

CITY OF MERRILL

UTILITY CAPITAL

2019 BUDGET REQUESTS

**Preliminary Utility Revenue Bond borrowing projected.
Additional fiscal review needed after
the 2018 audit completed.**

Revised: 11/09/2018

City of Merrill, Wisconsin

Capital Plan

2019 thru 2028

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Department	Project #	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
Utility - Water & Sewer												
Sewer Main - Lining	UT-SEW-19-01	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000
Roof Replacements	UT-SEW-19-02	40,000										40,000
Lab Upgrade	UT-SEW-19-03	70,000										70,000
MCC Grit Building	UT-SEW-19-05	60,000										60,000
Grit Pad	UT-SEW-19-06	85,000										85,000
Primary Effluent Pumps	UT-SEW-19-08	35,000										35,000
Mower/Snowblower	UT-SEW-19-10	30,000										30,000
Strand East Side Pressure Zone	UT-WAT-19-01	30,000										30,000
Roof - Water Garage	UT-WAT-19-05	50,000										50,000
Tower Mixers	UT-WAT-20-02		40,000									40,000
Utility - Water & Sewer Total		450,000	90,000	50,000	940,000							
U - Sewer Fund		275,000	50,000	725,000								
U - Sewer Replacement		95,000										95,000
U - Water Fund		80,000	40,000									120,000
Utility - Water & Sewer Total		450,000	90,000	50,000	940,000							
Grand Total		450,000	90,000	50,000	940,000							

U-CAP-1

Capital Plan

2019 thru 2028

City of Merrill, Wisconsin

Project #	UT-SEW-19-01
Project Name	Sewer Main - Lining

Type	Maintenance	Department	Utility - Water & Sewer
Useful Life	25+ years	Contact	utility Superintendent
Category	Wastewater	Priority	2 Important

Description	Total Project Cost: \$500,000
Potential hiring of contractor to line sanitary sewer mains.	

Justification
If rebuilding of street pavement is not required, poential to line existing sanitary sewer mains.

Expenditures	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
Construction - Sewer Main Lining	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000
Total	50,000	500,000									

Funding Sources	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
U - Sewer Fund	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000
Total	50,000	500,000									

Budget Impact/Other

Capital Plan

2019 *thru* 2028

City of Merrill, Wisconsin

Project #	UT-SEW-19-02
Project Name	Roof Replacements

Type	Maintenance	Department	Utility - Water & Sewer
Useful Life	25+ years	Contact	utility Superintendent
Category	Wastewater	Priority	1 Critical

Description	Total Project Cost: \$40,000
Roof replacements of various WWT Plant buildings. Carry-over project from 2018.	

Justification
Roofs reaching end-of-life.

Expenditures	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
WWT Plant Improvements	40,000										40,000
Total	40,000										40,000

Funding Sources	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
U - Sewer Fund	40,000										40,000
Total	40,000										40,000

Budget Impact/Other

U-CAP-3

Capital Plan

2019 *thru* 2028

City of Merrill, Wisconsin

Project #	UT-SEW-19-03
Project Name	Lab Upgrade

Type	Improvement	Department	Utility - Water & Sewer
Useful Life	20+ years	Contact	Utility Operations Manager
Category	Equipment - WWT Plant	Priority	I Critical

Description	Total Project Cost: \$70,000
Continue WWT lab upgrade.	

Justification
Upgrading the lab for quality control.

Expenditures	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
WWT Plant Improvements	70,000										70,000
Total	70,000										70,000

Funding Sources	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
U - Sewer Fund	70,000										70,000
Total	70,000										70,000

Budget Impact/Other

Capital Plan

2019 thru 2028

City of Merrill, Wisconsin

Project #	UT-SEW-19-05
Project Name	MCC Grit Building

Type	Improvement	Department	Utility - Water & Sewer
Useful Life	20 years	Contact	Utility Operations Manager
Category	Wastewater	Priority	2 Important

Description	Total Project Cost: \$60,000
Replace the motor control center (MCC) for the blowers.	

Justification
Will be installing new blowers and need to update the electrical service.

Expenditures	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
WWT Plant Improvements	60,000										60,000
Total	60,000										60,000

Funding Sources	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
U - Sewer Replacement	60,000										60,000
Total	60,000										60,000

Budget Impact/Other

U-CAP-5

Capital Plan

2019 *thru* 2028

City of Merrill, Wisconsin

Project #	UT-SEW-19-06
Project Name	Grit Pad

Type	Improvement	Department	Utility - Water & Sewer
Useful Life	20+ years	Contact	Utility Operations Manager
Category	Wastewater	Priority	2 Important

Description	Total Project Cost: \$85,000
Build a grit pad.	

Justification
Install a grit pad to dewater the waste that is collected from sewer cleaning.

Expenditures	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
WWT Plant Improvements	85,000										85,000
Total	85,000										85,000

Funding Sources	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
U - Sewer Fund	85,000										85,000
Total	85,000										85,000

Budget Impact/Other

U-CAP-6

Capital Plan

2019 *thru* 2028

City of Merrill, Wisconsin

Project #	UT-SEW-19-08
Project Name	Primary Effluent Pumps

Type	Equipment	Department	Utility - Water & Sewer
Useful Life	20+ years	Contact	Utility Operations Manager
Category	Wastewater	Priority	1 Critical

Description	Total Project Cost: \$35,000
Replace primary pump.	

Justification
Needs VFD installed and needs to be replaced. Existing equipment can not be rebuilt.

Expenditures	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
WWT Plant Improvements	35,000										35,000
Total	35,000										35,000

Funding Sources	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
U - Sewer Replacement	35,000										35,000
Total	35,000										35,000

Budget Impact/Other

U-CAP-7

Capital Plan

2019 thru 2028

City of Merrill, Wisconsin

Project #	UT-SEW-19-10
Project Name	Mower/Snowblower

Type	Equipment	Department	Utility - Water & Sewer
Useful Life	10 years	Contact	Utility Operations Manager
Category	Equipment: Miscellaneous	Priority	1 Critical

Description	Total Project Cost: \$30,000
Replacement of 2006 mower/snowblower.	

Justification
The 2006 unit is breaking down more frequently and has reached end-of-life.

Expenditures	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
Equipment/Vehicles	30,000										30,000
Total	30,000										30,000

Funding Sources	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
U - Sewer Fund	30,000										30,000
Total	30,000										30,000

Budget Impact/Other

Capital Plan

2019 *thru* 2028

City of Merrill, Wisconsin

Project #	UT-WAT-19-01
Project Name	Strand East Side Pressure Zone

Type	Planning	Department	Utility - Water & Sewer
Useful Life	10 years	Contact	Utility Operations Manager
Category	Water	Priority	1 Critical

Description	Total Project Cost: \$30,000
Pressure zone study for east side.	

Justification
Likely will need water improvements for new Highway G industrial/business park and for better water pressure to east side.

Expenditures	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
Planning/Design	30,000										30,000
Total	30,000										30,000

Funding Sources	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
U - Water Fund	30,000										30,000
Total	30,000										30,000

Budget Impact/Other

Capital Plan

2019 thru 2028

City of Merrill, Wisconsin

Project #	UT-WAT-20-02
Project Name	Tower Mixers

Type	Improvement	Department	Utility - Water & Sewer
Useful Life	20+ years	Contact	Utility Operations Manager
Category	Water	Priority	1 Critical

Description	Total Project Cost: \$40,000
Install a mixer in each tower.	

Justification
Circulates the water in the tower to keep it from getting stagnant and prevents freezing in winter.

Expenditures	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
Water Tower		40,000									40,000
Total		40,000									40,000

Funding Sources	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
U - Water Fund		40,000									40,000
Total		40,000									40,000

Budget Impact/Other

Capital Plan

2019 *thru* 2028

City of Merrill, Wisconsin

Project #	UT-WAT-19-05
Project Name	Roof - Water Garage

Type	Maintenance	Department	Utility - Water & Sewer
Useful Life	25+ years	Contact	utility Superintendent
Category	Water	Priority	2 Important

Description	Total Project Cost: \$50,000
Replacement of Water Garage Roof.	

Justification
Original roof has reach end-of-life. Carryover project from 2018.

Expenditures	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
Roof Replacement	50,000										50,000
Total	50,000										50,000

Funding Sources	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
U - Water Fund	50,000										50,000
Total	50,000										50,000

Budget Impact/Other

U-CAP-11

WATER FUND - CAPITAL PLAN, 2019 - 2027

Type	Year	Make	Apparatus										
			2019	2020	2021	2022	2023	2024	2025	2026	2027		
Water Utility roof	1999		\$50,000										
Plow for truck	Truck 57	2008	Chevy										
Utility box	Truck 57	2008	Chevy										
Lights Upgrade	Utility shop												
Tower Mixers				\$40,000									
Tower A inspection										\$5,000			
Booster pumping station					\$500,000								
Water Tower					\$1,000,000								
Retention Tank					\$50,000								
Strand water systems update				\$30,000									
Van (sewer camera \$ meters)	Van 52	2004	Ford			\$35,000							
Lawn mower		2012								\$10,000			
Filter Rehab					\$30,000								
Well													
SCADA upgrade		1999				\$100,000							
Tower B inspection							\$6,000						
Truck with dump box	Truck 53	1991					\$40,000						
Well rehab # 5													\$50,000
Well rehab # 4								\$20,000					
Well abandonment #3								\$75,000					
Tower A inspection										\$6,000			
Pickup	Truck 57	2008	Chevy							\$35,000			
Filter Rehab													
S. Center generator		1995									\$35,000		
Sewer camera		2016									\$80,000		
Backhoe loader		2017	John Deer									\$60,000	
Tower B inspection												\$80,000	
Tower Rehab													\$6,000
													\$50,000
			Total*	\$70,000	\$1,580,000	\$500,000	\$46,000	\$95,000	\$56,000	\$115,000	\$140,000	\$106,000	

*There likely will be additional water main replacement expenses as part of street/utility improvements.

SEWER FUND - CAPITAL PLAN, 2019 - 2029

Type	Date Placed In-Service	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Sewer Truck	2012								\$400,000			
Roof Replacements		\$40,000										
Digester Cleaning	1991											
Aeration Blower	1991		\$65,000									
Black Top Replacement												
Mower/Snowblower	2006	\$30,000										
MCC Primary Effluent Building			\$80,000									
Lab Upgrade		\$70,000										
MCC Grit Building	1991	\$60,000										
Grit Pad	1991	\$85,000										
Grit Blowers	1991											\$75,000
WI St Lift station pump upgrade			\$40,000									
Primary Effluent Pumps	1991	\$35,000	\$35,000									
Primary Sludge Pumps	1991			\$75,000								
Biological Phosphorus Removal	1991			\$200,000								
Digester Gas Safety Equipment	1991				\$205,000							
Digester Transfer Pump	1991				\$40,000							
Strand ONR						\$30,000						
Refurbish Digester Covers	1991					\$170,000						
Exchanger	1991					\$95,000						
Digester Gas Flare	1991					\$75,000						
Digester HVAC	1991						\$100,000					
Digester Piping	1991						\$70,000					
Class A Sludge												
Sludge Hauling Truck	1991							\$70,000				
Truck								\$50,000				
Polymer Upgrade	1991							\$80,000				
Beltpress	1991										\$300,000	
Clarifier Covers									\$50,000			
Digester Feed Pumps	1991								\$75,000			
Sludge Transfer Pumps	1991									\$50,000		
Aeration Diffusers	1991									\$100,000		
Flood Water Pumps	1991											\$50,000
Total*		\$320,000	\$220,000	\$275,000	\$245,000	\$370,000	\$170,000	\$200,000	\$525,000	\$150,000	\$300,000	\$125,000

*There likely will be additional sewer main replacement expenses as part of street/utility improvements. Annually budgeting \$50,000 for potential lining of sanitary sewer mains.

Sewer Utility 10 year plan

Revised: 10/9/2016