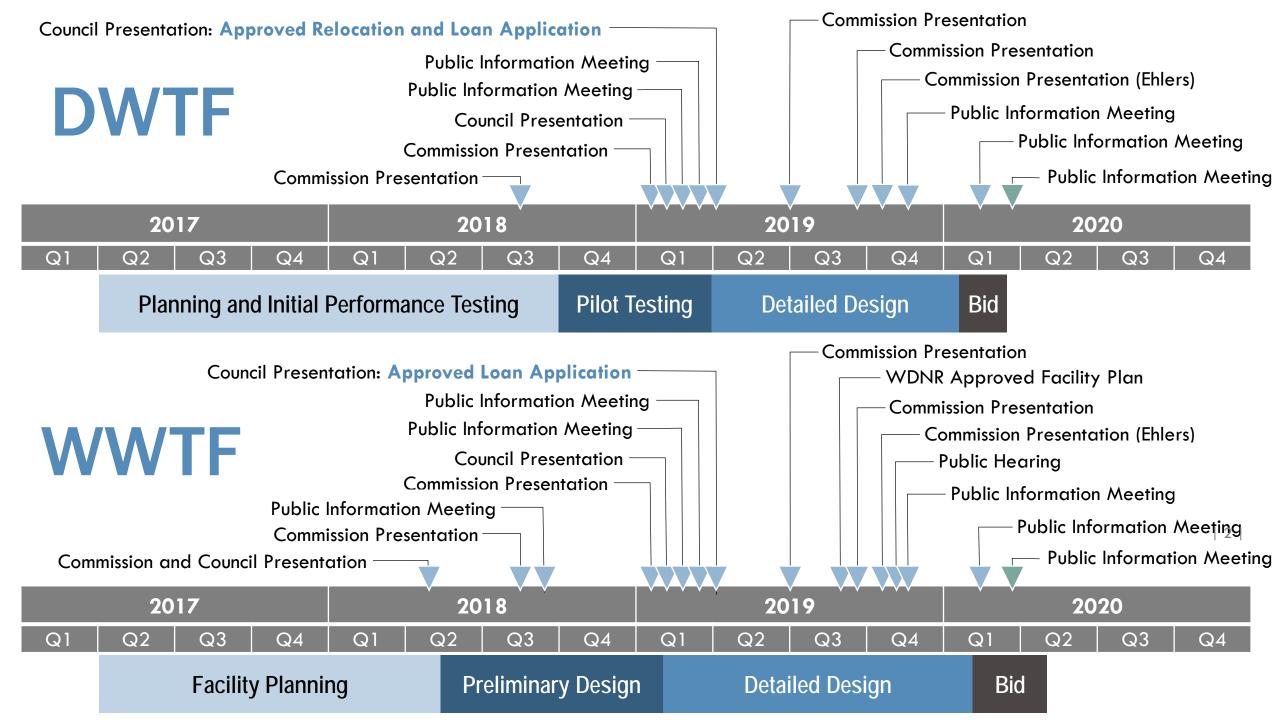
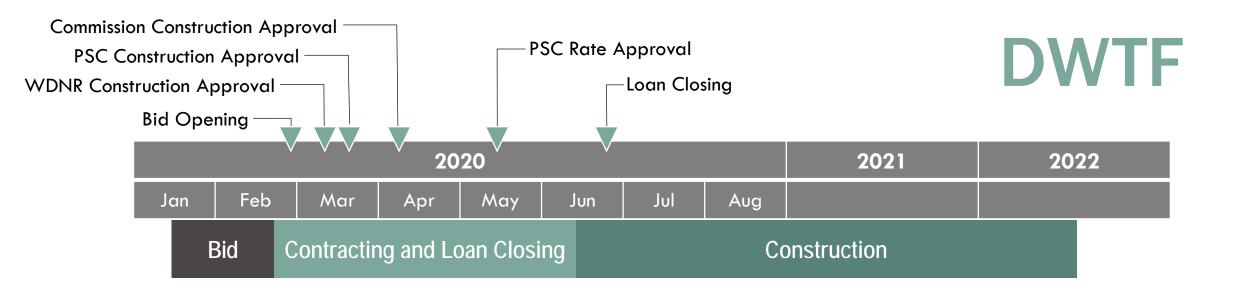
Public Information Meeting

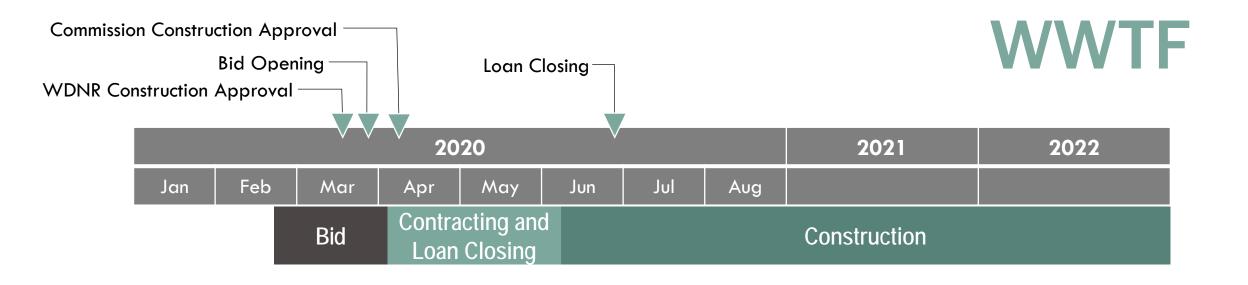
Wastewater Treatment Facility
Drinking Water Treatment Facility



5:30 PM, Wednesday, February 26, 2020 North Central Technical College (NTC) 1000 West Campus Drive Wausau, WI 5:00 PM, Wednesday, March 18, 2020 City Hall 407 Grant Street Wausau, WI







Public Engagement History

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05-01-2018 – WWTF Presentation; Wausau Waterworks Commission
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05-01-2018 – WWTF Presentation; City Council Committee of Whole (C-O-W)

09-04-2018 – WWTF Presentation; Wausau Waterworks Commission

08-07-2028 – DWTF Presentation; Wausau Waterworks Commission

10-17-2018 — Sewer Rate Increase; PIM

01-08-2019 – WWTF & DWTF Presentation; Wausau Waterworks Commission

01-23-2019 - WWTF & DWTF Presentation; City Council C-O-W

02-18-2019 - WWTF & DWTF Presentation PIM at NTC

03-06-2019 - WWTF & DWTF Presentation PIM at NTC

03-26-2019 — City Council Approves relocation of DWTF

03-26-2019 - City Council Approves application to DNR for SDWL & CWFL

06-25-2019 – WWTF & DWTF Presentation; Wausau Waterworks Commission

10-01-2019 – WWTF & DWTF Presentation; Wausau Waterworks Commission - alternative energy options

11-05-2019 – WWTF & DWTF Presentation by Ehler's on debt issuance; Wausau Waterworks Commission

11-20-2019 – WWTF & DWTF Presentation PIM; City Hall

02-26-2020 - WWTF & DWTF Presentation PIM; NTC

PROPOSED March 18, 2020 – WWTF & DWTF Presentation PIM; City Hall



Both Projects at Once?

- New WDNR regulations Both Water and Sewer
- Funding availability Future availability; higher priority projects
- Financing rate at all time low 1.65%
- Capital budget increase over 100% in 5yrs; trend to continue
- Wausau's rates have been historically low no upgrades
- Capital Planning & Facility Planning





Drinking Water Treatment

Facility (DWTF)

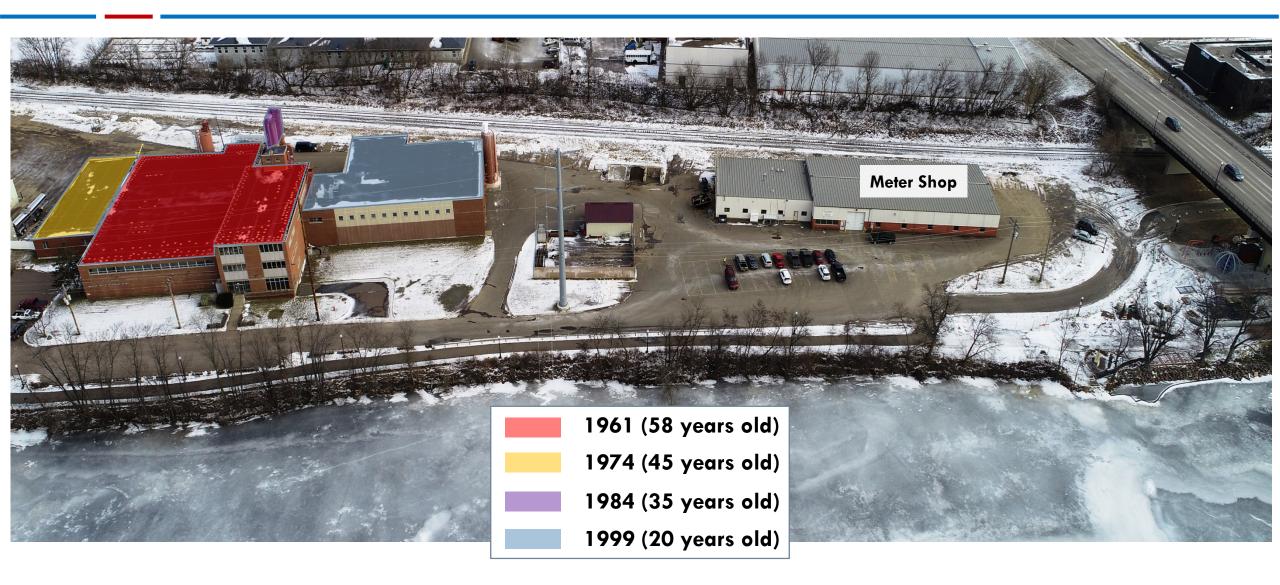




DWTF Planning History

- 2016 Initial budget for facility planning
- 2017 WDNR mandated clearwell replacement (Dec. 31, 2022)
- 2017 Utility issued RFP for DWTF Facility Plan
- 2018 Utility hired Becher Hoppe/Donohue for DWTF Facility Plan
- 2018-2019 Utility conducted an 18-month pilot study to determine best treatment process and corrosion control
- 2018-2019 Facility Plan alternatives Relocate DWTF best option
- 2019 Design Report & Draft Plans submitted to WDNR
- 2019 Submitted Construction Authorization (CA) & Rate Case to PSC
- 2020 Becher Hoppe/Donohue/Clark Dietz design, plans & bid project

Current DWTF North Side of Bridge Street



DWTF - WDNR Highlights

- 1. Regulations: WDNR Requires Action
 - Clearwell non-compliant Below Groundwater
 - SS Plant and solids recovery hydraulic deficiencies
 - Water Source Under Surface Water Influence (GWUDI)
 - Located in 500-year floodplain
- 2. Water Quality: Iron, Manganese, and Natural Organics
- 3. Operational Issues: 1961 Filter bed, SCADA, SS Plant

Facility Upgrades vs Relocation

1. Upgrade Existing Facility: ~\$31,000,000

- Large Investment; Short Lived
- In 500-Year Floodplain; high risk No space to meet future regulations

2. New Facility: \$41,000,000

- 60+ year life of the facility
- Near 5 of 6 wells Remove CW3
- Outside floodplain
- Meet WDNR requirements; now & future
- Maintain operation during construction
- Enhance corrosion control
- Ensure enhanced disinfection for GWUDI classification in near future

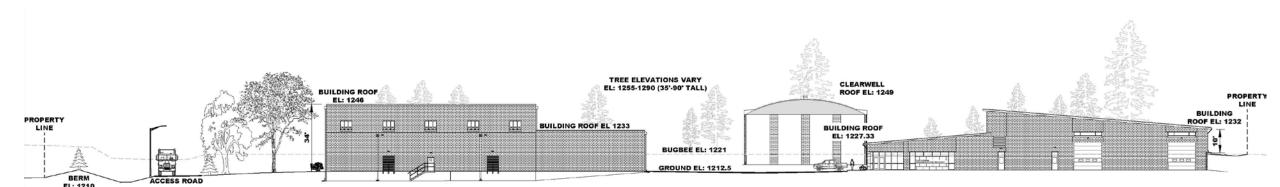




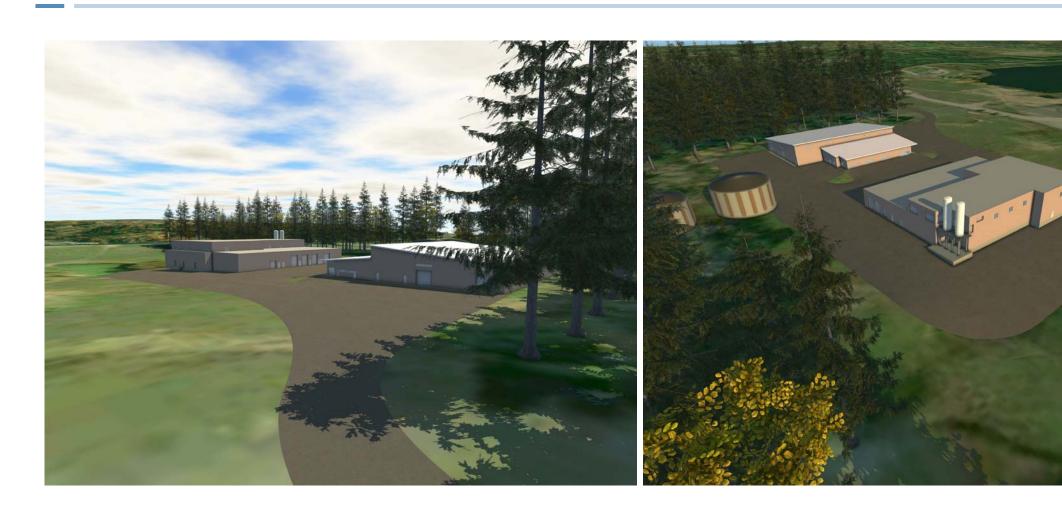
The New Drinking Water Treatment Facility



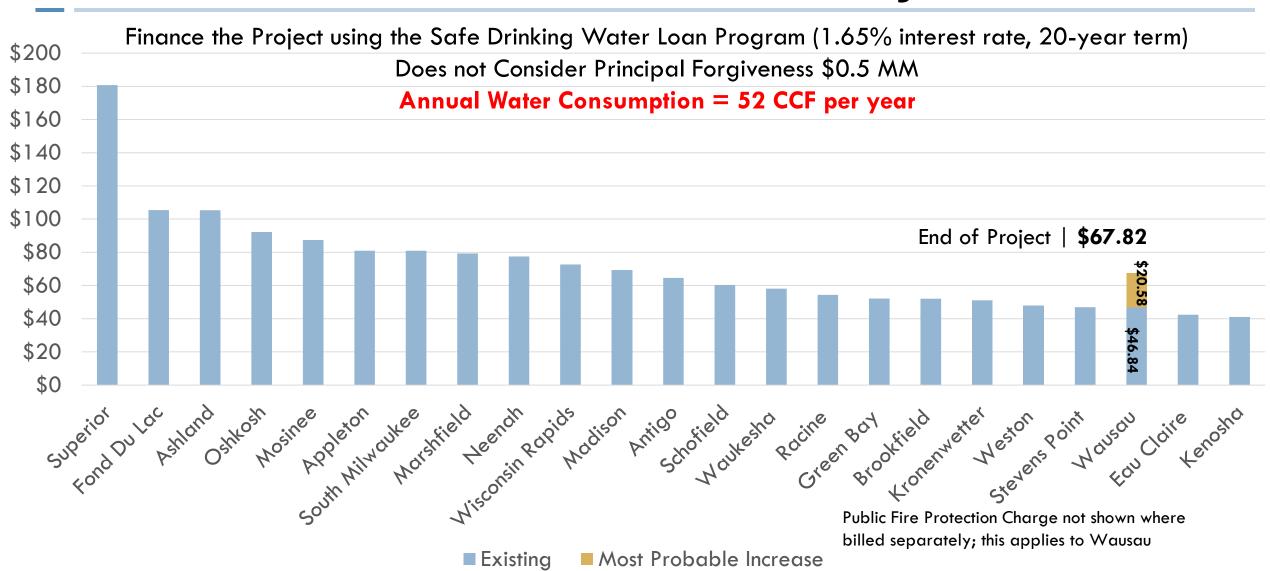
The New Drinking Water Treatment Facility



The New Drinking Water Treatment Facility



The Most Probable Residential Quarterly Cost to Finance the \$41MM Project



The Wastewater Treatment Facility (WWTF)

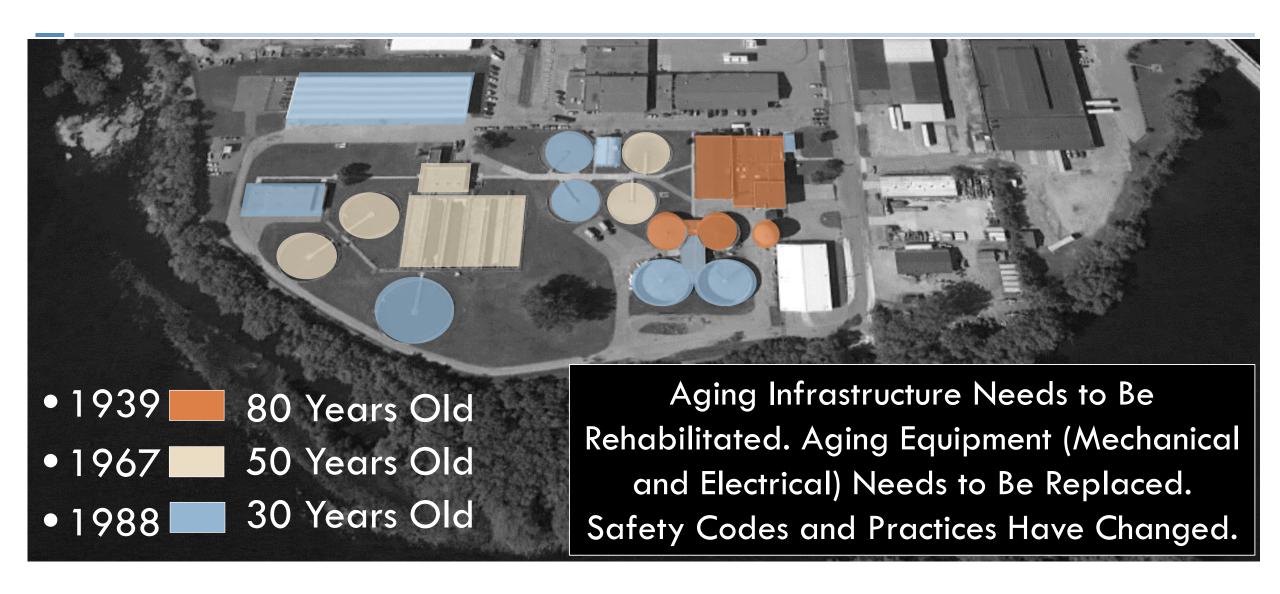




WWTF Planning History

- 2016 Initial budget for facility planning
- 2017 WDNR projected TMDL & low level phosphorous limit
- 2017 Utility issued RFP for WWTF Facility Plan
- 2018 Utility hired Donohue for WWTF Facility Plan
- 2018-2019 Facility Plan presented alternatives for WWTF improvement
- 2019 Facility plan was completed and submitted to WDNR
- 2019 Utility submitted Facility Plan to WDNR for approval
- 2019-2020 Utility hired Ehler's to prepare rate case
- 2020 Donohue/Becher Hoppe completed design plans & bid project

The Existing Facility is Old



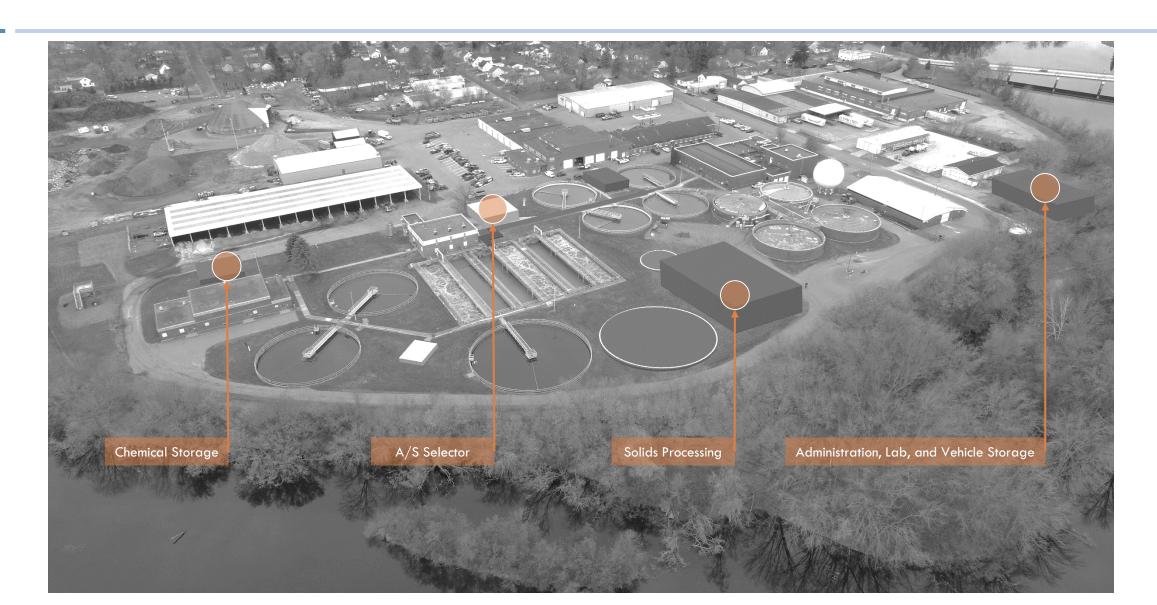
WDNR Compliance

1. WPDES Permit

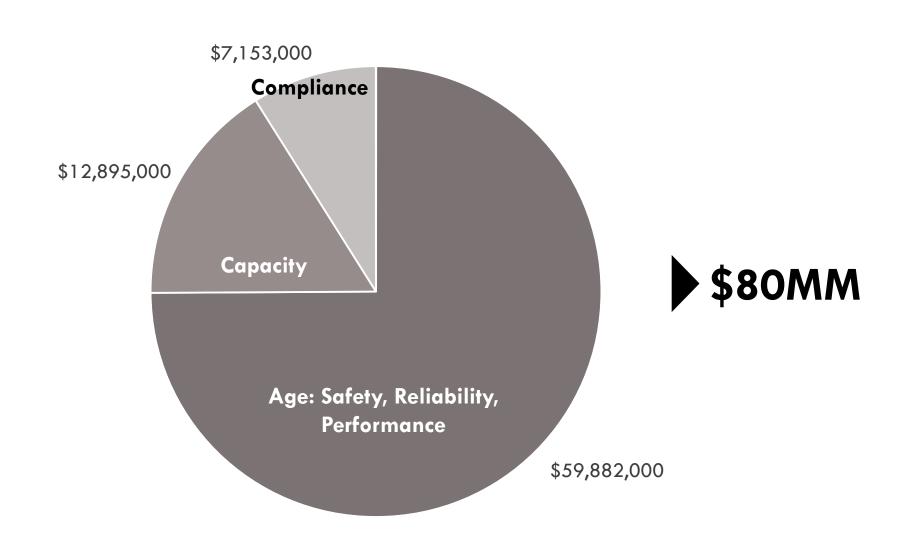
- Low level phosphorous
- Move to Class A biosolid
 Class B restrictive & costly
- Future regulation
 PFAS, land application testing
- 2. Capacity: Process issues
 - UV disinfection
 - Filtration
 - Sludge thickening no redundancy
- 3. Age: Safety, Reliability, and Performance



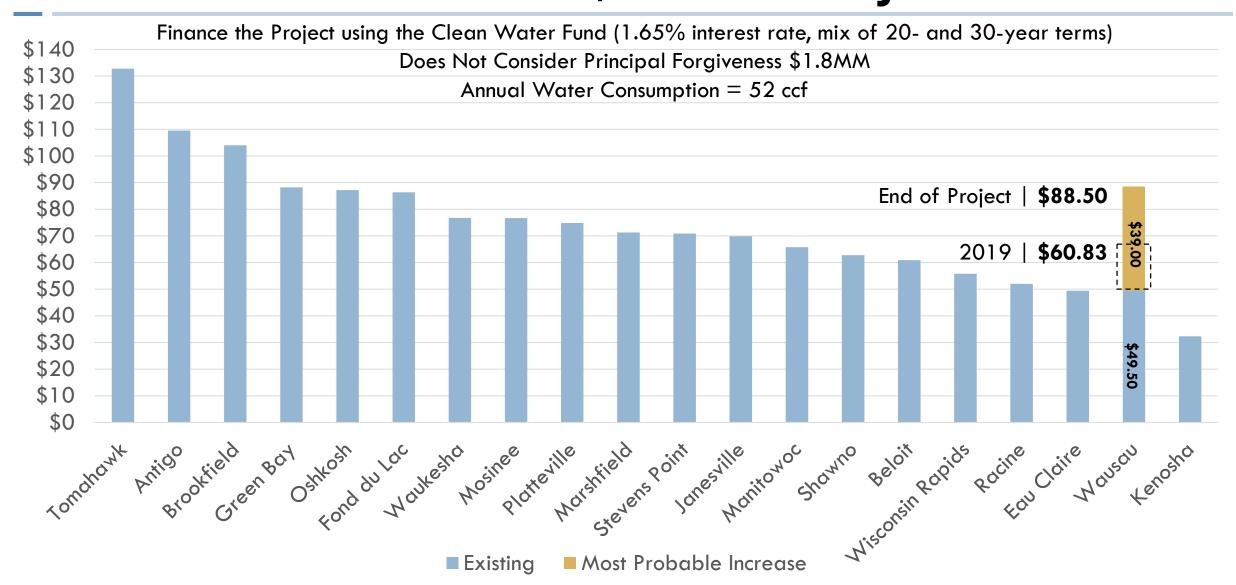
Maximize use of All Existing Structures



The Project Cost



The Most Probable Residential Quarterly Cost to Finance the \$80MM Project



		Billing Hi	istory: Lindn	nan, Fami	ily of 5, 3/	4"	Meter			
Utilty Charges	Rate/ccf	Jan-Mar '19 Qty ccf	Qtr Charge	Apr-Jun '19 Qty ccf	Qtr Charge		Jul-Sep '19 Qty ccf	Qtr Charge	Oct-Dec '19 Qty ccf	Qtr Charge
Water Service										
Water - Qtrly Fee		Fixed	17.07	Fixed	17.07		Fixed	17.07	Fixed	17.07
Water - Vol Chrg	2.29	29	66.41	34	77.86		38	87.02	31	70.99
Water Service Subtotal			83.48		94.93			104.09		88.06
Sewer Service										
Sewer - Qtrly Fee		Fixed	20.40	Fixed	_		Fixed	_	Fixed	·
Sewer - Vol Chrg	3.11	29	90.19	34	105.74		38	118.18	31	96.41
Sewer Service Subtotal			110.59		105.74			118.18		96.41
Public Fire Service										
Public Fire		Fixed	10.47	Fixed	10.47		Fixed	10.47	Fixed	10.47
Total Quarterly Bill			\$204.54		\$211.14			\$232.74		\$194.94
Average QUARTERLY Usage & Cost			33	\$226.14						
Average MONTHLY Usage & Cost				11	\$75.38					

Billing Proposed: Lindman, Family of 5, 3/4" Meter; Water increase of 42% and Sewer increase of 79%												
		Jan-Mar		П	Apr-Jun			Jul-Sep		T	Oct-Dec	
		'19 Qty		П	'19 Qty			'19 Qty		ı	'19 Qty	
Utilty Charges	Rate/ccf	ccf	Qtr Charge	Ш	ccf	Qtr Charge	12	ccf	Qtr Charge		ccf	Qtr Charge
Water Service				П						Ī		
Water - Qtrly Fee		Fixed	24.24	П	Fixed	24.24		Fixed	24.24	ı	Fixed	24.24
Water - Vol Chrg	3.25	29	94.30	П	34	110.56	П	38	123.57		31	100.81
Water Service Subtotal			118.54			134.80			147.81			125.05
Sewer Service				П						Ī		
Sewer - Qtrly Fee		Fixed	36.52	П	Fixed	36.52		Fixed	36.52	ı	Fixed	36.52
Sewer - Vol Chrg	5.60	29	162.34	П	34	190.33		38	212.72	ı	31	173.54
Sewer Service Subtotal			198.86			226.85			249.24	Ī		210.05
Public Fire Service				П						T		
Public Fire		Fixed	14.87	Ш	Fixed	14.87		Fixed	14.87		Fixed	14.87
Total Quarterly Bill			\$332.27	П		\$376.52			\$411.92			\$349.97

11

\$367.67 \$122.56

Average QUARTERLY Usage & Cost 33

Average MONTHLY Usage & Cost

Affordability & Cost Effective

- No doubt big projects with BIG \$\$\$'s
- Significantly important Providing safe clean water and treating wastewater; vital for future growth and sustainability
- Cost effective and affordable Absolutely
- Wausau will be providing safe, high-quality drinking water to a typical home for less than \$1/day
- Wausau will be collecting wastewater, treating it, and sending safe clean water back to the environment for a typical <u>home</u> for less than \$1/day

Thank You

