Outlet	Wisconsin PSC Code 185.82
Maximum Pressure At Meter Outlet	
125 psi for Existing Systems	Wisconsin Administrative Code PSC 185.82
100 psi Maximum Pressure at Meter Outlet for New Systems & Major Additions to Existing Systems	

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Table #9

SUPPLY CAPACITY ANALYSIS

WATER SYSTEM EVALUATION & PLAN UPDATE

Village of Little Chute | Outagamie County, Wisconsin

Supply Capacity = Maximum Day Demand

Reliability Analysis: Evaluate system with the largest source of supply out of service.

Supply Source	Well Capacity (gpm)	Condition A (gpm)	Condition B (gpm)	Condition C (gpm)
Well #1	1,050	1,050	N/A	1,050
Well #3	1,050	1,050	1,050	N/A
Well #4	1,050	1,050	1,050	1,050
Available Supply, gpm	3,150	3,150	2,100	2,100
Available Supply, gpd	4,536,000	4,536,000	3,024,000	3,024,000

Existing Max Day, gpd (5-year average) =	2,139,000
Existing Max Day, gpm (5-year average) =	1,490
Projected Max Day, gpd =	3,249,700
Projected Max Day, gpm =	2,260
Population Growth + 0.5 mgd Demand	
Projected Max Day, gpd =	4,059,700
Projected Max Day, gpm =	2,820

The existing supply system, with all three wells in operation, has sufficient capacity to meet both the existing and projected Maximum Day Demand for the operating conditions that were considered.

However, with any one of the wells out of the service, the existing supply system does not have sufficient capacity to meet the projected Maximum Day Demands.

Condition A assumes all systems are operational.

Condition B evaluates the safe, reliable supply with the largest source of supply out of service.

Condition C evaluates the system operating under standby power. There is no standby power at Well #3/ Pumphouse #2.

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Three different projections of Maximum Day Demand were used for the analysis, including:

- Current Maximum Day Demand (5-year average);
- Projected Maximum Day Demand, based on population projections; and
- Projected Maximum Day Demand based on growth plus an additional 0.5 mgd.

The results of the supply system capacity analysis are presented in Table #9. The analysis indicates the existing supply facilities have sufficient capacity to meet the various operational conditions and Maximum Day Demands, with all three wells in operation. However, the safe, reliable supply is what the system can provide with the largest source of supply out of service. This quantity is 3,024,000 gpd, as illustrated in Table #9. With any one of the wells out of service, the supply system will not be able to meet the projected future Maximum Day Demands. Currently removing a well from service for an extended period to perform standard inspection and maintenance is challenging for water system Operators. Therefore, additional supply capacity should be considered.

To ensure a reliable and resilient water supply, it is recommended that planning for additional supply capacity begin once system Max Day Demands reach 90% to 95% of the current available firm supply (i.e., with the largest source out-of-service). This threshold provides a buffer for operational flexibility, emergency scenarios, and continued growth. Based on the current firm capacity of 3.024 mgd, planning should commence when Max Day Demands approach approximately 2.72 to 2.87 mgd. Operating near full capacity limits the system's ability to respond to unexpected failures or demand spikes.

3. Storage System Capacity Analysis

The Insurance Service Office (ISO) recommends that the combined capacity of the water supply and system storage equal the Maximum Day Demand, plus fire protection supply requirements. The Storage System Capacity Analysis was conducted using the following:

- Fire flow requirement of 3,500 gpm for 3-hours
- Current Maximum Day Demand of 2.610 mgd
- Projected Maximum Day Demand based on growth plus an additional 0.5 mgd of 4.060 mgd.

The same available supply conditions used to analyze the supply system capacity were utilized to analyze the storage system capacity. It was assumed that only 75% of the elevated storage capacity would be available. The volume of ground storage available is equal to the amount that the booster pumps can provide.

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The results of the Storage Capacity Analysis are presented in Tables #10 and #11. Available storage exceeds the recommended storage capacity for Conditions A and C. However, available storage is deficient under Condition B (Well #4 out of service). This deficiency would be further exacerbated should a greater fire flow rate and/or duration be required. Therefore, additional storage capacity should be considered.

It is recommended that planning for additional storage capacity begin once the recommended storage capacity reaches 90% of the total storage available. This is equivalent to a Maximum 3-Hour Demand of 425,250 gallons or Maximum Day Demand of approximately 3.4 mgd. Reaching this level indicates limited remaining buffer, which may compromise system resiliency and fire protection. Proactive planning ensures that new storage can be designed, permitted, and constructed in time to meet future needs.

4. Water Distribution System Analysis

A computerized WaterCAD model of the Little Chute system was developed to assess the existing system conditions and plan for future expansions. The Village's GIS database was used to generate the distribution system in the model, including existing pipe diameters and lengths. Ground elevation information for the model was obtained from the United States Geological Survey (USGS) maps.

The Village of Little Chute distribution system has developed in a well-connected grid. The three pumphouses and two elevated water towers are located throughout the system and are not in close proximity to each other. This helps distribute the strength of the system across the service area.

The distribution system is bisected by railroad tracks in the southern one-third of the system and I-41 in the northern part of the system. Often, these types of features are barriers to adequate water system development. There are eight water mains crossing the railroad tracks, and five of those mains are 10-inch or larger. Therefore, there is sufficient transmission across the tracks.

Currently, there are three water mains that cross I-41. These include a 12-inch crossing at Holland Road, a 10-inch crossing at Kelbe Drive up to Randolph Drive to the north, and a 16-inch crossing from the Stephen Street Tower #1 up to Evergreen Drive to the north. Addition of a fourth crossing would provide system redundancy should one of the existing mains be out of service and to support further development on the north side of the service area. While a new water main crossing in the western portion of the Village (west of Holland Road) makes logical sense, the Outagamie County Landfill limits future development in that area. Therefore, a crossing on the east side of the Village on CTH CC at the municipal boundary with Kaukauna is likely more feasible.

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Table #10

STORAGE CAPACITY ANALYSIS - EXISTING DEMAND

WATER SYSTEM EVALUATION & PLAN UPDATE

Village of Little Chute | Outagamie County, Wisconsin

Fire Flow + Maximum Day = Supply + Storage			Maximum Day Demand =	2,610,000 gpd
Fire Flow Demand	3,500 gpm x	3	Hours =	630,000 gallons
Existing Maximum Day Demand (3-hour period)				326,300 gallons

Elevated Storage	
Jefferson Street Tank - Tank #2	250,000 gallons
Stephen Street Tank - Tank #3	300,000 gallons

Supply Available	**Booster Pump Capacity (gpm)**	**Condition A (gpm)**	**Condition B (gpm)**	**Condition C (gpm)**
Well #1	1,000	1,000	1,000	1,000
Gallons, 3-hour period	180,000	180,000	180,000	180,000
Pumphouse #2 (Supplied by Well #3)	1,000	1,000	1,000	N/A
Gallons, 3-hour period	180,000	180,000	180,000	
Well #4	1,100	1,100	N/A	1,100
Gallons, 3-hour period	198,000	198,000		198,000
Total Supply Available (gallons, 3-hour period)	**558,000**	**558,000**	**360,000**	**378,000**

Ground Storage Available / 3-Hour Period				
Supply Available From Ground Storage	**Booster Pump Capacity (gpm)**	**Condition A (gpm)**	**Condition B (gpm)**	**Condition C (gpm)**
Well #1	1,000	1,000	1,000	1,000
Gallons, 3-hour period	180,000	180,000	180,000	180,000
Pumphouse #2 (Supplied by Well #3)	1,000	1,000	1,000	N/A
Gallons, 3-hour period	180,000	180,000	180,000	
Well #4	1,100	1,100	N/A	1,100
Gallons, 3-hour period	198,000	198,000		198,000
Total Supply Available (gallons, 3-hour period)	**558,000**	**558,000**	**360,000**	**378,000**

Existing System Analysis / Gallons	**Condition A (gpm)**	**Condition B (gpm)**	**Condition C (gpm)**
Fire Flow (3-Hours)	630,000	630,000	630,000
Maximum Day (3-Hours)	326,300	326,300	326,300
Less Available Supply (3-Hours)	-558,000	-360,000	-378,000
Recommended Storage Capacity	**398,300**	**596,300**	**578,300**
Elevated Storage Available (75% Full)	412,500	412,500	412,500
Ground Storage	558,000	360,000	378,000
Total Storage Available	**970,500**	**772,500**	**790,500**

Available Storage exceeds the recommended storage capacity. Therefore, there is sufficient storage capacity in the system to meet the existing Maximum Day Demands.

Condition A assumes all systems are operational.
Condition B evaluates the safe, reliable supply with the largest source of supply out of service.
Condition C evaluates the system operating under standby power. There is no standby power at Well #3/Pumphouse #2.
All conditions assume that only 75% of the elevated storage capacity is available.

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Table #11

STORAGE CAPACITY ANALYSIS - POPULATION GROWTH + 0.5 mgd DEMAND

WATER SYSTEM EVALUATION & PLAN UPDATE

Village of Little Chute | Outagamie County, Wisconsin

Fire Flow + Maximum Day = Supply + Storage			Maximum Day Demand =	4,059,700 gpd
Fire Flow Demand	3,500 gpm x	3	Hours =	630,000 gallons
Existing Maximum Day Demand (3-hour period)				507,500 gallons

Elevated Storage	
Jefferson Street Tank - Tank #2	250,000 gallons
Stephen Street Tank - Tank #3	300,000 gallons

Supply Available	**Booster Pump Capacity (gpm)**	**Condition A (gpm)**	**Condition B (gpm)**	**Condition C (gpm)**
Well #1	1,000	1,000	1,000	1,000
Gallons, 3-hour period	180,000	180,000	180,000	180,000
Pumphouse #2 (Supplied by Well #3)	1,000	1,000	1,000	N/A
Gallons, 3-hour period	180,000	180,000	180,000	
Well #4	1,100	1,100	N/A	1,100
Gallons, 3-hour period	198,000	198,000		198,000
Total Supply Available (gallons, 3-hour period)	**558,000**	**558,000**	**360,000**	**378,000**

Ground Storage Available / 3-Hour Period **Supply Available From Ground Storage**	**Booster Pump Capacity (gpm)**	**Condition A (gpm)**	**Condition B (gpm)**	**Condition C (gpm)**
Well #1	1,000	1,000	1,000	1,000
Gallons, 3-hour period	180,000	180,000	180,000	180,000
Pumphouse #2 (Supplied by Well #3)	1,000	1,000	1,000	N/A
Gallons, 3-hour period	180,000	180,000	180,000	
Well #4	1,100	1,100	N/A	1,100
Gallons, 3-hour period	198,000	198,000		198,000
Total Supply Available (gallons, 3-hour period)	**558,000**	**558,000**	**360,000**	**378,000**

Future System Analysis, gallons	**Condition A (gpm)**	**Condition B (gpm)**	**Condition C (gpm)**
Fire Flow (3-Hours)	630,000	630,000	630,000
Maximum Day (3-Hours)	507,500	507,500	507,500
Less Available Supply (3-Hours)	-558,000	-360,000	-378,000
Recommended Storage Capacity	**579,500**	**777,500**	**759,500**
Elevated Storage Available (75% Full)	412,500	412,500	412,500
Ground Storage	558,000	360,000	378,000
Total Storage Available	**970,500**	**772,500**	**790,500**

Available storage exceeds the recommended storage capacity for Conditions A and C. Therefore, there is generally sufficient storage capacity in the system to meet the future maximum day demands.

Condition A assumes all systems are operational.
Condition B evaluates the safe, reliable supply with the largest source of supply out of service.
Condition C evaluates the system operating under standby power. There is no standby power at Well #3/Pumphouse #2.
All conditions assume that only 75% of the elevated storage capacity is available.

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The capacity, reliability and water quality of a distribution system is maximized when the system develops in a grid. Dead-end water mains should be avoided and/or eliminated, when possible. There are a few cul-du-sacs that are served by dead-end mains, but in most cases, these are not exceptionally long dead-end water mains.

There are a few areas in the system with longer dead-end water mains and areas served by only a single main. In most cases, the reliability of these areas will be improved as development occurs adjacent to these areas. The water quality of dead-end mains will need to be monitored to maintain good water quality. The areas of note are listed below:

- West Main Street (HWY 96), west of Washington Street to French Road
- Cherryvale Avenue, north of Gardenia Drive
- Rosehill Road, north of East North Avenue (HWY 96)

Distribution system pressures are maintained by the height of the water in the elevated tanks above the ground elevation. Wisconsin Administrative Code NR 811.70(4) establishes the following requirements for a municipal water system:

- Static Pressure at Ground Level
  - Minimum..... 35 psi
  - Maximum..... 100 psi

Experience indicates that distribution system pressures falling below 45 psi may result in customer complaints.

The maximum water level in the elevated tanks or hydraulic grade line of the Little Chute system is estimated at elevation 884. The design minimum water level in the elevated tanks is at elevation 852; however, the current operating range for the tanks used for pump control is the top 5-feet. The ground elevations in the Village range from 700 to 744. Nodes are used in the model for pipe connection points, and ground elevations (and water demands) are assigned to the individual nodes. System static pressure ranges from 60 to 79 psi with the elevated tanks operating near their overflow elevation and range from 46 psi to 65 psi with the tanks at their minimum water level. Refer to Appendix #3, Figure A for a map showing current static pressures throughout the distribution system at the current operating range of the elevated tanks.

A network of water mains of sufficient size would need to be extended in the future service area to provide service. Results indicate that the existing system can provide pressures greater than 60 psi throughout the planning area (see Figure #3, Water System Service Area).

Available fire flow capacities are a common parameter used by engineers, fire departments and insurance agencies for evaluating the strength of a distribution system. The available fire flow rate is dependent on the size and condition of the water mains and the grid development of the system. Typical fire flow requirements are listed on Table #12. The minimum flow requirement established by NR 811 for water mains serving fire hydrants is 500 gpm at 20 psi residual pressure.

The WaterCAD model was used to analyze existing system fire flow capacities at a residual pressure of 20 psi. The water system Operators conducted fire flow tests in the field throughout the distribution system, and the test data was used to calibrate the model. Model results for current available fire flow capacities at a 20 psi residual pressure are provided in Appendix #3 Figure B. Fire flow capacity of the existing distribution system is generally excellent with capacities well above the minimum required 500 gpm rate and most of the system with fire flow capacities above 3,000 gpm. There are three specific areas of the existing system that have fire flow capacities ranging from 1,000 to 1,999 gpm at a residual pressure of 20 psi. These were the areas, identified previously, with longer dead-end water mains or served by only a single main. As future development occurs in these areas, the system should be expanded with interconnecting mains, to improve redundancy and strengthen overall system performance. The WaterCAD model was also used to evaluate potential fire flow capacities if these areas were developed using a grid layout with looping mains. The results of this analysis are illustrated in Appendix #3 Figure C.

It has been noted that the proximity of Pumphouse #2 to the Jefferson Street Elevated Tower #2 currently creates operational difficulties associated with keeping the level in the two towers approximately equal, with the Jefferson Street tower filling faster than the Stephen Street tower with Booster Pumps #3 or #4 in operation and the Stephen Street tower being drawn down faster than the Jefferson Street tower due to increased water demand on the north side of I-41.

The WaterCAD model was used to analyze current tower filling and draining patterns under both peak and off-peak conditions and confirmed this behavior. To correct this issue, it is recommended to shift system control to the Stephen Street tower and install a new altitude valve at the Jefferson Street tower, which would close when the Jefferson Street tower reaches its overflow level allowing the Stephen Street tower to continue to fill to its overflow level.

It has also been noted that it is planned to temporarily remove the Jefferson Street tower from service for recoating in the near future. With the Jefferson Street tower offline, the system may experience slightly lower pressures, reduced fire flow capacity, and potential water quality issues due to changes in flow patterns and increased water age. Additional monitoring, flushing, and

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Table #12

FIRE FLOW INFORMATION

WATER SYSTEM EVALUATION & PLAN UPDATE

Village of Little Chute | Outagamie County, Wisconsin

Typical Fire Flow Requirements **Land Use**	**Range of Needed Fire Flow** **@ 20 psi Residual Pressure**
Single & Two-Family	
Over 100-feet Building Separation	50 gpm
31 to 100-feet Building Separation	750 gpm
11 to 30-feet Building Separation	1,000 gpm
10-feet or Less Building Separation	1,500 gpm
Multiple-family Residential Complexes	2,000 to 3,000+ gpm
Average Density Commercial	1,500 to 2,500+ gpm
High Value Commercial	2,500 to 3,500+ gpm
Light Industrial	2,000 to 3,500+ gpm
Heavy Industrial	2,500 to 3,500+ gpm
Other Commercial, Industrial & Public Buildings	Up to 12,000 gpm

Wisconsin Administrative Code NR 811.70(6):

500 gpm @ 20 psi Residual Pressure

Flow Requirement For Water Mains Serving Fire Hydrants

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communication with the public and fire department will be essential to maintain service reliability and safety.

The Jefferson Street tower was recently taken offline to evaluate how the water system would react in anticipation of the tower coating project. Concurrently, a water main break occurred on Jefferson Street near Pumphouse #2. The WaterCAD model could not simulate this event as it does not account for transient events such as pressure spikes or hydraulic shocks, which are common causes of main breaks during sudden system changes. These hydraulic stresses can impact vulnerable sections of water main, especially in the vicinity of the pumphouse. Although reducing booster pump speeds at Pumphouse #2 may help mitigate the issue, the WaterCAD model did not show a significant improvement from this adjustment.

5. Future Water Tower Site

The Storage Capacity Analysis indicates that additional storage capacity is not required immediately but should be considered to adequately service future development as the Village of Little Chute continues to grow. An elevated water tank should be considered on the north side of I-41. This future water tower would improve system reliability as service is extended north of I-41. Based on previous planning efforts, the Village is already targeting a site of Holland Road, north of Evergreen Drive for a new tower. Table #13 provides a summary of issues to consider when siting a new elevated tower.

6. Conclusions

The Little Chute water system is well operated and maintained. In general, the system provides good service for its customers. Planning is needed to continue to provide a high level of service for many years. A summary of the conclusions of the Water System Evaluation are as follows:

a. Future year 2050 water system demands were developed to evaluate the capacity of the existing supply and storage facilities. Water demands were projected based on population growth with an additional 0.5 mgd added to account for a potential future large water user moving into the Village.

b. The water system capacity analysis is presented in Table #9. The capacity of the water supply facilities is sufficient to meet current demands. However, the existing water supply wells do not provide an adequate safe, reliable capacity to meet projected future demands with one well out of service. The existing reliable supply capacity is approximately 3.0 mgd with a current Maximum Day Demand of approximately 2.0 mgd. Currently removing a well from service for routine maintenance presents challenges for water system Operators. Additional supply capacity, which

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Table #13

ELEVATED TOWER SITE CONSIDERATIONS

WATER SYSTEM EVALUATION & PLAN UPDATE

Village of Little Chute | Outagamie County, Wisconsin

Site Conditions
Availability
Size
Ground Elevation
Soil Conditions
Topography
Current & Future Surrounding Land Use
Clearance From Other Utilities
Access

Hydraulic Considerations
Proximity to Water Transmission System
Proximity to Other Storage & Supply Facilities
Proximity to Major Consumers/Fire Protection
Need for System Improvements

Tower Maintenance Considerations
Provide 30-feet on Both Sides of Bowl
(500,000-gal tower bowl diameter = 55-feet)

Costs

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increases the reliable capacity above 4.0 mgd should be considered to support future growth in the Village. It is recommended to initiate planning for additional supply capacity once system Max Day Demands reach 90% to 95% of the current available firm supply or 2.72 to 2.87 mgd. Additional supply should be provided on the north side of I-41. A new well could be constructed in the vicinity of Well #4 making use of the existing treatment facility, ground storage and booster pumps more feasible.

c. The results of the Storage Capacity Analysis are presented in Tables #10 and #11. The capacity of the existing storage facilities is sufficient to meet the current and near future needs of the community. However, the storage capacity analysis shows a deficiency in storage capacity at projected future Maximum Day Demands and fire flows. It is recommended that planning for additional storage capacity begin once the recommended storage capacity reaches 90% of the total existing storage available, which is equivalent to a Maximum 3-Hour Demand of 425,250 gallons or Maximum Day Demand of approximately 3.4 mgd. The Village should plan to locate a new elevated water tower on the north side of I-41. A potential location for a new tower could be along Holland Road, north of Evergreen Drive.

d. Consideration should be given to installing an altitude valve at Tower #2 (Jefferson Street), which would allow for filling and utilization of the full capacity of Tower #1 (Stephen Street) without overflowing Tower #2.

e. The water distribution system is generally a well-developed grid network and adequate fire flow capacities are provided throughout the system. There are several areas that are served by single, rather long, dead-end mains. As development occurs, additional mains will be developed and the system should be developed with connecting water mains. Consideration should be given to adding a fourth main crossing of I-41 to further support development to the north and provide system redundancy.

f. The Water System Evaluation and Plan Update Report should be reviewed and updated annually. As part of this update, supply and storage capacity should be re-evaluated and compared to the previously identified 90% thresholds to allow for timely infrastructure planning decisions.

g. A list of priority system improvements and potential implementation schedule is provided as follows:

- Add an Altitude Valve at Tower #2 ..... 2025/2026
- Obtain Land for Future Tower #3 ..... 2025/2026
- Full Paint of Tower #2 2026
- Obtain Land for Future Well ..... 2026 to 2030
- Add VFDs for Booster Pumps #5 and #6 2027
- Construct Water Main Crossing Under I-41 ..... 2030 to 2035
- Construct New Well and Pumphouse 2031
- Add Generators at Pumphouse #2 and Well #3 2031
- Construct Tower #3 2036
- Add Capacity to Ground Storage Reservoir #2 2036

Implementation date for proposed improvements can be impacted by accelerated growth and the resulting increase in water demands and should be evaluated annually. Budgetary opinions of probable cost for priority system improvements are provided in Table #14.

Table #14

BUDGETARY COSTS FOR PRIORITY WATER SYSTEM IMPROVEMENTS

WATER SYSTEM EVALUATION & PLAN UPDATE

Village of Little Chute | Outagamie County, Wisconsin

		Opinion Of Probable Cost [1]
Replace Altitude Valve	Replace altitude valve at Jefferson Street tower.	$35,000
Paint Jefferson Street Tower	Full blasting and coating of Jefferson Street tower.	$400,000
Add VFDs for Boosters #5 and #6	Install VFDs at the Well #4 Pumphouse for the two (2) 100 HP booster pumps.	$65,000
Construct I-41 WM Crossing	Construct a fourth highway crossing main, specially as development expands and a new elevated water tower is constructed north of I-41.	$900,000
Construct New Supply	Construct new well and pumphouse in the vacinitiy of the Well #4 pumphouse with transmission main to Well #4.	$3,000,000
Add Generators at Pumphouse #2 and Well #3	Install a new diesel generator at both Pumphouse #2 (Two (2) 75 HP Booster Pumps) and Well#3 (One (1) 200 HP Well Pump)	$675,000
Construct New Storage	Construct new 400,000 gallon elevated tank.	$3,500,000
Add Capacity to Ground Storage Reservoir #2	Modify existing Ground Storage Reservoir #2 to increase capacity.	$300,000

The Opinion of Probable Costs include Engineering and Contingencies.

[1] The Opinion Of Probable Cost was prepared for use by the Owner in planning for future costs of the project. In providing Opinions Of Probable Cost, the Owner understands that the Design Professional has no control over costs or the price of labor, equipment or materials, or over Construction Professionals' method of pricing, and that the Opinions Of Probable Cost provided herewith are made on the basis of the Design Professional's qualifications and experience. It is not intended to reflect actual costs, and is subject to change with the normal rise and fall of the local area's economy. This Opinion must be revised after every change made to the project or after every 30-day lapse in time from the original submittal by the Design Professional.

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APPENDIX #1

Well Construction Logs

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WISCONSIN UNIQUE WELL NUMBER **BG582**

Source: SWAP PROJECT KEYED

State of Wi-Private Water Systems-DG/2
Department Of Natural Resources, Box 7921
Madison, WI 53707

Form 3300-77A
(Rev 02/02)bw

Depth 734 FT

Property Owner: LITTLE CHUTE, VILLAGE OF		Telephone Number: 414-788-7398	
Mailing Address: 108 W MAIN ST			
City: LITTLE CHUTE	State: WI	Zip Code: 54140	
County of Well Location: 45 OUTAGAMIE	Co Well Permit No: W	Well Completion Date: January 1, 1950	

1. Well Location

T=Town C=City V=Village: V of LITTLE CHUTE

Fire#:

Street Address or Road Name and Number: 100 VAN BUREN ST #1

Subdivision Name | Lot# | Block #

Gov't Lot **or** NE 1/4 of SE 1/4 of Section 21 T 21 N;R 18 E

Latitude Deg. 44 Min. 16.6222

Longitude Deg 88 Min. 18.7554

Well Constructor: LAYNE CHRISTENSEN COMPANY	License #: 582	Facility ID (Public): 445033820	
Address: W229 N5005 DUPLAINVI		Public Well Plan Approval#:	
City: PEWAUKEE	State: WI	Zip Code: 53072	Date Of Approval: 07/20/1923
Hicap Permanent Well #: 83482	Common Well #: 001		Specific Capacity: 56.5 gpm/ft

2. Well Type 3 (See item 12 below)

1=New 2=Replacement 3=Reconstruction

of previous unique well # _____ constructed in 1923

Reason for replaced or reconstructed Well?

Lat/Long Method: GPS004

3. Well Serves M # of homes and or (eg: barn, restaurant, church, school, industry, etc.)

M=Munic O=OTM N=NonCom P=Private Z=Other X=NonPot A=Anode L=Loop H=Drillhole

High Capacity: Well? Property?

1 1=Drilled 2=Driven Point 3=Jetted 4=Other

4. Is the well located upslope or sideslope and not downslope from any contamination sources, including those on neighboring properties?

Well located in floodplain?

Distance in feet from well to nearest: (including proposed)

1. Landfill
2. Building Overhang
3. 1=Septic 2= Holding Tank
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. 1=Shoreline 2= Swimming Pool
9. Downspout/ Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain 1=Cast Iron or Plastic 2=Other
14. Building Sewer 1=Gravity 2=Pressure 1=Cast Iron or Plastic 2=Other
15. Collector Sewer: ___ units ___ in . diam.
16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe 1=Gravity 2=Pressure 1=Cast iron or Plastic 2=Other
23. Other manure Storage
24. Ditch
25. Other NR 812 Waste Source

5. Drillhole Dimensions and Construction Method

Dia.(in.)	From (ft)	To (ft)
15.0	surface	102
12.0	102	734

Upper Enlarged Drillhole

-- 1. Rotary - Mud Circulation

-- 2. Rotary - Air

-- 3. Rotary - Air and Foam

-- 4. Drill-Through Casing Hammer

-- 5. Reverse Rotary

-- 6. Cable-tool Bit _ n. dia

-- 7. Temp. Outer Casing _ in. dia. _____ depth ft. Removed ?

Other

Lower Open Bedrock

Geology Codes	8. Geology Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
_C_	CLAY	0	5
_L_	DOLOMITE GALENA PLATTEVILLE	5	151
_NL	SANDSTONE LOWER MAGNESIUM	151	189
G_LR	DOLOMITE LOWER MAGNESIUM	189	229
_NNL	SANDSTONE LOWER MAGNESIUM	229	237
G_L_	DOLOMITE LOWER MAGNESIUM	237	329
_NNL	SANDSTONE LOWER MAGNESIUM	329	335
_LS	DOLOMITE	335	345
_NL	SANDSTONE TREMPEALEAU	345	382
_NL	SANDSTONE FRANCONIAN	382	490
_N_	SANDSTONE DRESBACH	490	730
P_Q_	GRANITE PRECAMBRIAN	730	734

6. Casing Liner Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
12.0		surface	102

Dia.(in.)	Screen type, material & slot size	From	To

9. Static Water Level

38.0 feet B ground surface A=Above B=Below

10. Pump Test

Pumping level 44.0 ft. below surface

Pumping at 339.0 GP M 8.0 Hrs

11. Well Is: 0 in. Grade A=Above B=Below

Developed?

Disinfected?

Capped?

7. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
GROUT	surface	102.0	

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?

If no, explain

13. Initials of Well Constructor or Supervisory Driller | Date Signed

Initials of Drill Rig Operator (Mandatory unless same as above)

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Additonal Comments? Y Variance Issued?

Owner Sent Label? Y More Geology?

Batch 548

WISCONSIN UNIQUE WELL NUMBER
SOURCE: SWAP PROJECT KEYED **BG584**

State of Wi-Private Water Systems-DG/2
Department Of Natural Resources, Box 7921
Madison, WI 53707

Form 3300-77A
(Rev 12/00)

Property Owner: LITTLE CHUTE, VILLAGE OF
Telephone Number: 414 – 788 – 7398
Depth 805 FT

Mailing Address: 108 W MAIN ST

City: LITTLE CHUTE | State: WI | Zip Code: 54140

County of Well Location: 45 OUTAGAMIE | Co Well Permit No: NE W | Well Completion Date: February 1, 1974

1. Well Location V T=Town C=City V=Village of LITTLE CHUTE | Fire#

Street Address or Road Name and Number: 920 WASHINGTON ST #3

Subdivision Name | Lot# | Block #

Well Constructor: LAYNE CHRISTENSEN | License #: 582 | Facility ID (Public): 445033820

Address: W229 N5005 DUPLAINVI | Public Well Plan Approval#: 730121

City: PEWAUKEE | State: WI | Zip Code: 53072 | Date Of Approval: 02/26/1973

Hicap Permanent Well #: 83484 | Common Well #: 003 | 4.2 gpm/ft

Gov't Lot or SE 1/4 of NW 1/4 of
Section 21 T 21 N R 18 E

Latitude Deg. 44 Min. 17.0071
Longitude Deg 88 Min. 19.6573

2. Well Type 1 (1=New, See item 12 below) | Lat/Long Method
2=Replacement
3=Reconstruction of previous unique well # _____ constructed in 0

Reason for replaced or reconstructed Well?

3. Well Serves M (M=Munic O=OTM N=NonCom P=Private Z=Other X=NonPot A=Anode L=Loop H=Drillhole) # of homes and or (eg: barn, restaurant, church, school, industry, etc.)

High Capacity: Well? Property?

1 (1=Drilled 2=Driven Point 3=Jetted 4=Other)

4. Is the well located upslope or sideslope and not downslope from any contamination sources, including those on neighboring properties?

Well located in floodplain?

Distance in feet from well to nearest: (including proposed)

1. Landfill
2. Building Overhang
3. 1=Septic 2= Holding Tank
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. 1=Shoreline 2= Swimming Pool
9. Downspout/ Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain 1=Cast Iron or Plastic 2=Other
14. Building Sewer 1=Gravity 2=Pressure 1=Cast Iron or Plastic 2=Other
15. Collector Sewer: ___ units ___ in . diam.
16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe 1=Gravity 2=Pressure 1=Cast iron or Plastic 2=Other
23. Other manure Storage
24. Ditch
25. Other NR 812 Waste Source

5. Drillhole Dimensions and Construction Method

Dia.(in.)	From (ft)	To (ft)
18.0	surface	48
17.0	47	795
12.0	795	805

Upper Enlarged Drillhole — Lower Open Bedrock
-- 1. Rotary - Mud Circulation
-- 2. Rotary - Air
-- 3. Rotary - Air and Foam
-- 4. Drill-Through Casing Hammer
-- 5. Reverse Rotary
-- 6. Cable-tool Bit _____ in. dia
-- 7. Temp. Outer Casing _____ in. dia. _____ depth ft. Removed ?
Other

6. Casing Liner Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
18.0	A53B WELDED 0375 WALL	surface	48
12.0	A53B 0375 WALL WELDED	2	320

Dia.(in.)	Screen type, material & slot size	From	To

8. Geology

Geology Codes	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
R_C_	CLAY	0	45
_LL_	DOLOMITE SINNIPEE	45	175
_NL_	DOLOMITE @ SANDSTONE STP	175	185
E_HS	SHALE STP	185	195
__L_	DOLOMITE PDC	195	250
G_N_	SANDSTONE PDC	250	270
__LR	DOLOMITE PDC	270	365
P_L_	DOLOMITE COON VALLEY	365	375
R_NL	SANDSTONE COON VALLEY	375	380
O_N_	SANDSTONE VAN OSER	380	395
P_N_	SANDSTONE NORWALK	395	405
__N_	SANDSTONE TUN CITY	405	525

9. Static Water Level
129.0 feet B ground surface A=Above B=Below

11. Well Is:
Grade
0 in. A=Above B=Below
Developed?
Disinfected?
Capped?

10. Pump Test
Pumping level 319.0ft. below surface
Pumping at 790.0GPM 9.00Hrs

7. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
NEAT CEMENT	surface	320.0	

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
If no, explain

13. Initials of Well Constructor or Supervisory Driller | Date Signed

Initials of Drill Rig Operator (Mandatory unless same as above) | Date Signed

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BG584

Geology Codes	Geology Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
R_C_	CLAY	0	45
_LL_	DOLOMITE SINNIPEE	45	175
_NL_	DOLOMITE @ SANDSTONE STP	175	185
E_HS	SHALE STP	185	195
__L_	DOLOMITE PDC	195	250
G_N_	SANDSTONE PDC	250	270
__LR	DOLOMITE PDC	270	365
P_L_	DOLOMITE COON VALLEY	365	375
R_NL	SANDSTONE COON VALLEY	375	380
O_N_	SANDSTONE VAN OSER	380	395
P_N_	SANDSTONE NORWALK	395	405
__N_	SANDSTONE TUN CITY	405	525
I_N_	SANDSTONE ELK MOUND	525	715
P_N_	SANDSTONE ELK MOUND	715	795
R_Q_	SYENITE PC	795	805

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WISCONSIN UNIQUE WELL NUMBER
SOURCE: WELL CONSTRUCTION **NG591**

State of Wi-Private Water Systems-DG/2
Department Of Natural Resources, Box 7921
Madison, WI 53707

Form 3300-77A
(Rev 12/00)

Property Owner: LITTLE CHUTE, VILLAGE OF
Telephone Number: 920 – 788 – 7380
Depth 750 FT

Mailing Address: 108 W MAIN ST

City: LITTLE CHUTE | State: WI | Zip Code: 54140

County of Well Location: 45 OUTAGAMIE | NE | Co Well Permit No W | Well Completion Date: January 18, 1999

Well Constructor: SAMS ROTARY | License #: 370 | Facility ID (Public): 445033820

Address: PO BOX 150 | Public Well Plan Approval#: 98-1023

City: RANDOLPH | State: WI | Zip Code: 53956 | Date Of Approval: 08/04/1998

Hicap Well #: | Common Well # 004 | 25.6 gpm/ft

1. Well Location
T T=Town C=City V=Village of LITTLE CHUTE | Fire#:
Street Address or Road Name and Number: EVER GREEN DR
Subdivision Name: | Lot#: | Block #:
Gov't Lot: | or NW 1/4 of NW 1/4 of
Section 15 T 21 N R 18 E
Latitude Deg. 44 Min. 18.0329
Longitude Deg 88 Min. 18.4465

2. Well Type 1 (1=New, 2=Replacement, 3=Reconstruction) (See item 12 below)
Lat/Long Method: GPS004
of previous unique well # _____ constructed in _____
Reason for replaced or reconstructed Well? NQ265
HICAP # 2877. FILE # 45-9-5.

3. Well Serves # of homes and or **MUNICIPALITY WELL #4** (eg: barn, restaurant, church, school, industry, etc.)
M (M=Municipal O=OTM N=NonCom P=Private Z=Other X=NonPot A=Anode L=Loop H=Drillhole)
High Capacity: Well? Y Property? Y
1 (1=Drilled 2=Driven Point 3=Jetted 4=Other)

4. Is the well located upslope or sideslope and not downslope from any contamination sources, including those on neighboring properties? Y
Well located in floodplain? N
Distance in feet from well to nearest: (including proposed)

1. Landfill
2. Building Overhang
3. 1=Septic 2= Holding Tank
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. 1=Shoreline 2= Swimming Pool
9. Downspout/ Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain 1=Cast Iron or Plastic 2=Other
14. Building Sewer 1=Gravity 2=Pressure 1=Cast Iron or Plastic 2=Other
15. Collector Sewer: ___ units ___ in . diam.
16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe 1=Gravity 2=Pressure 1=Cast iron or Plastic 2=Other
23. Other manure Storage
24. Ditch
25. Other NR 812 Waste Source

5. Drillhole Dimensions and Construction Method

Dia.(in.)	From (ft)	To (ft)
19.0	surface	449
15.0	449	750

Upper Enlarged Drillhole / Lower Open Bedrock
-- 1. Rotary - Mud Circulation
X -- 2. Rotary - Air
-- 3. Rotary - Air and Foam
-- 4. Drill-Through Casing Hammer
-- 5. Reverse Rotary
-- 6. Cable-tool Bit _____ in. dia
-- 7. Temp. Outer Casing _____ in. dia. _____ depth ft. Removed ?
Other

6. Casing Liner Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)	Material, Weight, Specification, Manufacturer & Method of Assembly	From (ft.)	To (ft.)
16.0	STD BLK PIPE .375 WALL WELD JTS GENEVA	surface	449
20.0	STD BLK PIPE .375 WELL WELD JTS A53 SAWHILL - BARBER RIG	0	47

Dia.(in.)	Screen type, material & slot size	From	To

7. Grout or Other Sealing Material From # (ft.)

8. Geology

Geology Codes	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
_C_	CLAY	0	6
_Z_	CLAY W/GRAVEL	6	45
_BL_	BROKEN LIMEROCK	45	50
_L_	LIMEROCK	50	380
_LH	SHALEY LIMEROCK	380	395
_L_	LIMEROCK	395	405
_LH	SHALEY LIMEROCK	405	435
_L_	LIMEROCK	435	490
_N_	SANDROCK	490	530
_N_	SANDROCK	490	530
_NH	SHALEY SANDROCK	530	540
_N_	SANDROCK	540	640

9. Static Water Level
155.0 feet B ground surface A=Above B=Below

10. Pump Test
Pumping level 205.8ft. below surface
Pumping at 1300GPM 12.0Hrs

11. Well Is: A Grade
24 in. A=Above B=Below
Developed? Y
Disinfected? Y
Capped? Y

12. Did you notify the owner of the need to permanently abandon

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Method	BRADENHEAD/TREMIE Kind of Sealing Material	From (ft.)	To (ft.)	Sacks Cement
	CEMENT (TREMIE)	surface	50.0	75 S
	(BRAEDONHEAD)	50.0	449.0	325 S

unused wells on this property?

If no, explain

13. Initials of Well Constructor or Supervisory Driller SVJ — Date Signed 8/13/99

Initials of Drill Rig Operator (Mandatory unless same as above) RH — Date Signed 8/13/99

Additonal Comments? Y Variance Issued?

Owner Sent Label? Y More Geology?

Batch 714

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NG591

Geology Codes	Geology Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
__C_	CLAY	0	6
__Z_	CLAY W/GRAVEL	6	45
_BL_	BROKEN LIMEROCK	45	50
__L_	LIMEROCK	50	380
__LH	SHALEY LIMEROCK	380	395
__L_	LIMEROCK	395	405
__LH	SHALEY LIMEROCK	405	435
__L_	LIMEROCK	435	490
__N_	SANDROCK	490	530
__N_	SANDROCK	490	530
__NH	SHALEY SANDROCK	530	540
__N_	SANDROCK	540	640
_SN_	SOFT SANDROCK	640	680
__N_	SANDROCK	680	690
R_N_	RED SANDROCK	690	735
__N_	SANDROCK	735	750

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APPENDIX #2

Top Ten Water Users (2020 through 2024)

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Top 10 Water Users - 2024

Ranking	Account Number	Name	Usage	Volume Charges	Fixed Charges	Total	% of Total
1	MULTIPLE	AGROPUR INC	114,632,777	$ 351,113.05	$ 7,689.21	$ 358,802.26	13.81%
2	423068501	CRYSTAL PRINT WATER	68,908,078	$ 210,590.63	$ 3,558.96	$ 214,149.59	8.24%
3	MULTIPLE	NESTLE PIZZA DIVISION	46,894,866	$ 151,590.53	$ 16,009.02	$ 167,599.55	6.45%
4	MULTIPLE	LEXINGTON HOMES INC	15,255,771	$ 56,467.39	$ 15,551.47	$ 72,018.86	2.77%
5	MULTIPLE	OH SNAP! PICKLING LLC	9,809,446	$ 31,702.43	$ 3,228.00	$ 34,930.43	1.34%
6	MULTIPLE	OUTAGAMIE COUNTY	5,181,890	$ 18,796.43	$ 9,746.64	$ 28,543.07	1.10%
7	428369000	BEL BRANDS USA	5,601,821	$ 18,764.56	$ 3,504.96	$ 22,269.52	0.86%
8	MULTIPLE	VILLAGE OF LITTLE CHUTE	3,212,821	$ 11,635.29	$ 6,767.14	$ 18,402.43	0.71%
9	MULTIPLE	REDJ LLC	3,106,463	$ 10,329.57	$ 3,832.32	$ 14,161.89	0.54%
10	224062001	HICKORY LANE MHC WI	3,383,738	$ 11,859.57	$ 2,274.96	$ 14,134.53	0.54%
			275,987,671	$ 872,849.45	$ 72,162.68	$ 945,012.13	36.37%

Total Water Revenue $ 2,598,630.00

Top 10 Water Users - 2023

Ranking	Account Number	Name	Usage	Volume Charges	Fixed Charges	Total	% of Total
1	MULTIPLE	AGROPUR INC	109,253,005	$ 335,732.93	$ 7,365.18	$ 343,098.11	13.50%
2	MULTIPLE	NESTLE PIZZA DIVISION	53,924,476	$ 172,933.87	$ 16,049.35	$ 188,983.22	7.44%
3	423068501	CRYSTAL PRINT	35,605,202	$ 109,682.90	$ 3,558.96	$ 113,241.86	4.46%
4	MULTIPLE	LEXINGTON HOMES INC	14,823,384	$ 54,984.06	$ 15,468.93	$ 70,452.99	2.77%
5	MULTIPLE	OUTAGAMIE COUNTY	6,493,001	$ 23,126.39	$ 8,985.95	$ 32,112.34	1.26%
6	428369000	BEL BRANDS USA	7,492,571	$ 24,501.65	$ 3,504.96	$ 28,006.61	1.10%
7	MULTIPLE	HICKORY/DUTCH HARBOR MHC LLC	5,913,055	$ 20,870.40	$ 3,961.92	$ 24,832.32	0.98%
8	MULTIPLE	LITTLE CHUTE VILLAGE	4,802,620	$ 16,854.69	$ 5,619.14	$ 22,473.83	0.88%
9	328207300	ABSOLUTE SUPPLY LLC	6,418,450	$ 22,065.16	$ 95.64	$ 22,160.80	0.87%
10	MULTIPLE	OH SNAP! PICKLING	5,889,107	$ 19,046.11	$ 1,822.20	$ 20,868.31	0.82%
			250,614,871	$ 799,798.16	$ 66,432.23	$ 866,230.39	34.09%

Total Water Revenue $ 2,541,075.00

2022 Top 10 Water Users

Ranking	Acct #	Name	Address	Usage	Volume Charges	Fixed Charges	Total	% of Total
1	Multiple	NESTLE	Multiple	58,143,021	$186,944.81	$16,008.70	$202,953.51	8.78%
2	Multiple	AGROPUR INC	Multiple	52,513,420	$161,021.82	$2,579.40	$163,601.22	7.07%
3	4-230685-01	CRYSTAL PRINT	COOLIDGE AVE	25,465,034	$78,958.20	$3,558.96	$82,517.16	3.57%
4	Multiple	LEXINGTON HOMES INC	Multiple	14,974,860	$55,805.99	$14,155.44	$69,961.43	3.03%
5	3-282073-00	ABSOLUTE WELDING LLC	1560 BOHM DR	10,034,050	$33,448.65	$95.64	$33,544.29	1.45%
6	Multiple	OUTAGAMIE COUNTY	Multiple	4,133,343	$15,256.48	$11,090.13	$26,346.61	1.14%
7	4-283690-00	BEL BRANDS USA	1500 E NORTH AVE	6,635,000	$21,903.21	$3,504.96	$25,408.17	1.10%
8	Multiple	OH SNAP!	Multiple	5,956,950	$19,448.31	$1,447.53	$20,895.84	0.90%
9	2-240620-01	HICKORY LANE MHC WI	1515 VANDENBROEK RD	5,186,380	$17,437.24	$2,176.96	$19,614.20	0.85%
10	Multiple	KWIK TRIP	Multiple	3,525,540	$13,280.15	$296.47	$13,576.62	0.59%
				186,567,598	$603,504.86	$54,914.19	$658,419.05	28.47%

Total Water Revenue $2,312,471.00

H:\FINANCE\Utility\2022\Top 10 Users\TOP 10 WATER 2022

2021

	Acct #	Name	Usage	Volume Charges	Fixed Charges	Total	% of Total
1	4-254577-01	NESTLE	62,410,430	189,253.53	15,164.88	204,418.41	9.07%
2	4-730281-00	AGROPUR INC	53,222,010	161,412.62	2,274.96	163,687.58	7.26%
3	4-230685-01	CRYSTAL PRINT	21,091,000	64,055.66	3,558.96	67,614.62	3.00%
4	2-703433-00	LEXINGTON HOMES INC	10,635,330	32,374.98	8,574.24	40,949.22	1.82%
5	4-283690-00	BEL BRANDS USA	6,290,000	19,208.63	3,504.96	22,713.59	1.01%
6	5-290003-00	OUTAGAMIE COUNTY	3,616,000	11,106.41	8,435.28	19,541.69	0.87%
7	3-282073-00	ABSOLUTE WELDING LLC	5,794,360	17,706.84	95.64	17,802.48	0.79%
8	4-730289-00	GLK FOODS LLC	3,366,600	10,350.73	1,349.76	11,700.49	0.52%
9	3-723115-03	APPLETON HOSPITALITY LLC	3,213,700	9,887.44	1,199.04	11,086.48	0.49%
10	3-883514-00	KWIK TRIP	3,294,340	10,131.78	304.44	10,436.22	0.46%

Total Water Revenue 2,254,740.00

2020 Top Users

	Volume	Volume Charges	Fixed Charges	Total	% of Total
NESTLE DSD	67,018,570	203,216.20	15,164.88	218,381.08	9.83%
AGROPUR INC	48,916,700	148,367.53	2,274.96	150,642.49	6.78%
CRYSTAL PRINT WATER	22,194,000	67,397.75	3,558.96	70,956.71	3.19%
LEXINGTON HOMES INC	6,141,890	18,759.86	5,663.28	24,423.14	1.10%
BEL BRANDS USA	6,144,000	18,766.25	3,504.96	22,271.21	1.00%
OUTAGAMIE CO HWY DEPT	3,348,000	10,294.37	3,969.36	14,263.73	0.64%
HPII PROPERTIES LLC	2,865,000	8,830.88	4,659.84	13,490.72	0.61%
KWIK TRIP	3,124,480	9,617.10	208.80	9,825.90	0.44%
LITTON PORTFOLIO LLC	2,540,000	7,846.13	1,686.96	9,533.09	0.43%
HICKORY LANE MHC WI	2,370,000	7,331.03	1,686.96	9,017.99	0.41%

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APPENDIX #3

WaterCAD Model Analyses

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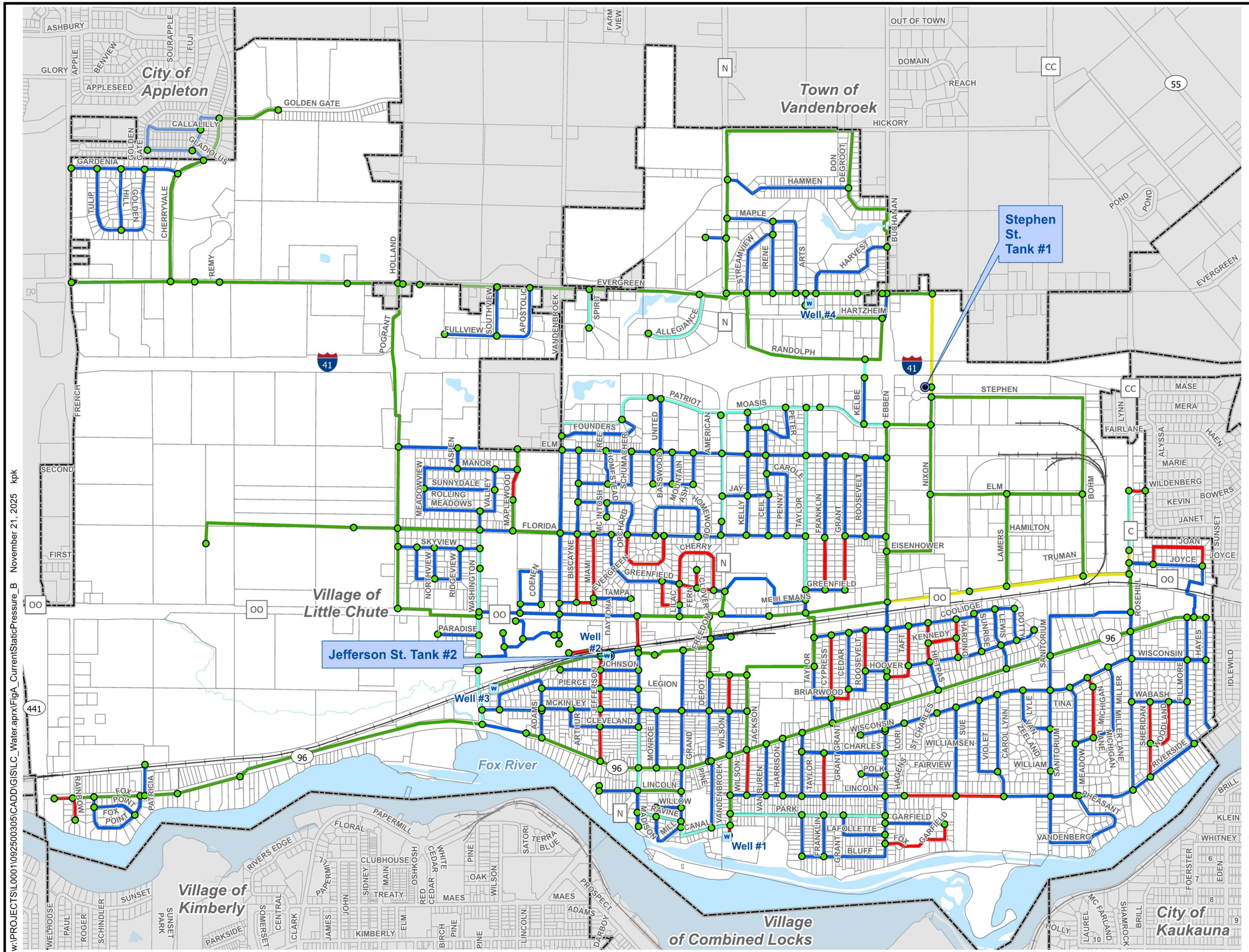

Little Chute
ESTABLISHED 1848

Current Static Pressure

- <35 psi (NA)
- 36-50 psi (NA)
- 51-80 psi
- >80 psi (NA)

Watermain By Diameter

- 6 Inch
- 8 Inch
- 10 Inch
- 12 Inch
- 16 Inch

Other Mapped Features

- Elevated Storage Tank
- Well and Pump Station
- Municipal Boundary
- Parcel Line
- Surface Water

Source: Outagamie County, 2024-25.

Disclaimer: The property lines, right-of-way lines, and other property information on this drawing were developed or obtained as part of the County Geographic Information System or through the County property tax mapping function. McMAHON ASSOCIATES, INC. does not guarantee this information to be correct, current, or complete. The property and right-of-way information are only intended for use as a general reference and are not intended or suitable for site-specific uses. Any use to the contrary of the above stated uses is the responsibility of the user and such use is at the user's own risk.

0 1,500 3,000 Feet

McMAHON
ENGINEERS ARCHITECTS
McMAHON ASSOCIATES, INC.

FIGURE A
CURRENT STATIC PRESSURE
WATER SYSTEM EVALUATION
VILLAGE OF LITTLE CHUTE
OUTAGAMIE COUNTY, WISCONSIN

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w:\PROJECTSL\0001\092500305\CADD\GIS\LC_Water.aprx\FigB_CurrentAvailFF_OffPeak_BP5on_B November 21, 2025 kpk

Little Chute
ESTABLISHED 1848

Current Available Fireflow (20 psi)

- <1,000 gpm (NA)
- 1,000-1,499 gpm
- 1,500-1,999 gpm
- 2,000-2,499 gpm
- 2,500-2,999 gpm
- >3,000 gpm
- Fireflow capacities ranging from 1,000 gpm to 1,999 gpm

Watermain By Diameter

- 6 Inch
- 8 Inch
- 10 Inch
- 12 Inch
- 16 Inch

Other Mapped Features

- Elevated Storage Tank
- Well and Pump Station
- Municipal Boundary
- Parcel Line
- Surface Water

0 1,500 3,000 Feet

McMAHON ENGINEERS ARCHITECTS
McMAHON ASSOCIATES, INC.

Source: Outagamie County, 2024-25.

Disclaimer: The property lines, right-of-way lines, and other property information on this drawing were developed or obtained as part of the County Geographic Information System or through the County property tax mapping function. McMAHON ASSOCIATES, INC. does not guarantee this information to be correct, current, or complete. The property and right-of-way information are only intended for use as a general reference and are not intended or suitable for site-specific uses. Any use to the contrary of the above stated uses is the responsibility of the user and such use is at the user's own risk.

FIGURE B
CURRENT AVAILABLE FIREFLOW (OFFPEAK AND BP 5 ONLINE)
WATER SYSTEM EVALUATION
VILLAGE OF LITTLE CHUTE
OUTAGAMIE COUNTY, WISCONSIN

Little Chute
ESTABLISHED 1848

Proposed Improvements

- 12" Watermain Looping
- Replace inactive 10" main with 12" main

Current Available Fireflow (20 psi)

- <1,000 gpm (NA)
- 1,000-1,499 gpm
- 1,500-1,999 gpm
- 2,000-2,499 gpm
- 2,500-2,999 gpm
- >3,000 gpm

Watermain By Diameter

- 6 Inch
- 8 Inch
- 10 Inch
- 12 Inch
- 16 Inch

Other Mapped Features

- Elevated Storage Tank
- Well and Pump Station
- Municipal Boundary
- Parcel Line
- Surface Water

0 1,500 3,000 Feet

McMAHON ENGINEERS ARCHITECTS
McMAHON ASSOCIATES, INC.

Source: Outagamie County, 2024-25.

Disclaimer: The property lines, right-of-way lines, and other property information on this drawing were developed or obtained as part of the County Geographic Information System or through the County property tax mapping function. McMAHON ASSOCIATES, INC. does not guarantee this information to be correct, current, or complete. The property and right-of-way information are only intended for use as a general reference and are not intended or suitable for site-specific uses. Any use to the contrary of the above stated uses is the responsibility of the user and such use is at the user's own risk.

FIGURE C
AVAILABLE FIREFLOW WITH SYSTEM IMPROVEMENTS
WATER SYSTEM EVALUATION
VILLAGE OF LITTLE CHUTE
OUTAGAMIE COUNTY, WISCONSIN

w:\PROJECTS\L0001\09250030S\CADD\GIS\LC_Water.aprx\FigC_CurrentAvailFF_w_Imrpove_B November 21, 2025 kpk

MIDWEST CONTRACT OPERATIONS, INC.
P.O. BOX 418 MENASHA, WI 54952-0418

Monthly Superintendent Report/Update

To: Village of Little Chute Water Commission

From: Jerry Verstegen, Water Utility Supt. (MCO)

Month of: 12-2025

Updates for current, past and ongoing Water Department projects and areas of concern:

1. Plants/Treatment
   - Repaired Silicate Pump at Evergreen
   - Replaced Well Meter at Evergreen

2. Distribution
   - 12/29/2025 – Water Main Break @ Freedom Rd and E Evergreen

3. Meters
   - Residential Meter Changes
   - Non – Residential Meter Changes

4. General Water
   - Non- Residential and Residential Cross Connections
   - Leak Detection
   - Inspecting Lead and Unknown Water Lateral Services

Sam Schepp
Jerry Verstegen

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2025 Pumpage Totals

1/14/2026

Date	Pump age x 1000								Discharge Sanitary				Blend and Pump age %					
	Wells			Effluent			Well	Booster	Well	Sanitary	Sanitary	Sanitary	Blend %			% Pumped by Plant		
	# 1	# 3	# 4	# 1	# 3	# 4	Totals	Totals	# 1	# 3	# 4	Totals	# 1	# 3	# 4	# 1	# 3	# 4
12/1	793	857	326	759	863	326	**1,976**	**1,948**	58.0	35.0	10.0	103.0	8.8%	6.4%	1.6%	40.1%	43.4%	16.5%
12/2	668	836	377	641	818	331	**1,881**	**1,790**	45.0	35.0	19.0	99.0	8.8%	6.6%	1.5%	35.5%	44.4%	20.0%
12/3	678	760	372	649	744	352	**1,810**	**1,745**	44.0	36.0	4.0	84.0	9.0%	6.8%	1.6%	37.5%	42.0%	20.5%
12/4	691	831	383	639	812	362	**1,905**	**1,813**	54.0	35.0	22.0	111.0	8.8%	6.6%	1.6%	36.3%	43.6%	20.1%
12/5	523	723	261	519	682	246	**1,507**	**1,447**	33.0	35.0	19.4	87.4	8.8%	7.0%	1.5%	34.7%	48.0%	17.3%
12/6	541	766	110	510	750	104	**1,417**	**1,364**	44.0	36.0	8.6	88.6	8.9%	6.8%	1.4%	38.2%	54.1%	7.8%
12/7	720	786	198	653	795	187	**1,704**	**1,635**	44.0	41.0	12.0	97.0	8.9%	6.8%	1.5%	42.3%	46.1%	11.6%
12/8	915	822	197	912	796	186	**1,934**	**1,894**	63.0	54.0	7.4	124.4	8.9%	7.0%	1.6%	47.3%	42.5%	10.2%
12/9	1,111	883	0	1,037	860	0	**1,994**	**1,897**	83.0	47.0	31.0	161.0	8.8%	6.7%		55.7%	44.3%	0.0%
12/10	1,120	792	0	1,100	782	0	**1,912**	**1,882**	72.0	35.0	0.0	107.0	8.9%	6.7%		58.6%	41.4%	0.0%
12/11	1,120	751	0	1,018	709	0	**1,871**	**1,727**	79.0	35.0	0.0	114.0	8.8%	6.8%		59.9%	40.1%	0.0%
12/12	629	0	953	599	0	901	**1,582**	**1,500**	44.0	0.0	7.9	51.9	8.9%		1.7%	39.8%	0.0%	60.2%
12/13	620	782	239	586	764	233	**1,641**	**1,583**	48.0	36.0	37.3	121.3	8.9%	6.8%	1.4%	37.8%	47.7%	14.6%
12/14	690	124	969	693	149	939	**1,783**	**1,781**	43.0	0.0	15.5	58.5	8.8%	5.9%	1.4%	38.7%	7.0%	54.3%
12/15	772	794	363	696	776	376	**1,929**	**1,848**	51.0	47.0	44.4	142.4	8.8%	6.9%	0.9%	40.0%	41.2%	18.8%
12/16	725	869	382	727	827	376	**1,976**	**1,930**	51.0	35.0	15.9	101.9	9.0%	6.7%	1.6%	36.7%	44.0%	19.3%
12/17	747	789	466	658	796	449	**2,002**	**1,903**	52.0	36.0	22.4	110.4	8.8%	6.7%	1.6%	37.3%	39.4%	23.3%
12/18	677	829	403	649	811	385	**1,909**	**1,845**	44.0	35.0	23.0	102.0	9.0%	6.8%	1.5%	35.5%	43.4%	21.1%
12/19	636	802	340	642	765	305	**1,778**	**1,712**	47.0	47.0	25.1	119.1	8.8%	6.9%	1.4%	35.8%	45.1%	19.1%
12/20	748	786	388	655	774	376	**1,922**	**1,805**	49.0	37.0	9.9	95.9	9.0%	6.7%	1.5%	38.9%	40.9%	20.2%
12/21	657	833	328	630	830	318	**1,818**	**1,778**	50.0	57.0	20.8	127.8	8.8%	6.8%	1.4%	36.1%	45.8%	18.0%
12/22	705	798	342	665	779	360	**1,845**	**1,804**	46.0	36.0	16.9	98.9	8.9%	6.7%	1.4%	38.2%	43.3%	18.5%
12/23	639	731	395	609	714	354	**1,765**	**1,677**	48.0	35.0	21.9	104.9	8.8%	6.9%	1.4%	36.2%	41.4%	22.4%
12/24	551	720	298	527	678	288	**1,569**	**1,493**	32.0	35.0	19.1	86.1	8.9%	7.0%	1.2%	35.1%	45.9%	19.0%
12/25	612	738	231	610	731	224	**1,581**	**1,565**	45.0	36.0	7.8	88.8	8.8%	6.8%	1.5%	38.7%	46.7%	14.6%
12/26	561	737	263	556	709	255	**1,561**	**1,520**	39.0	35.0	14.1	88.1	8.9%	6.8%	1.4%	35.9%	47.2%	16.8%
12/27	737	737	328	696	739	317	**1,802**	**1,752**	56.0	35.0	9.9	100.9	9.0%	7.0%	1.6%	40.9%	40.9%	18.2%
12/28	639	776	518	619	740	500	**1,933**	**1,859**	40.0	35.0	21.9	96.9	8.8%	6.7%	1.4%	33.1%	40.1%	26.8%
12/29	727	819	383	639	830	371	**1,929**	**1,840**	52.0	36.0	21.9	109.9	8.9%	6.8%	1.5%	37.7%	42.5%	19.9%
12/30	704	813	215	708	795	208	**1,732**	**1,711**	51.0	47.0	19.5	117.5	8.8%	6.5%	1.3%	40.6%	46.9%	12.4%
12/31	660	771	123	583	752	119	**1,554**	**1,454**	41.0	35.0	14.0	90.0	8.9%	6.8%	1.2%	42.5%	49.6%	7.9%
Avg	720	744	327	683	728	314	1,791	1,726	50	36	17	103	0	0	0	0	0	0
Total	22,316	23,055	10,150	21,184	22,570	9,748	55,521	53,502	1,548	1,119	523	3,190	3	2	0	12	13	6

2025 Treatment Totals

1/14/2026

	Chemical Pounds									Doseage					
	Chlorine			Silicate			Salt			Chlorine			Silicate		
	# 1	# 3	# 4	# 1	# 3	# 4	# 1	# 3	# 4	# 1	# 3	# 4	# 1	# 3	# 4
12/1/25	71.0	69.2	22.6	132	258	107	3,640	5,200	1,300	1.34	1.21	1.04	5.89	10.65	11.61
12/2/25	64.2	70.2	24.6	118	254	116	7,020	3,900	4,940	1.44	1.26	0.98	6.25	10.75	10.89
12/3/25	60.8	58.0	25.0	110	228	105	5,980	4,160	0	1.34	1.14	1.01	5.74	10.61	9.99
12/4/25	61.0	62.0	26.8	114	256	116	5,720	3,900	4,680	1.32	1.12	1.05	5.84	10.90	10.71
12/5/25	39.0	54.6	16.6	86	218	87	5,980	3,900	4,680	1.12	1.13	0.96	5.82	10.67	11.81
12/6/25	37.0	57.2	7.2	96	228	32	4,680	3,900	1,560	1.03	1.12	0.98	6.28	10.53	10.30
12/7/25	52.8	60.8	15.0	108	236	60	4,680	3,900	3,120	1.10	1.16	1.13	5.31	10.62	10.71
12/8/25	68.2	60.2	14.0	162	244	62	5,720	4,420	0	1.12	1.10	1.06	6.26	10.50	11.12
12/9/25	84.0	69.6	0.0	186	262	0	7,020	5,980	8,060	1.13	1.18		5.92	10.50	
######	66.6	62.0	0.0	248	178	0	10,660	5,200	0	0.89	1.17		7.83	7.95	
######	99.4	61.8	0.0	178	260	0	9,360	3,900	0	1.33	1.23		5.62	12.25	
######	45.8	0.0	97.6	102	0	284	9,360	3,900	0	1.09		1.54	5.74		10.54
######	44.8	51.4	16.8	94	244	64	4,680	0	9,360	1.08	0.99	1.05	5.36	11.04	9.47
######	49.8	10.0	68.4	100	40	260	5,980	3,900	1,560	1.08	1.21	1.06	5.13	11.41	9.49
######	56.0	50.2	24.8	134	242	143	5,720	0	10,920	1.09	0.95	1.02	6.14	10.78	13.93
######	53.4	54.8	24.0	124	268	104	5,980	5,200	3,120	1.10	0.95	0.94	6.05	10.91	9.63
######	57.2	51.2	34.4	138	240	116	5,720	3,900	4,680	1.15	0.97	1.11	6.53	10.76	8.80
######	53.0	53.6	26.0	136	246	103	7,020	3,900	4,680	1.17	0.97	0.97	7.11	10.50	9.04
######	50.0	54.4	24.2	134	246	105	4,680	3,900	6,240	1.18	1.02	1.07	7.45	10.85	10.92
######	59.6	46.0	25.8	140	236	116	5,980	5,200	1,560	1.19	0.88	1.00	6.62	10.62	10.58
######	52.8	56.0	23.0	108	246	103	5,980	3,900	4,680	1.20	1.01	1.05	5.81	10.45	11.11
######	48.8	47.6	24.0	116	232	92	6,240	6,500	3,380	1.04	0.89	1.05	5.82	10.28	9.52
######	45.4	33.0	31.6	149	210	103	5,460	3,900	4,680	1.06	0.68	1.20	8.25	10.16	9.22
######	38.2	46.2	20.6	110	220	104	5,720	3,900	4,680	1.04	0.96	1.04	7.06	10.81	12.34
######	41.9	46.6	16.0	122	228	90	4,680	3,900	1,300	1.03	0.95	1.04	7.05	10.93	13.78
######	39.0	50.2	17.8	116	228	91	4,680	3,900	3,380	1.04	1.02	1.01	7.31	10.94	12.24
######	46.4	47.0	22.4	156	224	117	4,680	3,900	1,560	0.94	0.96	1.02	7.49	10.75	12.62
######	34.8	49.6	35.8	134	236	103	7,020	3,900	4,680	0.82	0.96	1.04	7.42	10.76	7.03
######	38.6	51.8	26.2	142	254	104	4,680	3,900	4,680	0.80	0.95	1.03	6.91	10.97	9.60
######	36.4	50.8	14.6	134	246	60	7,280	3,900	4,680	0.77	0.94	1.02	6.73	10.70	9.87
31-Dec	44.2	50	8	122	234	35	5,720	5,200	3,640	1.00	0.97	0.97	6.54	10.74	10.07
Avg	52.9	51.2	23.7	130.6	223.9	96.2	6,055	4,034	3,606	1.1	1.0	1.1	6.4	10.7	10.6
Total	1,640.1	1,586.0	733.8	4,049.0	6,942.0	2,982.0	187,720	125,060	111,800	34.1	31.0	29.4	199.3	320.3	297.0

2025 System Samples

1/14/2026

Date	North West						North East						South West						South East					
Week	Total	Free	Ph	Iron	Silc	Hard	Total	Free	Ph	Iron	Silc	Hard	Total	Free	Ph	Iron	Silc	Hard	Total	Free	Ph	Iron	Silc	Hard
1/6	0.49	0.41	7.7	0.06	13	8	0.32	0.30	7.5	0.10	11	10	0.48	0.41	7.6	0.09	13	10	0.51	0.41	7.5	0.06	12	11
1/13	0.59	0.53	7.5	0.09	13	9	0.38	0.32	7.7	0.04	14	10	0.50	0.55	7.6	0.06	13	10	0.59	0.53	7.5	0.02	12	10
1/20	0.48	0.39	7.4	0.09	12	10	0.26	0.20	7.5	0.02	10	9	0.44	0.37	7.4	0.10	10	9	0.33	0.25	7.5	0.09	18	9
1/27	0.26	0.20	7.5	0.04	12	9	0.25	0.20	7.5	0.07	12	9	0.33	0.22	7.5	0.01	10	9	0.26	0.20	7.5	0.01	17	10
2/3	0.54	0.51	7.8	0.07	11	8	0.38	0.33	7.8	0.04	17	9	0.35	0.33	7.4	0.04	16	9	0.60	0.55	7.5	0.01	15	10
2/10	0.30	0.23	7.5	0.06	18	11	0.46	0.36	7.5	0.05	14	9	0.59	0.51	7.5	0.11	19	9	0.48	0.44	7.5	0.07	18	10
2/17	0.54	0.48	7.6	0.13	12	10	0.41	0.38	7.5	0.06	20	10	0.60	0.57	7.5	0.06	20	5	0.48	0.45	7.5	0.12	19	9
2/24	0.51	0.42	7.4	0.04	19	8	0.25	0.23	7.4	0.02	11	9	0.35	0.22	7.5	0.08	21	8	0.25	0.21	7.6	0.08	16	7
3/3	0.54	0.48	7.3	0.09	8	10	0.31	0.28	7.3	0.08	8	9	0.25	0.21	7.6	0.06	18	8	0.30	0.25	7.4	0.02	8	8
3/10	0.25	0.21	7.3	0.04	11	8	0.41	0.37	7.6	0.02	12	8	0.31	0.28	7.5	0.01	10	8	0.51	0.47	7.4	0.02	11	7
3/17	0.36	0.34	7.6	0.06	17	8	0.31	0.25	7.5	0.11	17	9	0.40	0.33	7.4	0.09	20	7	0.49	0.47	7.4	0.10	8	9
3/24	0.47	0.40	7.5	0.07	8	10	0.33	0.24	7.6	0.03	7	10	0.52	0.44	7.4	0.03	16	8	0.56	0.49	7.4	0.09	11	10
3/31	0.55	0.52	7.6	0.11	14	14	0.48	0.43	7.6	0.06	18	9	0.49	0.45	7.6	0.05	18	6	0.53	0.49	7.5	0.12	19	10
4/7	0.51	0.46	7.7	0.12	7	12	0.55	0.51	7.8	0.01	8	9	0.55	0.51	7.4	0.11	7	7	0.48	0.41	7.5	0.12	8	9
4/14	0.30	0.22	7.6	0.03	12	11	0.36	0.28	7.5	0.08	16	10	0.31	0.28	7.6	0.03	20	8	0.64	0.56	7.9	0.10	19	9
4/21	0.47	0.43	7.2	0.02	17	9	0.43	0.40	7.5	0.08	17	9	0.48	0.42	7.4	0.08	16	9	0.45	0.40	7.5	0.09	18	10
4/28	0.50	0.46	7.3	0.10	17	10	0.32	0.20	7.6	0.09	19	10	0.47	0.28	7.3	0.07	16	9	0.25	0.22	7.6	0.08	20	9
5/5	0.55	0.51	7.4	0.04	16	9	0.47	0.43	7.4	0.07	19	9	0.55	0.51	7.4	0.11	18	9	0.45	0.40	7.7	0.09	17	10
5/12	0.39	0.35	7.4	0.01	12	8	0.47	0.43	7.3	0.05	13	9	0.29	0.24	7.4	0.01	15	8	0.54	0.51	7.4	0.12	15	10
5/19	0.25	0.20	7.6	0.07	16	8	0.22	0.20	7.5	0.07	13	9	0.45	0.30	7.7	0.06	10	9	0.30	0.25	7.5	0.06	10	9
5/26	0.38	0.32	7.4	0.03	16	9	0.44	0.38	7.6	0.09	16	9	0.54	0.50	7.4	0.07	16	8	0.28	0.24	7.5	0.08	14	9
6/2	0.28	0.23	7.6	0.10	15	9	0.35	0.30	7.6	0.10	17	9	0.52	0.48	7.4	0.07	17	9	0.30	0.26	7.5	0.01	18	9
6/9	0.24	0.22	7.5	0.03	18	11	0.30	0.25	7.4	0.08	17	10	0.26	0.22	7.2	0.01	18	6	0.25	0.22	7.4	0.05	20	10
6/16	0.24	0.22	7.4	0.09	19	10	0.35	0.30	7.6	0.08	19	10	0.42	0.36	7.3	0.06	18	8	0.24	0.22	7.5	0.06	20	9
6/23	0.35	0.31	7.4	0.05	18	10	0.34	0.30	7.4	0.05	17	10	0.34	0.31	7.4	0.10	17	9	0.26	0.23	7.4	0.08	18	10
6/30	0.26	0.23	7.6	0.04	23	10	0.41	0.36	7.4	0.10	14	9	0.33	0.29	7.4	0.07	23	9	0.24	0.22	7.3	0.08	15	9
7/7	0.29	0.25	7.6	0.08	19	8	0.39	0.37	7.5	0.06	17	10	0.31	0.27	7.6	0.12	15	8	0.26	0.21	7.6	0.10	16	10
7/14	0.38	0.30	7.6	0.10	11	8	0.35	0.31	7.6	0.10	12	10	0.55	0.47	7.7	0.08	19	9	0.38	0.34	7.5	0.08	17	9
7/21	0.31	0.29	7.5	0.07	15	8	0.27	0.25	7.7	0.05	10	9	0.32	0.26	7.4	0.02	15	8	0.35	0.25	7.5	0.05	15	9
7/28	0.43	0.33	7.6	0.10	16	10	0.20	0.15	7.4	0.09	19	10	0.27	0.24	7.5	0.10	16	12	0.30	0.26	7.5	0.09	16	10
8/4	0.24	0.21	7.6	0.10	16	9	0.24	0.20	7.5	0.05	12	9	0.29	0.23	7.6	0.06	9	11	0.30	0.26	7.6	0.10	13	10
8/11	0.33	0.29	7.5	0.01	14	8	0.24	0.20	7.8	0.11	10	9	0.32	0.28	7.4	0.11	13	10	0.30	0.25	7.3	0.08	14	10
8/18	0.26	0.19	7.3	0.09	24	13	0.25	0.21	7.6	0.06	20	10	0.34	0.26	7.5	0.17	16	12	0.24	0.18	7.2	0.13	16	12
8/25	0.38	0.34	7.6	0.10	17	10	0.27	0.24	7.4	0.08	21	10	0.24	0.18	7.5	0.09	14	6	0.26	0.24	7.4	0.11	18	10
9/1	0.30	0.27	7.4	0.08	18	10	0.12	0.09	7.3	0.09	18	9	0.34	0.29	7.4	0.09	19	10	0.27	0.24	7.3	0.10	17	10
9/8	0.46	0.42	7.6	0.01	19	9	0.38	0.32	7.4	0.04	16	10	0.54	0.48	7.9	0.09	20	10	0.48	0.44	7.6	0.10	14	10
9/15	0.40	0.31	7.4	0.02	13	9	0.33	0.23	7.3	0.04	11	6	0.43	0.35	7.6	0.06	12	9	0.44	0.35	7.4	0.10	12	8
9/22	0.18	0.16	7.4	0.05	9	9	0.29	0.25	7.8	0.08	16	8	0.39	0.31	7.4	0.09	7	8	0.29	0.21	7.3	0.12	16	9
9/29	0.46	0.38	7.7	0.06	10	9	0.31	0.29	7.8	0.06	11	8	0.42	0.38	7.4	0.05	11	8	0.34	0.25	7.3	0.09	11	8
10/6	0.48	0.45	7.4	0.06	8	8	0.38	0.33	7.6	0.06	9	9	0.48	0.44	7.5	0.11	9	9	0.24	0.20	7.7	0.11	10	9
10/13	0.32	0.28	7.2	0.09	14	7	0.28	0.23	7.7	0.10	13	9	0.54	0.50	7.4	0.09	13	9	0.38	0.34	7.5	0.09	10	10
10/20	0.43	0.39	7.5	0.12	9	7	0.28	0.23	7.2	0.06	12	8	0.34	0.29	7.5	0.10	11	8	0.25	0.22	7.4	0.05	10	9
10/27	0.27	0.20	7.4	0.09	8	10	0.48	0.44	7.2	0.08	11	9	0.19	0.16	7.4	0.09	12	10	0.37	0.30	7.3	0.10	10	9
11/3	0.41	0.38	7.6	0.01	11	9	0.34	0.28	7.8	0.08	13	9	0.43	0.39	7.8	0.03	10	9	0.38	0.33	7.5	0.12	16	9
11/10	0.26	0.22	7.3	0.07	14	9	0.29	0.24	7.6	0.12	13	11	0.42	0.38	7.2	0.15	11	8	0.36	0.32	7.2	0.13	14	10
11/17/25	0.41	0.31	7.5	0.1	15.0	8.00	0.25	0.17	7.2	0.1	14.0	9.00	0.52	0.43	7.6	0.1	13.0	6.00	0.34	0.31	7.5	0.1	12.0	9.00
11/24/25	0.53	0.49	7.6	0.1	14.0	9.00	0.49	0.44	7.3	0.1	14.0	9.00	0.48	0.46	7.5	0.1	10.0	8.00	0.54	0.47	7.3	0.2	10.0	10.00
12/01/25	0.32	0.26	7.5	0.0	15.0	8.00	0.32	0.28	7.6	0.1	12.0	9.00	0.48	0.43	7.5	0.1	13.0	9.00	0.46	0.42	7.8	0.1	11.0	9.00
12/08/25	0.43	0.39	7.4	0.1	16.0	9.00	0.39	0.34	7.6	0.1	14.0	9.00	0.35	0.30	7.4	0.1	15.0	9.00	0.42	0.39	7.5	0.1	12.0	9.00
12/15/25	0.43	0.39	7.4	0.1	16.0	10.00	0.39	0.34	7.6	0.1	16.0	9.00	0.35	0.30	7.4	0.1	13.0	9.00	0.38	0.35	7.3	0.0	12.0	9.00
12/22/25	0.24	0.20	7.6	0.1	11.0	9.00	0.24	0.20	7.5	0.0	15.0	9.00	0.32	0.28	7.7	0.0	15.0	9.00	0.38	0.35	7.5	0.0	10.0	9.00
12/29/25	0.33	0.31	7.5	0.1	12.0	9.00	0.22	0.19	7.4	0.1	17.0	9.00	0.24	0.21	7.5	0.1	19.0	9.00	0.19	0.17	7.5	0.2	12.0	10.00
Avg	0.38	0.33	7.49	0.07	14.19	9.25	0.34	0.29	7.52	0.07	14.27	9.19	0.40	0.35	7.48	0.08	14.71	8.60	0.37	0.33	7.47	0.08	14.23	9.38

Return to Agenda

2025 PUMPING AND WASTE REPORT

	Pump age x 1000														
	Well Pumps			Booster Pumps			Well	Booster	Sanitary			Sanitary	Pounds of Chloride		
	Well # 1	Well # 2	Well # 3	Well # 1	Well # 2	Well # 3	Totals	Totals	Well # 1	Well # 3	Well # 4	Totals	Well # 1	Well # 3	Well # 4
Jan-25	13,998	15,642	23,113	13,274	15,455	23,124	52,753	51,853	971	596	1,233	2,800	67,502	49,838	150,461
Feb-25	14,497	13,393	20,315	13,816	13,216	20,302	48,205	47,334	1,001	668	1,112	2,781	71,761	45,107	136,740
Mar-25	18,363	16,539	19,880	17,598	16,351	19,822	**54,782**	**53,771**	1,282	784	1,060	3,126	93,210	52,204	**129,800**
Apr-25	17,052	18,736	19,526	16,254	18,458	19,632	**55,314**	**54,344**	1,174	901	1,029	3,104	89,583	59,932	**126,488**
May-25	19,938	18,643	20,246	18,969	18,412	20,312	**58,827**	**57,693**	1,391	885	1,034	3,310	98,888	60,878	**127,277**
Jun-25	17,393	20,035	22,512	16,582	20,014	22,537	**59,940**	**59,133**	1,206	949	1,160	3,315	91,002	61,667	**142,575**
Jul-25	20,270	20,394	21,267	19,229	20,023	21,678	**61,931**	**60,930**	1,411	965	1,123	3,499	103,146	65,610	**137,055**
Aug-25	22,199	21,439	18,649	21,062	20,613	18,852	**62,287**	**60,527**	1,545	1,231	1,014	3,790	113,871	38,653	**124,911**
Sep-25	20,929	21,682	14,395	19,939	20,556	14,814	**57,006**	**55,309**	1,454	1,668	767	3,889	106,616	70,184	**94,472**
Oct-25	21,275	20,042	14,178	20,234	19,598	14,341	**55,495**	**54,173**	1,497	1,011	781	3,289	109,613	69,710	**97,153**
Nov-25	19,017	22,571	8,879	18,030	21,508	8,355	**50,467**	**47,893**	1,333	1,076	463	2,872	98,730	70,972	**57,093**
Dec-25	22,316	23,055	10,150	21,184	22,570	9,748	**55,521**	**53,502**	1,548	1,119	523	3,190	113,871	75,861	**67,818**
Average	18,937	19,348	17,759	18,014	18,898	17,793	56,044	54,705	1,318	988	942	3,247	96,483	60,051	115,987
Total	227,247	232,171	213,111	216,171	226,774	213,517	672,529	656,462	15,813	11,853	11,298	38,964	1,157,793	720,617	1,391,844

Engineering Department & Department of Public Works
Monthly Utility Commission Report for December 2025

OPERATIONS NOTES:

Sanitary Sewer System

- Maintained and recorded flow readings using laser meters throughout the sanitary collection system.
- Monitored for inflow and infiltration (I&I) by televising sanitary mains and inspecting manholes.
- Flushed dead-end lines and flat-lying areas to promote flow efficiency and prevent buildup.

Storm Sewer System

- Started removing trees for Riverside Drive culvert repair.

Stormwater Ponds

- Checked pond pumps to confirm operational readiness and prevent overflow during storm events.

Water System

- No activities reported during this period.

ENGINEERING NOTES: 2025 Utility Projects – December

Top Priorities for December 2025

Lexington Homes - Holland Road / Golden Gate Drive - Utility Construction

All utilities, concrete street pavement, and concrete sidewalks have been completed.

The lower layer of asphalt pavement on Holland Road is also complete. MCC will remove wedging and remove and replace any defective areas in the spring of 2026 prior to placing the final surface layer of asphalt pavement.

Contractors have completed all grading, gravel shouldering, seed, fertilizer, and straw stabilization for grass areas located within the Village right of way.

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2026 CIP Projects – Arthur Street / Miami Circle

Engineering staff continue working on the project design plans, quantities, assessment numbers, and related contract documents for the upcoming 2026 CIP projects. Staff held the Public informational Meeting as well as the Public Hearing in conjunction with the December 3rd Board Meeting. A general presentation was given to the Board and to residents, property owners/residents were also given the opportunity to ask one on one questions with Engineering Staff specific to their property.

Top Priorities for January 2026

2026 CIP Projects – Miami Circle - Arthur Street

Engineering staff are finalizing design plans and quantities for the 2026 CIP projects on Miami Circle and Arthur Street. The first advertisement for bid will be published on Wednesday January 14th; project plans and specifications will also be made available that same day, enclosed bids will be opened and read aloud at Village Hall on January 29th, 2026, at 2:00 p.m.

Lexington Homes - Holland Road / Golden Gate Drive - Paving & Restoration

Village staff inspected the site and prepared a preliminary punch list, list was provided to Lexington Homes and Robert E. Lee, items for repair and/or completion will be completed in the spring of 2026.

Depot Street Site Demolition Project

Bidding for the Depot Street Site Demolition Project has been completed, the Village Board has awarded this work to BEST Enterprises LLC., Engineering staff is working with the contractor to facilitate contract documents prior to construction commencing. BEST Enterprises is tentatively scheduled to begin demolition on Monday January 19th, weather permitting.

Founders Estates Subdivision

Multiple residential duplex sites have been completed, excavation for foundations and building construction remains steady. Inspections related to the permitting of concrete driveways, aprons, and public sidewalks continue. Staff are working with each contractor or property owner to verify concrete sidewalk, and aprons are installed per Village specifications and the approved subdivision plans.

Miscellaneous:

Engineering Staff continue working on updating GIS records to include historical record documentation as well as information gathered in the field during project utility and paving inspection.

Engineering continues reviewing, issuing, and inspecting all right-of-way permits for the Village.

Continued efforts to investigate and repair utilities that have been impacted or damaged during the TDS and/or AT&T construction process. Staff are working with DPW crews to locate, document and repair damaged utilities.

Efforts continue to assist other departments with daily tasks as well as any special projects or requests. Staff continue to focus on assisting the Parks Department with upcoming construction projects, including the Heesakker Park stair replacement and future parking lots and structures currently in the planning stages. Staff are utilized throughout the design, construction inspection, and contract administration of these projects.

Engineering staff continues to coordinate with WisDOT and private utilities with work related to the HWY “41” Corridor construction projects.

Return to Agenda

The Engineering Division is also working with Community Development and Developers to review planned commercial development sites as well as future design and planning efforts for current and future residential subdivision developments. Staff are also working on a bid package for the demolition of three Village properties on Depot Street to be bid and demolished later this fall.

Staff have begun working on collection of information for the 2027 CIP Projects.

Return to Agenda

VILLAGE OF LITTLE CHUTE
SEWER UTILITY
BUDGET STATUS

	2025 BUDGET Revenue = >	2025 ACTUAL DEC YTD	2024 ACTUAL	% Change from PY	$ Change from PY
REVENUE					
Multi-family Residential	240,882	251,624	237,597	5.90%	14,027
Residential	1,271,421	1,276,660	1,197,775	6.59%	78,885
Commercial	276,513	230,859	231,972	-0.48%	(1,113)
Industrial	1,637,661	1,633,554	1,572,772	3.86%	60,782
Public Authority	254,921	350,884	412,934	-15.03%	(62,050)
Sales Subtotal	3,681,398	3,743,581	3,653,050	*2.5%*	90,531
% of CY Budget		*102%*			
All Other	1,067,806	306,953	313,407	-2.06%	(6,454)
TOTAL REVENUE	4,749,204	4,050,534	3,966,457	2.12%	84,077
% of CY Budget		*85%*			

	2025 BUDGET Expense = >	2025 ACTUAL DEC YTD	2024 ACTUAL		
EXPENSES					
Financing	266,118	265,743	261,914	1.46%	3,829
Treatment	2,377,400	2,135,399	2,269,553	-5.91%	(134,154)
Collection	271,878	220,883	182,211	21.22%	38,672
Billing	176,817	140,656	160,197	-12.20%	(19,541)
Admin	233,805	222,754	209,213	6.47%	13,541
TOTAL EXPENSE	3,326,018	2,985,435	3,083,088	-3.17%	(97,653)
% of CY Budget		*90%*			
CASH FLOW -OPERATIONS	1,423,186	1,065,099	883,369		
ADD: DEPRECIATION	255,000	255,000	249,997	3,442,146	
ADD: NEW DEBT	-		-		
LESS: PRINCIPAL PAID	(35,000)	(35,000)	(40,000)		
LESS: FIXED ASSETS	(116,128)	(27,890)	(11,488)		
NET CASH FLOW	1,527,058	1,257,209	1,081,878		

NOTE :

Landfill revenue for Sewer Utility is billed on a quarterly billing; the first through third quarters are billed for 2025. Strength invoices have not been issued to Bel Brands (December), Nestle (Nov-Dec) and Oh Snap (October-December). Landfill revenues down due to hauling waste in 2025.

Continue to see interest and investment income impacted as result of market changes. The unrealized loss that exists now will ***not*** be recognized as long as the assets are held until maturity. The Village invests in varying maturities to match cash flow needs. An unrealized loss exists when a longer term asset the Village owns price has declined in the market place due to varying interest rates. Each month end, Generally Accepted Accounting Principles require that we record an unrealized loss (or gain) to recognize market impacts. The market to face value total for the Village at the end of December is a $90,923 unrealized gain across the Village funds.

Property, Auto and Workers Compensation premiums for all four quarters have been paid so twelve months of expense have hit income statement.

Treatment is down 63,826,000 gallons in December 2025 YTD vs 2024; however, chlorides are up 1,896,615 lbs. resulting in a net decrease in cost of $134,154. Collection is up due to reimbursing Nestle for cost of sewer meter. Billing is down due to MCO not spending as much time in this area in 2025.

Capital Contributions (revenue) are not recorded until year end (capital assets paid for by TID or contributed by developers) in the Sewer Utility ($978,000).

Reminder that capital assets are shown as expense in utilities until capitalized as part of year end audit preparation along with a few other annual processes.

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VILLAGE OF LITTLE CHUTE 2025 BUDGET

SEWER UTILITY

DEBT SCHEDULE

2019 Refunding

	Sanitary		
Year	**Principal**	**Interest**	**Total**
2025	35,000.00	2,400.00	37,400.00
2026	45,000.00	1,350.00	46,350.00
	80,000.00	3,750.00	83,750.00

TOTAL DEBT

	Sanitary		
Year	**Principal**	**Interest**	**Total**
2025	35,000.00	2,400.00	37,400.00
2026	45,000.00	1,350.00	46,350.00
	80,000.00	3,750.00	83,750.00

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VILLAGE OF LITTLE CHUTE
WATER UTILITY
BUDGET STATUS

	2025 BUDGET	2025 ACTUAL	2024 ACTUAL	*% Change from PY*	*$ Change from PY*
	Revenue = >	**DEC YTD**			
REVENUE					
Multi-family Residential	140,000	142,944	139,993	2.11%	2,951
Residential	930,000	939,915	930,405	1.02%	9,510
Commercial	165,000	169,335	167,476	1.11%	1,859
Industrial	720,000	930,540	792,006	17.49%	138,534
Private Fire	70,000	73,328	72,834	0.68%	494
Public Fire	450,000	432,217	430,887	0.31%	1,330
Public Authority	45,000	67,141	48,599	38.15%	18,542
Sales Subtotal	2,520,000	2,755,420	2,582,200	*6.7%*	173,220
% of CY Budget		*109%*			
All Other	1,003,588	170,244	154,708	*10.0%*	15,536
TOTAL REVENUE	3,523,588	2,925,665	2,736,908	*6.9%*	188,757
% of CY Budget		*83%*			

	Expense = >	**DEC YTD**			
	2025 BUDGET	**2025 ACTUAL**	**2024 ACTUAL**		
EXPENSES					
Financing	793,895	825,936	814,787	1.37%	11,149
Wells/Source	109,861	44,366	24,914	78.08%	19,452
Pumping	363,994	326,100	268,704	21.36%	57,396
Treatment	767,558	956,727	744,432	28.52%	212,295
Distribution	897,649	830,021	765,055	8.49%	64,966
Billing	92,702	88,079	80,793	9.02%	7,286
Admin	240,291	184,825	161,218	14.64%	23,607
TOTAL EXPENSE	3,265,950	3,256,054	2,859,903	13.85%	396,151
% of CY Budget		*100%*			
CASH FLOW -OPERATIONS	257,638	(330,389)	(122,995)		
ADD: DEPRECIATION	530,000	529,800	544,800		
ADD: NEW DEBT	-	850,000	-		
LESS: PRINCIPAL PAID	(330,682)	(330,682)	(389,517)		
LESS: FIXED ASSETS	(54,631)	(18,113)	(10,478)		
NET CASH FLOW	402,325	700,615	21,810		

NOTE :

Continue to see interest and investment income impacted as result of market changes. The unrealized loss that exists now will ***not*** be recognized as long as the assets are held until maturity. The Village invests in varying maturities to match cash flow needs. An unrealized loss exists when a longer term asset the Village owns price has declined in the market place due to varying interest rates. Each month end, Generally Accepted Accounting Principles require that we record an unrealized loss (or gain) to recognize market impacts. The market to face value total for the Village at the end of December is a $90,923 unrealized gain across the Village funds.

Property, Auto and Workers Compensation premiums for all quarters have been paid so twelve months of expense have hit income statement.

Agropur increased water consumption accounts for majority of increase at industrial level with corresponding increase in various expenses. Treatment and pumping expense is up corresponding as well. Wells/Source is up due to purchasing the backup VFD.

Capital Contributions (revenue) are not recorded until year end (capital assets paid for by TID or contributed by developers) in the Water Utility ($866,000).

Capital assets are shown as expense in utilities for monitoring until capitalized as part of year end audit preparation.

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VILLAGE OF LITTLE CHUTE 2025 BUDGET

WATER UTILITY

DEBT SCHEDULE

2014A Issue

	Water		
Year	Principal	Interest	Total
2025	-	-	-
2026	-	-	-
2027	-	-	-
	-	-	-

2017B Issue

	Water		
Year	Principal	Interest	Total
2025	1,691.11	154.68	1,845.79
2026	1,711.73	103.94	1,815.67
2027	1,752.96	52.58	1,805.54
	5,155.80	311.20	5,467.00

2016 Water Revenue

	Water		
Year	Principal	Interest	Total
2025	80,000.00	2,280.00	82,280.00
2026	80,000.00	760.00	80,760.00
2027	-	-	-
	160,000.00	3,040.00	163,040.00

2017 Safe Drinking Bonds

	Water		
Year	Principal	Interest	Total
2025	58,990.57	14,499.38	73,489.95
2026	60,028.80	13,451.99	73,480.79
2027	61,085.31	12,386.19	73,471.50
2028	62,160.41	11,301.63	73,462.04
2029	63,254.43	10,197.98	73,452.41
2030	64,367.71	9,074.91	73,442.62
2031	65,500.58	7,932.06	73,432.64
2032	66,653.39	6,769.11	73,422.50
2033	67,826.49	5,585.69	73,412.18
2034	69,020.23	4,381.43	73,401.66
2035	70,234.99	3,155.99	73,390.98
2036	71,471.13	1,908.98	73,380.11
2037	72,729.02	640.01	73,369.03
	853,323.06	101,285.35	954,608.41

2019A Issue

	Water		
Year	Principal	Interest	Total
2025	40,000.00	5,800.00	45,800.00
2026	40,000.00	4,600.00	44,600.00
2027	40,000.00	3,400.00	43,400.00
2028	40,000.00	2,200.00	42,200.00
2029	40,000.00	1,000.00	41,000.00
2030	-	-	-
2031	-	-	-
2032	-	-	-
2033	-	-	-
2034	-	-	-
2035	-	-	-
2036	-	-	-
2037	-	-	-
	200,000.00	17,000.00	217,000.00

2019 Refunding

	Water		
Year	Principal	Interest	Total
2025	55,000.00	3,300.00	58,300.00
2026	55,000.00	1,650.00	56,650.00
2027	-	-	-
2028	-	-	-
2029	-	-	-
2030	-	-	-
2031	-	-	-
2032	-	-	-
2033	-	-	-
2034	-	-	-
2035	-	-	-
2036	-	-	-
2037	-	-	-
	110,000.00	4,950.00	114,950.00

2020 Issue

	Water		
Year	Principal	Interest	Total
2025	55,000.00	4,550.00	59,550.00
2026	55,000.00	3,450.00	58,450.00
2027	55,000.00	2,350.00	57,350.00
2028	60,000.00	1,800.00	61,800.00
2029	60,000.00	1,200.00	61,200.00
2030	60,000.00	600.00	60,600.00
2031	-	-	-
2032	-	-	-
2033	-	-	-
2034	-	-	-
2035	-	-	-
2036	-	-	-
2037	-	-	-
	345,000.00	13,950.00	358,950.00

2023 Issue

	Water		
Year	Principal	Interest	Total
2025	40,000.00	20,500.00	60,500.00
2026	40,000.00	18,500.00	58,500.00
2027	40,000.00	16,500.00	56,500.00
2028	45,000.00	14,500.00	59,500.00
2029	45,000.00	12,250.00	57,250.00
2030	45,000.00	10,000.00	55,000.00
2031	50,000.00	7,750.00	57,750.00
2032	50,000.00	5,250.00	55,250.00
2033	55,000.00	2,750.00	57,750.00
2034	-	-	-
2035	-	-	-
2036	-	-	-
2037	-	-	-
	410,000.00	108,000.00	518,000.00

TOTAL DEBT

	Water		
Year	Principal	Interest	Total
2025	330,681.68	51,084.06	381,765.74
2026	331,740.53	42,515.93	374,256.46
2027	197,838.27	34,688.77	232,527.04
2028	207,160.41	29,801.63	236,962.04
2029	208,254.43	24,647.98	232,902.41
2030	169,367.71	19,674.91	189,042.62
2031	115,500.58	15,682.06	131,182.64
2032	116,653.39	12,019.11	128,672.50
2033	122,826.49	8,335.69	131,162.18
2034	69,020.23	4,381.43	73,401.66
2035	70,234.99	3,155.99	73,390.98
2036	71,471.13	1,908.98	73,380.11
2037	72,729.02	640.01	73,369.03
	2,083,478.86	248,536.55	2,332,015.41

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VILLAGE OF LITTLE CHUTE
STORM UTILITY

BUDGET STATUS	**2025**		**2024**	*% Change*	*$ Change*
	BUDGET	**ACTUAL**	**ACTUAL**	*from PY*	*from PY*
	Revenue = >	**DEC YTD**			
REVENUE					
Multi-family Residential	83,500	88,858	84,004	5.8%	4,854
Residential	347,000	342,319	343,019	-0.2%	(700)
Commercial	580,000	594,756	599,513	-0.8%	(4,757)
Industrial	200,000	209,017	207,237	0.9%	1,780
Public Authority	138,000	143,020	138,819	3.0%	4,201
Sales Subtotal	1,348,500	1,377,970	1,372,592	*0.4%*	5,378
% of CY Budget		*102%*			
All Other	2,611,870	250,414	274,137	-8.7%	(23,723)
TOTAL REVENUE	3,960,370	1,628,384	1,646,729	-1.1%	(18,345)
% of CY Budget		*41%*			
	Expense = >	**DEC YTD**			
	2025		**2024**		
EXPENSES	**BUDGET**	**ACTUAL**	**ACTUAL**		
Financing	583,553	607,685	588,789	3.2%	18,896
Pond Maintenance	205,768	127,438	96,332	32.3%	31,106
Collection	248,765	246,705	230,115	7.2%	16,590
Billing	70,327	66,009	67,119	-1.7%	(1,110)
Admin	252,393	252,899	253,667	-0.3%	(768)
TOTAL EXPENSE	1,360,806	1,300,736	1,236,022	5.2%	64,714
% of CY Budget		*96%*			
CASH FLOW -OPERATIONS	2,599,564	327,648	410,707		
ADD: DEPRECIATION	510,000	510,000	499,200		
ADD: NEW DEBT	-	450,000	-		
LESS: PRINCIPAL PAID	(370,072)	(370,072)	(370,072)		
LESS: FIXED ASSETS	(3,086,936)	(971,729)	(83,387)		
NET CASH FLOW	(347,444)	(54,153)	456,448		

NOTE :

Continue to see interest and investment income impacted as result of market changes. The unrealized loss that exists now will ***not*** be recognized as long as the assets are held until maturity. The Village invests in varying maturities to match cash flow needs. An unrealized loss exists when a longer term asset the Village owns price has declined in the market place due to varying interest rates. Each month end, Generally Accepted Accounting Principles require that we record an unrealized loss (or gain) to recognize market impacts. The market to face value total for the Village at the end of December is a $90,923 unrealized gain across the Village funds.

Property, Auto and Workers Compensation premiums for all quarters have been paid so twelve months of expense have hit income statement.

Pond maintenance is up from last year as the Pump Switchgear Project is complete.

Capital Contributions (revenue) are not recorded until year end (capital assets paid for by TID or contributed by developers) in the Storm Utility ($2,539,000).

Capital assets are shown as expense in utilities for monitoring until capitalized as part of year end audit preparation.

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VILLAGE OF LITTLE CHUTE
STORM UTILITY
BUDGET STATUS

	2025 BUDGET	2025 ACTUAL	2024 ACTUAL	*% Change from PY*	*$ Change from PY*
	Revenue = >	**OCT YTD**			
REVENUE					
Multi-family Residential	83,500	73,053	69,925	4.5%	3,128
Residential	347,000	285,152	285,903	-0.3%	(751)
Commercial	580,000	493,432	499,015	-1.1%	(5,583)
Industrial	200,000	173,125	172,750	0.2%	375
Public Authority	138,000	115,957	115,658	0.3%	299
Sales Subtotal	1,348,500	1,140,719	1,143,251	*-0.2%*	(2,532)
% of CY Budget		*85%*			
All Other	2,611,870	198,339	223,676	-11.3%	(25,337)
TOTAL REVENUE	3,960,370	1,339,058	1,366,927	-2.0%	(27,869)
% of CY Budget		*34%*			
	Expense = >	**OCT YTD**			
	2025		**2024**		
EXPENSES	**BUDGET**	**ACTUAL**	**ACTUAL**		
Financing	583,553	503,931	505,589	-0.3%	(1,658)
Pond Maintenance	205,768	43,232	84,687	-49.0%	(41,455)
Collection	248,765	182,652	173,974	5.0%	8,678
Billing	70,327	53,907	53,023	1.7%	884
Admin	252,393	213,946	210,843	1.5%	3,103
TOTAL EXPENSE	1,360,806	997,669	1,028,116	-3.0%	(30,447)
% of CY Budget		*73%*			
CASH FLOW -OPERATIONS	2,599,564	341,389	338,811		
ADD: DEPRECIATION	510,000	425,000	416,000		
ADD: NEW DEBT	-		-		
LESS: PRINCIPAL PAID	(370,072)	(370,072)	(370,072)		
LESS: FIXED ASSETS	(3,086,936)	(911,940)	(64,723)		
NET CASH FLOW	(347,444)	(515,623)	320,016		

NOTE :

Continue to see interest and investment income impacted as result of market changes. The unrealized loss that exists now will ***not*** be recognized as long as the assets are held until maturity. The Village invests in varying maturities to match cash flow needs. An unrealized loss exists when a longer term asset the Village owns price has declined in the market place due to varying interest rates. Each month end, Generally Accepted Accounting Principles require that we record an unrealized loss (or gain) to recognize market impacts. The market to face value total for the Village at the end of October is a $83,020 unrealized gain across the Village funds.

Property, Auto and Workers Compensation premiums for all quarters have been paid so twelve months of expense have hit income statement.

Pond maintenance is down from last year as had pump damaged last year in April storm event.

Capital Contributions (revenue) are not recorded until year end (capital assets paid for by TID or contributed by developers) in the Storm Utility ($2,539,000).

Capital assets are shown as expense in utilities for monitoring until capitalized as part of year end audit preparation.

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UTILITY COMMISSION

January 20, 2026

Utility Bills List

The above payments are recommended for approval on January 20, 2026.	**$**	**358,317.19**
Rejected: _____		
UTILITY INVOICES PAID WITH VILLAGE BILLS - DECEMBER 12, - DECEMBER 15, 2025	**$**	**434.02**
UTILITY INVOICES PAID WITH VILLAGE BILLS - DECEMBER 17, 2025 - JANUARY 9, 2026	**$**	**67,211.12**
TOTAL	**$**	**425,962.33**

Approved: January 20, 2026.

_____
Kevin Coffey, Chairperson

_____
Village Clerk

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Report Criteria:
Invoice Detail.GL Account = "62000000000"-"62099999999","61000000000"-"61099999999","63000000000"-"63099999999","41751236204"
Invoice Detail.Voided = {=} FALSE

Invoice	Description	Total Cost	Period	GL Account
ACE HARDWARE LITTLE CHUTE				
290958	PUMP MAINT.	20.43	01/26	620-53624-255
Total ACE HARDWARE LITTLE CHUTE:		20.43		
AUTOMATED COMFORT CONTROLS				
39281	PLANT HEAT MAINT	1,508.13	13/25	620-53634-255
Total AUTOMATED COMFORT CONTROLS:		1,508.13		
BADGER METER INC				
80223020	CELLULAR ENDPOINTS	2,194.01	12/25	620-53904-214
Total BADGER METER INC:		2,194.01		
CLEAN WATER TESTING				
9010996469	WATER TESTING	90.00	13/25	620-53644-204
Total CLEAN WATER TESTING:		90.00		
COMPASS MINERALS AMERICA INC				
1582187	BULK XCS W/S	4,107.11	12/25	620-53634-224
1582192	BULK XCS W/S	4,126.43	12/25	620-53634-224
1589121	BULK XCS W/S	3,938.06	12/25	620-53634-224
1590266	BULK XCS W/S	3,976.70	12/25	620-53634-224
1591353	BULK XCS W/S	3,983.14	12/25	620-53634-224
1593318	BULK XCS W/S	3,905.86	12/25	620-53634-224
Total COMPASS MINERALS AMERICA INC:		24,037.30		
DONALD HIETPAS & SONS INC.				
122925 WATER BR	WATER BREAK	5,917.30	12/25	620-53644-251
Total DONALD HIETPAS & SONS INC.:		5,917.30		
FERGUSON WATERWORKS LLC #1476				
467271	MAIN BREAK	1,550.00	01/26	620-53644-251
467765	HYDRANT PARTS	392.78	01/26	620-53644-254
Total FERGUSON WATERWORKS LLC #1476:		1,942.78		
GRAINGER				
9766941190	TOOLS	351.67	01/26	620-53634-221
Total GRAINGER:		351.67		
HAWKINS INC				
7291077	CHLORINE	710.75	12/25	620-53634-214
7291077	SODIUM SILICATE	3,381.53	12/25	620-53634-220
7301783	CHLORINE	752.28	01/26	620-53634-214
7301783	SODIUM SILICATE	3,541.34	01/26	620-53634-220

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Invoice	Description	Total Cost	Period	GL Account
Total HAWKINS INC:		8,385.90		
HEART OF THE VALLEY				
123125	FOG CONTROL	122.00	12/25	610-53611-204
123125	WASTEWATER	182,065.85	12/25	610-53611-225
123125mp	HOV METER PAYABLE	1,552.00	12/25	610-21110
Total HEART OF THE VALLEY:		183,739.85		
MCMAHON ASSOCIATES INC				
941858	2025 ECOLOGICAL SVC - 8 STORMWATER PONDS	2,100.00	13/25	630-53442-204
Total MCMAHON ASSOCIATES INC:		2,100.00		
MCO				
32502	PROFESSIONAL SERVICES FEBRUARY	44,639.80	01/26	620-53644-115
32540	BILLABLE MILEAGE - DECEMBER	423.50	13/25	620-53644-247
Total MCO:		45,063.30		
OUTAGAMIE COUNTY TREASURER				
103125 DRAINAGE	2025 VANDENBROEK DRAINAGE DIST SPEC ASS	3,760.55	01/26	630-53440-410
Total OUTAGAMIE COUNTY TREASURER:		3,760.55		
POSTAL EXPRESS & MORE LLC				
271480	POSTAGE-WATER TESTS	20.22	12/25	620-53644-204
272682	POSTAGE-WATER TESTS	20.57	01/26	620-53644-204
272688	POSTAGE-WATER TESTS	17.18	01/26	620-53644-204
Total POSTAL EXPRESS & MORE LLC:		57.97		
VINTON CONSTRUCTION COMPANY				
2025003	2025 HOLLAND RD WATER MAIN RELOCATION	15,157.50	13/25	620-51239-263
Total VINTON CONSTRUCTION COMPANY:		15,157.50		
VISU-SEWER LLC				
25101W-11 FINAL	2025 SANITARY LINING	63,990.50	13/25	610-51236-263
Total VISU-SEWER LLC:		63,990.50		
Grand Totals:		358,317.19		

Report GL Period Summary

Vendor number hash:	68693
Vendor number hash - split:	72809
Total number of invoices:	27
Total number of transactions:	30

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Terms Description	Invoice Amount	Net Invoice Amount
Open Terms	358,317.19	358,317.19
Grand Totals:	358,317.19	358,317.19

Report Criteria:

Invoice Detail.GL Account = "62000000000"-"62099999999","61000000000"-"61099999999","63000000000"-"63099999999","41751236204"
Invoice Detail.Voided = {=} FALSE

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Report Criteria:
Invoice Detail.GL Account = "6200000000"-"62099999999","61000000000"-"61099999999","63000000000"-"63099999999"

Invoice	Type	Description	Total Cost	Terms	1099	PO Number	GL Account
AT&T LONG DISTANCE (2751)							
8456268571125	Invoi	OCT/NOV CHARGES	5.04	Open	Non		620-53924-203
Total AT&T LONG DISTANCE (2751):			5.04				
WE ENERGIES (2788)							
5718501214	Invoi	PUMP STATION @ EVERGREEN & FRENCH	69.61	Open	Non		620-53624-249
5718958784	Invoi	920 WASHINGTON ST	12.78	Open	Non		620-53624-249
5719647164	Invoi	PLANT #2 (1118 JEFFERSON ST)	56.86	Open	Non		620-53624-249
5720357588	Invoi	LC WELL #4 PUMPHOUSE (625 E EVERGREEN)	163.34	Open	Non		620-53624-249
5720971256	Invoi	PLANT #1 (100 WILSON ST)	126.39	Open	Non		620-53624-249
Total WE ENERGIES (2788):			428.98				
Grand Totals:			434.02				

Report GL Period Summary

Vendor number hash:	16691
Vendor number hash - split:	16691
Total number of invoices:	6
Total number of transactions:	6

Terms Description	Invoice Amount	Net Invoice Amount
Open Terms	434.02	434.02
Grand Totals:	434.02	434.02

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Report Criteria:
Invoice Detail.GL Account = "6200000000"-"62099999999","61000000000"-"61099999999","63000000000"-"63099999999"

Invoice	Type	Description	Total Cost	Terms	1099	PO Number	GL Account
ASCENSION MEDICAL GROUP-FOX VALLEY WI (2514)							
427124	Invoi	EAP STANDARD SERVICE	58.00	Open	Med		610-53614-204
427124	Invoi	EAP STANDARD SERVICE	58.00	Open	Med		620-53924-204
427124	Invoi	EAP STANDARD SERVICE	58.00	Open	Med		630-53444-204
Total ASCENSION MEDICAL GROUP-FOX VALLEY WI (2514):			174.00				
AT&T (409)							
92078873811225	Invoi	DEC/JAN SERVICE MCO LANDLINE	73.91	Open	Non		620-53924-203
92078873811225	Invoi	DEC/JAN SERVICE SCADA	73.91	Open	Non		620-53924-203
92078873811225	Invoi	DEC/JAN SERVICE SCADA BACKUP	73.91	Open	Non		620-53924-203
92078873811225	Invoi	DEC/JAN SERVICE MCO ON CALL	73.91	Open	Non		620-53924-203
Total AT&T (409):			295.64				
AT&T LONG DISTANCE (2751)							
8456268571225	Invoi	NOV/DEC CHARGES	2.66	Open	Non		620-53924-203
Total AT&T LONG DISTANCE (2751):			2.66				
BATTERIES PLUS LLC (652)							
P88079383	Invoi	SCADA	275.40	Open	Non		620-53644-225
P88192047	Invoi	12V BATTERIES	167.40	Open	Non		620-53644-225
Total BATTERIES PLUS LLC (652):			442.80				
CASELLE LLC (5653)							
14095	Invoi	SEMI ANNUAL SERVICE & SUPPORT	3,049.11	Open	Non		610-53614-208
14095	Invoi	SEMI ANNUAL SERVICE & SUPPORT	2,759.46	Open	Non		620-53924-208
14095	Invoi	SEMI ANNUAL SERVICE & SUPPORT	5,194.34	Open	Non		630-53444-208
Total CASELLE LLC (5653):			11,002.91				
CELLCOM (4683)							
503926	Invoi	SANITARY SEWER I-PAD	15.77	Open	Non		610-53612-218
503926	Invoi	STORM I-PADS	15.77	Open	Non		630-53442-218
Total CELLCOM (4683):			31.54				
DIGGERS HOTLINE INC (1380)							
251159201	Invoi	NOVEMBER LOCATES	27.20	Open	Non		610-53612-209
251159201	Invoi	NOVEMBER LOCATES	27.20	Open	Non		620-53644-209
251159201	Invoi	NOVEMBER LOCATES	27.20	Open	Non		630-53442-209
Total DIGGERS HOTLINE INC (1380):			81.60				
EHLERS INVESTMENT PARTNERS LLC (1425)							
101548PA	Invoi	PROMISSORY NOTES, SERIES 2017B	1.00	Open	Non		620-53924-204
Total EHLERS INVESTMENT PARTNERS LLC (1425):			1.00				
FARRELL EQUIPMENT & SUPPLY CO INC (4598)							
282604	Invoi	TOOLS TO FIX I&I USING ELEPHANT ARMOR	110.95	Open	Non		610-53612-256

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Invoice	Type	Description	Total Cost	Terms	1099	PO Number	GL Account
Total FARRELL EQUIPMENT & SUPPLY CO INC (4598):			110.95				
FERGUSON WATERWORKS LLC #1476 (221)							
464816	Invoi	METER PARTS	1,413.50	Open	Non		620-53644-253
Total FERGUSON WATERWORKS LLC #1476 (221):			1,413.50				
FOX-WOLF WATERSHED ALLIANCE (3415)							
2026 NEWSC MEM	Invoi	2026 NEWSC MEMBERSHIP DUES	2,055.00	Open	Non		630-53444-225
Total FOX-WOLF WATERSHED ALLIANCE (3415):			2,055.00				
GARROW OIL (4236)							
449186	Invoi	FUEL	6.71	Open	Non		610-53612-247
449186	Invoi	FUEL	20.86	Open	Non		620-53644-247
449186	Invoi	FUEL	177.96	Open	Non		630-53442-247
Total GARROW OIL (4236):			205.53				
GAT SUPPLY INC (3949)							
4609621	Invoi	SEWER/ROAD/H20 TEMP GAUGE	179.94	Open	Non		610-53612-221
Total GAT SUPPLY INC (3949):			179.94				
HAWKINS INC (1918)							
7278089	Invoi	CHLORINE	827.03	Open	Non		620-53634-214
7278089	Invoi	SODIUM SILICATE	3,892.92	Open	Non		620-53634-220
Total HAWKINS INC (1918):			4,719.95				
HEARTLAND BUSINESS SYSTEMS (3449)							
847674H	Invoi	UTILITY POSTCARDS	115.64	Open	Non		610-53614-206
847674H	Invoi	UTILITY POSTCARDS	115.64	Open	Non		620-53904-206
847674H	Invoi	UTILITY POSTCARDS	115.64	Open	Non		630-53443-206
850294H	Invoi	UTILITY POSTCARDS	116.13	Open	Non		610-53614-206
850294H	Invoi	UTILITY POSTCARDS	116.13	Open	Non		620-53904-206
850294H	Invoi	UTILITY POSTCARDS	116.13	Open	Non		630-53443-206
Total HEARTLAND BUSINESS SYSTEMS (3449):			695.31				
JOE'S POWER CENTER (232)							
203873	Invoi	NEW MOWER FOR POND AND SW CORRIDOR MAI	11,073.16	Open	Non		630-53441-301
Total JOE'S POWER CENTER (232):			11,073.16				
KAUKAUNA UTILITIES (234)							
220401001225	Invoi	PUMP STATION JEFFERSON ST	1,690.75	Open	Non		620-53624-249
260902021225	Invoi	#4 WELL EVERGREEN DRIVE	4,146.77	Open	Non		620-53624-249
282179011225	Invoi	1800 STEPHEN ST STORM	316.44	Open	Non		630-53441-249
282182001225	Invoi	STEPHEN ST TOWER/LIGHTING	180.83	Open	Non		620-53624-249
282915001225	Invoi	#3 WELL WASHINGTON ST	3,951.25	Open	Non		620-53624-249
9012695001225	Invoi	DOYLE PARK WELL	4,497.58	Open	Non		620-53624-249
Total KAUKAUNA UTILITIES (234):			14,783.62				

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Invoice	Type	Description	Total Cost	Terms	1099	PO Number	GL Account
LAZER UTILITY LOCATING LLC (5357)							
2321	Invoi	SANITARY LOCATES	363.00	Open	Non		610-53612-209
2321	Invoi	STORM LOCATES	385.00	Open	Non		630-53442-209
2321	Invoi	WATER LOCATES	836.00	Open	Non		620-53644-209
Total LAZER UTILITY LOCATING LLC (5357):			1,584.00				
LIFT SOLUTIONS HOLDING LLC (5656)							
4889580	Invoi	SAFETY CHAINS AND STRAPS	1,697.00	Open	Non		630-53444-221
Total LIFT SOLUTIONS HOLDING LLC (5656):			1,697.00				
MCMAHON ASSOCIATES INC (276)							
941469	Invoi	PROFESSIONAL SVC 9/28-11/1/25 STORM SEWER	1,584.51	Open	Non		630-51237-204
941769	Invoi	POND VEGETATION MANAGEMENT	3,011.70	Open	Non		630-53441-253
Total MCMAHON ASSOCIATES INC (276):			4,596.21				
MIDWEST METER INC (4407)							
184263	Invoi	WELL METER	4,960.00	Open	Non		620-53604-257
Total MIDWEST METER INC (4407):			4,960.00				
OUTAGAMIE COUNTY HIGHWAY DEPT (2053)							
1022264	Invoi	FUEL	37.02	Open	Non		610-53612-247
1022264	Invoi	FUEL	305.27	Open	Non		620-53644-247
1022264	Invoi	FUEL	2,409.30	Open	Non		630-53442-247
Total OUTAGAMIE COUNTY HIGHWAY DEPT (2053):			2,751.59				
P.J. KORTENS AND COMPANY INC (4846)							
10025881	Invoi	SCADA	381.25	Open	Non		620-53644-225
Total P.J. KORTENS AND COMPANY INC (4846):			381.25				
PRIMADATA LLC (4671)							
72902	Invoi	POSTCARD POSTAGE	350.00	Open	Non		620-53904-226
72902	Invoi	POSTCARD POSTAGE	350.00	Open	Non		610-53613-226
72902	Invoi	POSTCARD POSTAGE	350.00	Open	Non		630-53443-226
JANUARY 2026	Invoi	POSTCARD POSTAGE	350.00	Open	Non		620-53904-226
JANUARY 2026	Invoi	POSTCARD POSTAGE	350.00	Open	Non		610-53613-226
JANUARY 2026	Invoi	POSTCARD POSTAGE	350.00	Open	Non		630-53443-226
Total PRIMADATA LLC (4671):			2,100.00				
S.I. METALS & SUPPLY (2964)							
304095	Invoi	WELDING RACKS	106.00	Open	Non		630-53442-251
Total S.I. METALS & SUPPLY (2964):			106.00				
U.S. BANK (5015)							
40191125	Invoi	AMAZON MKTP MANHOLE COVER HOOK, TRUCK	193.94	Open	Non		610-53612-221
40191125	Invoi	COUNTY MATERIALS GREEN BA - JT TIES	960.00	Open	Non		630-53442-251
40191125	Invoi	AMAZON MKTPL OFFICE SUPPLIES	55.84	Open	Non		620-53924-206
40191125	Invoi	ENVIROCERT INTERNATIONAL	201.83	Open	Non		630-53444-208

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Invoice	Type	Description	Total Cost	Terms	1099	PO Number	GL Account
Total U.S. BANK (5015):			1,411.61				
VERBOOMEN, TODD (5578)							
EXPRPT112225	Invoi	FEARLESS PERFORMANCE MANAGEMENT TRAIN	22.00	Open	Non		630-53442-201
Total VERBOOMEN, TODD (5578):			22.00				
VERIZON WIRELESS (3606)							
613096902	Invoi	NOV/DEC	73.75	Open	Non		620-53924-203
Total VERIZON WIRELESS (3606):			73.75				
VILLAGE OF LITTLE CHUTE (1404)							
260425200-25	Invoi	1200 STEPHEN ST	3.68	Open	Non		620-53624-249
5220401001225	Invoi	PUMP STATION JEFFERSON ST	37.75	Open	Non		620-53624-249
5262080081225	Invoi	3609 FREEDOM RD-WATER/SEWER	18.15	Open	Non		630-53441-249
5282915001225	Invoi	#3 WELL WASHINGTON ST	12.38	Open	Non		620-53624-249
5290009001225	Invoi	625 E EVERGREEN DR	156.94	Open	Non		620-53624-249
5290010001225	Invoi	1200 STEPHEN ST	29.70	Open	Non		620-53624-249
Total VILLAGE OF LITTLE CHUTE (1404):			258.60				
Grand Totals:			67,211.12				

Report GL Period Summary

Vendor number hash:	104790
Vendor number hash - split:	202529
Total number of invoices:	43
Total number of transactions:	71

Terms Description	Invoice Amount	Net Invoice Amount
Open Terms	67,211.12	67,211.12
Grand Totals:	67,211.12	67,211.12

Report Criteria:
Invoice Detail.GL Account = "6200000000"-"62099999999","61000000000"-"61099999999","63000000000"-"63099999999"

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