



PUBLIC WORKS, SEWER & WATER COMMITTEE-

DATE: Monday, June 22, 2026

TIME: 5:30 PM

LOCATION: VERONA CITY HALL
ROOM D122
111 LINCOLN STREET
VERONA, WI 53593

1. Call to Order
2. Roll
3. Public Comment
4. Approval of the Minutes:
5. **Discussion:** Water Supply Service Area Plan Presentation Stand Associates
6. **Discussion and Possible Action:** Project 2024-105 Mark Drive Reconstruction. Pay request #5 James Peterson and Sons Inc.
7. **Discussion and Possible Action:** Project 2026-100 Pavement Surface Treatment (Chip Seal)
8. **Discussion and Possible Action:** Project 2026-102 GSB-88 Bituminous Sealing
9. **Discussion and Possible Action:** Old Hwy PB (south) from CTH M to CTH PB and American Way Jurisdictional Transfer
10. Staff Report:
11. Adjourn

Beth Tucker Long - Chairperson

POSTED: June 19, 2026

POSTED: Verona City Hall
Verona Public Library
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WRITTEN COMMENTS: You can send comments to the Public Works, Sewer & Water Committee on any matter, either on or not on the agenda, by emailing bmanning@veronawi.gov or in writing to Public Works, Sewer & Water Committee, 410 Investment Court, Verona, WI, 53593.

Notice: If you need an interpreter, materials in alternative formats, or other accommodation to access the meeting, please contact the City Clerk at (608) 845-6495 at least 48-hours preceding the meeting. Every reasonable effort will be made to accommodate your request. Notice is hereby given that a majority of the City Council may be present at the meeting of the Public Works, Sewer & Water Committee to gather information about a subject over which they have decision-making responsibility. The City Council and any other standing committees will not take formal action at this meeting.



PUBLIC WORKS, SEWER & WATER COMMITTEE-

DATE: Monday, June 8, 2026 TIME: 5:30 PM

LOCATION: VERONA CITY HALL
ROOM D122
111 LINCOLN STREET
VERONA, WI 53593

1. Call to Order **Meeting called to order at 5:33 pm by Alder Beth Tucker Long.**
2. Roll **Beth Tucker Long, Ajeandro Hernandez, Chris Weiss, also present Carla Fisher-AE-COM, Jamie Aulik-City Administrator, Eric Dundee-MMSD, Mike Trotter- Assistant Public Works Director**
3. Public Comment **None**
4. Approval of the Minutes: **Moved by Alder Weiss and seconded by Alder Hernandez to approve the minutes of April 27 meeting. Motion passed 3-0.**
5. **Discussion:** Madison Metropolitan Sewage District Presentation
6. **Discussion and Possible Action:** Project 2022-107 Military State Trail Pedestrian Structures, Janke General Contractors. **Move by Alder Weiss and seconded by Alder Hernandez to recommend approval of awarding Project 2022-107 Military Ridge State Trail - Bridges (Janke General Contractors, Inc) for a contract sum not to exceed \$1,607,360.37. Motion passed 3-0.**
7. **Discussion and Possible Action:** Project 2022-107 Military State Trail Pedestrian Structures, MSA Design, additional services change order #1. **Moved by Alder Weiss and seconded by Alder Hernandez to approve Project 2022-107 Military State Trail Pedestrian Structures MSA Design, additional services change order #1 for a sum not to exceed \$36,683.00. Motion passed 3-0.**
8. **Discussion and Possible Action:** Project 2026-105 Shuman, Marietta Reconstruction Design Service Agreement KL Engineering. **Moved by Alder Tucker Long and seconded by Alder Hernandez to recommend approval of Project 2026-105 Shuman, Marietta Reconstruction Design service agreement KL Engineering for a sum not to exceed \$317,275.00. Motion passed 3-0.**
9. **Discussion and Possible Action:** Agreement to Apportion MMSD Connection Fees. **Moved by Alder Weiss and seconded by Alder Tucker Long to recommend approval of the Public Utility Extension Agreement. Motion passed 3-0.**

Discussion and Possible Action: Ordinance No. 26-1098 - Repealing and Recreating Title 8, Chapter 3 - Refuse Disposal and Collection; Recycling. **Moved by Alder Tucker Long and seconded by Alder Weiss to recommend approval of Ordinance No. 26-1098 - Repealing and Recreating Title 8, Chapter 3 - Refuse Disposal and Collection; Recycling. Motion passed 3-0.**

10. **Discussion and Possible Action:** Implementation of a Rectangular Rapid Flashing Beacon Policy. ***Move by Alder Weiss and seconded by Alder Hernandez to recommend approval of the Rectangular Rapid Flashing Beacon Policy with edits. Motion passed 3-0.***

11. **Discussion and Possible Action:** Implementation of a Roadway Striping Policy. ***Move by Alder Tucker Long and Seconded by Alder Weiss to recommend approval of the Roadway Striping Policy with edits. Motion passed 3-0.***

12. Staff Report:

13. Adjourn ***Moved by Alder Weiss and seconded by Alder Tucker Long to Adjourn at 6:42pm. Motion passed 3-0.***

Beth Tucker Long - Chairperson

POSTED: June 4, 2026

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WRITTEN COMMENTS: You can send comments to the Public Works, Sewer & Water Committee on any matter, either on or not on the agenda, by emailing bmannings@veronawi.gov or in writing to Public Works, Sewer & Water Committee, 410 Investment Court, Verona, WI, 53593.

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Public Works/Sewer & Water Committee

Listed below is an explanation of the items on the Public Works/Sewer & Water Committee agenda.

Item (5) Discussion: Water Supply Service Area Plan Presentation Stand Associates

Memo: Wisconsin Administrative Code NR 854 NR 854 Water Supply Service Area Plans - Wisconsin DNR requires public water supply systems serving 10,000+ people to prepare Water Supply Service Area Plan. These plans help utilities forecast demands, delineate future service boundaries, and ensure sustainable water withdrawals over a 10-to-20-year planning period.

Recommended Motion: *Move to approve the Water Supply Service Area Plan*

Item (6) Discussion and Possible Action: Project 2024-105 Mark Drive Reconstruction. Pay request #5 James Peterson and Sons Inc.

Memo: This pay application is for work performed installing storm sewer, sanitary, and water main with hydrants and services. The work and pay application were inspected, verified, and reviewed by staff.

Recommended Motion: *Move to approve Project 2024-105 Mark Drive Reconstruction Pay request #5 James Peterson and Sons Inc. for a sum not to exceed \$430,671.85*

Item (7) Discussion and Possible Action: Project 2026-100 Pavement Surface Treatment (Chip Sealing)

Memo: This is the annual Chip seal contract. City staff received bids using the Quest Online bidding system for Wisconsin and received 2 bids. Staff have reviewed the bids and have worked with Scott Construction in the past and recommend awarding the contract to them.

Recommended Motion: *Move to recommend approval Project 2026-100 Pavement Surface Treatment (chip sealing), Scott Construction Inc. for a sum not to exceed \$146,151.45.*

Item (8) Discussion and Possible Action: Project 2026-102 GSB-88 Bituminous Sealing

Memo: GSB-88® (Gilsonite Sealer-Binder) is a chemically engineered, emulsion-based restorative asphalt sealer designed to preserve and extend the lifespan of pavements in fair to good condition. City staff received bids using the Quest Online bidding system for Wisconsin and received 1 bid. Staff have worked with Fahrner Asphalt Sealers LLC in the past.

Recommended Motion: Move to recommend approval Project 2026-102 GSB-88 Bituminous Sealing, Fahrner Asphalt Sealers LLC. for a sum not to exceed \$72,403.39

Item (9) Discussion and Possible Action: Old Hwy PB (south) from CTH M to CTH PB and American Way Jurisdictional Transfer

Memo: Dane County Hwy is looking at transferring this right of way to the City of Verona. We have water and sanitary easements located at this property and recommend that we accept the Jurisdictional Transfer.

Recommended Motion: Move to recommend Jurisdictional Transfer Old Hwy PB (south) from CTH M to CTH PB and American Way from Dane County to City of Verona.

Staff Report

Streets

sidewalk work	curb and gutter repair
street sweeping	asphalt repairs
basin mowing	

Utility Progress Update

- | | |
|-----------------------------|------------------|
| • Risk & Resilience Report | Hydrant painting |
| • Water Master Plan Report | Hydrant flushing |
| • Monthly Samples – Reports | Valve turning |
| • Lead & Copper Testing | |
| • Construction Projects | |



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Water Supply Service Area Plan (WSSAP)

City of Verona, Wisconsin

June 22, 2026



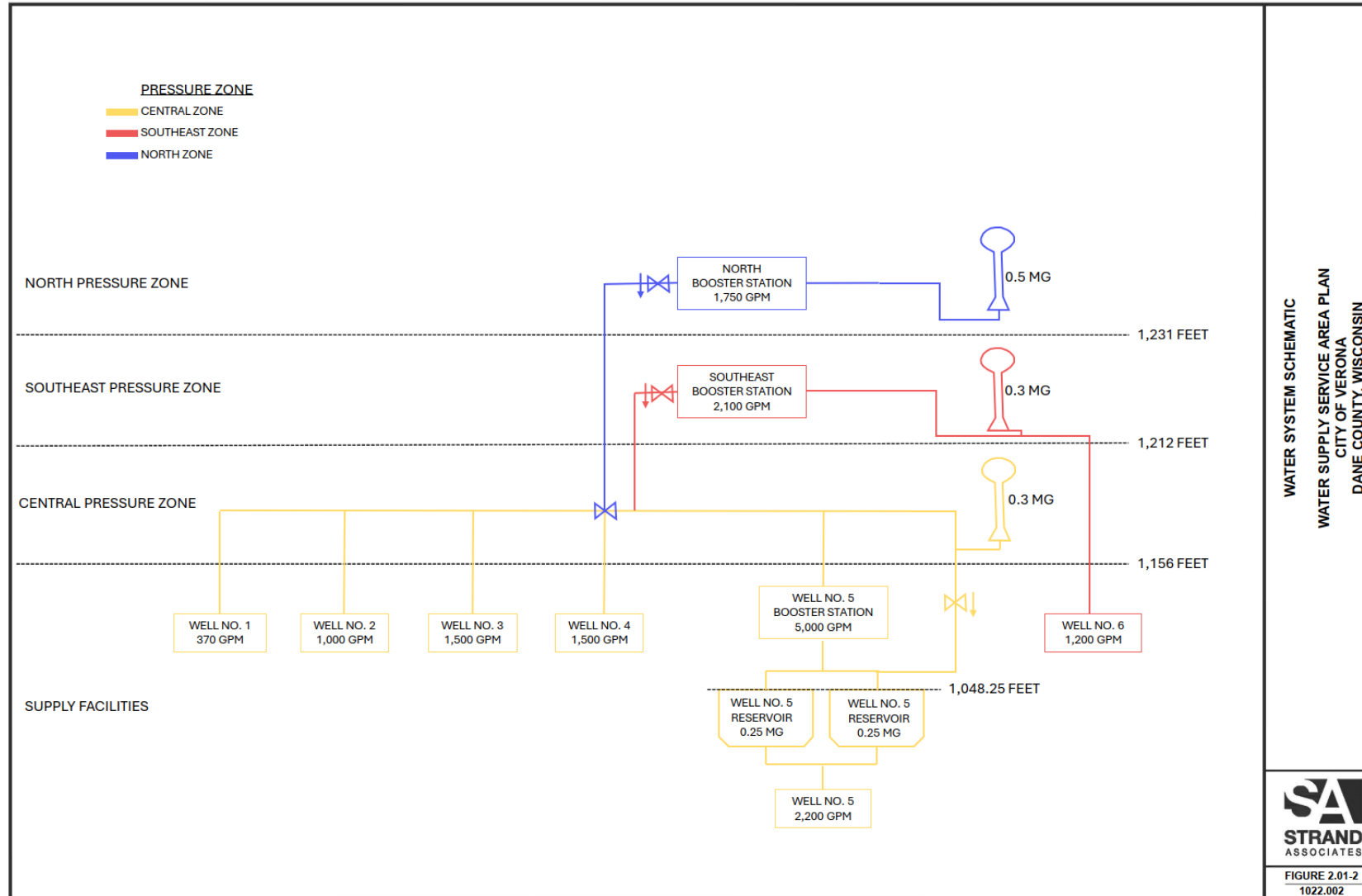
NR 854 WSSAP

- Purpose of NR 854
 - Establishes procedures and requirements for public water supply systems to follow to help ensure systems can provide adequate supply of water to their customers
- NR 854 applies to
 - Public water systems serving a population of 10,000 or more that operate their own wells or surface water intakes
- WSSAP must be submitted when additional withdrawal from the Great Lakes basin requires a new or increased water use permit
- WSSAP reviewed every 5 years

Key Elements to Include in WSSAP

- Information about existing water sources, population projections and future water demands
- Inventory of the sources and quantities of the current water supplies in the area
- Identification of water supply options
- Delineation of the area to which the public water system may provide water
- An assessment of the environmental impacts of carrying out any significant recommendations of the plan
- An analysis of how the WSSAP aligns with existing comprehensive and wastewater facility plans
- An opportunity for the public to provide comment on the proposed WSSAP

Water System Schematic Displays Flow of Water Through the System



Existing Supply and Storage Capacities

Well No.	Well Capacity (gpm)
1	370
2	1,000
3	1,500
4	1,500
5*	2,200
6	2,000
Total Capacity	8,570
Firm Capacity	6,370

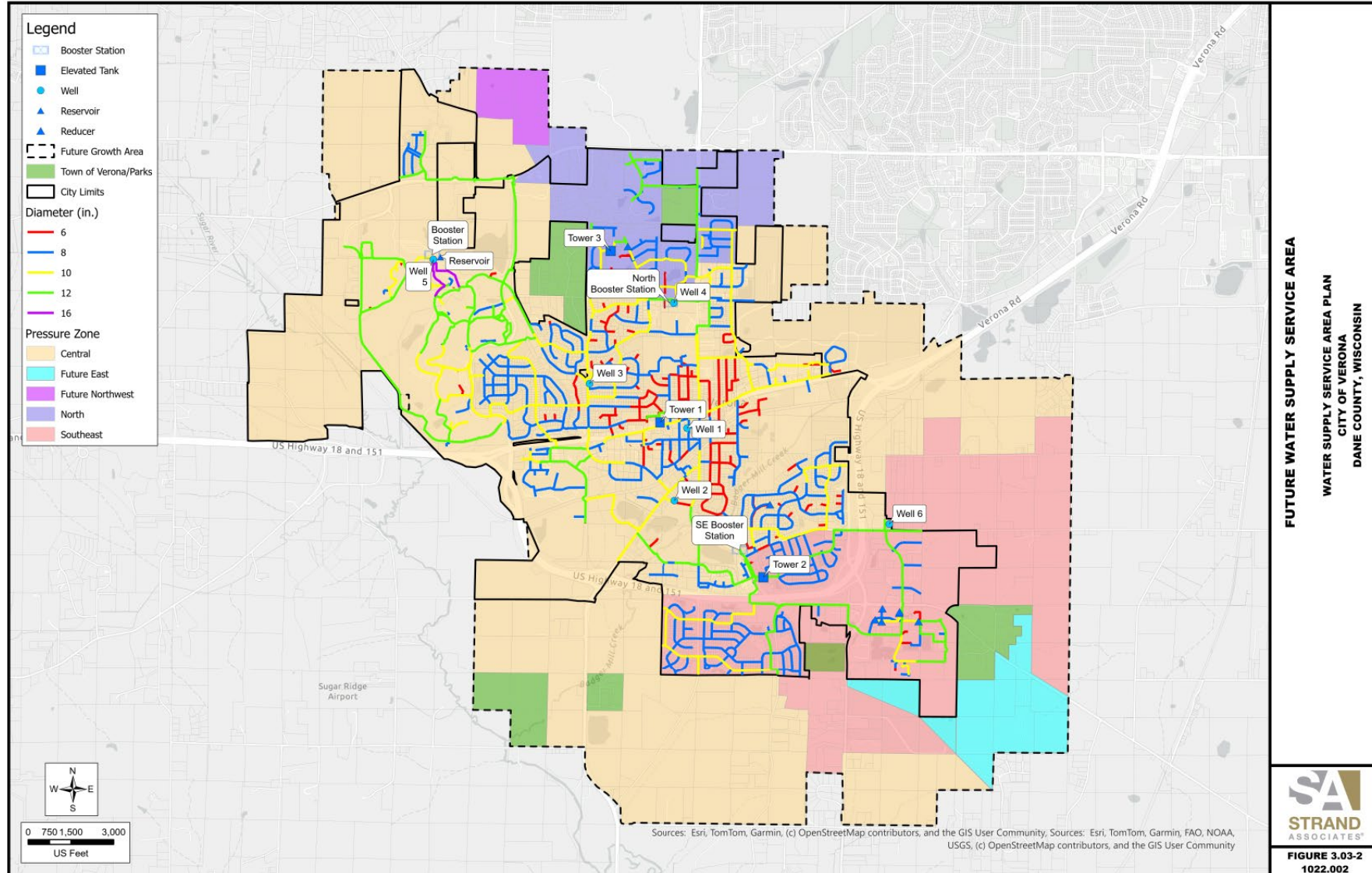
*Well No. 5 being the firm well.

Table 2.02-1 Well Capacities

Storage Facility	Year Constructed	Last Rehabilitated	Capacity (gallons)	Overflow Elevation (feet)	Pressure Zone
Tower 1–Central Tower	1974	2019, Exterior	300,000	1,156	Central
Tower 2–Southeast Tower	2000	2019, Exterior	300,000	1,212	Southeast
Tower 3–North Tower	2009	2024, Interior 2020, Exterior	500,000	1,231	North
Total Elevated Storage			1,100,000		
Well No. 5 Reservoir	2012		500,000	1,048.25	Central
Total Ground Storage			500,000		
Total Storage			1,600,000		

Table 2.03-1 Storage Summary

Existing and Future Services Areas Identified



Per Capita Sales by Category Are Generally Stable

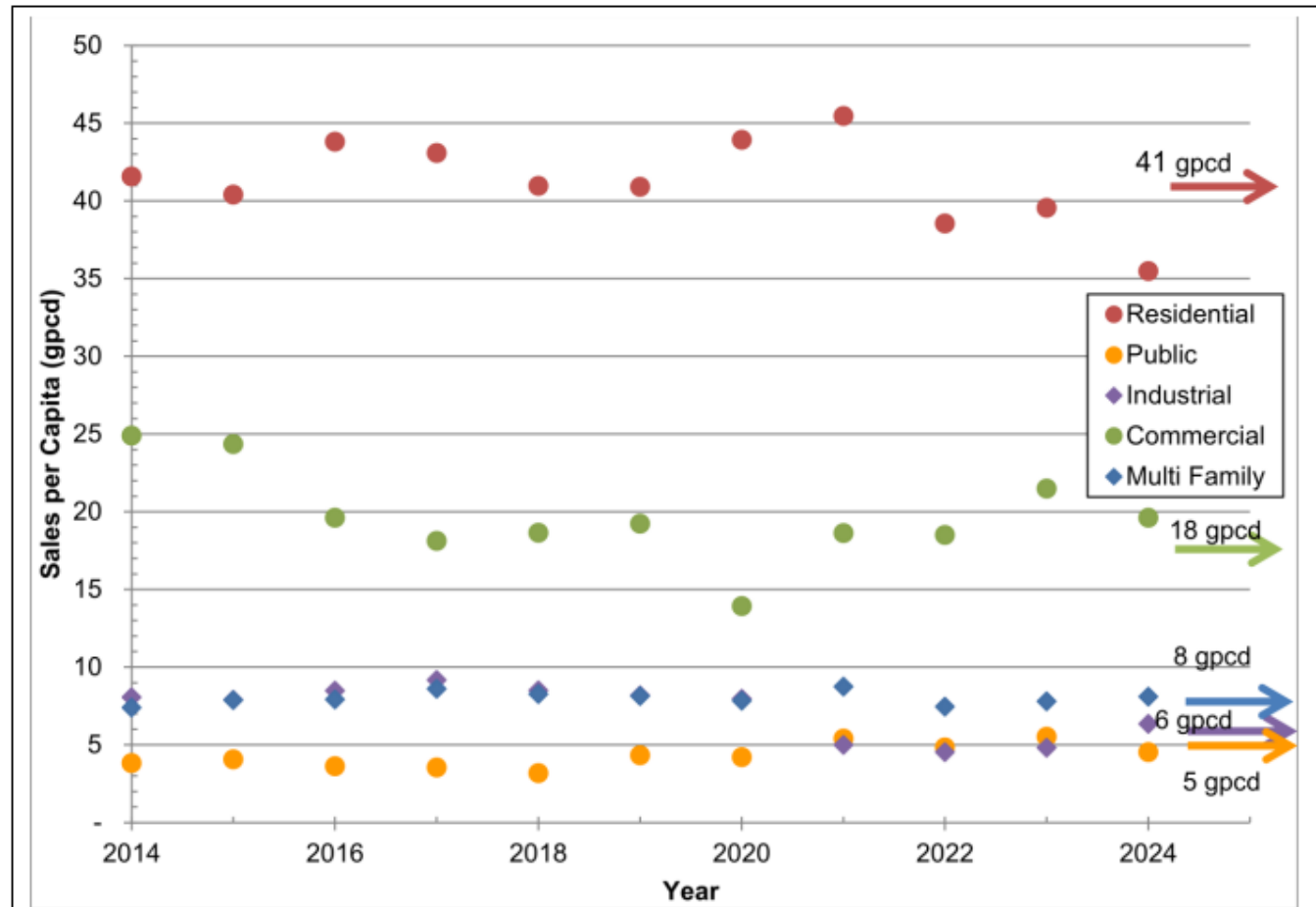
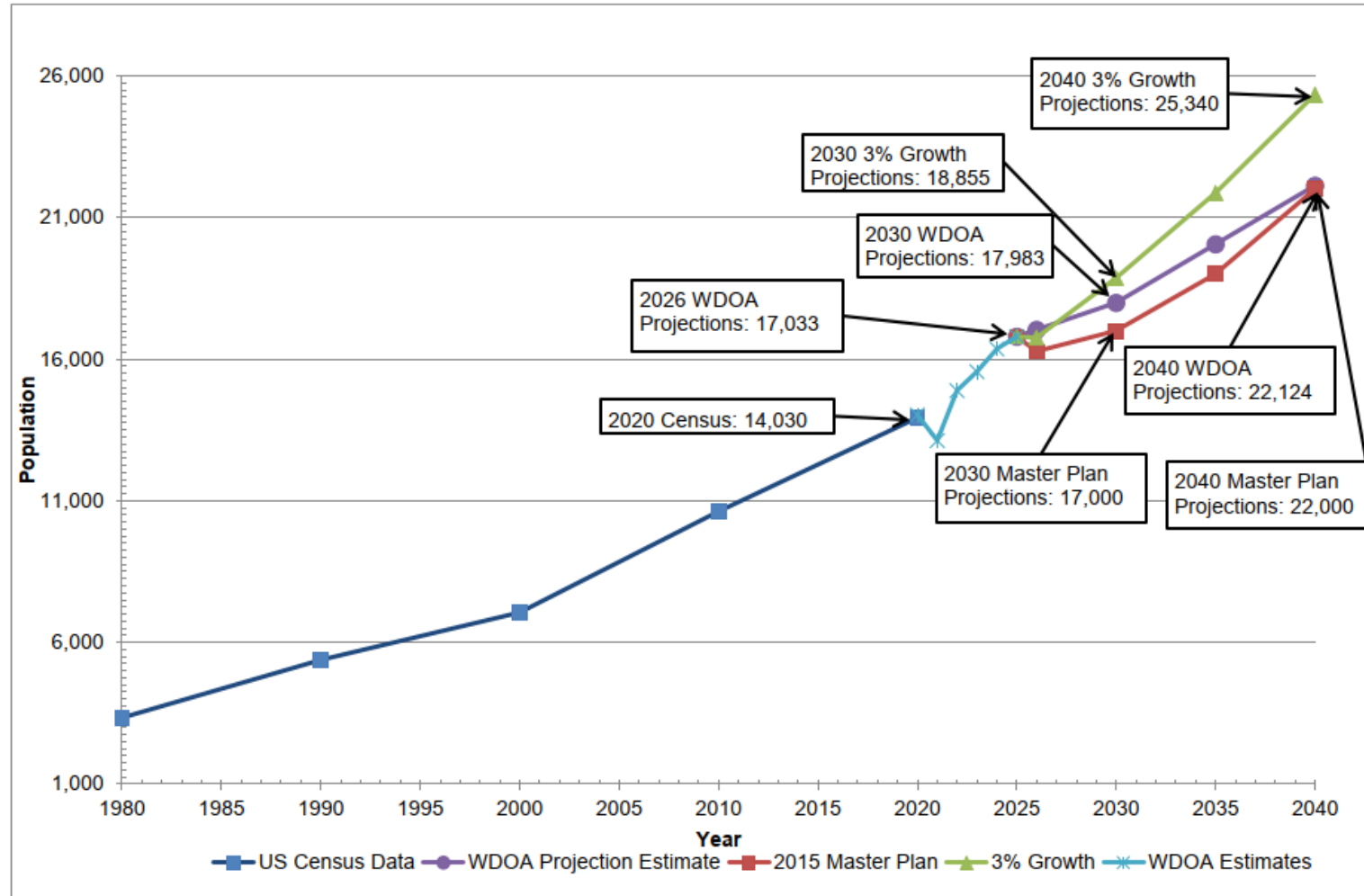


Figure 3.02-3 Per Capita Sales by Category

Population Projections Result in High and Low Demand Projections

Figure 3.03-1 Population Chart



Current and Future High Growth Demand Projections Provides Conservative Planning

Design Year	Design Population	ADD		MDD		Peak Hour Demand	
		gpm	MGD	gpm	MGD	gpm	MGD
2026	16,796	1,002	1.44	1,936	2.79	2,632	3.79
2030	17,983	1,067	1.54	2,061	2.97	2,803	4.04
2035	20,054	1,190	1.71	2,299	3.31	3,126	4.50
2040	22,124	1,313	1.89	2,536	3.65	3,449	4.97

Table 3.04-1 Projected Domestic Demands

Firm Well Capacity = 6,370 gpm
2040 Maximum Day Demand = 2,536 gpm

3,834 gpm of reserve well capacity

Capacity Analysis Identifies Surplus in Supply and Storage

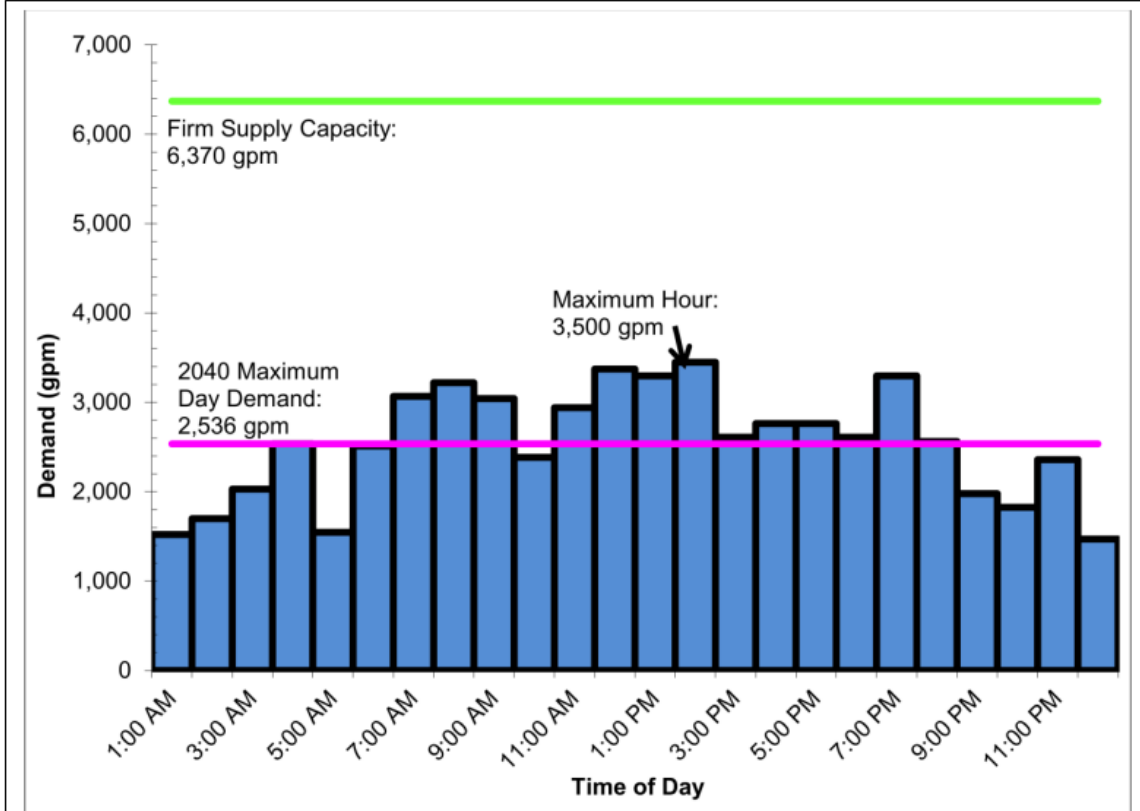


Figure 4.03-1 2040 Projected Maximum Day Hourly Demands

MDD	- 2,536 gpm
Fire Demand	- 3,500 gpm
Firm Well Capacity	+ 6,370 gpm
EST Capacity*	+ 4,583 gpm
Well No. 5 Reservoir Capacity**	+ 2,083 gpm
Total	+ 7,000 gpm

*Storage capacity=825,000 gallons per 180 minutes
 **Reservoir capacity=375,000 gallons per 180 minutes

1.3 MG of storage reserve

Water Source Alternatives

- Sand and gravel aquifer
 - Private wells, not recommended for public supply
- Upper bedrock aquifer
 - Well No. 1
- Lower bedrock aquifer
 - Well No. 6 currently
- Mixed upper and lower aquifers
 - Four wells (Well Nos. 2, 3, 4, and 5)
 - Well No. 6 originally
- Surface Water
 - Current system not prepared for source
- Interconnection
 - No review of viability has been conducted yet
 - Fitchburg, Middleton, and Mount Horeb

Summary

- Well supply surplus of 3,834 gpm in the year 2040 under the demand projections
- Water storage surplus of 1.3 MG in the year 2040 under the demand projections
- No significant changes to source water anticipated

- WSSAP is not intended to take the place of a detailed Water System Plan. A more detailed Water System Plan will be prepared in the near future to align with a future updated to the City Comprehensive Plan and to understand overall system operational and maintenance needs.

Questions?





STRAND

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Report for
City of Verona, Wisconsin

Water Supply Service Area Plan

Prepared by:

STRAND ASSOCIATES, INC.®
910 West Wingra Drive
Madison, WI 53715
www.strand.com

June 2026



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Page No.
or Following

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**SECTION 1
INTRODUCTION**

1.01 PURPOSE AND REQUIREMENTS

The purpose of this Water Supply Service Area Plan (Plan) is to satisfy the requirements of the Wisconsin Department of Natural Resources (WDNR) administrative rule, Chapter Natural Resource (NR) 854. The rule requires water systems with a service population of greater than 10,000 people to prepare a Plan. The City of Verona, Wisconsin (City) serves approximately 16,000 people. The Plan is intended to provide the City with a means of planning for water supply needs at least 10 years and no more than 20 years. This Plan will need to be reviewed every 5 years and expires at the end of the planning period. A new Plan will be required for WDNR review and approval if the City is pursuing a new source of supply from the Great Lakes Basin. Strand Associates, Inc.[®] (Strand) also suggests the Plan be reevaluated if a new large user is served by the City.

1.02 SCOPE

This Plan will meet each requirement, if applicable, identified in NR 854. The requirements generally include the following information.

1. Prepare an inventory of existing water system facilities.
2. Review historic water system demands.
3. Summarize City population projections using regulatory agency estimates.
4. Review water use for the future water service area through the planning period.
5. Present water demand projections for design years 2026, 2030, and 2040 based on historical water use, population future demands, and water service area.
6. Demonstrate water system capacity needs for design years 2026, 2030, and 2040 with respect to average day demand (ADD), maximum day demand (MDD), and maximum day plus fire demands.
7. Review water supply alternatives for meeting water system capacity needs through the planning period.
8. Provide water supply recommendations for meeting water system capacity needs through the planning period.

1.03 REFERENCES

The following references were used to prepare the Plan.

1. *Water System Master Plan City of Verona, Wisconsin*, November 2015, by AECOM
2. Public Service Commission of Wisconsin (PSCW) *Water, Electrical, Gas, or Joint Utility Annual Reports* (WEGS Reports)

1.04 ABBREVIATIONS AND DEFINITIONS

ADD	average day demand
City	City of Verona, Wisconsin
Epic	Epic Systems
EST	elevated storage tank
gpcd	gallons per capita per day
gpd	gallons per day
gpm	gallons per minute
gpy	gallons per year
ISO	Insurance Service Office
MDD	maximum day demand
MG	million gallons
MGD	million gallons per day
NA	not available
NR	Chapter Natural Resources
Plan	Water Supply Service Area Plan
PSCW	Public Service Commission of Wisconsin
Strand	Strand Associates, Inc. [®]
US	United States
WDNR	Wisconsin Department of Natural Resources
WDOA	Wisconsin Department of Administration
WEGS Reports	<i>Water, Electrical, Gas, or Joint Utility Annual Reports</i>

**SECTION 2
SYSTEM INVENTORY**

2.01 SYSTEM OVERVIEW

The City owns and operates six groundwater wells within well houses, three elevated storage tanks (EST), two ground-level reservoirs, three interzonal booster stations that supply water through three pressure zones, and approximately 90 miles of distribution water main. The water main ranges in size from 6 to 16 inches in diameter. Table 2.01-1 summarizes the quantity of water main in the distribution system as reported to the PSCW at the end of 2024. A map of the distribution system, water system components, and pressure zone service area can be found in Figure 2.01-1. A schematic of how the water system components are connected to each other in relation to their pressure zone can be found in Figure 2.01-2.

Water Main Diameter (inches)	Length (feet)	Percent of Total (%)
6	66,783	14
8	183,984	39
10	120,614	25
12	98,796	21
16	3,273	1
Total	473,450	100

Table 2.01-1 Existing Distribution System Water Main Inventory

2.02 WELL SUPPLY

Six groundwater wells supply the distribution system. Table 2.02-1 presents the rated well capacity of each well and the total and firm well capacity of the system. These capacities will be used for evaluating the ability of the system to meet present and future projected demands. The total current well capacity is 8,570 gallons per minute (gpm), or 12.34 million gallons per day (MGD). The current firm well capacity, defined as the total well capacity with the largest producing well (Well No. 5) out of service, is 6,370 gpm or 9.17 MGD.








Well No.	Well Capacity (gpm)
1	370
2	1,000
3	1,500
4	1,500
5*	2,200
6	2,000
Total Capacity	8,570
Firm Capacity	6,370

*Well No. 5 being the firm well.




Table 2.02-1 Well Capacities

The following section provides a description of the existing wells and well facilities in the distribution system.






Legend

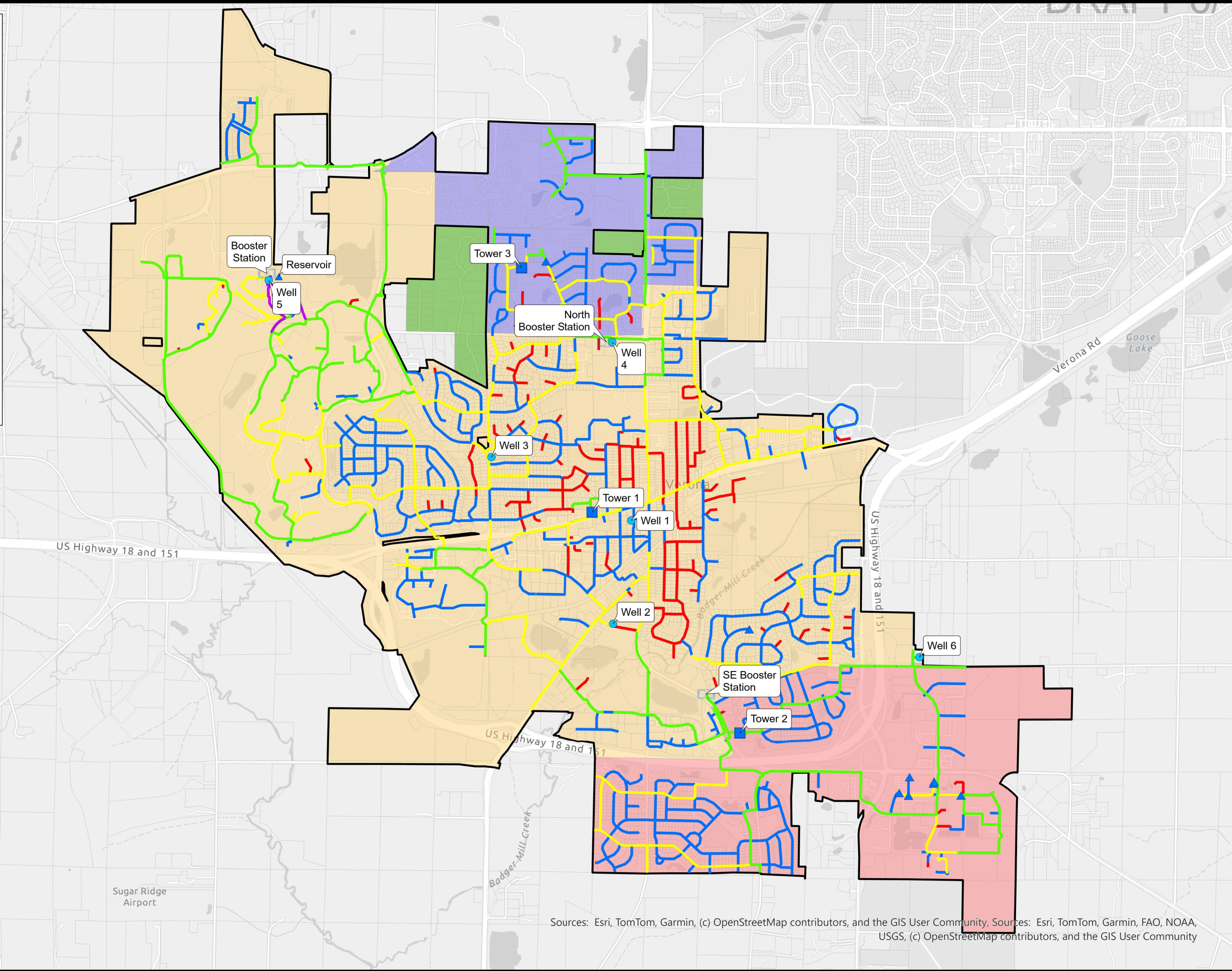
-  Booster Station
-  Elevated Tank
-  Well
-  Reservoir
-  Reducer
-  Town of Verona/Parks
-  City Limits

Pressure Zone

-  Central
-  North
-  Southeast

Diameter (in.)

-  6
-  8
-  10
-  12
-  16



EXISTING WATER SUPPLY SERVICE AREA
WATER SUPPLY SERVICE AREA PLAN
CITY OF VERONA
DANE COUNTY, WISCONSIN



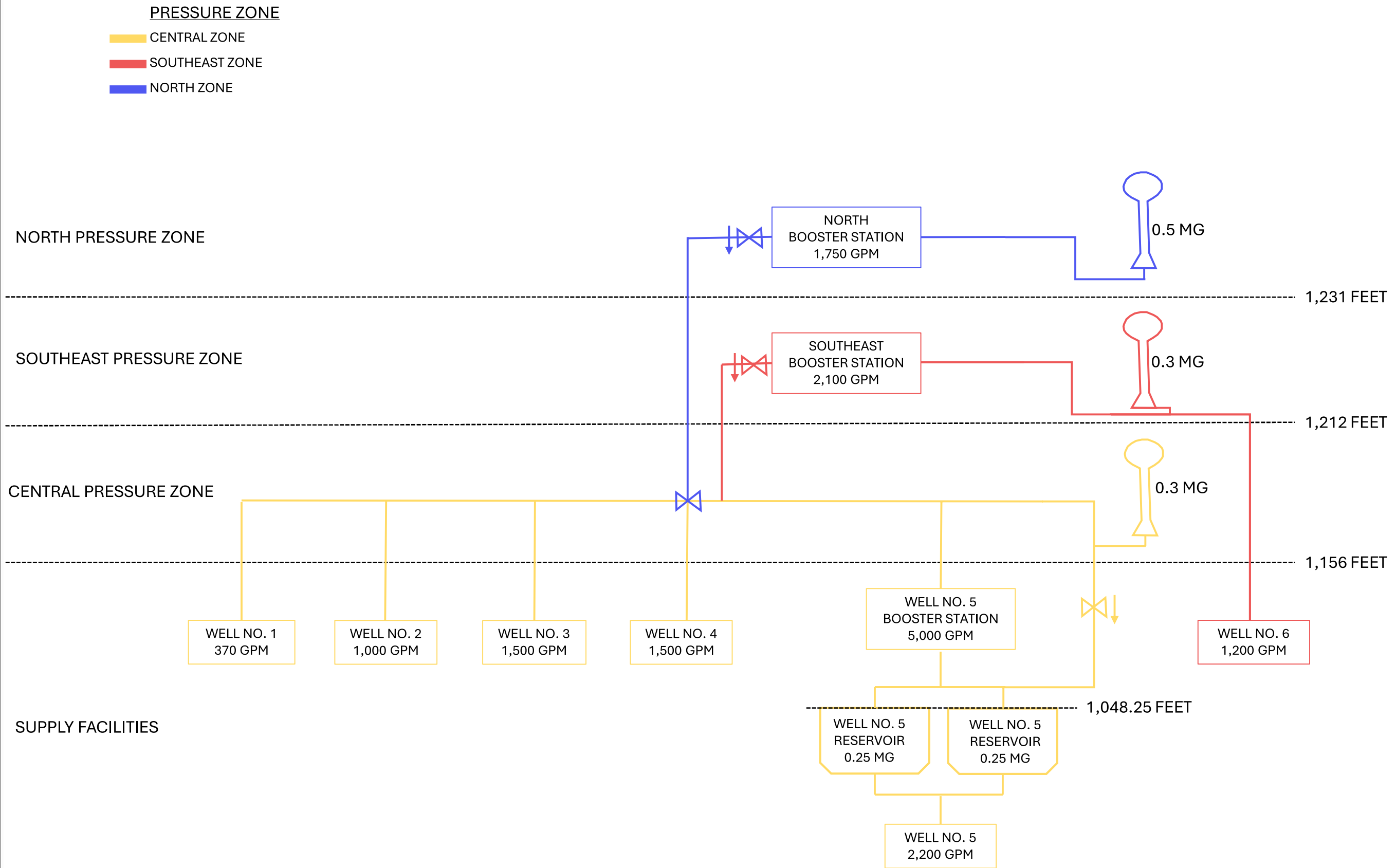
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US Feet

Sources: Esri, TomTom, Garmin, (c) OpenStreetMap contributors, and the GIS User Community, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community



FIGURE 2.01-1
1022.002

WATER SYSTEM SCHEMATIC
WATER SUPPLY SERVICE AREA PLAN
CITY OF VERONA
DANE COUNTY, WISCONSIN



A. Well No. 1

Well No. 1 is located on South Shuman Street and was drilled in 1932, and last rehabilitated in 2023. The depth of the well is 771 feet and cased to a depth of 120 feet in the sandstone Mount Simon aquifer. The production well is 10 inches in diameter. Chlorine and fluoride are added before entering the distribution system. Well No. 1 feeds the Central Pressure Zone.

B. Well No. 2

Well No. 2 is located on Factory Street and was drilled in 1959, and last rehabilitated in 2022. The depth of the well is 1,153 feet and cased to a depth of 170 feet in the sandstone Mount Simon aquifer. The production well is 16 inches in diameter. Chlorine and fluoride are added before entering the distribution system. Well No. 2 feeds the Central Pressure Zone.

C. Well No. 3

Well No. 3 is located on North Nine Mound Road was drilled in 1975, and last rehabilitated in 2026. The depth of the well is 1,033 feet and cased to a depth of 131 feet in the sandstone Cambrian aquifer. The production well is 16 inches in diameter. Chlorine and fluoride are added before entering the distribution system. Well No. 3 feeds the Central Pressure Zone.

D. Well No. 4

Well No. 4 is located on Cross Country Road and is in the same facility as the North Booster Station. The well was drilled in 1992 and last rehabilitated in 2025. The depth of the well is 1,148 feet and cased to a depth of 185 feet in the sandstone aquifer. The production well is 18 inches in diameter. Chlorine and fluoride are added before entering the distribution system. Well No. 4 feeds the Central Pressure Zone.

E. Well No. 5

Well No. 5 is located on Hubble Road on the Epic Systems (Epic) campus was drilled in 2012, and is in the same facility as Well No. 5 reservoirs. The well was last rehabilitated in 2025. The depth of the well is 1,163 feet and cased to a depth of 353 feet in the sandstone aquifer. The production well is 22 inches in diameter. Chlorine and fluoride are added before entering the distribution system. Well No. 5 feeds the Central Pressure Zone.

F. Well No. 6

Well No. 6 is located on Whalen Road and was drilled in 2019, and last rehabilitated in 2026. The depth of the well is 1,070 feet and cased to a depth of 350 feet to not mix the shallow and deep aquifers. The production well is 22 inches in diameter. Chlorine and fluoride are added before entering the distribution system. Well No. 6 feeds the central southeast zone.

2.03 STORAGE FACILITIES

System storage includes three ESTs and one ground-level reservoir. Table 2.03-1 presents the year constructed, capacity, overflow elevation, and pressure zone served of each tank. The total volume of all storage facilities is 1.6 million gallons (MG). All ESTs are single pedestal spheroids.

Storage Facility	Year Constructed	Last Rehabilitated	Capacity (gallons)	Overflow Elevation (feet)	Pressure Zone
Tower 1–Central Tower	1974	2019, Exterior	300,000	1,156	Central
Tower 2–Southeast Tower	2000	2019, Exterior	300,000	1,212	Southeast
Tower 3–North Tower	2009	2024, Interior 2020, Exterior	500,000	1,231	North
Total Elevated Storage			1,100,000		
Well No. 5 Reservoir	2012		500,000	1,048.25	Central
Total Ground Storage			500,000		
Total Storage			1,600,000		

Table 2.03-1 Storage Summary

2.04 BOOSTER STATIONS

The City owns and operates three booster stations that supply each pressure zone.

A. North Booster Station

The North Booster Station is located on Cross Country Road. Well No. 4 feeds the North Booster Station supplying the North Pressure Zone and north tower. There is one 1,200-gpm pump and three 1,000-gpm pumps. Well No. 4 is in the same facility building as the booster station.

B. Southeast Booster Station

The Southeast Booster Station is located on County Road M. The Southeast Booster Station pulls from the Central Pressure Zone to Southeast Pressure Zone. There are two 1,000-gpm pumps and one 100-gpm pump. The City plans to complete upgrades to the booster station in 2027 that would replace the 100-gpm pump with a 1,000-gpm pump and replace the other two 1,000-gpm pumps in kind. A control valve allows water to flow from the southeast zone to the central zone, but with the current demand in the Southeast Pressure Zone, the valve is no longer currently used.

C. Well No. 5 Booster Station

The Well No. 5 booster station is located in the same facility as Well No. 5 on Hubble Road on the Epic campus. The two Well No. 5 ground level reservoirs feed the Well No. 5 booster station to supply the Central Pressure Zone. There are two 1,000-gpm and two 500-gpm pumps.

SECTION 3
HISTORICAL AND PROJECTED DEMANDS

3.01 GENERAL

This section presents historic water demands currently observed by the City and develops a projection of future demands. Water use trends are applied to population projections to estimate future demands to the year 2040.

Water demand rate terminology used in this section are defined as follows:

ADD:	The total volume of water pumped in a year divided by the number of days in the year.
MDD:	The day of the year on which the maximum amount of water is pumped.
Fire Demand:	The estimated amount of water required in a community to fight a fire. This demand is generally specified as a rate of flow, in gpm, for a given period of time, in hours. The calculated fire demand is added to the domestic demand during the maximum day to obtain the demand on a day that a major fire occurs. Fire demand generally increases the volume of storage that must be available on a maximum day.

The estimation of future water demands is not precise. The best forecast of future water demand is obtained by projecting ADD based on population or customer growth and water use within the service area. Future MDDs are then estimated by analyzing past ratios of MDD to ADD and applying the resulting factor to the average day projections.

Prudent operation of a water utility requires that the fire system capacity always be in excess of system demands. Therefore, recommended system improvements may be deferred until they become necessary, or they may have to be implemented sooner if demands increase at a faster rate than projected.

3.02 WATER SALES AND PUMPAGE

This section reviews existing system usage and pumping characteristics to obtain anticipated per capita pumping information that can be used with population projections to calculate anticipated demands in design years 2026, 2030, and 2040. Population projections can be found in Section 3.03.

A. Well Pumpage

The City's historical water use records were obtained from the PSCW WEGS Reports for the years 2014 through 2024. Table 3.02-1 summarizes the historical water pumpage and sales data.

Year	Annual Pumpage (gallons)	Average Day Pumpage (gpd)	Maximum Day Pumpage (gpd)	Average Day Sales (gpd)	MDD to ADD
2014	540,176,000	1,478,921	2,694,000	1,024,263	1.82
2015	401,774,000	1,099,997	2,060,000	1,038,653	1.87
2016	415,646,000	1,137,977	1,840,000	1,051,759	1.62
2017	431,545,000	1,181,506	1,927,000	1,067,806	1.63
2018	447,467,000	1,225,098	2,172,000	1,055,907	1.77
2019	431,481,000	1,181,331	2,037,000	1,098,793	1.72
2020	434,540,000	1,189,706	2,474,000	1,092,942	2.08
2021	433,777,000	1,187,617	1,979,000	1,092,567	1.67
2022	437,537,000	1,197,911	2,068,000	1,100,348	1.73
2023	493,125,000	1,350,103	2,709,000	1,231,937	2.01
2024	508,643,000	1,392,589	3,036,000	1,212,112	2.18

gpd=gallons per day

Table 3.02-1 Water Pumpage and Sales Data

Table 3.02-2 presents the City-provided water pumpage at each well in the system since 2014. More pumpage is anticipated at Well No. 6 for future projections.

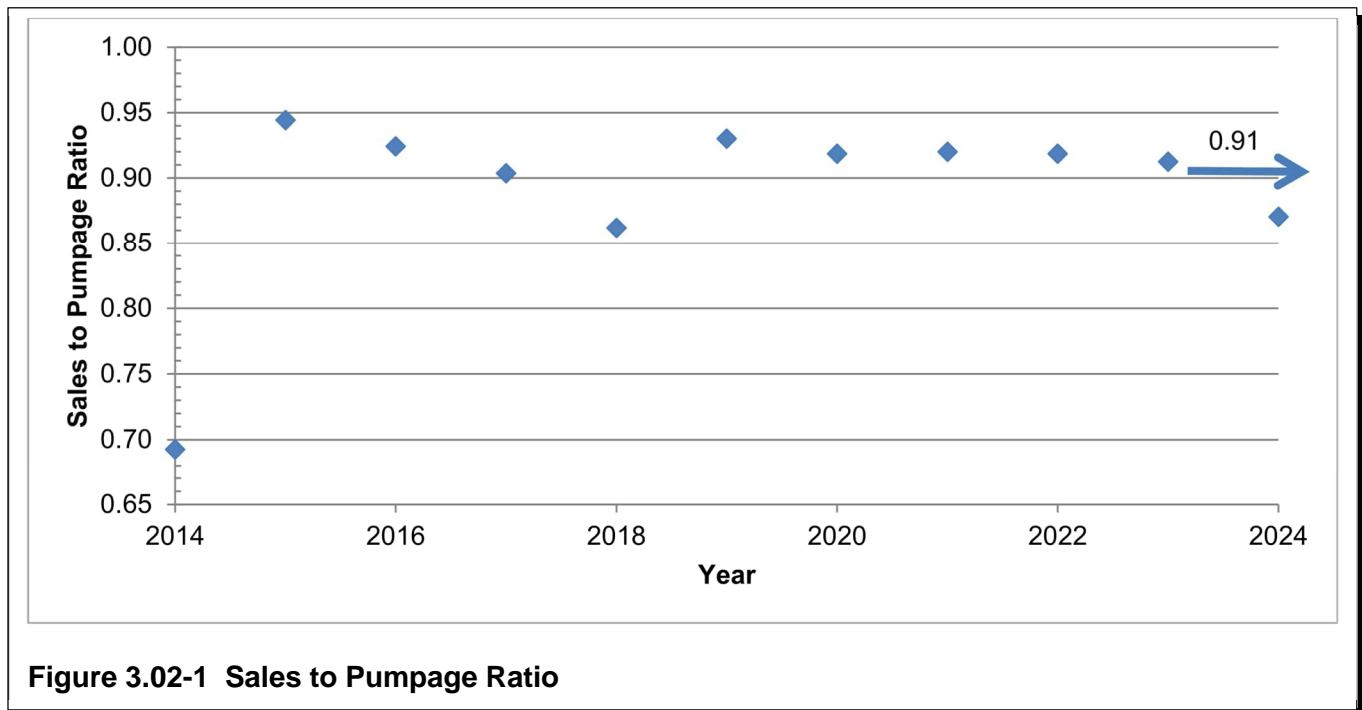
Year	Well No. 1 (gpd)	Well No. 2 (gpd)	Well No. 3 (gpd)	Well No. 4 (gpd)	Well No. 5 (gpd)	Well No. 6 (gpd)
2014	65,400	154,578	196,016	460,474	614,627	NA
2015	47,326	115,967	224,071	200,499	526,934	NA
2016	62,282	154,405	196,603	237,493	479,178	NA
2017	49,364	169,570	246,866	251,181	440,641	NA
2018	64,049	164,321	269,860	278,816	422,586	NA
2019	64,099	218,638	168,959	190,852	533,200	NA
2020	68,981	157,405	236,781	215,786	493,827	24,773
2021	74,203	173,348	177,729	203,485	445,397	136,345
2022	105,052	54,512	291,559	300,578	449,033	NA
2023	53,863	254,019	232,466	268,668	561,427	NA
2024	96,334	188,110	321,271	279,126	543,852	NA

NA=not available

Table 3.02-2 Average Day Annual Pumpage at Each Well Since 2014

B. Sales to Pumpage Ratio

Figure 3.02-1 presents the sales to pumpage ratios from 2014 to 2024. Sales will typically be less than pumpage because of unaccounted water loss, unmetered sales, leakage, water main breaks, and hydrant flushing. Sales to pumpage ratios have remained relatively steady in the City. For the purpose of calculating future demands, the average sales to pumpage ratio since 2014 of 0.91 will be used.



Methods used to measure nonrevenue water by the City are as follows:

1. Systemwide Flushing–Well meter readings are recorded before and after each flushing event.
2. Dead-End Flushing–A meter is attached to the flushing hydrant.
3. Unauthorized Consumption (Theft)–Theft typically occurs at bulk water fill stations. Water use is estimated by customers past usage or equipment’s water tank size.
5. Leakage from Water Main and Service–Water use is based on pipe condition, size of water main break or hole, and estimated duration of leak. Water industry tools are used to help estimate leakage.
6. Water Tower Inspections–The volume of water spent during draining and used during filling is calculated by the City, while a hydrant meter is used to measure the amount of water used for cleaning the tower during inspection.

C. MDD to ADD Ratios

Figure 3.02-2 presents MDD to ADD ratios since 2014. According to PSCW's WEGS Reports, the primary reason for MDDs in the City is irrigation. The values range from 1.62 to 2.18. The average ratio of 1.93 will be used to forecast MDDs.

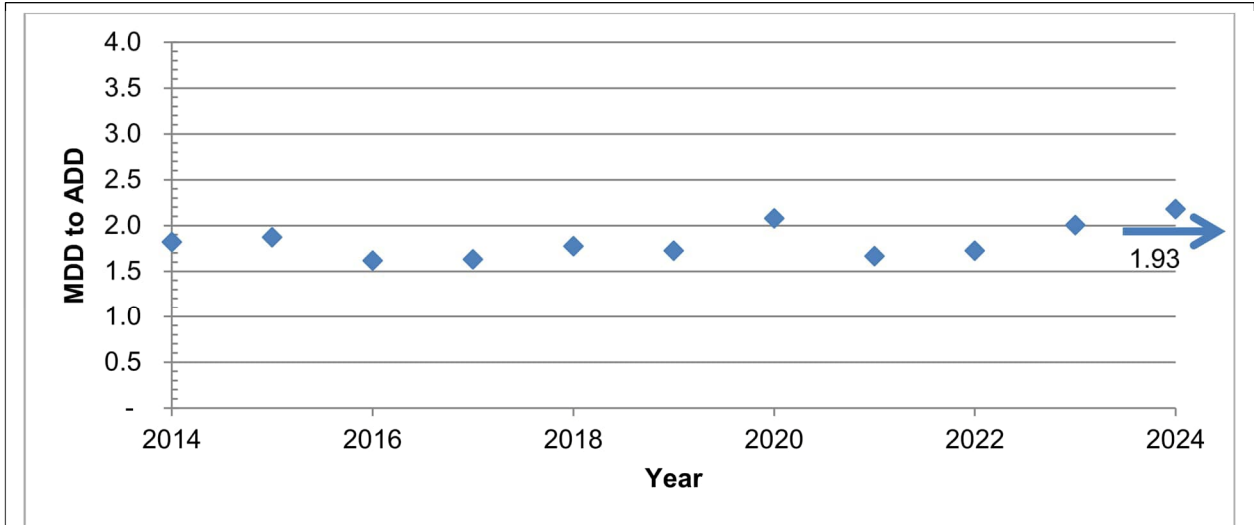


Figure 3.02-2 MDD to ADD Ratios

D. Sales

Table 3.02-3 presents the historical water sales in the City by category. Sales categories include residential, commercial, multifamily, public authority, and industry sales. The City does not sell water to wholesale customers. Commercial and multifamily have generally seen the largest sales increase, though total sales have generally remained steadily increasing since 2014.

Year	Sales (gallons)					Total
	Residential	Commercial	Industrial	Public	Multifamily	
2014	181,359,000	108,628,000	35,166,000	16,681,000	32,278,000	374,112,000
2015	181,163,000	109,179,000	35,431,000	18,249,000	35,346,000	379,368,000
2016	201,699,000	90,270,000	39,047,000	16,678,000	36,461,000	384,155,000
2017	203,531,000	85,603,000	43,379,000	16,795,000	40,708,000	390,016,000
2018	198,537,000	90,414,000	41,264,000	15,395,000	40,060,000	385,670,000
2019	203,176,000	95,523,000	40,690,000	21,537,000	40,408,000	401,334,000
2020	225,165,000	71,404,000	40,827,000	21,615,000	40,186,000	399,197,000
2021	217,921,000	89,337,000	23,936,000	25,893,000	41,973,000	399,060,000
2022	209,633,000	100,650,000	24,659,000	26,341,000	40,619,000	401,902,000
2023	224,792,000	122,060,000	27,345,000	31,383,000	44,385,000	449,965,000
2024	212,005,000	117,198,000	38,004,000	27,055,000	48,462,000	442,724,000

Table 3.02-3 Sales by Category

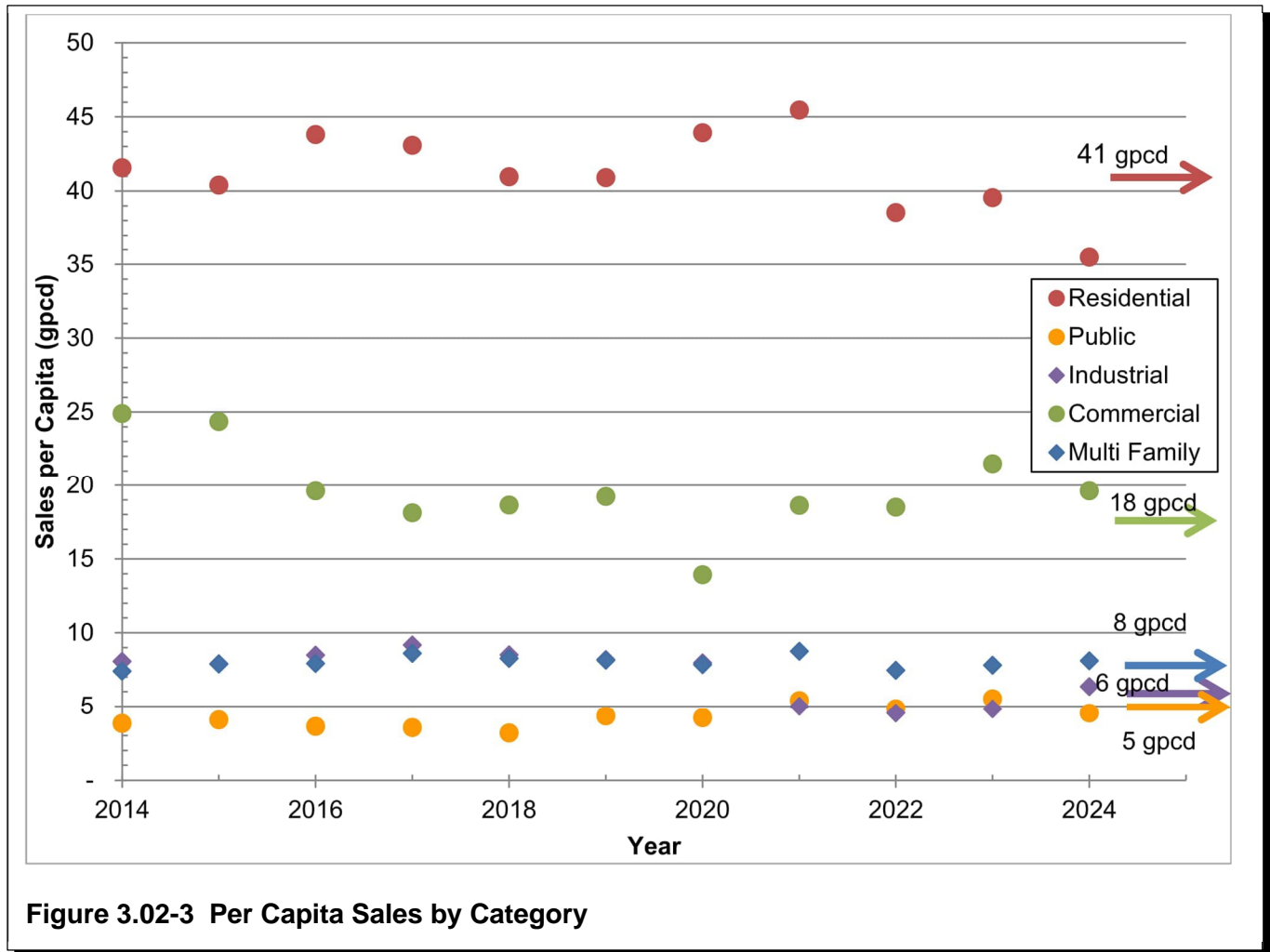
Table 3.02-4 presents the historical number of users for each category as reported by PSCW WEGS Reports, which show relatively consistent numbers, except a drop in commercial and industrial customers and an increase in residential customers in 2016. Even with the decreases and increases, the total number of customers generally continues to steadily increase.

Year	Customers (count)					Total
	Residential	Commercial	Industrial	Public	Multifamily	
2014	3,468	884	75	46	76	4,549
2015	3,548	906	75	47	83	4,659
2016	4,203	384	40	46	88	4,761
2017	4,231	375	39	45	92	4,782
2018	4,292	389	40	48	92	4,861
2019	4,328	382	39	49	92	4,890
2020	4,380	381	40	54	94	4,949
2021	4,428	390	42	57	97	5,014
2022	4,500	400	43	56	97	5,096
2023	4,578	417	44	57	99	5,195
2024	4,667	430	45	57	109	5,308

Table 3.02-4 Customer Count

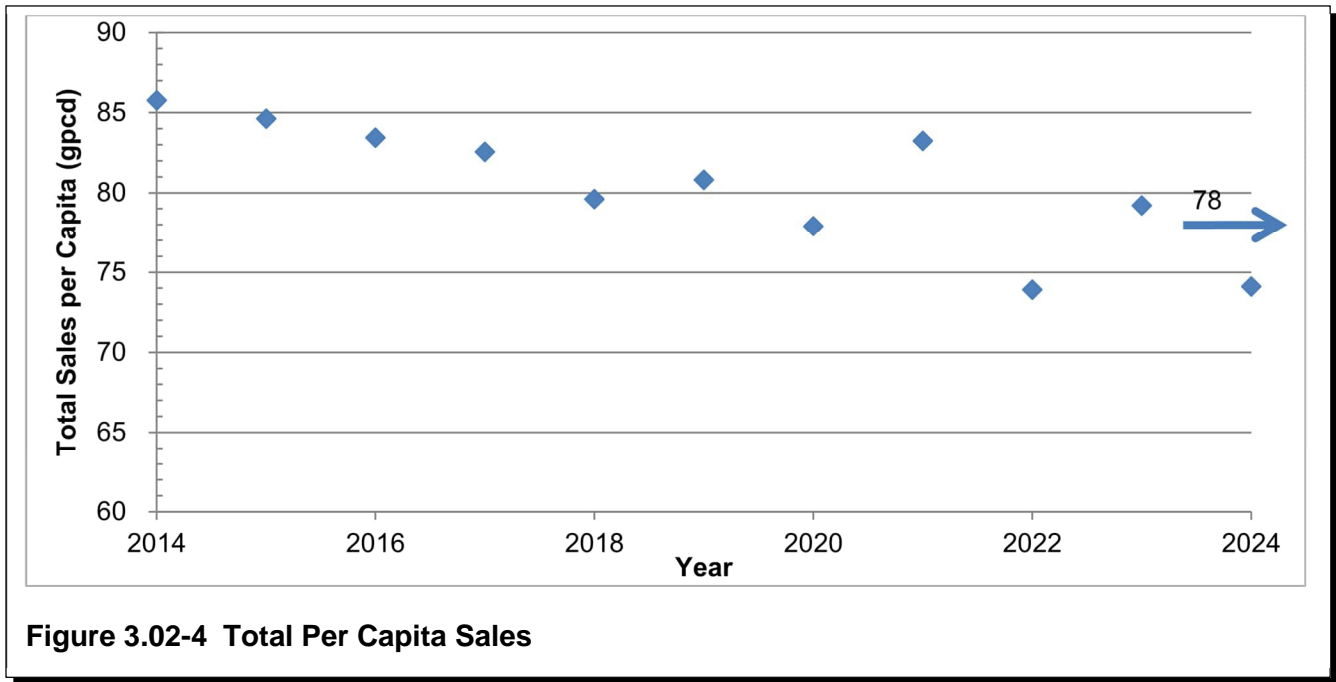
Appendix A presents the ten largest water users in the City and their usage since 2022. The largest water users have largely been the same since 2022. Data was unable to be provided before 2022.

Figure 3.02-3 presents sales per capita per day values since 2014 for each sales category. Sales per capita is calculated by taking the total sales from each category and dividing by the estimated population that year. Per capita sales for each respective category have remained relatively steady. To reflect recent trends in per capita sales categories, a residential value of 41 gallons per capita per day (gpcd), commercial value of 18 gpcd, multifamily value of 8 gpcd, industrial value of 6 gpcd, and public value of 5 gpcd will be used.



E. Total Per Capita Sales

Figure 3.02-4 presents the total per capita sales resulting from combining the per capita sales categories. Total per capita sales have been relatively steady since 2014. The sum of the usage category averages were used for projected future sales. The average total sales per capita value of 78 gpcd will be used.



3.03 POPULATION

City population projections developed in this section will be used with per capita pumping obtained in the previous section to calculate anticipated demands in design years 2026, 2030, and 2040.

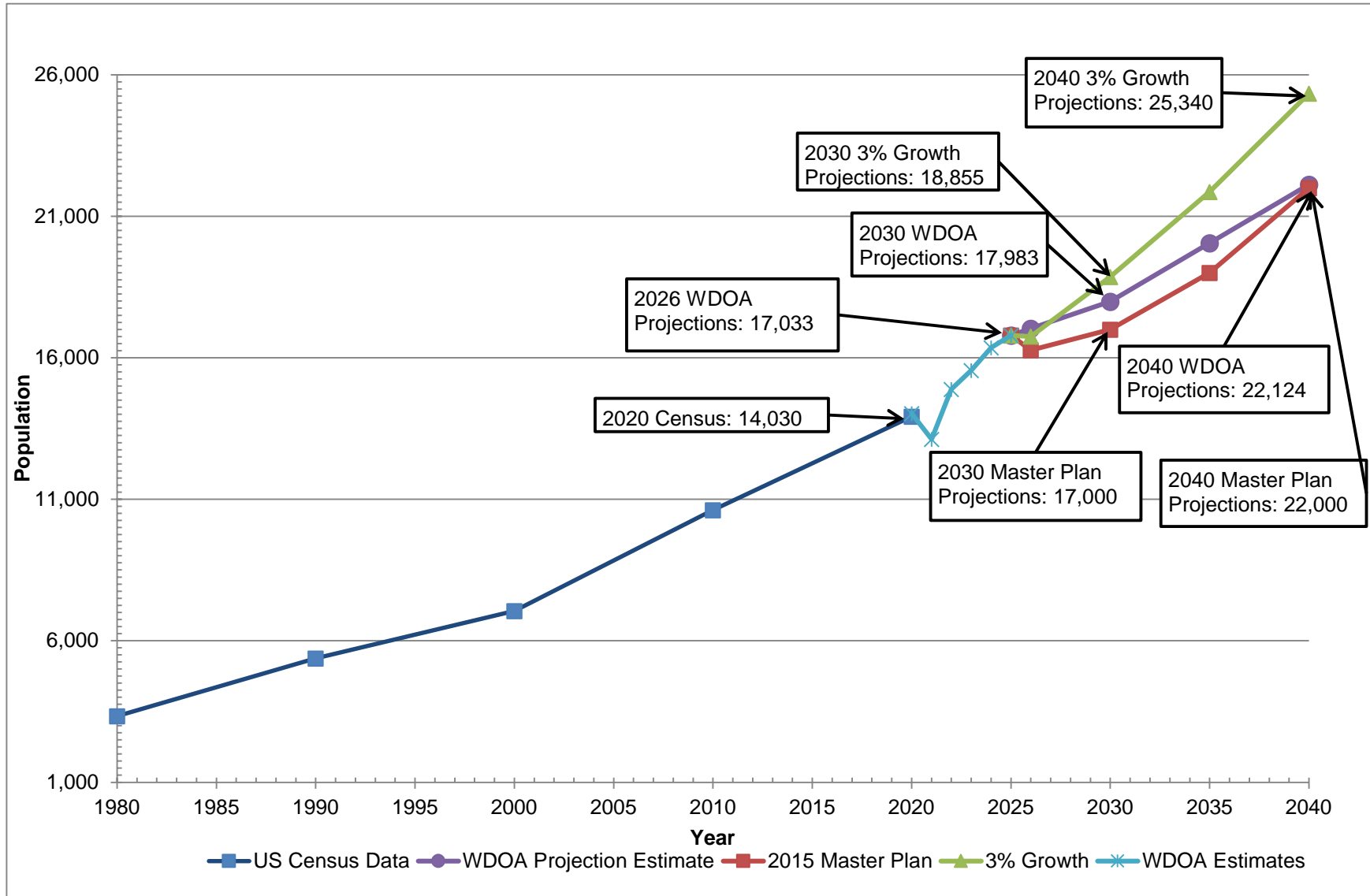
Population data was available from United States (US) Census data, Wisconsin Department of Administration (WDOA), and the City’s *2015 Water System Master Plan* prepared by AECOM. This data along with the City’s chosen projections are shown on Figure 3.03-1.

The City’s *2015 Water System Master Plan* had population projections to the year 2040 with an annual growth rate of 3 percent. This projection included the expected growth of Epic and other potential developments. The WDOA Demographic Service Center provided population projection data through the year 2050 in 2025.









Based on the WDOA estimates, it is anticipated that the population served by water in the year 2026 will be 17,000 people, 2030 will be 18,000 people, 2035 will be 20,000 people, and 2040 will be 22,000 people.

The City’s map of its existing water supply service area is shown in in Figure 2.01-1, while the anticipated water service supply area to accommodate growth is shown on Figure 3.03-2.






Figure 3.03-1 Population Chart








Legend

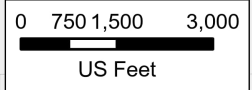
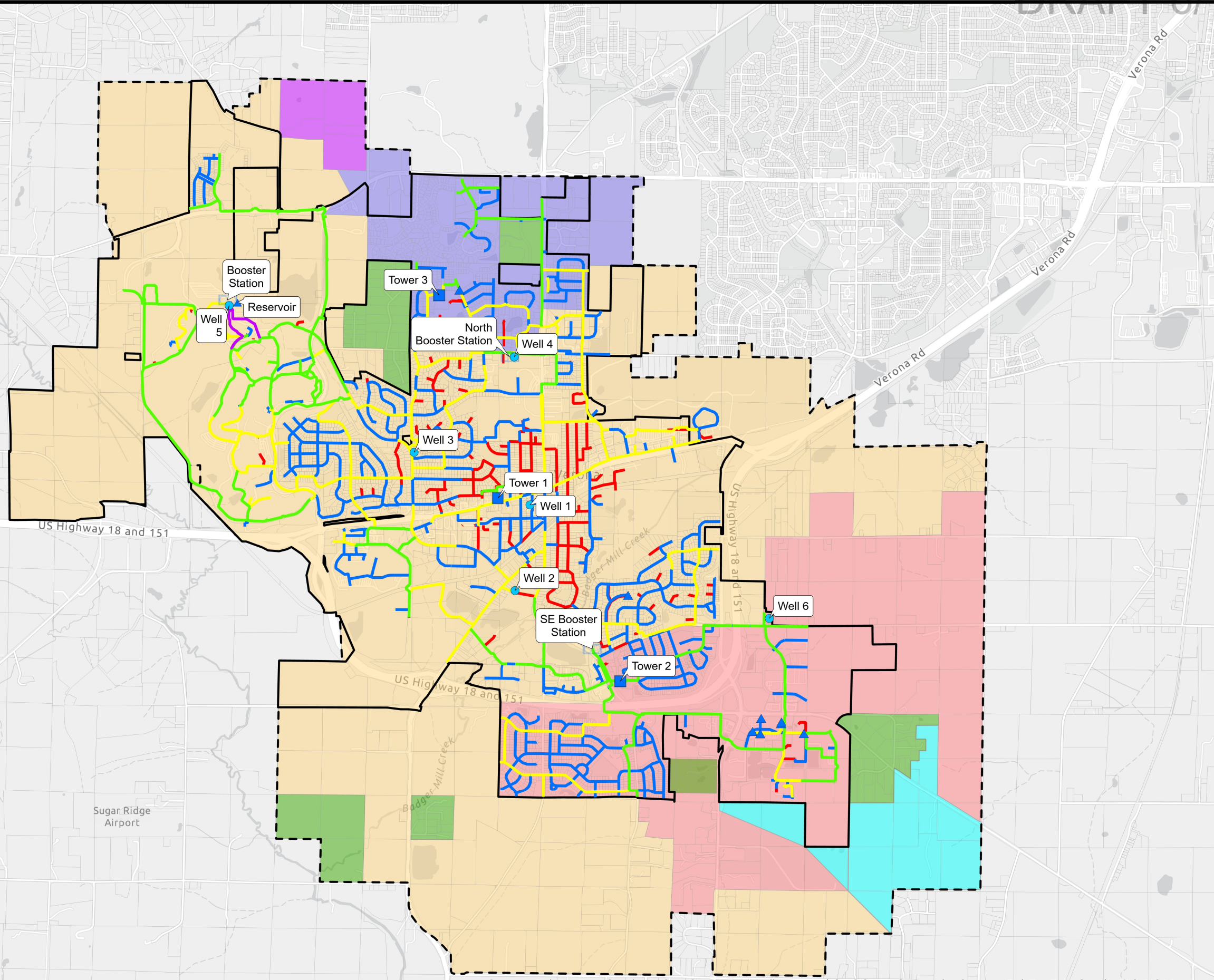
-  Booster Station
-  Elevated Tank
-  Well
-  Reservoir
-  Reducer
-  Future Growth Area
-  Town of Verona/Parks
-  City Limits

Diameter (in.)

-  6
-  8
-  10
-  12
-  16

Pressure Zone

-  Central
-  Future East
-  Future Northwest
-  North
-  Southeast



Sources: Esri, TomTom, Garmin, (c) OpenStreetMap contributors, and the GIS User Community, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

FUTURE WATER SUPPLY SERVICE AREA
WATER SUPPLY SERVICE AREA PLAN
CITY OF VERONA
DANE COUNTY, WISCONSIN



FIGURE 3.03-2
1022.002

3.04 PROJECTED DEMANDS**A. Domestic Demand**

Domestic demand projections were calculated using the water use trends developed in the previous sections. The projected 2026, 2030, and 2040 demands will be used in Section 4 where demands will be compared to available supply.

Table 3.04-1 presents the projected domestic day demand during City planning period. The projected average day pumpage was calculated by multiplying the design population (see Table 3.04-1) by the projected total per capita sales per day (78 gpcd) and dividing by the corresponding sales to pumpage ratio (0.91). The maximum day pumpage is estimated by applying the MDD to ADD ratio of 1.93 to the average day pumpage. The peak hour pumpage is estimated by applying the peak hour to maximum day ratio of 1.36 to the maximum day pumpage, which was developed from 2025 maximum day data.

Design Year	Design Population	ADD		MDD		Peak Hour Demand	
		gpm	MGD	gpm	MGD	gpm	MGD
2026	16,796	1,002	1.44	1,936	2.79	2,632	3.79
2030	17,983	1,067	1.54	2,061	2.97	2,803	4.04
2035	20,054	1,190	1.71	2,299	3.31	3,126	4.50
2040	22,124	1,313	1.89	2,536	3.65	3,449	4.97

Table 3.04-1 Projected Domestic Demands

Table 3.04-2 presents the projected domestic day demands that are within the current water supply service area and demands outside the current water supply service area in the projected growth area for the City planning period. The projected demands were distributed based on percent area available. Approximately 14 percent of the demands are allocated to growth areas within the current water supply service area and 86 percent of the demands are allocated to growth areas within the future growth area.

Design Year	Design Population	ADD (gpm)	Current Service Area Demand (gpm)	Future Service Area Demand (gpm)
2026	16,796	1,002	141	861
2030	17,983	1,067	150	917
2035	20,054	1,190	168	1,022
2040	22,124	1,313	185	1,128

Table 3.04-2 Projected Domestic Demands Distributed to Service Areas

Table 3.04-3 presents the projected domestic demands by category. The projected sales were calculated by multiplying the design population by the projected per capita sales per day shown in Figure 3.02-3.

Design Year	Residential (gpy)	Commercial (gpy)	Industry (gpy)	Public (gpy)	Multifamily (gpy)
2026	251,254,299	110,425,302	36,808,434	30,673,695	49,077,912
2030	269,299,921	118,229,234	39,409,745	32,841,454	52,546,326
2035	300,306,176	131,841,736	43,947,245	36,622,704	58,596,327
2040	331,312,431	145,454,238	48,484,746	40,403,955	64,646,328

gpy=gallons per year

Table 3.04-3 Projected Domestic Demands by Category

Table 3.04-4 shows the projected average day nonrevenue water during the City planning period. The nonrevenue water represents 9 percent of the total pumpage in the system, which is based on the sales to pumpage ratio of 0.91.

Design Year	Desing Population	Nonrevenue Water Use	
		gpm	gpd
2026	16,796	90	129,853
2030	17,983	96	138,293
2035	20,054	107	154,215
2040	22,124	118	170,138

Table 3.04-4 Projected Nonrevenue Water Use

B. Fire Demand

The Insurance Service Office (ISO) typically recommends basic fire flow requirements that are based on the amount of water a municipality should be able to supply. ISO information for the City requires a fire flow of 3,500 gpm for a duration of 3 hours and will be used for calculation purposes. Water supply requirements during a fire flow are based on the amount of water the City should be able to supply on the maximum day to obtain maximum credit for the community water system. Water for firefighting can come from a combination of reserve capacity and available water storage. The total volume of water required to fight a fire in the City on a maximum day in the distribution system for 2026, 2030, and 2040 are presented in Table 3.04-5.

Design Year	MDD (gallons)	Fire Demand (gallons)	Total (gallons)
2026	348,396	630,000	978,396
2030	371,040	630,000	1,001,040
2040	456,481	630,000	1,086,481

Table 3.04-5 Projected Volume of Water for Firefighting

Table 3.04-6 shows the average rate at which this water would be used during the fire.

Design Year	MDD (gpm)	Fire Demand (gpm)	Total (gpm)
2026	1,936	3,500	5,436
2030	2,061	3,500	5,561
2040	2,536	3,500	6,036

Table 3.04-6 Projected Volume of Water for Firefighting

SECTION 4
ADDITIONAL REQUIRED CAPACITY

4.01 2026 SYSTEM CAPACITY EVALUATION

A. Whole System 2026 Maximum Day

The total pumpage on the 2026 maximum day is estimated to be 1,936 gpm (2.79 MGD). The existing firm well capacity is estimated to be 6,370 gpm (9.17 MGD). Because the City has an average reserve supply of 4,434 gpm, no additional well capacity is needed to meet the 2026 MDDs.

Figure 4.01-1 is a graph of the projected hourly demands on the 2026 maximum day. The maximum hourly demand is projected to be 2,632 gpm. The projected hourly demands are based on the diurnal curve created from 2025 maximum day data.

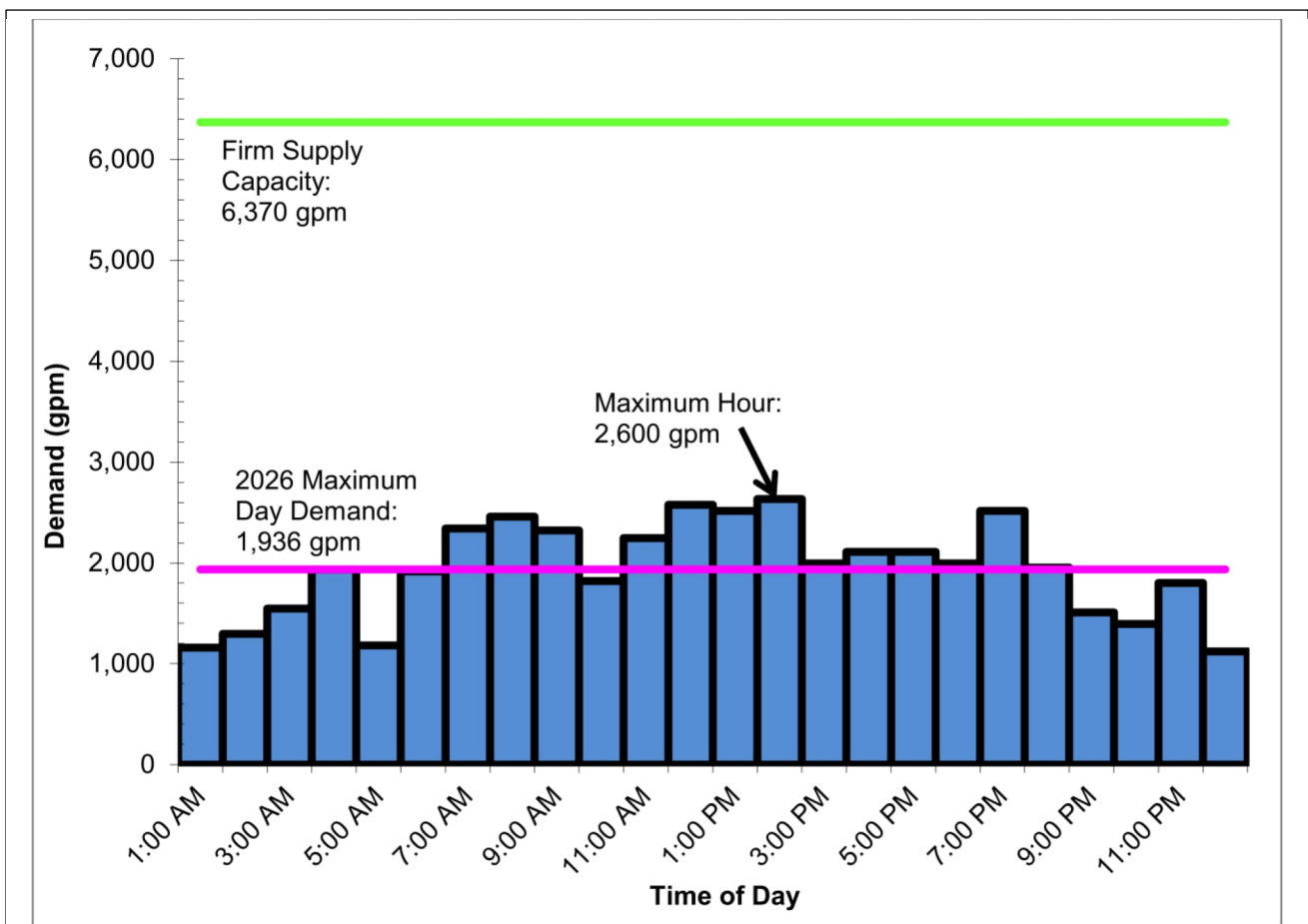


Figure 4.01-1 2026 Projected Maximum Day Hourly Demands

With projected hourly demands less than the firm well capacity at all periods of time, the well supply will satisfy the water demands without using storage.

B. Whole System 2026 Maximum Day Plus Fire Demand

The total amount of water available to satisfy the maximum day plus fire demand is equal to the firm system capacity plus the water available from usable storage. For this analysis, the firm system capacity is equal to the firm well capacity. Section 3 of this Plan discusses the 2026 fire demand and requirements for the City. A demand rate of 5,436 gpm (1,936 domestic demand plus 3,500 gpm fire demand) for 3 hours must be satisfied to provide the necessary fire protection for the system. Because a fire can start at any time during the day, the expected domestic demand must be considered when calculating available supply.

This analysis evaluated the system as a whole and assumes only effective system storage is assumed to be available to meet necessary demands.

MDD	- 1,936 gpm
Fire Demand	- 3,500 gpm
Firm Well Capacity	+ 6,370 gpm
EST Capacity*	+ 4,583 gpm
<u>Well No. 5 Reservoir Capacity**</u>	<u>+ 2,083 gpm</u>
Total	+ 7,600 gpm

*Storage capacity=825,000 gallons per 180 minutes
**Reservoir capacity=375,000 gallons per 180 minutes

Table 4.01-1 2026 Whole System Supply Plus Fire Demand Storage

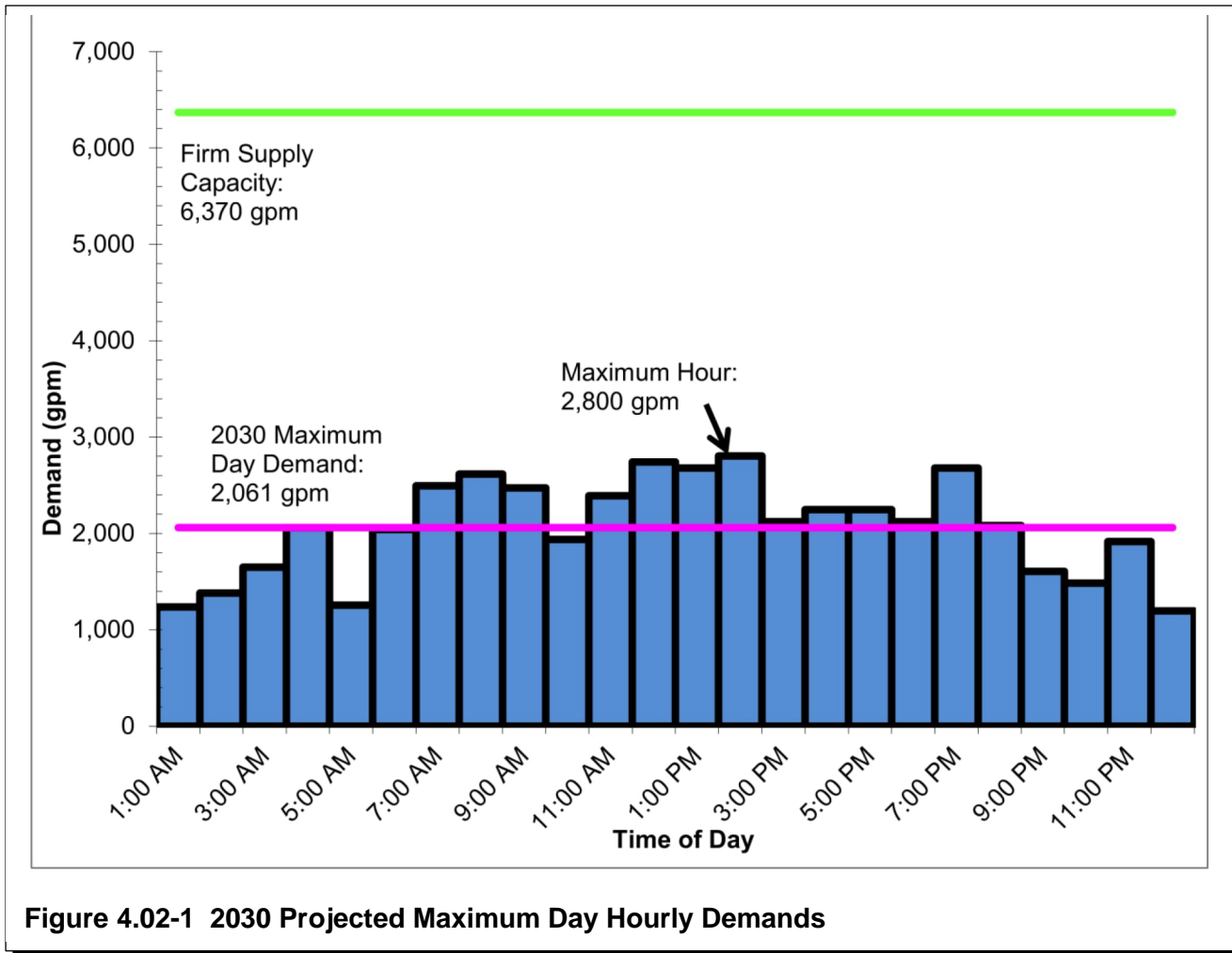
During a 180-minute fire event, the system is projected to have a reserve capacity of 7,600 gpm, or approximately 1.4 MG. Therefore, no additional storage is needed to meet the projected 2026 maximum day plus fire flow.

4.02 2030 SYSTEM CAPACITY EVALUATION

A. 2030 Maximum Day

The total pumpage on the 2030 maximum day is estimated to be 2,061 gpm (2.97 MGD). The existing firm well capacity is estimated to be 6,370 gpm (9.17 MGD). Because the City has an average reserve supply of 4,309 gpm, no additional well capacity is needed to meet the 2030 MDDs.

Figure 4.02-1 is a graph of the projected hourly demands on the 2030 maximum day. The maximum hourly demand is projected to be 2,803 gpm. With projected hourly demands less than the firm well capacity at all periods of time, the well supply will satisfy the water demands without using storage.



B. 2030 Maximum Day Plus Fire Demand

Section 3 of this Plan discusses the 2030 fire demand and requirements for the City. A demand rate of 5,561 gpm (2,061 domestic demand plus 3,500 gpm fire demand) for 3 hours must be satisfied to provide the necessary fire protection for the system. Because a fire can start at any time during the day, the expected domestic demand must be considered when calculating available supply.

This analysis evaluated the system as a whole and assumes only effective system storage is assumed to be available to meet necessary demands.

MDD	- 2,061 gpm
Fire Demand	- 3,500 gpm
Firm Well Capacity	+ 6,370 gpm
EST Capacity*	+ 4,583 gpm
<u>Well No. 5 Reservoir Capacity**</u>	<u>+ 2,083 gpm</u>
Total	+ 7,475 gpm

*Storage capacity=825,000 gallons per 180 minutes

**Reservoir capacity=375,000 gallons per 180 minutes

Table 4.02-1 2030 Whole System Supply Plus Fire Demand Storage

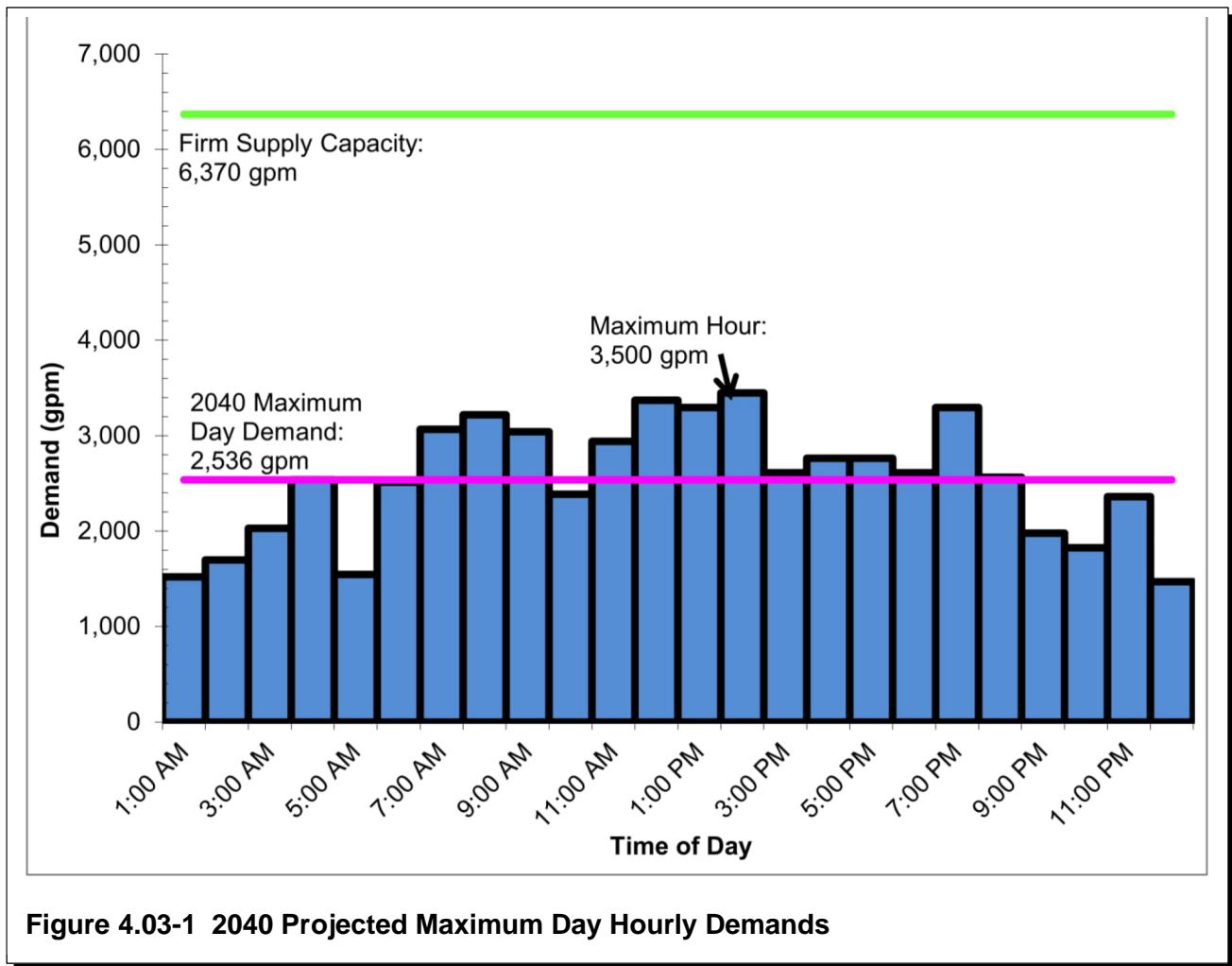
During a 180-minute fire event, the system is projected to have a reserve capacity of 7,475 gpm, or approximately 1.3 MG. Therefore, no additional storage is needed to meet the projected 2030 maximum day plus fire flow.

4.03 2040 SYSTEM CAPACITY EVALUATION

A. 2040 Maximum Day

The total pumpage on the 2040 maximum day is estimated to be 2,536 gpm (3.65 MGD). The existing firm well capacity is estimated to be 6,370 gpm (9.17 MGD). Because the City has an average reserve supply of 3,834 gpm, no additional well capacity is needed to meet the 2040 MDDs.

Figure 4.03-1 is a graph of the projected hourly demands on the 2040 maximum day. The maximum hourly demand is projected to be 3,449 gpm.



With projected hourly demands less than the firm well capacity at all periods of time, the well supply will satisfy the water demands without using storage.

B. 2040 Maximum Day Plus Fire Demand

Section 3 of this Plan discusses the 2040 fire demand and requirements for the City. A demand rate of 6,036 gpm (2,536 domestic demand plus 3,500 gpm fire demand) for 3 hours must be satisfied to provide the necessary fire protection for the system. Because a fire can start at any time during the day, the expected domestic demand must be considered when calculating available supply.

This analysis evaluated the system as a whole and assumes only effective system storage is assumed to be available to meet necessary demands.

MDD	- 2,536 gpm
Fire Demand	- 3,500 gpm
Firm Well Capacity	+ 6,370 gpm
EST Capacity*	+ 4,583 gpm
<u>Well No. 5 Reservoir Capacity**</u>	<u>+ 2,083 gpm</u>
Total	+ 7,000 gpm

*Storage capacity=825,000 gallons per 180 minutes

**Reservoir capacity=375,000 gallons per 180 minutes

Table 4.03-1 2040 Whole System Supply Plus Fire Demand Storage

During a 180-minute fire event, the system is projected to have a reserve capacity of 7,000 gpm, or approximately 1.3 MG. Therefore, no additional storage is needed to meet the projected 2040 maximum day plus fire flow.

SECTION 5
WATER SOURCE ALTERNATIVES AND RECOMMENDATIONS

5.01 CONSERVATION

In 2008, the WDNR implemented a mandatory water conservation and water use efficiency program for public water systems withdrawing water from the Great Lakes Basin. The WDNR rule required public water systems requesting new withdrawals from the Great Lakes Basin after December 8, 2008, to create a conservation program. The City is not within the Great Lakes Basin so it has not withdrawn from the Great Lakes Basin and has not implemented a conservation program. If a new source of supply from the Great Lakes Basin is pursued by the City or a conservation program is desired, conservation and efficiency measures can include water use audits, leak detection and repair programs, system pressure reductions, and educational outreach programs.

5.02 ALTERNATIVE WATER SOURCES

NR 854 requires that this Plan includes an inventory and review of potential alternative water sources. For the City, the existing alternative groundwater and surface water sources include the following:

1. Sand and gravel aquifer
2. Upper bedrock aquifer
3. Lower bedrock aquifer
4. Mixed aquifers
5. Surface water
6. Interconnection to neighboring community

A. Sand and Gravel Aquifer

Most private wells pull from the sand and gravel aquifer. Because of the demand of municipal wells, this aquifer is not recommended for future sources of supply.

B. Upper Bedrock Aquifer

The City's Well No. 1 is drawing water from the upper bedrock aquifer. An unconfined aquifer is more susceptible to surface contaminants than the confined lower aquifer; however, no contamination has been a problem at Well No. 1; therefore, the upper bedrock aquifer could be considered as a future source of supply.

C. Lower Bedrock Aquifer

The City currently has one well drawing water from just the lower bed rock aquifer. Well No. 6 was originally cased to be open to both the upper and lower bedrock aquifers but struggled with nitrate pollution, so the solution was to case the well so that it only draws from the lower bedrock aquifer now. As a future source of supply, the lower bedrock aquifer should be considered.

D. Mixed Aquifers

City Well Nos. 2, 3, 4, and 5 currently draw from the lower and upper bedrock aquifers. With the nitrate pollution problems at Well No. 6, this option is not recommended for future supply.

E. Surface Water

An alternative water source to the City's deep wells would include surface water from nearby Lake Mendota or Lake Monona. The City has not performed a review of the viability of surface water as a water source. The City's current system is not prepared for surface water as a source.

F. Interconnection to Neighboring Community

Creating interconnections and regionalization with other communities are other alternatives the City has for water supply other than its existing deep wells. The City has not conducted a review of the viability of this source. Some neighboring communities are the City of Fitchburg, City of Middleton, and Town of Mount Horeb.

5.03 ENVIRONMENTAL AND ECONOMIC IMPACTS

The existing groundwater sources have seen little-to-no decline in capacity and static water level, and the existing treatment and distribution system facilities are optimal for the groundwater. Maintaining a combination of deep aquifer withdrawals will not require significant capital costs, while surface water will require new treatment facilities or a new centralized treatment facility, significant distribution improvements, and several miles of transmission main. Because the surface water is not feasible, costs associated with treatment and distribution of surface water was not determined.

5.04 RECOMMENDATION AND CONCLUSION

This Plan reviewed the means of planning for water supply needs through 2040. The Plan assumed no storage or supply was lost between 2026 to 2040. If a source of supply or storage is lost or a large industrial water user is anticipated, the Plan may need to be re-evaluated. Water demand projections may also need to be re-evaluated once updated City population projections are developed. Population projections used to develop demands for this Plan are relatively conservative.

The Plan was presented to the public at a board meeting on June 22, 2026. No public comments were received. A copy of the presentation is included in the Appendix B.

A. Summary

There are six active groundwater wells supplying water to the distribution system. The wells serve three pressure zones and have a total rated capacity of 8,570 gpm. It is recommended that the City continues obtaining water from the deep wells. There are three ESTs and one ground level storage tank in the distribution system. The total amount of storage in the system is 1.6 MG.

B. 2026**1. Water Supply and System Demands**

The estimated 2026 MDD equals 1,936 gpm. The current firm well capacity with Well No. 5 out of service equals 6,370 gpm. During an MDD, the system is projected to have a reserve well capacity of 4,434 gpm; therefore, no additional well capacity is required to meet 2026 MDDs.

2. Storage Capacity

The estimated 2026 maximum day plus fire flow demand equals 5,436 gpm. The system's effective storage capacity after accounting for peak hourly demands and operational needs is 7,600 gpm. During a 180-minute fire event, the system is projected to have a storage reserve of 1.4 MG; therefore, no additional storage is needed.

C. 2030**1. Water Supply and System Demands**

The estimated 2030 MDD equals 2,061 gpm. The current firm well capacity with Well No. 5 out of service equals 6,370 gpm. During an MDD, the system is projected to have a reserve well capacity of 4,309 gpm so no additional well capacity is required to meet 2030 MDDs.

2. Storage Capacity

The estimated 2030 maximum day plus fire flow demand equals 5,561 gpm. The system's effective storage capacity after accounting for peak hourly demands and operational needs is 7,475 gpm. During a 180-minute fire event the system is projected to have a storage reserve of 1.3 MG so no additional storage is needed.

D. 2040**1. Water Supply and System Demands**

The estimated 2040 MDD equals 2,536 gpm. The current firm well capacity with Well No. 5 out of service equals 6,370 gpm. During an MDD, the system is projected to have a reserve well capacity of 3,834 gpm so no additional well capacity is required to meet 2040 MDDs.

2. Storage Capacity

The estimated 2040 maximum day plus fire flow demand equals 6,036 gpm. The system's effective storage capacity after accounting for peak hourly demands and operational needs is 7,000 gpm. During a 180-minute fire event, the system is projected to have a storage reserve of 1.3 MG; therefore, no additional storage is needed.

APPENDIX A
TOP TEN USERS FOR PAST 4 YEARS

Table A-1 Top Ten Users for Past 4 Years

2025		
Rank	Customer Name	Amount Billed
1	Epic Systems Corporation	\$253,341.50
2	Verona, City of	\$42,346.07
3	Arrowhead Madison Inc.	\$29,875.32
4	Live Brew LLC	\$27,442.27
5	Verona Area Schools	\$23,350.32
6	Badger Prairie Health Care Center	\$23,077.60
7	Fred-Verona HCLLC	\$21,000.37
8	Verona Area School District	\$20,704.64
9	Convenience Store Improvement	\$20,477.80
10	SCC-Mixed Use LLC	\$19,459.14
2024		
Rank	Customer Name	Amount Billed
1	Epic Systems Corporation	\$282,675.75
2	Verona Area School District	\$56,976.36
3	Arrowhead Madison Inc.	\$45,816.95
4	Live Brew LLC	\$45,350.02
5	Badger Prairie Health Care Center	\$33,394.35
6	Biomune Company	\$28,113.42
7	Convenience Store Improvement	\$27,210.87
8	Safc Inc.	\$24,782.27
9	Prairie Crest Apartments LLC	\$23,288.10
10	SCC-Mixed Use LLC	\$21,615.44
2023		
Rank	Customer Name	Amount Billed
1	Verona Area School District	\$100,692.16
2	Epic Systems Corporation	\$86,897.92
3	Verona, City of	\$32,120.72
4	Costco Wholesale	\$16,522.68
5	Blains Farm & Fleet	\$12,718.08
6	Carnes Corporation	\$11,472.24
7	Tipperary LLC	\$9,876.04
8	Latitude	\$6,863.80
9	Festival Foods	\$6,741.36
10	Verona Flex Properties LLC	\$6,395.60
2022		
Rank	Customer Name	Amount Billed
1	Epic Systems Corporation	\$253,341.50
2	Verona Area Schools	\$42,346.07
3	Convenience Store Improvement	\$29,875.32
4	Carnes Corporation	\$27,442.27
5	Prairie Crest Apartments LLC	\$23,350.32
6	Live Brew LLC	\$23,077.60
7	Badger Prairie Health Care Center	\$21,000.37
8	Prairie Oaks Apartments LLC	\$20,704.64
9	Biomune Company	\$20,477.80
10	Safc Inc.	\$19,459.14

Contractor's Application For Payment No. 5

To (Owner):	City of Verona	Application Period:	4/26/2026 - 6/5/2026	Application Date:	6/10/2026
Project:		From (Contractor):	James Peterson Sons, Inc.	Notice to Proceed Date:	
		Contract:	Mark Drive Reconstruction	Via (Engineer)	
Owner's Contract No.:		Contractor's Project No.:	4252MARK	Engineer's Project No.:	

Application for Payment

Change Order Summary

Approved Change Orders		
Number	Additions	Deductions
TOTALS	\$ -	\$ -
NET CHANGE BY CHANGE ORDERS	\$ -	

1. ORIGINAL CONTRACT PRICE	\$	2,008,878.08
2. Net change by Change Orders	\$	0.00
3. CURRENT CONTRACT PRICE (Line 1 ± 2)	\$	2,008,878.08
4. TOTAL COMPLETED AND STORED TO DATE (Column G on Progress Estimate)	\$	1,717,814.27
5. RETAINAGE:		
a. <u>5</u> % <u>1,706,526.53</u> Work Completed	\$	85,890.71
b. <u>5</u> % x \$ Stored Material	\$	0.00
c. Total Retainage (Line 5a + Line 5b)	\$	85,890.71
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5c)	\$	1,631,923.56
7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application)	\$	1,201,251.71
8. AMOUNT DUE THIS APPLICATION	\$	430,671.85
9. BALANCE TO FINISH, PLUS RETAINAGE (Column I on Progress Estimate + Line 5 above)	\$	376,954.52

Contractor's Certification

The undersigned Contractor certifies that: (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Payment of: \$ 430,671.85
(Line 8 or other - attach explanation of other amount)

is recommended by: Joe Jiso (Engineer) 06-16-2026 (Date)

Payment of: \$ 430,671.85
(Line 8 or other - attach explanation of other amount)

is approved by: _____ (Owner) _____ (Date)

Approved by: _____ Funding Agency (if applicable) _____ (Date)

By: Mandy Beardo Date: 6/16/2026

Item No. (A)	Description of Work (B)	Scheduled Quantity (C)	Unit	Unit Price (D)	Current Contract Value	Work Completed						Total Completed and		Percent Complete
						Previous Requests (E)		This Request (F)		Stored Materials (G)		Stored to Date (E+F+G)		
						Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	
1	1201.0100 CLEARING & GRUBBING	4.0000	STA	\$ 2,250.00	\$ 9,000.00	3.00	\$ 6,750.00	-	\$ -	-	-	3.00	\$ 6,750.00	75%
2	1204.0100 RM CONCR PAVEMENT	400.0	SY	\$ 5.00	\$ 2,000.00	80.00	\$ 400.00	-	\$ -	-	-	80.00	\$ 400.00	20%
3	1204.0110 RM ASPHALTIC SURFACE	7,870.0	SY	\$ 2.25	\$ 17,707.50	7,279.59	\$ 16,379.08	-	\$ -	-	-	7279.59	\$ 16,379.08	92%
4	1204.0150 RM CURB & GUTTER	4,200.0	LF	\$ 2.50	\$ 10,500.00	4,115.00	\$ 10,287.50	-	\$ -	-	-	4115.00	\$ 10,287.50	98%
5	1204.0155 RM CONCR SIDEWALK	75.0	SY	\$ 10.00	\$ 750.00	12.22	\$ 122.20	-	\$ -	-	-	12.22	\$ 122.20	16%
6	1205.0100 EXCAVATION COMMON	4,750.0	CY	\$ 18.87	\$ 89,632.50	2,115.00	\$ 39,910.05	2,343.00	\$ 44,212.41	-	-	4458.00	\$ 84,122.46	94%
7	1305.0120 BASE AGGREGATE DENSE 1 1/4-IN	2,700.0	TON	\$ 24.22	\$ 65,394.00	2,187.49	\$ 52,981.01	1,681.59	\$ 40,728.11	-	-	3869.08	\$ 93,709.12	143%
8	1305.0130 BASE AGGREGATE DENSE 3-IN	3,570.0	TON	\$ 16.06	\$ 57,334.20	1,509.37	\$ 24,240.48	2,437.68	\$ 39,149.14	-	-	3947.05	\$ 63,389.62	111%
9	1416.0170 CONCR DRIVEWAY 7-IN	515.0	SY	\$ 57.15	\$ 29,432.25	294.70	\$ 16,842.11	-	\$ -	-	-	294.70	\$ 16,842.11	57%
10	1455-0605 TACK COAT	440.0	GAL	\$ 0.10	\$ 44.00	100.00	\$ 10.00	-	\$ -	-	-	100.00	\$ 10.00	23%
11	1460.5223 HMA PAVEMENT 3 LT 58-28 S	1,060.0	TON	\$ 70.00	\$ 74,200.00	485.05	\$ 33,953.50	-	\$ -	-	-	485.05	\$ 33,953.50	46%
12	1460.5224 HMA PAVEMENT 4 LT 58-28 S	830.0	TON	\$ 71.50	\$ 59,345.00	418.88	\$ 29,949.92	-	\$ -	-	-	418.88	\$ 29,949.92	50%
13	1601.0105 CONCR CURB & GUTTER 24-IN TYPE D	2,675.0	LF	\$ 18.00	\$ 48,150.00	2,098.00	\$ 37,764.00	-	\$ -	-	-	2098.00	\$ 37,764.00	78%
14	1601.0110 CONCR CURB & GUTTER 30-IN TYPE D	1,515.0	LF	\$ 19.00	\$ 28,785.00	-	\$ -	-	\$ -	-	-	0.00	\$ -	0%
15	1601.0600 CONCR CURB PEDESTRIAN	20.0	LF	\$ 70.00	\$ 1,400.00	-	\$ -	-	\$ -	-	-	0.00	\$ -	0%
16	1602.0410 CONCR SIDEWALK 5-IN	8,180.0	SF	\$ 5.35	\$ 43,763.00	277.00	\$ 1,481.95	-	\$ -	-	-	277.00	\$ 1,481.95	3%
17	1602.0420 CONCR SIDEWALK 7-IN	1,045.0	SF	\$ 6.35	\$ 6,635.75	-	\$ -	-	\$ -	-	-	0.00	\$ -	0%
18	1602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW	150.0	SF	\$ 45.00	\$ 6,750.00	20.00	\$ 900.00	-	\$ -	-	-	20.00	\$ 900.00	13%
19	1619.1000 MOBILIZATION	1.0	EA	\$ 215,694.00	\$ 215,694.00	0.75	\$ 161,770.50	-	\$ -	-	-	0.75	\$ 161,770.50	75%
20	1625.0100 TOPSOIL (6-IN)	4,335.0	SY	\$ 11.71	\$ 50,762.85	1,450.00	\$ 16,979.50	-	\$ -	-	-	1450.00	\$ 16,979.50	33%
21	1628.2006 EROSION MAT URBAN CL I TYPE A	4,335.0	SY	\$ 1.80	\$ 7,803.00	1,450.00	\$ 2,610.00	-	\$ -	-	-	1450.00	\$ 2,610.00	33%
22	S.1628.5.12 EROSION LOG	675.0	EA	\$ 6.75	\$ 4,556.25	-	\$ -	-	\$ -	-	-	0.00	\$ -	0%
23	1628.7020 INLET PROTECTION, FRAMED	23.0	EA	\$ 195.00	\$ 4,485.00	5.00	\$ 975.00	-	\$ -	-	-	5.00	\$ 975.00	22%
24	1629.0210 FERTILIZER TYPE B	3.5	CWT	\$ 90.00	\$ 315.00	1.00	\$ 90.00	-	\$ -	-	-	1.00	\$ 90.00	29%
25	1630.0130 SEEDING MIXTURE NO. 40	79.0	LB	\$ 12.95	\$ 1,023.05	50.00	\$ 647.50	-	\$ -	-	-	50.00	\$ 647.50	63%
26	1638.2102 MOVING SIGNS TYPE II	5.0	EA	\$ 110.00	\$ 550.00	-	\$ -	-	\$ -	-	-	0.00	\$ -	0%
27	1643.0500 TRAFFIC CONTROL	1.0	EA	\$ 9,640.00	\$ 9,640.00	0.75	\$ 7,230.00	-	\$ -	-	-	0.75	\$ 7,230.00	75%
28	1646.8120 MARKING STOP LINE EPOXY 18-IN	65.0	LF	\$ 15.55	\$ 1,010.75	-	\$ -	-	\$ -	-	-	0.00	\$ -	0%
29	1646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-IN	295.0	LF	\$ 14.43	\$ 4,256.85	-	\$ -	-	\$ -	-	-	0.00	\$ -	0%
30	1646.7520 MARKING CROSSWALK EPOXY LADDER PATTERN 24-IN	110.0	LF	\$ 25.20	\$ 2,772.00	-	\$ -	-	\$ -	-	-	0.00	\$ -	0%
31	1646.8120 MARKING CURB EPOXY	40.0	LF	\$ 7.34	\$ 293.60	-	\$ -	-	\$ -	-	-	0.00	\$ -	0%
32	1650.1000 CONSTR STAKING PROJECT	1.0	LS	\$ 25,000.00	\$ 25,000.00	0.75	\$ 18,750.00	-	\$ -	-	-	0.75	\$ 18,750.00	75%

Item No. (A)	Description of Work (B)	Scheduled Quantity (C)	Unit	Unit Price (D)	Current Contract Value	Work Completed						Total Completed and		Percent Complete
						Previous Requests (E)		This Request (F)		Stored Materials (G)		Stored to Date (E+F+G)		
						Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	
33	1690.1000 SAWING PAVEMENT	710.0	LF	\$ 1.95	\$ 1,384.50	393.50	\$ 767.33	-	\$ -	-	-	393.50	\$ 767.33	55%
34	2209.3000 TRENCH BACKFILL (STORM SEWER)	866.0	TON	\$ 0.01	\$ 8.66	-	\$ -	-	\$ -	-	-	0.00	\$ -	0%
35	2608.0312 STORM SEWER PIPE REINF CONCR CL III 12-IN	64.0	LF	\$ 133.14	\$ 8,520.96	52.00	\$ 6,923.28	-	\$ -	-	-	52.00	\$ 6,923.28	81%
36	2608.0315 STORM SEWER PIPE REINF CONCR CL III 15-IN	25.0	LF	\$ 138.29	\$ 3,457.25	16.00	\$ 2,212.64	-	\$ -	-	-	16.00	\$ 2,212.64	64%
37	2608.0412 STORM SEWER PIPE REINF CONCR CL IV 12-IN	506.0	LF	\$ 125.99	\$ 63,750.94	-	\$ -	532.00	\$ 67,026.68	-	-	532.00	\$ 67,026.68	105%
38	2608.2414 STORM SEWER PIPE REINF CONCR CL HE IV 14X23-IN	271.0	LF	\$ 134.11	\$ 36,343.81	-	\$ -	57.00	\$ 7,644.27	-	-	57.00	\$ 7,644.27	21%
39	2611.1230 CATCH BASINS 2X3-FT	13.0	EA	\$ 2,882.49	\$ 37,472.37	4.00	\$ 11,529.96	11.00	\$ 31,707.39	-	-	15.00	\$ 43,237.35	115%
40	2611.1004 CATCH BASINS 4-FT	5.0	EA	\$ 2,448.28	\$ 12,241.40	-	\$ -	4.00	\$ 9,793.12	-	-	4.00	\$ 9,793.12	80%
41	2700.0200 CONNECTION TO EXISTING STORM SEWER MANHOLE	1.0	EA	\$ 2,635.10	\$ 2,635.10	-	\$ -	3.00	\$ 7,905.30	-	-	3.00	\$ 7,905.30	300%
42	2700.0315 CONNECTION TO EXISTING STORM SEWER PIPE (15-IN)	1.0	EA	\$ 550.00	\$ 550.00	1.00	\$ 550.00	-	\$ -	-	-	1.00	\$ 550.00	100%
43	3209.3000 TRENCH BACKFILL (WATER MAIN)	2,306.0	TON	\$ 0.01	\$ 23.06	-	\$ -	-	\$ -	-	-	0.00	\$ -	0%
44	3801.0108 8-IN DIA DUCTILE IRON WATER MAIN	76.0	LF	\$ 154.75	\$ 11,761.00	62.00	\$ 9,594.50	20.00	\$ 3,095.00	-	-	82.00	\$ 12,689.50	108%
45	3801.0112 12-IN DIA DUCTILE IRON WATER MAIN	2,085.0	LF	\$ 163.35	\$ 340,584.75	2,074.00	\$ 338,787.90	145.00	\$ 23,685.75	-	-	2219.00	\$ 362,473.65	106%
46	3802.0110 WATER SERVICE (1-IN)	659.0	LF	\$ 116.46	\$ 76,747.14	404.00	\$ 47,049.84	217.00	\$ 25,271.82	-	-	621.00	\$ 72,321.66	94%
47	3802.0115 WATER SERVICE (1 1/2-IN)	83.0	LF	\$ 168.57	\$ 13,991.31	-	\$ -	77.00	\$ 12,979.89	-	-	77.00	\$ 12,979.89	93%
48	3803.0106 WATER VALVE AND VALVE BOX (6-IN)	7.0	EA	\$ 2,485.00	\$ 17,395.00	6.00	\$ 14,910.00	-	\$ -	-	-	6.00	\$ 14,910.00	86%
49	3803.0108 WATER VALVE AND VALVE BOX (8-IN)	3.0	EA	\$ 3,466.40	\$ 10,399.20	3.00	\$ 10,399.20	-	\$ -	-	-	3.00	\$ 10,399.20	100%
50	3803.0112 WATER VALVE AND VALVE BOX (12-IN)	10.0	EA	\$ 6,113.80	\$ 61,138.00	10.00	\$ 61,138.00	-	\$ -	-	-	10.00	\$ 61,138.00	100%
51	3804.0106 HYDRANT LEAD, 6-IN	145.0	LF	\$ 137.36	\$ 19,917.20	133.50	\$ 18,337.56	10.00	\$ 1,373.60	-	-	143.50	\$ 19,711.16	99%
52	3805.0100 FIRE HYDRANT	6.0	EA	\$ 6,660.80	\$ 39,964.80	6.00	\$ 39,964.80	-	\$ -	-	-	6.00	\$ 39,964.80	100%
53	3807.0106 CONNECT TO EXISTING WATER MAIN 6-IN	2.0	EA	\$ 1,914.40	\$ 3,828.80	-	\$ -	1.00	\$ 1,914.40	-	-	1.00	\$ 1,914.40	50%
54	3807.0108 CONNECT TO EXISTING WATER MAIN 8-IN	2.0	EA	\$ 2,000.50	\$ 4,001.00	2.00	\$ 4,001.00	-	\$ -	-	-	2.00	\$ 4,001.00	100%
55	3807.0112 CONNECT TO EXISTING WATER MAIN 12-IN	2.0	EA	\$ 2,352.25	\$ 4,704.50	1.00	\$ 2,352.25	-	\$ -	-	-	1.00	\$ 2,352.25	50%
56	3806.1000 INSULATION	192.0	SF	\$ 3.00	\$ 576.00	-	\$ -	32.00	\$ 96.00	-	-	32.00	\$ 96.00	17%
57	TRENCH BACKFILL (SANITARY SEWER)	1,924.0	TON	\$ 0.01	\$ 19.24	861.00	\$ 8.61	-	\$ -	-	-	861.00	\$ 8.61	45%
58	4801.0108 SANITARY SEWER (8-IN)	1,924.0	LF	\$ 98.09	\$ 188,725.16	1,113.00	\$ 109,174.17	856.00	\$ 83,965.04	-	-	1969.00	\$ 193,139.21	102%
59	4802.0104 SANITARY SEWER MANHOLE (4-FT)	117.0	VF	\$ 664.51	\$ 77,747.67	91.23	\$ 60,623.25	19.50	\$ 12,957.95	-	-	110.73	\$ 73,581.19	95%
60	4803.0104 SANITARY SEWER LATERAL (4-IN)	896.0	LF	\$ 95.88	\$ 85,908.48	449.50	\$ 43,098.06	372.00	\$ 35,667.36	-	-	821.50	\$ 78,765.42	92%
61	4803.0106 SANITARY SEWER LATERAL (6-IN)	41.0	LF	\$ 99.18	\$ 4,066.38	-	\$ -	42.00	\$ 4,165.56	-	-	42.00	\$ 4,165.56	102%
62	4804.0208 CONNECT TO EXISTING SANITARY SEWER PIPE 8-IN	1.0	EA	\$ 2,028.85	\$ 2,028.85	1.00	\$ 2,028.85	-	\$ -	-	-	1.00	\$ 2,028.85	100%
					\$ -	-	\$ -	-	\$ -	-	-	0.00	\$ -	
					\$ -	-	\$ -	-	\$ -	-	-	0.00	\$ -	

Item No. (A)	Description of Work (B)	Scheduled Quantity (C)	Unit	Unit Price (D)	Current Contract Value	Work Completed						Total Completed and		Percent Complete
						Previous Requests (E)		This Request (F)		Stored Materials (G)		Stored to Date (E+F+G)		
						Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	
					\$ -	-	\$ -	-	\$ -			0.00	\$ -	
					\$ -	-	\$ -	-	\$ -			0.00	\$ -	
					\$ -	-	\$ -	-	\$ -			0.00	\$ -	
					\$ -	-	\$ -	-	\$ -			0.00	\$ -	
					\$ -	-	\$ -	-	\$ -			\$ -	\$ -	
					\$ 2,008,878.08		\$ 1,264,475.48		\$ 453,338.79		\$ -		\$ 1,717,814.27	

2026 City of Verona Pavement Surface Treatment (#10205105)

Owner: Verona WI, City of

Solicitor: Verona WI, City of

06/04/2026 11:00 AM CDT

St	Line	Item	Code	Item Description	UoM	Quantity	Engineer Estimate		Scott Construction, Inc		Fahrner Asphalt Sealers, LLC	
							Unit Price	Extension	Unit Price	Extension	Unit Price	Extension
SECTION A - Chip Seal								\$162,850.49		\$146,151.45		\$155,111.96
	1	1475.01	CHIP SEAL	SY		39519	\$2.12	\$83,780.28	\$2.00	\$79,038.00	\$2.19	\$86,546.61
	2	1475.0200	SWEEPING	SY		39519	\$0.25	\$9,879.75	\$0.05	\$1,975.95	\$0.15	\$5,927.85
	3	1643.5	TRAFFIC C	CLS		1	\$5,000.00	\$5,000.00	#####	\$5,000.00	\$2,500.00	\$2,500.00
	4	1646.102	MARKING L	LF		13229	\$0.84	\$11,112.36	\$0.65	\$8,598.85	\$0.65	\$8,598.85
	5	1646.3	MARKING L	LF		1780	\$1.22	\$2,171.60	\$0.78	\$1,388.40	\$0.78	\$1,388.40
	6	1646.5	MARKING A	EA		30	\$190.00	\$5,700.00	\$295.00	\$8,850.00	\$295.00	\$8,850.00
	7	1646.51	MARKING V	EA		9	\$210.00	\$1,890.00	\$320.00	\$2,880.00	\$320.00	\$2,880.00
	8	1646.52	MARKING S	EA		14	\$190.00	\$2,660.00	\$275.00	\$3,850.00	\$275.00	\$3,850.00
	9	1646.6	MARKING S	LF		195	\$17.00	\$3,315.00	\$14.50	\$2,827.50	\$14.50	\$2,827.50
	10	1646.7	MARKING C	LF		456	\$10.25	\$4,674.00	\$11.75	\$5,358.00	\$11.75	\$5,358.00
	11	1646.74	MARKING C	LF		1527	\$12.50	\$19,087.50	\$9.25	\$14,124.75	\$9.25	\$14,124.75
	12	1646.82	MARKING K	EA		5	\$200.00	\$1,000.00	\$380.00	\$1,900.00	\$380.00	\$1,900.00
	13	13	MARKING C	EA		74	\$170.00	\$12,580.00	\$140.00	\$10,360.00	\$140.00	\$10,360.00
Base Bid Total:								\$162,850.49		\$146,151.45		\$155,111.96

2026 City of Verona GSB-88 Bituminous Seal (#10205108)

Owner: Verona WI, City of

Solicitor: Verona WI, City of

06/04/2026 11:00 AM CDT

Section Title	Line Item	Item Code	Item Description	UoM	Quantity	Engineer Estimate		Fahrner Asphalt Sealers, LLC	
						Unit Price	Extension	Unit Price	Extension
SECTION A - Chip Seal							\$89,963.00		\$72,403.98
	1	SP 1-26	BITUMINOL SY		56642	\$1.50	\$84,963.00	\$1.19	\$67,403.98
	2	SP 25 (4) d	TRAFFIC CCLS		1	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
Base Bid Total:							\$89,963.00		\$72,403.98



City of Verona GIS
Old PB



City of Verona
111 Lincoln St
Verona, WI 53593
(608) 845 - 6495

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SCALE: 1" = 188'

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