



MINNESOTA

PUBLIC FACILITIES AUTHORITY

Estimated Funding Needs Report

Report to the Legislative Capital Investment and
Environmental and Natural Resource Finance Committees

In Accordance with Minnesota Statutes, Section 446A.076

February 1, 2023

**Minnesota Public Facilities Authority
2023 Estimated Funding Needs Report**

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Introduction

Nearly 600 Minnesota municipalities own and operate wastewater systems and over 700 own and operate drinking water systems, all of which are essential to protect public health and the environment. Maintaining these systems is a major responsibility for local governments. Challenges include replacing and rehabilitating aging infrastructure and upgrading treatment facilities to meet current water quality standards. The Minnesota Public Facilities Authority (PFA) helps municipalities construct projects to meet their water infrastructure needs through several loan and grant programs.

The PFA's largest programs are the Clean Water and Drinking Water Revolving Funds. Since inception in 1990, these revolving loan funds have provided \$4.4 billion in low interest loans to municipalities throughout the State, with below-market interest rates that are saving communities over \$900 million in interest costs.

The PFA also administers two large grant programs that provide additional assistance to help municipalities address their water infrastructure needs: the Water Infrastructure Funding (WIF) program and the Point Source Implementation Grant (PSIG) program. As required by Minnesota Statutes, Section 446A.076, this report identifies estimated funding needs under these grant programs. In many cases, the estimated grant amounts in this report are based on preliminary project information and have not been finalized.

Water Infrastructure Funding (WIF) Program

The Water Infrastructure Funding (WIF) program is established in Minnesota Statutes, Section 446A.072. The purpose of the WIF grant program is to help cities build projects to replace aging and obsolete water systems that would otherwise be unaffordable. Without this assistance, municipal water systems in small and disadvantaged communities would be at increased risk of major system failure.

The PFA awards WIF grants in conjunction with loans from its Clean Water and Drinking Water Revolving Fund (CWRF and DWRF) programs and project funding from the U.S. Department of Agriculture's (USDA) Rural Development grant and loan program. Municipalities seeking WIF grants must have their projects listed on project priority lists (PPLs) developed by the Minnesota Pollution Control Agency (MPCA) for wastewater projects, and the Minnesota Department of Health (MDH) for drinking water projects. The PPLs rank projects that are expected to proceed with construction within a five-year period according to environmental and public health factors. The WIF program does not have a separate application process. Projects are evaluated for grant eligibility as part of the application process for PFA loans or USDA Rural Development funding.

WIF grants are awarded to eligible projects based on their priority rank on the MPCA or MDH project priority lists and their readiness to proceed. Under Minnesota Statutes, section

446A.072, subdivision 3(d), each fiscal year the PFA reserves available funds for eligible projects when they are certified by the MPCA or MDH, or when the project receives a funding commitment from USDA Rural Development. Funds are reserved in an amount based on the project cost estimate when the project is certified or the as-bid cost, whichever is less. Grants are not awarded until as-bid construction are submitted and all application information is verified. If a project's as-bid costs would result in a grant award larger than the amount reserved, the PFA will award the higher amount if sufficient funds are available.

WIF Affordability Criteria

WIF affordability criteria are established in Minnesota Statutes, section 446A.072, subdivision 5a. The criteria are based on the average system costs per household as a percentage of median household income of the project service area. For most projects that serve the entire municipality and whose costs are spread over all system users, the total system users and median household income of the municipality are used. For projects serving a smaller service area and that rely on special assessments on specific benefitting properties, affordability is calculated based on those users and the median household income of that service area. While the WIF program is potentially available to all cities, WIF grant recipients tend to be smaller communities that typically have higher costs per household than larger cities.

For projects receiving PFA loans, the average annual system cost per household is determined by taking the annual operation and maintenance cost of the wastewater or drinking water system, plus existing annual debt service costs from prior capital improvements, plus new debt service for the proposed project for the maximum allowable loan term, divided by the number of users. Existing debt service is calculated based on a ten-year average to fairly reflect long-term debt costs. The total number of users is based on a calculation of equivalent residential units (ERUs) in order to capture both residential and non-residential users.

When the average annual system cost per household, including the cost of the new project, exceeds 1.4 percent of median household income for wastewater projects, or 1.2 percent for drinking water projects, the project is eligible to receive a WIF grant to offset a portion of the PFA loan. The amount of the grant is equal to 80 percent of the amount needed to reduce the average residential system cost to the 1.4 percent or 1.2 percent threshold, up to a maximum grant of 80% of eligible project cost or \$5,000,000. The WIF program provides assistance only for project costs necessary to address existing needs, not growth. The WIF eligible project cost is determined by multiplying the total project cost by the Essential Project Component percentage calculated by MPCA or MDH, which represents the portion of the project needed to meet existing needs.

Similar to the PFA process, small rural communities (generally under 1,000 population) with median household incomes below the non-metro state average may apply to USDA Rural Development for wastewater and drinking water grants and loans. Projects that are eligible to receive a USDA Rural Development grant based on the Rural Development affordability criteria may receive a WIF matching grant for up to 65% of the total grant need determined by USDA

Rural Development. This state-federal partnership allows state WIF funds to assist more projects, makes it easier for small communities to access funding, reduces state administrative expenses, and helps USDA Rural Development maximize the federal funds allocated for Minnesota communities.

Whether a WIF grant is awarded in conjunction with a PFA loan or as a match to USDA Rural Development funding, the maximum grant is \$5,000,000 per project or \$20,000 per connection, whichever is less, unless specifically approved by law.

System Replacement Fund Requirement

Under the provisions of Minnesota Statutes, section 446A.072, subdivision 12, WIF recipients must establish a system replacement fund and annually deposit \$.050 per 1000 gallons of flow to be used for future projects for rehabilitation, expansion, or replacement of the wastewater or drinking water system. The funds are held by the municipality and must remain in a dedicated system replacement account for the life of the corresponding PFA or USDA-RD loan, unless use of the funds is approved by the PFA for eligible capital improvements. WIF recipients submit an annual certification to the PFA documenting their system replacement fund deposits and balances. A recipient is not required to maintain a replacement fund balance greater than the amount of the WIF grant received.

Estimated WIF Needs

Table 1 on pages 9-10 (drinking water projects) and Table 2 on pages 11-12 (wastewater projects) identify potential WIF eligible projects on the respective 2023 Project Priority Lists. The top of each table shows the funds from prior appropriations that were available at the start of the fiscal year. Grey shading indicates projects since the beginning of FY 2023 where WIF grants have already been awarded or where estimated grant funds are reserved (as described above). Unshaded amounts indicate estimated grants based on preliminary project information that have not yet been reserved. Estimated grants (shaded and unshaded) may change and new projects may be added to the list as project costs change and as final application information is received and verified.

The tables also show potential projects to receive federal principal forgiveness funds, which are a portion of the annual federal funding for the state revolving loan programs. Under federal law, principal forgiveness funds can be awarded as grants to reduce project costs that would otherwise be included in the loan principal. Under state statutes, federal principal forgiveness funds can be awarded based on the same affordability criteria as WIF grants. State statutes also allow principal forgiveness funds to be used to assist green infrastructure projects, for non-municipal community drinking water systems, and for projects to replace drinking water lead service lines.

Projects in each table are divided into categories based on their priority ranking and their readiness to proceed, beginning with carryover projects that received technical approval and certification from the MPCA or MDH (or a USDA Rural Development funding commitment) in a prior year, followed by new projects proposals on the current Intended Use Plan and potential future year projects. Each table indicates with a dotted line how far down the project list the available funds will reach.

New WIF appropriations are needed to meet estimated WIF grant needs for some of the 2022 carryover projects and for potential new WIF eligible projects. The list of potential 2023 WIF eligible projects may grow as projects on the 2023 Intended Use Plan submit formal loan applications and additional project information is received. The final category in each table are other projects on the 2023 Project Priority Lists that are seeking funding for construction in future years where preliminary information indicates a potential WIF need.

Total estimated unfunded WIF needs for all identified eligible projects on the 2023 Project Priority Lists are \$154 million for drinking water and \$114 million for wastewater. Additional eligible projects will likely be identified as project reviews proceed.

Point Source Implementation Grants (PSIG) Program

The Point Source Implementation Grant (PSIG) program is established in Minnesota Statutes, Section 446A.073. The PSIG program provides grants to help cities upgrade treatment facilities to improve water quality by reducing the discharge of specific pollutants. PSIG grants are provided for 80% of eligible project costs up to \$7 million. Only those projects and project components that are directly related to meeting the specific pollutant requirement are eligible.

Each July the PFA accepts PSIG applications from cities and other local governments for projects that they believe to be eligible for PSIG grants and for which they plan to proceed with construction in the upcoming year. PSIG grants are not awarded until projects are approved and certified by the Minnesota Pollution Control Agency (MPCA) and the city submits as-bid costs to the PFA. Grant funds are reserved for projects that receive MPCA approval and certification by the end of each fiscal year (June 30).

Estimated PSIG Needs

Table 3 on pages 13-14 identifies potential PSIG projects on the 2023 Project Priority List, starting with Carryover Projects (certified prior to June 30, 2022) in priority order, followed by FY 2023 PSIG applications in priority order. The MPCA has not yet confirmed PSIG project eligibility and eligible costs for FY 2023 applications. In most cases, the PSIG eligible costs and estimated grant amounts for these projects are determined by the applicant and may change following MPCA review.

The PSIG table shows the total funds available from prior appropriations at the start of the fiscal year. Grey shading indicates projects since the beginning of FY 2023 where PSIG grants have already been awarded or where estimated grant funds are reserved. Unshaded amounts indicate estimated grants based on preliminary project information that have not yet been reserved. Estimated grants (shaded and unshaded) may change as project costs change and as project information is received and verified. A dotted line indicates how far down the list the available funds will reach. The total unfunded (below the dotted line) PSIG grant need is currently estimated at approximately \$131 million. New PSIG applications will again be accepted in July 2023.

Estimated Average Annual Wastewater Residential Costs

For wastewater projects with identified WIF or PSIG grant needs, Minnesota Statutes, Section 446A.076 also requires this report to show average annual residential wastewater treatment rates with and without the estimated WIF and PSIG grants, and to compare those costs to the Twin Cities metropolitan area average as determined by the Metropolitan Council.

To compare one community to another, the financial impact to residential users (rates) is determined by calculating the average annual system cost per household for operation and maintenance, existing debt service, and new project debt service. This is the same formula specified in MS 446A.072 to determine per household costs for WIF eligibility. Only new project costs can be offset by PFA grants and loans. Operation and maintenance and existing debt service are fixed costs that cannot be reduced by PFA project funding.

Table 4 on pages 15-19 shows estimated project funding and estimated average annual residential system costs for potential wastewater WIF and PSIG projects. Fixed (non-project) costs are shown along with estimated new project debt service costs with and without PFA WIF and PSIG grants. Estimated new project debt service assumes current PFA or USDA-RD loan rates and terms. For purposes of the report, it is assumed that the estimated PFA or USDA-RD loan amount for each project would be increased by the amount of the WIF and/or PSIG grants under the “Without PFA Grants” scenario.

The table shows the Twin Cities metropolitan area weighted average annual retail charge per household is \$377 based on the most recent Metropolitan Council survey done in 2020. For comparison purposes, the report statute directs this amount be multiplied by 3 which equals \$1,131.

In general, smaller communities typically have higher residential costs than larger cities because they have fewer users over which to spread system costs. In addition, there are many other factors that can vary significantly from one community to another which can make it difficult to compare user costs. These can include the age and condition of the collection and treatment system components, the type and size of non-residential (business and industrial) users, the type

of treatment facilities, the geography, geology, and hydrology of the area, and discharge permit requirements based on the condition and classification of receiving waters. Also, cities often phase system improvements over multiple years, making snapshot comparisons difficult. Finally, projects in unsewered communities involve construction of both a new sewer collection system and treatment facility, making these projects significantly more expensive than improvements to existing systems.

Estimated Funding Needs Report
Table 1

Minnesota Public Facilities Authority
Water Infrastructure Funding (WIF) Program

WIF - DRINKING WATER
FY 2023

Potential WIF Grant Eligible Projects

DW WIF funds available as of 7/1/2022 \$ 12,228,538

- Grant estimates are based on affordability criteria and preliminary project information.
- Other eligible projects may be added as new project information is received.
- **Estimated WIF amounts - subject to change**

For WIF funds to be reserved, a project must:

- 1) be certified for construction by MDH, or
- 2) have an approved PER by USDA-RD and receive a RD funding commitment

2020 federal princ forg (grant) available as of 7/1/22: \$ 595,302
 2021 federal princ forg (grant) available as of 7/1/22: \$ 3,358,400
 2022 federal princ forg (grant) available as of 7/1/22: \$ 2,781,220
6,734,922

Shading = WIF funds awarded or reserved to date

Dotted line (---) indicates the last project that can be fully funded based on current estimates and available funds

MDH Rank	MDH 2023 PPL Pts	Project Description	Estimated Project Cost	Estimated Fed Principal Forgiveness Grant	Estimated WIF Grant with PFA DWRP Loan	Estimated WIF Grant to match USDA-RD	Estimated WIF Need, Cumulative	County
WIF Needs - FY 2020 Carryover Projects (certified by 6/30/2020)								
Two Harbors	49	12	Treatment - Repl Chlorine Contact Tan	5,020,142	-	4,016,114	4,108,811	Lake
Murdock	483	8	Source - Two Replacement Wells	232,370	-	92,697	4,108,811	Swift
Murdock	493	7	Treatment - New Fe/Mn Treatment Pla	1,991,950	-	794,020	4,902,831	Swift
Murdock	494	7	Watermain - Replace & Loop	618,000	-	246,533	5,149,364	Swift
FY 2020 Carryover Projects			7,862,462	-	4,016,114	1,133,250		
WIF Needs - FY 2021 Carryover Projects (certified by 6/30/2021)								
La Salle	17	15	Source - Connect to Red Rock RWS	903,000	-	371,301	5,520,665	Watonwan
Wood Lake	31	13	Source - New Well #4, Seal Wells 1 &	550,000	-	269,131	5,789,796	Yellow Medicine
Onamia	34	12	Treatment - New Plant	3,972,200	-	1,504,978	7,294,774	Mille Lacs
Dawson	42	12	Treatment - Plant Rehab	1,232,500	-	662,976	7,957,750	Lac qui Parle
La Salle	55	12	Watermain - Looping	332,000	-	150,699	8,108,449	Watonwan
Wood Lake	92	12	Treatment - Repl Plant & Equipment	2,777,000	-	1,358,869	9,467,318	Yellow Medicine
Onamia	125	10	Storage - Tower Rehab	250,800	-	95,022	9,562,340	Mille Lacs
Lanesboro	248	10	Watermain - Repl Kirkwood St.	1,011,830	809,464	-	9,562,340	Fillmore
Lanesboro	249	10	Watermain - Repl Various Streets	714,841	571,873	-	9,562,340	Fillmore
Kennedy	345	10	Storage - Booster Stat., Gen. Demo Tc	2,253,000	-	350,000	9,912,340	Kittson
FY 2021 Carryover Projects			13,997,171	1,381,337	662,976	4,100,000		
WIF Needs - FY 2022 Carryover Projects (certified by 6/30/2022)								
Danube	4	30	Treatment - New Ra/Fe/Mn Plant	4,787,000	-	1,269,963	11,182,303	Renville
Easton	10	18	Consolidation - Connection to Wells	3,873,000	-	2,000,000	13,182,303	Faribault
Danube	26	13	Source - New Well	313,000	-	83,037	13,265,340	Renville
Appleton	159	10	Watermain - Water Distribution Imprvr	8,950,000	2,883,721	2,116,279	15,381,619	Swift
Henning	203	10	Watermain - Inman St. Underground In	602,753	482,202	-	15,381,619	Otter Tail
Pipestone	217	10	Other - LSL Replacement	25,000	12,500	-	15,381,619	Pipestone
Pipestone	218	10	Watermain - Replace NE Area, Ph 1	2,019,140	1,615,312	-	15,381,619	Pipestone
Ortonville	269	10	Watermain - Repl Various Areas - Pha	4,056,245	-	2,552,009	17,933,628	Big Stone
Ortonville	270	10	Watermain - Phase 3	7,367,544	-	5,000,000	22,933,628	Big Stone
Blue Earth	271	10	Treatment - RO for Softening	13,860,000	-	5,000,000	27,933,628	Faribault
Glenville	288	10	Treatment - Water trtmt plant & wells	4,000,000	-	2,389,495	30,323,123	Freeborn
Sauk Rapids	342	10	Other - LSL Replacement - Private	154,700	77,350	-	30,323,123	Benton
New London	389	10	Watermain - Distribution Improvements	2,162,213	-	1,292,191	31,615,314	Kandiyohi
Saint Paul Regional Wa	427	10	Other - LSL Replacement Phase 2	500,000	250,000	-	31,615,314	Ramsey
Harris	479	10	Storage - Tower Rehab	378,445	-	302,756	31,918,070	Chisago
FY 2022 Carryover Projects			53,049,040	5,321,085	18,652,731	3,353,000		
POTENTIAL 2023 WIF Needs (ESTIMATED) - FY 2023 IUP & RD Projects (projects must be approved/certified by 6/30/23, other eligible projects may be added)								
Westbrook	1	30	Treatment - New RO Plant for Nitrite	6,890,100	-	4,409,020	38,947,090	Cottonwood
Lake Lillian	6	30	Treatment - WTP Improvements Remc	4,841,000	-	2,620,000	45,014,467	Kandiyohi
Elysian	8	30	Treatment - Radium Treatment with RC	7,601,100	-	4,367,377	45,289,159	Waseca
Coates	11	17.5	Other - New System Supplied by Rose	16,800,000	-	1,700,000	45,289,159	Dakota
Belview	13	15	Source - New Wells & Raw Watermain	549,000	-	274,692	50,289,159	Redwood
Aurora	16	15	Consolidation - E Mesabi Joint Water	25,225,000	-	5,000,000	52,460,594	St. Louis
Lafayette	21	15	Treatment - Plant Addition	2,606,337	-	2,171,435	52,697,519	Nicollet
Swanville	27	13	Source - New Well, Seal #1	486,000	-	236,925	54,705,199	Morrison
Sebeka	41	12	Watermain - Repl & Loop - Phase 1	1,309,600	-	1,047,680	55,517,214	Wadena
Elbow Lake	46	12	Watermain - Replace & Loop 2nd	1,200,000	-	960,000	55,517,214	Grant
Madison	53	12	Watermain - NW Area Loop	1,015,018	-	812,014	55,950,494	Lac Qui Parle
Harris	100	12	Watermain - Looping	541,600	-	433,280	56,798,159	Chisago
Kandiyohi	110	11	Storage - Repl Tower w/75,000 Gal To	1,449,000	-	847,665	58,719,949	Kandiyohi
Ironton	126	10	Treatment - Replace Plant	5,200,000	-	1,921,790	59,564,949	Crow Wing
Cosmos	136	10	Watermain - Repl - Phase 2	2,100,000	-	845,000	62,163,538	Meeker
Pine River	154	10	Treatment - Manganese New Plant	3,297,000	-	2,598,589	63,638,846	Cass
Belview	155	10	Treatment - Manganese Plant	3,017,000	-	1,475,308	64,358,686	Redwood
Eagle Bend	175	10	Watermain - Phase 5	899,800	-	719,840	64,358,686	Todd
Pipestone	219	10	Watermain - Replace NE Area, Ph 2	2,400,000	-	1,920,000	67,457,136	Pipestone
Tracy	224	10	Watermain - Loop and Replace	5,413,000	-	1,178,450	71,457,136	Lyon
Henning	226	10	Watermain - Replace Cast Iron Main	5,000,000	-	4,000,000	73,179,636	Otter Tail
Clarkfield	227	10	Other - Connect to Lincoln Pipestone F	3,100,000	-	1,722,500	80,087,476	Yellow Medicine
Crosby	242.2	10	Watermain - Phase 3B Improvements	2,384,800	-	1,907,840	82,087,476	Crow Wing
Braham	250	10	Watermain - Repl Various Areas	12,425,000	-	5,000,000	82,087,476	Isanti
Morgan	273	10	Treatment - Manganese Plant	4,775,000	-	2,000,000	82,087,476	Redwood
Kiester	291	10	Watermain - Distribution Improvements	5,231,330	-	1,695,000	83,869,476	Faribault
Kiester	293	10	Treatment - Plant Improvements	6,102,330	-	87,000	85,404,476	Faribault
Edgerton	294	10	Watermain - Repl Cast Iron Mains	8,000,000	-	1,535,000	88,270,721	Pipestone
Stewart	304	10	Watermain - Distribution Reconstructio	3,186,900	-	1,161,072	88,270,721	McLeod
Winnebago	306	10	Watermain - Cleveland Ave W Imprvr	2,131,467	-	1,705,174	88,270,721	Faribault
Randall	314	10	Watermain - Water System Improveme	4,000,000	-	1,363,351	89,634,072	Morrison
Olivia	338	10	Treatment - RO addition	5,460,000	-	4,368,000	94,587,072	Renville
Swanville	359	10	Storage - New 100,000 Gal Tower	1,200,000	-	585,000	94,775,192	Morrison

Estimated Funding Needs Report
Table 1

Audubon	362	10	Storage - Tower Rehab	406,000	-	188,121	-	94,775,192	Becker
Taconite	383	10	Storage - Repl 50,000 Gal. Tower	1,164,000	-	-	375,050	97,770,242	St. Louis
Lake Lillian	398	10	Watermain - Repl & Loop - Phase 2	5,634,000	-	-	2,620,000	98,193,042	Kandiyohi
Delavan	412	10	Treatment - Manganese Plant Rehab	1,057,000	-	422,800	-	98,469,747	Faribault
Kandiyohi	420	10	Watermain - Repl McLaughlin & 3rd St	473,000	-	-	276,705	99,245,457	Kandiyohi
Kandiyohi	421	10	Watermain - Phase 1 - Replacement	1,326,000	-	-	775,710	99,245,457	Kandiyohi
Wood Lake	429	10	Watermain - Repl Cast Iron & AC Main	6,351,000	-	-	3,280,095	103,666,302	Yellow Medicine
Wood Lake	430	10	Storage - Repl Tower	1,950,000	-	-	1,140,750	103,666,302	Yellow Medicine
Ghent	514	7	Watermain - Looping Dead End Water	4,203,400	-	1,993,957	-	108,579,074	Lyon
Silver Lake	517	7	Treatment - New Pressure Filter Plant	2,399,909	-	-	1,198,485	106,938,022	McLeod
Darwin	522	7	Watermain - 1st St. & Loop	1,067,730	-	79,278	-	110,582,424	Meeker
Lowry	527	7	Watermain - Replace & Loop	2,324,100	-	1,641,052	-	110,582,424	Pope
Vernon Center	532	7	Treatment - New Plant	4,370,108	-	-	2,003,350	110,582,424	Blue Earth
Silver Lake	587	5	Storage - New 115,000 Gallon Tank	1,000,000	-	-	499,388	111,373,419	McLeod
Silver Lake	616	5	Source - Rehab Wells	583,930	-	-	291,607	112,072,062	McLeod
Silver Lake	617	5	Storage - New Standpipe	1,399,000	-	-	698,643	115,418,534	McLeod
Silver Lake	618	5	Watermain - Distribution Reconstructio	6,701,152	-	-	3,346,472	115,418,534	McLeod
FY 2023 WIF Needs				290,684,403	-	49,969,880	33,530,584		

Other Potential WIF Needs (Estimated), FY 2023 and beyond

MDH 2023 Rank	MDH 2023 PPL	PPL	Pts	Project Description	Estimated Project Cost	Estimated Fed Principal Forgiveness Grant	Estimated WIF Grant with PFA DWRF Loan	Estimated WIF Grant to match USDA-RD	Estimated WIF Need, Cumulative	County
Clietherall	2	30		New System - NO3 Connect to Battle L	9,634,500	-	-	1,220,000	116,638,534	Otter Tail
Cuyuna	12	15		Source - Repl with Wells #2 & #3/Treat	459,300	-	-	223,909	116,862,442	Crow Wing
Avoca	29	13		Other - Manganese Connect to Red R	503,200	-	-	245,310	117,107,752	Murray
Gonvick	36	12		Treatment - Plant Rehab	275,000	-	-	134,063	117,241,815	Clearwater
Gonvick	37	12		Watermain - Repl Various Areas	3,243,000	-	-	1,580,963	118,822,777	Clearwater
Danube	61	12		Watermain - Looping	304,000	-	-	148,200	118,970,977	Renville
Bellingham	70	12		Treatment - New Plant	3,000,000	-	-	1,462,500	120,433,477	Lac Qui Parle
Rushmore	71	12		Treatment - New IE & RO Plant	2,282,000	-	-	667,485	121,100,962	Nobles
Garfield	72	12		Treatment - New Fe/Mn Plant & Well	4,536,000	-	2,272,011	-	123,372,973	Douglas
Hokah	73	12		Treatment - New Plant or Blend	3,000,000	-	-	1,462,500	124,835,473	Houston
Comfrey	74	12		Watermain - Looping	349,000	-	125,527	-	124,961,000	Brown
Gilbert	75	12		Treatment - New Treatment Plant	9,645,821	-	5,000,000	-	129,961,000	St. Louis
Underwood	80	12		Treatment - Replace Plant	3,000,000	-	-	1,462,500	131,423,500	Otter Tail
Kandiyohi	88	12		Treatment - New Fe/Mn Plant & Wells	3,620,000	-	-	2,117,700	133,541,200	Kandiyohi
Kandiyohi	89	12		Watermain - Looping	433,000	-	-	253,305	133,794,505	Kandiyohi
Mendota	96	12		Watermain - Area 1 Loop	1,400,000	-	200,000	-	133,994,505	Dakota
Mendota	97	12		Watermain - Area 3 Loop	1,625,000	-	580,000	-	134,574,505	Dakota
Cuyuna	132	10		Storage - Replace with New Tower	616,800	-	-	300,690	134,875,195	Crow Wing
Cuyuna	133	10		Watermain - Replace for City	1,273,155	-	-	620,663	135,495,858	Crow Wing
Cuyuna	134	10		Conservation - Replace Meters	55,650	-	-	27,129	135,522,988	Crow Wing
Dalton	135	10		Storage - New 50,000 Gal Tower	830,000	-	-	404,625	135,927,613	Otter Tail
Belview	156	10		Storage - Tower Rehab	420,000	-	-	204,750	136,132,363	Redwood
Belview	157	10		Watermain - Selective Replacements	6,171,080	-	-	3,008,402	139,169,039	Redwood
Erskine	161	10		Storage - Remove Original Tower	58,000	-	-	28,275	139,169,039	Polk
Erskine	162	10		Watermain - Replace 1947 Lines	1,179,150	-	-	574,836	139,743,875	Polk
Sacred Heart	163	10		Treatment - RO to Address Chlorides	7,047,000	-	-	3,930,550	143,674,425	Renville
Heron Lake	187	10		Storage - Replace 100,000 Gal Tower	800,000	-	-	390,000	144,064,425	Jackson
Bagley	198	10		Watermain - Distribution Replacement	7,465,513	-	2,579,446	-	146,643,871	Clearwater
Riverton	199	10		Watermain - Replace	104,000	-	-	30,420	146,674,291	Crow Wing
Rushmore	210	10		Watermain - Connection to LPRWS	2,910,000	-	-	486,850	147,161,141	Nobles
Rushmore	211	10		Storage - New 50,000 Gal Tower	1,363,000	-	-	398,678	147,559,818	Nobles
Henning	225	10		Other - LSL Replacement	3,325,000	-	2,660,000	-	150,219,818	Otter Tail
Danube	286	10		Watermain - Repl Cast Iron Mains	5,500,000	-	-	2,681,250	152,901,068	Renville
Hanska	302	10		Source - Replace Well #1 with #4	255,000	-	-	74,588	152,975,656	Brown
Hanska	303	10		Watermain - Repl Transit Main - Phas	2,335,000	-	-	682,988	153,658,643	Brown
Lewisville	328	10		Watermain - Replace Cast Iron WMs	3,509,000	-	1,772,909	-	155,431,552	Watsonwan
Bellingham	332	10		Storage - Replace Tower	1,500,000	-	-	731,250	156,162,802	Lac Qui Parle
Bellingham	333	10		Watermain - Repl CIP	500,000	-	-	243,750	156,406,552	Lac Qui Parle
Bellingham	334	10		Conservation - Install Meters	400,000	-	-	195,000	156,601,552	Lac Qui Parle
Hokah	348	10		Source - Phase 1 - Upgrade Wells & R	1,025,000	-	-	499,688	157,101,240	Houston
Hokah	349	10		Source - Construction Well No. 3	565,000	-	-	275,438	157,376,677	Houston
Hokah	350	10		Watermain - Distribution System Imp.	3,540,000	-	-	1,725,750	159,102,427	Houston
Comfrey	357	10		Watermain - Replace Cast Iron Main	1,678,000	-	1,188,727	-	160,291,154	Brown
Red Lake Falls	373	10		Storage - Tower Rehab	1,290,144	-	-	377,367	160,668,521	Red Lake
Red Lake Falls	374	10		Watermain - Repl Bottineau Ave/River	3,239,160	-	-	947,454	161,615,975	Red Lake
Warren	390	10		Watermain - Ross Ave. Utility Repl Pric	520,000	-	258,000	-	161,873,975	Marshall
Kandiyohi	422	10		Watermain - Phase 2 - Replacement	2,584,000	-	-	1,511,640	163,385,615	Kandiyohi
Kandiyohi	423	10		Watermain - Phase 3 - Replacement	609,000	-	-	356,265	163,741,880	Kandiyohi
Gilbert	498	7		Treatment - Plant Upgrade	3,000,000	-	628,975	-	164,370,855	St. Louis
Hanska	500	7		Treatment - New Plant, Remove Fe/Mr	1,352,000	-	-	395,460	164,766,315	Brown
Hanska	583	5		Storage - Repl w/100,000 Gal Tower	638,000	-	-	186,615	164,952,930	Brown
Greenbush	591	5		Watermain - Repl Area 7 - Main & Parl	821,544	-	657,235	-	165,610,165	Roseau
Greenbush	592	5		Watermain - Repl Area 8 -2nd & Johns	837,537	-	670,030	-	166,280,195	Roseau
Beaver Bay	627	5		Treatment -Raw Water intake replacen	1,020,000	-	370,993	-	166,651,188	Lake
					126,134,096		18,963,852	32,268,802		

Estimated unfunded WIF need 2023-26: 154,422,650

Estimated Funding Needs Report
Table 2

Minnesota Public Facilities Authority
Water Infrastructure Funding (WIF) Program

WIF - WASTEWATER
FY 2023

Potential WIF Grant Eligible Projects

WW WIF available as of 7/1/2022: \$ 12,788,821

- Grant estimates are based on affordability criteria and preliminary project information.
- Other eligible projects may be added as new project information is received.
- **Estimated WIF amounts - subject to change**

For WIF funds to be reserved, a project must:

- 1) be certified for construction by MPCA, or
- 2) have an approved PER by USDA-RD and receive a RD funding commitment

2020 federal princ forg (grant) available as of 7/1/22: \$ 588,269
 2021 federal princ forg (grant) available as of 7/1/22: \$ 2,920,400
 2022 federal princ forg (grant) available as of 7/1/22: \$ 4,253,400
7,762,069

Shading = WIF funds awarded or reserved to date

Dotted line (---) indicates last project that can be fully funded based on current estimates and available funds

MPCA Rank	MPCA PPL Pts	Project Description	Estimated Project Cost	Est CWRP Federal Principal Forgiveness Grant	Estimated WIF Grant with PFA CWRP Loan	Estimated WIF Grant to match USDA-RD	Estimated WIF Need, Cumulative	County
WIF Needs - FY 2019 Carryover Projects (certified by 6/30/2019)								
Two Harbors	175	47	Rehab/expand treatment	33,488,485	1,714,607	-	-	Lake
Annandale 1	219	43	Rehab collection, Hwy 24	1,266,811	1,013,449	-	-	Wright
<i>FY 2019 Carryover Projects</i>				34,755,296	2,728,056	-	-	
WIF Needs - FY 2020 Carryover Projects (certified by 6/30/2020)								
Dawson 2	41.1	68	Ph 2, Rehab collection, replace lift stations	8,037,129	-	4,729,225	4,729,225	Lac Qui Parle
Borup	102	58	Rehab collection and treatment	2,230,000	-	760,000	5,489,225	Norman
<i>FY 2020 Carryover Projects</i>				10,267,129	-	4,729,225	760,000	
WIF Needs - FY 2021 Carryover Projects (certified by 6/30/2021)								
Austin	4	91	Adv trmt - phos, rehab/expand trmt	112,921,453	1,000,000	-	5,489,225	Mower
Hanley Falls 1	10.1	83	Rehab collection ph 1, trmt & LS imp	1,955,000	-	1,128,000	6,617,225	Yellow Medicine
Tyler	16	76	Rehab collection	7,292,000	-	827,832	7,445,057	Lincoln
Ogilvie	34	70	Adv trmt - phos/mercury, rehab treatment	8,561,000	-	1,116,000	8,561,057	Kanabec
Lanesboro	93	58	Rehab collection, Kirkwood/Beacon/Coffee/Roc	2,308,640	-	1,846,912	10,407,969	Fillmore
Winger	141	53	Rehab collection and treatment	2,651,000	-	800,000	11,207,969	Polk
<i>FY 2021 Carryover Projects</i>				135,689,093	1,000,000	2,674,744	3,044,000	
WIF Needs - FY 2022 Carryover Projects (certified by 6/30/2022)								
Owatonna	5	88	Adv trmt - phos, expand treatment	68,858,198	1,000,000	-	11,207,969	Steele
Zumbro Township	13	79	Unsewered - Ryans Bay, potential SSTS	8,214,145	-	869,791	12,077,760	Wabasha
New London	24	73	Rehab collection, 4th Ave, Birch St	690,827	-	552,661	12,630,421	Kandiyohi
Henning	87	60	Rehab collection Ph 2, Imnan St	1,240,000	992,000	-	12,630,421	Otter Tail
WLSSD - Combined He	106.2	56	Cogeneration imp, engine gen, Ph 2	16,103,241	1,000,000	-	12,630,421	St. Louis
Appleton	176	47	Rehab collection, Schlieman Ave	3,690,299	-	2,952,239	15,582,660	Swift
<i>FY 2022 Carryover Projects</i>				98,796,710	2,992,000	4,374,691	-	
POTENTIAL FY 2023 WIF Needs (ESTIMATED) - FY 2023 IUP & RD Projects (projects must be certified by 6/30/23, other eligible projects may be added as identified)								
Wood Lake	3	93	Rehab treatment, collection ph 2	4,735,745	-	260,167	15,842,827	Yellow Medicine
Cosmos	7	88	Rehab collection, Phase 2	3,912,000	-	1,892,800	17,735,627	Meeker
Tracy	8	88	Rehab collection Ph 4, Center St & Lining	1,337,155	-	869,151	18,604,778	Lyon
Silver Lake	9	88	Rehab collection and ponds, adv trmt-phos	8,951,661	-	3,114,000	21,718,778	McLeod
Hanley Falls 2	10.2	83	Rehab collection ph 2	2,700,000	-	1,755,000	23,473,778	Yellow Medicine
Wabasso	17.1	76	Rehab collection	8,337,000	-	2,000,000	25,473,778	Redwood
Saint Michael	20	75	Adv trmt - phos, replace reed beds	38,850,000	1,000,000	-	25,473,778	Wright
Kandiyohi	23	73	Rehab collection, connect unsewered area	1,825,000	-	1,067,625	26,541,403	Kandiyohi
Campbell	29	73	Rehab treatment, new pond	5,394,780	-	1,940,000	28,481,403	Wilkin
Rochester	35	68	Rehab treatment, liquid trmt upgrade	69,000,000	250,000	-	28,481,403	Olmsted
Kandiyohi Co - Glacial L	36.1	68	Rehab treatment, ph 2, adv trmt	13,200,000	-	4,960,000	33,441,403	Kandiyohi
Lake Lillian	40	68	Rehab collection, ph 2	4,477,000	-	1,909,700	35,351,103	Kandiyohi
Ghent	45	68	Rehab collection and treatment, expand pond	8,776,060	-	3,420,000	38,771,103	Lyon
Shorewood Park San Di	46	68	Extend collection system, adv trmt - phos, add p	2,305,000	-	1,326,691	40,097,794	Chisago
Russell	73	63	Rehab collection and treatment	4,100,000	-	1,435,850	41,533,644	Lyon
Gilman	74	63	Rehab collection and treatment	4,823,000	-	1,700,000	43,233,644	Benton
Braham 2	82	61	Rehab collection	4,822,500	-	3,858,000	47,091,644	Isanti
Vernon Center	91	59	Rehab collection and treatment	5,592,797	-	2,984,668	50,076,312	Blue Earth
Eagle Bend	103	57	Rehab collection, Ph 5	794,900	-	635,920	50,712,232	Todd
Otsego - West WWTP	111	56	Adv trmt - phos, expand treatment	40,183,790	678,500	-	50,712,232	Wright
Clinton	124	55	Rehab collection, ph 2	2,500,000	-	1,300,000	52,012,232	Big Stone
Randall	133	53	Rehab collection	5,415,000	-	1,974,026	53,986,258	Morrison
Utica	138	53	Rehab collection and treatment	5,855,000	-	2,380,000	56,366,258	Winona
Madison	151	51	Rehab collection, TH75 & TH40	2,843,600	-	1,928,720	58,294,978	Lac Qui Parle
Fosston	171	48	Rehab treatment, add pond	12,424,465	-	5,000,000	63,294,978	Polk
Appleton	177	47	Rehab collection, ph 2	12,200,000	-	5,000,000	68,294,978	Swift
Saint Cloud	185.1	46	Treatment -Aeration system rehab/upgrade	1,700,000	425,000	-	68,294,978	Sherburne
Mazeppa	215	44	Rehab collection and treatment	17,332,000	-	5,000,000	73,294,978	Wabasha
<i>Potential FY 2023 WIF Needs</i>				294,388,453	2,353,500	28,103,357	29,608,961	

Estimated Funding Needs Report
Table 2

Other Potential WIF Needs (Estimated), FY 2024 and beyond									
	MPCA 2023 PPL Rank	MPCA 2023 PPL Pts	Project Description	Estimated Project Cost		Estimated WIF Grant with PFA CWRP Loan	Estimated WIF Grant to match USDA-RD	Estimated WIF Need, Cumulative	County
Wabasso	17.2	76	Rehab treatment	15,670,000	-	-	5,000,000	78,294,978	Redwood
Grand Meadow 2	26.2	73	Adv trmt - phos, rehab trmt	8,962,960	-	2,514,776	-	80,809,754	Mower
Kandiyohi Co - Glacial L	36.2	68	Rehab treatment, ph 3	5,611,310	-	3,831,301	-	84,641,054	Kandiyohi
Edgerton	37	68	Rehab collection	10,200,000	-	-	2,983,500	87,624,554	Pipestone
Dawson 3	41.2	68	Ph 3, rehab treatment	4,000,000	-	-	-	87,624,554	Lac Qui Parle
Belview	56	66	Rehab collection and treatment	13,889,295	-	-	3,720,000	91,344,554	Beltrami
Lewisville	57	66	Rehab collection	2,986,510	-	1,311,348	-	92,655,902	Watsonwan
New Germany	64	63	Adv trmt - phos, add pond	6,800,000	-	3,660,000	-	96,315,902	Carver
Blackduck	88	60	Rehab collection and treatment	484,655	-	-	236,269	96,552,171	Beltrami
Grygla	140	53	Rehab collection and treatment	2,219,100	-	-	1,081,811	97,633,983	Marshall
Tintah	143	52	Unsewered, connect to Campbell	2,700,000	-	-	460,000	98,093,983	Traverse
Howard Lake	163	49	Rehab collection, Ph 2	7,625,500	-	2,539,884	-	100,633,866	Wright
Sebeka	165	49	Rehab treatment	3,407,000	-	-	664,300	101,298,166	Wadena
Litchfield	168	48	Rehab treatment, expand bio capacity	38,038,750	-	5,000,000	-	106,298,166	Meeker
Avoca	169	48	Rehab collection, pond improvements	560,560	-	-	273,273	106,571,439	Murray
Red Lake Falls	196	46	Rehab collection	3,315,000	-	-	1,616,063	108,187,502	Red Lake
Annandale 2	204	45	Rehab collection, Hwy 55	1,157,352	-	925,882	-	109,113,383	Wright
Sanborn	205	45	Rehab collection and treatment	8,837,100	-	-	4,260,000	113,373,383	Redwood
Foxhome	209	45	Unsewered, collection and treatment	3,700,000	-	-	1,140,000	114,513,383	Wilkin
Browerville	240	39	Rehab treatment	6,205,600	-	4,964,480	-	119,477,863	Todd
Silver Creek Twp - Stew	257	33	Unsewered, connect to Two Harbors	17,000,000	-	-	3,320,000	122,797,863	Lake
Appleton	262	28	Rehab treatment	3,015,000	-	2,412,000	-	125,209,863	Swift
Coates	271	14	Unsewered, connect to MCES	12,200,000	-	1,700,000	-	126,909,863	Dakota
				178,585,692		28,859,669	24,755,216		

Total estimated unfunded (below dotted line) WIF need: 114,121,042

Estimated Funding Needs Report
Table 3

**Minnesota Public Facilities Authority
Point Source Implementation Grant (PSIG) Program**

**PSIG
FY 2023**

Total available as of 7/1/2022 (bonding and CWF): 31,378,993

Note: New PSIG applications accepted at beginning of each FY. PSIG grants not awarded until projects are bid and ready for construction.

Shading = PSIG grants awarded or reserved to date based on MPCA certification.

In most cases, estimated PSIG eligible costs for new applications have not yet been verified. Dotted line (---) indicates fundable range based on current estimates and available funds.

PSIG Grant Applicant	MPCA 2023 PPL Rank	MPCA 2023 PPL Pts	Project Description	Estimated Total Project Cost	Estimated PSIG Eligible Project Costs	Estimated PSIG Grant (80%,\$7M max) NOT FINAL	Estimated Grant Need, Cumulative	County
FY 2019 PSIG Carryover Projects (MPCA certified by 6/30/2019)								
Two Harbors	175	47	Rehab/expand treatment	33,488,485	7,224,948	5,779,959	5,779,959	Lake
FY 2021 PSIG Carryover Projects (MPCA certified by 6/30/2021)								
Austin	4	91	Adv trmt - phos, rehab/expand trmt	112,921,453	19,884,166	7,000,000	12,779,959	Mower
Watertown	63	63	Adv trmt - phos, rehab existing system	23,723,450	10,545,234	7,000,000	19,779,959	Carver
Mankato - stormwater	156	50	Warren Street pond improvements	1,450,000	1,153,400	922,720	20,702,679	Blue Earth
Mankato	203	45	Rehab trmt, digester and disinfection improven	85,000,000	13,136,164	7,000,000	27,702,679	Blue Earth
FY 2022 PSIG Carryover Projects (MPCA certified by 6/30/2022)								
Owatonna	5	88	Adv trmt - phos, expand treatment	68,858,198	10,436,512	7,000,000	34,702,679	Steele
Zumbro Township	13	79	Unsewered - Ryans Bay, potential SSTS	8,214,145	8,214,145	6,571,316	41,273,995	Wabasha
Fairmont	62	63	Rehab trmt, biosolids improvements	32,183,915	4,570,478	3,656,383	44,930,378	Martin
Foley	67	63	Regionalize, connect to St. Cloud	27,790,428	24,105,935	7,000,000	51,930,378	Benton
Minnehaha Creek WD - Stormwater	110	56	Blake Road stormwater trmt, ph 2/3	4,330,000	4,330,000	3,464,000	55,394,378	Hennepin
Annandale/Maple Lake/Howard Lake	119	55	Adv trmt - phos, rehab treatment	12,490,000	12,157,616	7,000,000	62,394,378	Wright
Sacred Heart WTP	252	36	Adv trmt - cholrides, install RO	7,047,000	6,085,000	4,868,000	67,262,378	Renville
PSIG Carryover Projects				417,497,074	121,843,600	67,262,378		
FY 2023 New Applications (projects must be certified by 6/30/23)								
Wood Lake	3	93	Rehab treatment, collection ph 2	4,735,745	899,792	719,833	67,982,211	Yellow Medicine
Lake Crystal	6	88	Regionalize, connect to Mankato	14,831,750	14,831,750	7,000,000	74,982,211	Blue Earth
Albert Lea	14	78	Adv trmt – phos, rehab treatment	63,567,500	31,783,750	7,000,000	81,982,211	Freeborn

Estimated Funding Needs Report
Table 3

PSIG Grant Applicant	MPCA	MPCA	Project Description	<u>Estimated</u>	<u>Estimated</u>	<u>Estimated</u>	<u>Estimated</u>	County
	2023 PPL	2023 PPL		Total Project	PSIG Eligible	(80%,\$7M	Grant Need,	
	Rank	Pts		Cost	Project Costs	max)	Cumulative	
Saint Michael	20	75	Adv trmt - phos, replace reed beds	38,850,000	19,308,450	7,000,000	88,982,211	Wright
Trosky	27	73	Unsewered, collection and treatment	4,424,965	4,424,965	3,539,972	92,522,183	Pipestone
West Union	33	71	Unsewered, collection and treatment, spray irri	6,897,498	6,897,498	5,517,998	98,040,181	Todd
Ogilvie	34	70	Adv trmt - phos/mercury, rehab treatment	8,561,000	5,487,601	4,390,081	102,430,262	Kanabec
Rochester	35	68	Rehab treatment, liquid trmt upgrade	69,000,000	18,423,000	7,000,000	109,430,262	Olmsted
Kandiyohi Co - Glacial Lakes SSWD	36.1	68	Rehab treatment, ph 2, adv trmt	13,200,000	9,319,200	7,000,000	116,430,262	Kandiyohi
Emmons	53	66	New WWTP pond system	9,900,000	<i>not eligible</i>	<i>not eligible</i>	116,430,262	Freeborn
Cologne	70	63	Adv trmt - phos, expand trmt	15,053,100	6,216,930	4,973,544	121,403,806	Carver
Braham 1	82	61	Rehab treatment	3,717,900	498,199	398,559	121,802,365	Isanti
Saint Paul - Stormwater	85	60	Bush Desoto Pond	1,020,050	1,020,050	816,040	122,618,405	Ramsey
Lewiston WTP	98	58	Adv trmt – chloride, add RO to WTP	6,994,750	6,994,750	5,595,800	128,214,205	Winona
Otsego - West WWTP	111	56	Adv trmt - phos, expand treatment	40,183,790	18,966,749	7,000,000	135,214,205	Wright
Sacred Heart	115	56	Biosolids improvements	1,863,350	1,863,350	1,490,680	136,704,885	Renville
Redwood Falls	127	54	Adv trmt - phos, rehab WWTP	9,960,000	8,864,400	7,000,000	143,704,885	Redwood
Saint Paul - Stormwater	166	48	Flandrau-Case Pond expansion and filter bench	878,025	878,025	702,420	144,407,305	Ramsey
Litchfield	168	48	Rehab treatment, expand bio capacity	38,038,750	5,857,968	4,686,374	149,093,679	Meeker
Inver Grove Heights - Stormwater	179	47	Dawn Way neighborhood rain gardens and infil	718,100	718,100	574,480	149,668,159	Dakota
Blue Earth WTP	207	45	Adv trmt - chlorides, new WTP	7,912,500	7,912,500	6,330,000	155,998,159	Blue Earth
Mazeppa	215	44	Rehab collection and treatment	17,332,000	8,614,004	6,891,203	162,889,362	Wabasha
<i>FY 2023 New Applications</i>				<i>377,640,773</i>	<i>179,781,030</i>	<i>95,626,985</i>		

Total estimated unfunded (below dotted line) PSIG need: 131,510,370

Estimated Funding Needs Report
Table 4

Minnesota Public Facilities Authority

Estimated Average Annual Residential Wastewater System Costs, with and without PFA program grants

FY 2023 Potential Wastewater WIF and PSIG Projects, alphabetical order

- Does not include projects that haven't yet submitted system cost information detail

For comparison: The Twin Cities metropolitan area weighted average annual retail charge per household (MCES 2022 survey): **\$ 377.00**
($\$377.00 \times 3 = \$1,131.00$)

Municipality	MPCA 2023 PPL Rank	Project Description	House-holds (Equivalent Res Units - ERUs)	Estimated Project Cost	ESTIMATED Project Funding						ESTIMATED Average Annual Residential Cost per HH						
					PFA Program Grants			Other Grants		Loan		With or Without PFA Grants	Fixed Costs (non-project costs)		Project Costs		Total Annual Cost per HH
					Estimated WIF or CWRP Grant - Affordblty	Estimated PSIG Grant to Improve WQ	Estimated CWRP PF Grant - Green Proj Resrv	Estimated Other Grants (or local funds)	Source	Estimated PFA CWRP Loan	Estimated USDA-RD Loan		Operation & Maintenance Cost	Existing Debt Service (10 yr avg)	New Project Debt Service	Estimated WIF Replacement Fund	
Albert Lea	14	Adv trmt – phos, rehab treatment	16,165	63,567,500	-	7,000,000	-	-	-	56,567,500	-	Without PFA Grants	266.18	8.27	174.09	-	448.55
												With PFA Grants	266.18	8.27	154.92	-	429.38
Annandale 1	219	Rehab collection, Hwy 24	1,656	1,266,811	1,013,449	-	-	-	-	253,362	-	Without PFA Grants	641.84	110.23	35.34	30.00	817.41
												With PFA Grants	641.84	110.23	7.07	30.00	789.13
Appleton	176	Rehab collection, Schlieman Ave	1,290	3,690,299	2,952,239	-	-	-	-	738,060	-	Without PFA Grants	537.02	9.35	129.67	-	676.04
												With PFA Grants	537.02	9.35	25.93	30.00	602.31
Austin	4	Adv trmt - phos, rehab/expand trmt	11,146	112,921,453	-	7,000,000	1,000,000	62,704,820	Hormel,SP AP2020	42,216,633	-	Without PFA Grants	476.00	-	273.89	-	749.89
												With PFA Grants	476.00	-	230.25	-	706.26
Borup	102	Rehab collection and treatment	44	2,230,000	760,000	-	-	984,000	USDA-RD, COE, SCDP	-	256,000	Without PFA Grants	325.00	-	1,225.11	-	1,550.11
												With PFA Grants	325.00	-	251.71	30.00	606.71
Braham	82	Rehab treatment and collection	960	8,540,400	3,858,000	398,559	-	-	-	4,283,841	-	Without PFA Grants	364.26	56.25	403.25	-	823.76
												With PFA Grants	364.26	56.25	202.27	30.00	652.78
Cologne	70	Adv trmt - phos, expand trmt	888	15,053,100	-	4,973,544	-	-	-	10,079,556	-	Without PFA Grants	528.68	-	1,047.75	-	1,576.43
												With PFA Grants	528.68	-	701.57	-	1,230.26
Cosmos	7	Rehab collection, Phase 2	307	3,912,000	1,892,800	-	-	1,019,000	USDA-RD	-	1,000,200	Without PFA Grants	237.26	-	359.76	30.00	627.03
												With PFA Grants	237.26	-	124.38	30.00	391.64
Dawson 2	41.1	Ph 2, Rehab collection, replace lift stations	1,280	8,037,129	4,729,225	-	-	-	-	3,307,904	-	Without PFA Grants	248.30	253.48	493.17	30.00	1,024.95
												With PFA Grants	248.30	253.48	202.98	30.00	734.75

Estimated Funding Needs Report
Table 4

Minnesota Public Facilities Authority

Estimated Average Annual Residential Wastewater System Costs, with and without PFA program grants

FY 2023 Potential Wastewater WIF and PSIG Projects, alphabetical order

- Does not include projects that haven't yet submitted system cost information detail

For comparison: The Twin Cities metropolitan area weighted average annual retail charge per household (MCES 2022 survey): **\$ 377.00**
($\$377.00 \times 3 = \$1,131.00$)

Municipality	MPCA 2023 PPL Rank	Project Description	House- holds (Equivalent Res Units - ERUs)	Estimated Project Cost	ESTIMATED Project Funding						ESTIMATED Average Annual Residential Cost per HH						
					PFA Program Grants			Other Grants		Loan		With or Without PFA Grants	Fixed Costs (non-project costs)		Project Costs		Total Annual Cost per HH
					Estimated WIF or CWRF PF Grant - Affordblty	Estimated PSIG Grant to Improve WQ	Estimated CWRF PF Grant - Green Proj Resrv	Estimated Other Grants (or local funds)	Source	Estimated PFA CWRF Loan	Estimated USDA-RD Loan		Operation & Main- tenance Cost	Existing Debt Service (10 yr avg)	New Project Debt Service	Estimated WIF Replacem ent Fund	
Eagle Bend	103	Rehab collection, Ph 5	306	794,900	635,920	-	-	-	-	158,980	-	Without PFA Grants	248.42	457.80	117.75	30.00	853.97
												With PFA Grants	248.42	457.80	23.55	30.00	759.77
Fairmont	62	Rehab trmt, biosolids improvements	9,185	32,183,915	-	3,656,383	-	-	-	28,527,532	-	Without PFA Grants	185.75	25.16	216.57	-	427.48
												With PFA Grants	185.75	25.16	191.97	-	402.87
Foley	67	Regionalize, connect to St. Cloud	1,978	27,790,428	-	7,000,000	-	8,000,000	2020 SPAP	12,790,428	-	Without PFA Grants	237.09	37.31	483.59	-	757.99
												With PFA Grants	237.09	37.31	312.54	-	586.94
Fosston	171	Rehab treatment, add pond	711	12,424,465	5,000,000	-	-	-	-	7,424,465	-	Without PFA Grants	406.47	386.36	792.09	30.00	1,614.92
												With PFA Grants	406.47	386.36	473.33	30.00	1,296.16
Ghent	45	Rehab collection and treatment, expand pond	196	8,776,060	3,420,000	-	-	-	-	5,356,060	-	Without PFA Grants	325.00	-	2,029.60	-	2,354.60
												With PFA Grants	325.00	-	1,238.67	30.00	1,593.67
Hanley Falls 1	10.1	Rehab collection ph 1, trmt & LS imp	103	1,955,000	1,128,000	-	-	608,000	USDA-RD	-	219,000	Without PFA Grants	367.96	237.72	565.77	-	1,171.45
												With PFA Grants	367.96	237.72	91.99	30.00	727.66
Henning	87	Rehab collection Ph 2, Imnan St	419	1,240,000	992,000	-	-	-	-	248,000	-	Without PFA Grants	333.24	277.22	134.15	30.00	774.61
												With PFA Grants	333.24	277.22	26.83	30.00	667.30
Kandiyohi	23	Rehab collection, connect unsewered area	255	1,825,000	1,067,625	-	-	575,050	USDA-RD	-	182,325	Without PFA Grants	420.00	369.83	212.06	30.00	1,031.89
												With PFA Grants	420.00	369.83	30.93	30.00	850.76
Kandiyohi Co - Glacial Lakes SSWD	36.1	Rehab treatment, ph 2, adv trmt	3,192	13,200,000	4,960,000	7,000,000	-	-	-	1,240,000	-	Without PFA Grants	389.15	518.34	187.45	-	1,094.94
												With PFA Grants	389.15	518.34	17.61	30.00	955.11

Estimated Funding Needs Report
Table 4

Minnesota Public Facilities Authority

Estimated Average Annual Residential Wastewater System Costs, with and without PFA program grants

FY 2023 Potential Wastewater WIF and PSIG Projects, alphabetical order

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Municipality	MPCA 2023 PPL Rank	Project Description	House-holds (Equivalent Res Units - ERUs)	Estimated Project Cost	ESTIMATED Project Funding						ESTIMATED Average Annual Residential Cost per HH						
					PFA Program Grants			Other Grants		Loan		With or Without PFA Grants	Fixed Costs (non-project costs)		Project Costs		Total Annual Cost per HH
					Estimated WIF or CWRWF Grant - Affordblty	Estimated PSIG Grant to Improve WQ	Estimated CWRWF PF Grant - Green Proj Resrv	Estimated Other Grants (or local funds)	Source	Estimated PFA CWRWF Loan	Estimated USDA-RD Loan		Operation & Maintenance Cost	Existing Debt Service (10 yr avg)	New Project Debt Service	Estimated WIF Replacement Fund	
Lanesboro	93	Rehab collection, Kirkwood/Beacon/Coffee/Rochelle	545	2,308,640	1,846,912	-	-	-	-	461,728	-	Without PFA Grants	442.28	366.21	177.16	30.00	1,015.66
												With PFA Grants	442.28	366.21	35.43	30.00	873.93
Madison	151	Rehab collection, TH75 & TH40	922	2,843,600	1,928,720	-	-	-	-	914,880	-	Without PFA Grants	339.93	288.06	139.80	30.00	797.79
												With PFA Grants	339.93	288.06	44.98	30.00	702.97
Mankato	203	Rehab trmt, digester and disinfection improvements	25,736	85,000,000	-	7,000,000	-	-	-	78,000,000	-	Without PFA Grants	214.81	24.31	204.14	-	443.26
												With PFA Grants	214.81	24.31	187.33	-	426.45
Mazeppa	215	Rehab collection and treatment	387	17,332,000	5,000,000	-	-	6,339,000	USDA-RD, city	-	5,993,000	Without PFA Grants	443.15	-	1,228.90	-	1,672.05
												With PFA Grants	443.15	-	669.95	30.00	1,143.10
New London	24	Rehab collection, 4th Ave, Birch St	806	690,827	552,661	-	-	-	-	138,165	-	Without PFA Grants	627.42	97.16	38.85	-	763.43
												With PFA Grants	627.42	97.16	7.77	30.00	762.35
Ogilvie	34	Adv trmt - phos/mercury, rehab treatment	195	8,561,000	154,919	4,390,081	-	3,760,000	USDA-RD, COE, SCDP	-	256,000	Without PFA Grants	521.74	39.36	1,065.14	-	1,626.24
												With PFA Grants	521.74	39.36	56.80	30.00	647.89
Otsego - West WWTP	111	Adv trmt - phos, expand treatment	5,626	40,183,790	-	7,000,000	-	-	-	33,183,790	-	Without PFA Grants	311.36	257.19	441.46	-	1,010.01
												With PFA Grants	311.36	257.19	364.56	-	933.11
Owatonna	5	Adv trmt - phos, expand treatment	20,960	68,858,198	-	7,000,000	1,000,000	-	-	60,858,198	-	Without PFA Grants	132.75	11.27	202.86	-	346.88
												With PFA Grants	132.75	11.27	179.29	-	323.31
Randall	133	Rehab collection	326	5,415,000	1,974,026	-	-	-	-	3,440,974	-	Without PFA Grants	257.67	-	752.92	-	1,010.59
												With PFA Grants	257.67	-	478.44	30.00	766.11

Estimated Funding Needs Report
Table 4

Minnesota Public Facilities Authority

Estimated Average Annual Residential Wastewater System Costs, with and without PFA program grants

FY 2023 Potential Wastewater WIF and PSIG Projects, alphabetical order

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					PFA Program Grants			Other Grants		Loan		With or Without PFA Grants	Fixed Costs (non-project costs)		Project Costs		Total Annual Cost per HH
					Estimated WIF or CWRWF Grant - Affordblty	Estimated PSIG Grant to Improve WQ	Estimated CWRWF Grant - Green Proj Resrv	Estimated Other Grants (or local funds)	Source	Estimated PFA CWRWF Loan	Estimated USDA-RD Loan		Operation & Maintenance Cost	Existing Debt Service (10 yr avg)	New Project Debt Service	Estimated WIF Replacement Fund	
Redwood Falls	127	Adv trmt - phos, rehab WWTP	4,144	9,960,000	-	7,000,000	-	-	-	2,960,000	-	Without PFA Grants	241.92	12.75	108.94	-	363.61
												With PFA Grants	241.92	12.75	32.38	-	287.04
Russell	73	Rehab collection and treatment	190	4,100,000	1,435,850	-	-	1,409,000	USDA-RD	-	1,255,150	Without PFA Grants	360.00	-	612.73	-	972.73
												With PFA Grants	360.00	-	285.79	30.00	675.79
Saint Michael	20	Adv trmt - phos, replace reed beds	8,100	38,850,000	-	7,000,000	-	-	-	31,850,000	-	Without PFA Grants	308.64	21.11	296.45	-	626.20
												With PFA Grants	308.64	21.11	243.03	-	572.79
Shorewood Park San Dist	46	Extend collection system, adv trmt - phos, add pond	124	2,305,000	1,326,691	-	-	-	-	978,309	-	Without PFA Grants	887.10	-	842.59	-	1,729.69
												With PFA Grants	887.10	-	357.62	30.00	1,274.72
Silver Lake	9	Rehab collection and ponds, adv trmt-phos	440	8,951,661	3,114,000	-	-	2,278,000	USDA-RD	-	3,559,661	Without PFA Grants	233.68	69.12	656.18	-	958.98
												With PFA Grants	233.68	69.12	350.00	30.00	682.80
Trosky	27	Unsewered, collection and treatment	54	4,424,965	-	3,539,972	-	793,993	USDA-RD, SCDP	-	91,000	Without PFA Grants	462.96	-	2,908.97	-	3,371.93
												With PFA Grants	462.96	-	72.91	-	535.87
Two Harbors	175	Rehab/expand treatment	2,921	33,488,485	1,714,607	5,779,959	-	11,500,000	2020 SPAP	14,493,919	-	Without PFA Grants	501.12	38.29	434.15	30.00	1,003.57
												With PFA Grants	501.12	38.29	286.17	30.00	855.59
Tyler	16	Rehab collection	759	7,292,000	827,832	-	-	-	-	6,464,168	-	Without PFA Grants	177.87	46.04	435.48	-	659.39
												With PFA Grants	177.87	46.04	386.05	30.00	639.95
Utica	138	Rehab collection and treatment	119	5,855,000	2,380,000	-	-	-	-	3,475,000	-	Without PFA Grants	264.00	-	2,230.22	-	2,494.22
												With PFA Grants	264.00	-	1,323.66	30.00	1,617.66

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Minnesota Public Facilities Authority
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					PFA Program Grants			Other Grants		Loan		With or Without PFA Grants	Fixed Costs (non-project costs)		Project Costs		Total Annual Cost per HH
					Estimated WIF or CWRF PF Grant - Affordblty	Estimated PSIG Grant to Improve WQ	Estimated CWRF PF Grant - Green Proj Resrv	Estimated Other Grants (or local funds)	Source	Estimated PFA CWRF Loan	Estimated USDA-RD Loan		Operation & Main- tenance Cost	Existing Debt Service (10 yr avg)	New Project Debt Service	Estimated WIF Replacem ent Fund	
Vernon Center	91	Rehab collection and treatment	163	5,592,797	2,984,668	-	-	1,991,797	USDA-RD	-	616,332	Without PFA Grants	264.00	128.83	955.75	-	1,348.59
												With PFA Grants	264.00	128.83	163.58	30.00	586.42
Wabasso	17.1	Rehab collection	323	8,337,000	2,000,000	-	-	3,401,000	USDA-RD	-	2,936,000	Without PFA Grants	264.00	-	661.12	-	925.12
												With PFA Grants	264.00	-	393.25	30.00	687.25
Watertown	63	Adv trmt - phos, rehab existing system	1,799	23,723,450	-	7,000,000	-	-	-	16,723,450	-	Without PFA Grants	304.06	4.62	815.06	-	1,123.74
												With PFA Grants	304.06	4.62	574.56	-	883.24
Winger	141	Rehab collection and treatment	133	2,651,000	800,000	-	-	1,056,000	USDA-RD	-	795,000	Without PFA Grants	252.88	-	457.84	-	710.72
												With PFA Grants	252.88	-	228.20	30.00	511.08
WLSSD - Combined Heat and Power	106.2	Cogeneration imp, engine gen, Ph 2	57,545	16,103,241	-	-	1,000,000	6,750,000	2020 SPAP	8,353,241	-	Without PFA Grants	446.12	108.98	7.71	-	562.82
												With PFA Grants	446.12	108.98	6.89	-	561.99
Wood Lake	3	Rehab treatment, collection ph 2	207	4,735,745	260,167	719,833	-	3,555,745	USDA-RD	-	200,000	Without PFA Grants	364.73	206.38	246.62	30.00	847.73
												With PFA Grants	364.73	206.38	41.80	30.00	642.92
Zumbro Township	13	Unsewered - Ryans Bay, potential SSTS	88	8,214,145	839,502	6,571,316	-	-	-	803,327	-	Without PFA Grants	731.82	-	4,231.04	-	4,962.86
												With PFA Grants	731.82	-	413.79	30.00	1,175.61