



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

January 30, 2020

**Minnesota Public Facilities Authority
2020 Estimated Funding Needs Report**

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Note (as required by Minnesota Statutes, section 3.197): Preparation of this report required an estimated 85 hours of staff time for a total cost of \$5,700.

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 processes to meet 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 over \$4 billion in low interest loans to municipalities throughout the State, with below-market interest rates that will save communities \$889 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 programs. Estimated grant amounts are based on application submittals, a survey of cities to collect preliminary project information, and other data compiled by the PFA.

Water Infrastructure Funding (WIF) Program

The Water Infrastructure Funding (WIF) program is established in Minnesota Statutes, Section 446A.072. The WIF program provides supplemental grants to municipalities with high cost water infrastructure projects based on affordability criteria established by statute. The PFA awards WIF grants in conjunction with loans from the Clean Water and Drinking Water Revolving Fund (CWRF and DWRF) programs or the U.S. Department of Agriculture's (USDA) Rural Development grant and loan program.

Municipalities seeking WIF grants must have their projects listed on the Minnesota Pollution Control Agency's (MPCA's) Project Priority List (PPL) for wastewater projects, and the Minnesota Department of Health's (MDH's) PPL 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. To be eligible for WIF grants, municipalities must also apply for grants from other sources for which they may be eligible.

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, and awarded when construction begins. 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 grants are based on affordability criteria that compare the average annual cost per household of the wastewater or drinking water system to the median household income of the municipality. While the WIF program is potentially available to all cities, WIF grant recipients tend to be smaller communities that generally have higher costs per household.

WIF affordability criteria are established in Minnesota Statutes, Section 446A.072, subdivision 5a. 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, divided by the total 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 only provides assistance 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 that 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 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 major 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 (drinking water projects) and Table 2 (wastewater projects) on pages 9-12 identify potential WIF eligible projects on the respective 2020 Project Priority Lists. Grey shading indicates projects where WIF grant funds have been awarded or are reserved as described above. Estimated grant amounts based on preliminary project information are shown for the unshaded projects. Estimated grant amounts may change and other eligible projects may be added as new project information is received. The tables also show federal principal forgiveness grant funds that can be used to help address WIF needs. Federal law allows a small portion of federal appropriations for the revolving loan funds to be awarded as principal forgiveness grants. (For clean water, the federal funds may also be used to assist green infrastructure projects).

Projects in each table are divided into three groups. The first are FY 2019 Carryover Projects in priority order that were certified by June 30, 2019 and therefore have WIF funds reserved or awarded (to the extent funds are available). The second group are potential WIF eligible projects in priority order that are listed on the 2020 Intended Use Plan for CWRP or DWRP loans, or have submitted Preliminary Engineering Reports to USDA Rural Development and are therefore potentially eligible for a Rural Development funding commitment in FY 2020. The list of potential 2020 WIF eligible projects will likely grow as projects on the 2020 Intended Use Plan submit formal loan applications and additional project information is received. The third group in each table are other projects on the 2020 Project Priority Lists that are expected to proceed with construction in future years where preliminary information indicates a potential WIF need.

Tables 1 and 2 each show the amount of prior appropriations for WIF grants available at the start of the fiscal year. As of 7/1/2019, the drinking water WIF program had \$9.4 million available and the wastewater WIF program had \$33.6 million available. Each table indicates with a dotted line how far down the list the available funds will reach. All projects below the dotted line will require

additional WIF appropriations. The wastewater WIF list (Table 2) shows there are three FY 2019 carryover projects with unfunded needs below the dotted line, meaning they have partial WIF funding reserved but are eligible for additional funds if appropriated.

For drinking water, the total unfunded WIF grant need is currently estimated at \$64.6 million, of which \$56.2 million is in the current Drinking Water Revolving Fund fundable range. For wastewater, the total unfunded WIF grant need is currently estimated at \$79.6 million, of which \$70.6 million is in the current Clean Water Revolving Fund fundable range.

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 reduce the discharge of specific pollutants to meet regulatory requirements. 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 within 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 2020 Project Priority List, starting with Carryover Projects from prior years (certified by 6/30/18 and 6/30/19) in priority order, followed by FY 2020 PSIG applications in priority order. The MPCA has not yet confirmed PSIG project eligibility and eligible costs for the FY 2020 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.

As shown on Table 3, at the beginning of FY 2020 (7/1/2019), the PSIG program had a total of \$43.76 million available from prior bonding and Clean Water Fund appropriations. 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 \$73 million. An additional \$8 million appropriated in 2019 from the Clean Water Fund will be available in FY21, reducing the current unfunded PSIG grant need to approximately \$65 million. New PSIG applications will again be accepted in July 2020.

Estimated Average Annual Wastewater Residential Costs

For wastewater projects with identified WIF or PSIG grant needs, Minnesota Statutes, Section 446A.076 also requires the report to show average annual residential wastewater treatment rates with and without the estimated WIF and PSIG grants, and to compare those costs to three times 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. While WIF determinations are based on total system costs, operation and maintenance and existing debt service are fixed costs that cannot be reduced by PFA project funding. Only new project debt service can be offset by PFA grants and loans.

Table 4 on pages 15-16 show estimated project funding and estimated average annual residential system costs for FY 2019 carryover and potential FY 2020 wastewater WIF and PSIG projects identified in Tables 2 and 3. Potential projects for FY 2021 and beyond are not included because the cost data is too preliminary and unreliable. Fixed (non-project) costs are shown along with estimated new project debt service costs with and without the state 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 State Grants” scenario.

The table also shows the Twin Cities metro area average residential wastewater cost is \$307 based on the most recent Metropolitan Council survey done in 2018. The report statute requires this amount to be multiplied by three for comparison, which equals \$921.

In general, smaller communities typically have higher average residential costs than larger cities because they have fewer users over which to spread the system costs. Also, projects in unsewered communities involve construction of both a new collection system and treatment, typically making these projects more expensive than improvements to existing systems. In addition, there are many other factors that can vary significantly from one community to another which can make it very 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 users, the type of treatment facilities, the geography, geology, and hydrology of the area and the condition and classification of receiving waters. In addition cities often phase system improvements over multiple years, making snapshot comparisons difficult.

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Estimated Funding Needs Report
Table 1

Minnesota Public Facilities Authority
Water Infrastructure Funding (WIF) Program

WIF - DRINKING WATER
FY 2020

Potential WIF Grant Eligible Projects

Pre-2020 appropriations available as of 7/1/2019: \$ 9,395,765

- 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 are subject to change.

2019 federal principal forgiveness (grant) available: \$ 4,367,220

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

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 Pts	Project Description	Estimated Project Cost	DWRF Federal Principal Forgiveness Grant	Estimated WIF Grant with PFA DWRF Loan	Estimated WIF Grant to match USDA-RD	Estimated WIF Need, Cumulative	County
WIF Needs - FY 2019 Carryover Projects									
Fraze	17	13	Source - New Well & Seal Well #5	119,329	95,463	-	-	-	Becker
Onamia	25	12	Watermain - Looping	592,000	-	-	256,000	256,000	Mille Lacs
Twin Valley	32	12	Treatment - Plant Rehab	1,495,350	1,196,280	-	-	256,000	Norman
Fraze	43	12	Treatment - Replace Treatment Plant	2,938,962	1,532,175	-	-	256,000	Becker
Gary	48	12	Source - Two New Wells	258,000	-	-	100,302	356,302	Norman
Gary	49	12	Treatment - Remove Fe/Mn	1,255,000	-	-	487,905	844,207	Norman
Gary	50	12	Watermain - Looping	90,000	-	-	34,989	879,197	Norman
Gary	56	11	Storage - New 50,000 Gal Tower	712,000	-	-	276,803	1,156,000	Norman
Walker	80	10	Watermain - Replace on North Side	1,006,574	805,259	-	-	1,156,000	Cass
Kensington	93	10	Source - Repl Well #5	150,000	-	-	70,670	1,226,670	Douglas
Kensington	94	10	Treatment - Plant Rehab, Generator	664,200	-	-	312,928	1,539,599	Douglas
Kensington	96	10	Watermain - Repl Cast Iron Main	660,900	-	-	281,401	1,821,000	Douglas
Battle Lake	113	10	Watermain - Replace	2,547,890	38,032	1,635,220	-	3,456,220	Otter Tail
Barrett	126	10	Treatment - Plant Rehab	789,000	-	-	518,061	3,974,281	Grant
Barrett	127	10	Watermain - Replace Various Areas	1,446,000	-	-	839,939	4,814,220	Grant
Pipestone	134	10	Storage - Rehab Hosp & Ind. Park Tov	1,466,348	-	1,173,078	-	5,987,298	Pipestone
Currie	143	10	Watermain - Replace and Loop	1,776,094	-	-	894,242	6,881,540	Murray
Currie	144	10	Storage - Tower Rehab	350,635	-	-	165,768	7,047,308	Murray
Currie	145	10	Source - Wells 3 & 4 Upgrades	395,330	-	-	186,898	7,234,206	Murray
Currie	146	10	Treatment - Plant Rehab	795,517	-	-	376,092	7,610,298	Murray
Greenbush	229	7	Watermain - Repl&Loop Area 6-Old Hv	676,486	-	524,622	-	8,134,920	Roseau
Rice Lake	244	7	Watermain - East Calvary Road Loop	2,335,730	700,011	-	-	8,134,920	St. Louis
FY 2019 Carryover Projects				22,521,345	4,367,220	3,332,920	4,802,000		
POTENTIAL 2020 WIF Needs (ESTIMATED) - FY 2020 IUP & RD Projects (other WIF eligible projects may be added as they are identified)									
Clitherall	1	30	New System - Connect Private Wells w	2,768,000	-	-	1,220,000	9,354,920	Otter Tail
Askov	2	30	Treatment - New RO Addition for TOC	2,900,000	-	1,828,771	-	11,183,691	Pine
Tower	4	25	Treatment - Plant Improvements	4,500,000	-	1,813,022	-	12,996,713	St. Louis
Lake Lillian	5	25	Treatment - Repl Media to Remove As	260,000	-	-	106,600	13,103,313	Kandiyohi
Lake Lillian	6	25	Source - 2 New Low Arsenic Wells	504,000	-	-	245,700	13,349,013	Kandiyohi
Cuyuna	8	15	Source - Repl with Wells #2 & #3/Treat	459,300	-	-	223,909	13,572,922	Crow Wing
Battle Lake	16	13	Source - New Well #4	425,000	-	340,000	-	13,912,922	Otter Tail
Onamia	24	12	Treatment - New Plant	3,080,000	-	-	1,707,554	15,620,476	Mille Lacs
Appleton	31	12	Treatment - New Fe/Mn Plant	5,375,000	-	1,294,062	-	16,914,537	Swift
Dawson	35	12	Treatment - Plant Rehab	752,900	-	602,320	-	17,516,857	Lac qui Parle
Elbow Lake	39	12	Watermain - Replace & Loop 2nd	370,000	-	225,428	-	17,742,285	Grant
Two Harbors	44	12	Treatment - Repl Chlorine Contact Tan	4,200,000	-	3,360,000	-	21,102,285	Lake
Dawson	55	11	Storage - New 250,000 Gal Tower	1,263,500	-	1,010,800	-	22,113,085	Lac qui Parle
Onamia	73	10	Storage - Tower Rehab	340,000	-	-	188,496	22,301,582	Mille Lacs
Ironton	74	10	Treatment - Replace Plant	3,800,000	-	-	1,300,000	23,601,582	Crow Wing
Eagle Bend	121	10	Watermain - Phase 4 Replacement	312,100	-	249,680	-	23,851,262	Todd
Dawson	124	10	Watermain - Replacement	13,712,700	-	2,952,780	-	26,804,042	Lac qui Parle
Dawson	125	10	Conservation - New Meters	542,625	-	434,100	-	27,238,142	Lac qui Parle
Elbow Lake	133	10	Treatment - New Plant/Remove Fe/Mn	3,145,000	-	811,306	-	28,049,447	Grant
Clarkfield	159	10	Other - Connect to Lincoln Pipestone R	2,700,000	-	-	674,700	28,724,147	Yellow Medicine
Houston	160	10	Watermain - Jackson, Lincoln, Spruce	652,500	-	-	-	28,724,147	Houston
Murdock	188	8	Source - Two Replacement Wells	230,000	-	-	92,093	28,816,240	Swift
Wood Lake	189	8	Source - New Well #4, Seal Wells 1 & ;	279,000	-	-	147,526	28,963,766	Yellow Medicine
Murdock	201	7	Treatment - New Fe/Mn Treatment Plai	1,958,000	-	-	783,991	29,747,757	Swift
Murdock	202	7	Watermain - Replace & Loop	618,000	-	-	247,450	29,995,207	Swift
Wood Lake	206	7	Treatment - Repl Plant & Equipment	1,346,000	-	-	711,721	30,706,928	Yellow Medicine
Lake Lillian	223	7	Watermain - Repl & Loop - Phase 1	1,101,000	-	-	568,750	31,275,678	Kandiyohi
Lake Lillian	224	7	Watermain - Repl & Loop - Phase 2	4,804,000	-	-	2,505,100	33,780,778	Kandiyohi
Greenbush	230	7	Watermain - Repl Area 1-Main St & Lo	779,163	-	623,330	-	34,404,109	Roseau
Russell	236	7	Watermain - Repl & Loop	4,976,000	-	-	2,201,773	36,605,882	Lyon
Hanley Falls	238	7	Watermain - Replace & Loop Main	2,625,000	-	-	1,706,250	38,312,132	Yellow Medicine
Vernon Center	247	7	Treatment - New Plant	2,764,300	-	-	1,634,295	39,946,427	Blue Earth
FY 2020 WIF Needs				73,543,088	-	15,545,599	16,265,908		

Estimated Funding Needs Report
Table 1

Other Potential WIF Needs (Estimated), FY 2021 and beyond									
	MDH 2020 PPL Rank	MDH 2020 PPL Pts	Project Description	Estimated Project Cost		Estimated WIF Grant with PFA DWRf Loan	Estimated WIF Grant to match USDA-RD	Estimated WIF Need, Cumulative	County
Easton	7	18	Consolidation - Connection to Wells	2,699,400	-	-	1,123,200	41,069,627	Faribault
South Haven	11	15	Source - New Well & Pump House	1,341,780	-	-	392,471	41,462,098	Wright
Aurora	12	15	Consolidation - E Mesabi Joint Water S	17,200,000	-	4,320,076	-	45,782,174	St. Louis
Twin Lakes Township	21	12.5	Watermain - Extension to Arsenic Well:	7,500,000	-	-	1,840,000	47,622,174	Carlton
Gonvick	28	12	Treatment - Plant Rehab	275,000	-	-	80,438	47,702,611	Clearwater
Gonvick	29	12	Watermain - Repl Various Areas	3,243,000	-	-	948,578	48,651,189	Clearwater
Garfield	36	12	Treatment - New Plant, Remove Fe/Mr	987,527	-	-	288,852	48,940,040	Douglas
Garfield	37	12	Source - New Well	121,234	-	-	35,461	48,975,501	Douglas
Calumet	85	10	Watermain - Alley Replacement	415,000	-	-	121,388	49,096,889	Itasca
Calumet	86	10	Watermain - Repl 6th Ave/Shipka St.	260,000	-	-	76,050	49,172,939	Itasca
Walnut Grove	87	10	Watermain - Replace Old Water Main	833,500	-	-	406,331	49,579,270	Redwood
Bovey	88	10	Watermain - Replace in Business Area	658,880	-	-	192,722	49,771,992	Itasca
Erskine	100	10	Watermain - Replace 1947 Lines	1,179,150	-	870,186	-	50,642,178	Polk
Brooton	115	10	Treatment - New Plant, Remove Fe/Mr	2,000,000	-	250,880	-	50,893,058	Pope
Heron Lake	120	10	Storage - Replace 100,000 Gal Tower	800,000	-	640,000	-	51,533,058	Jackson
Tracy	156	10	Watermain - Loop and Replace, Ph 3b	5,413,000	-	-	1,178,450	52,711,508	Lyon
Hanska	169	10	Source - Replace Well #1 with #4	255,000	-	-	74,588	52,786,096	Brown
Hanska	170	10	Watermain - Repl Transite Main - Phas	2,335,000	-	-	682,988	53,469,083	Brown
Comfrey	175	10	Watermain - Replace Cast Iron Main	1,678,000	-	802,093	-	54,271,177	Brown
Avoca	187	8	Other - Connect to Red Rock Rural Wz	503,200	-	-	245,310	54,516,487	Murray
Minnesota Lake	192	8	Watermain - Connect to Wells	5,100,000	-	-	1,480,000	55,996,487	Blue Earth
Amboy	197	7	Watermain - Repl North St.,Loop Radk	988,600	-	611,182	-	56,607,669	Blue Earth
Lamberton	208	7	Treatment - New Plant	4,820,800	-	-	2,484,052	59,091,721	Redwood
Lamberton	209	7	Watermain - Looping Project	390,500	-	-	201,216	59,292,937	Redwood
Lamberton	210	7	Source - New Well, Rehab Well 1	683,000	-	-	351,935	59,644,872	Redwood
Morgan	215	7	Treatment - Remove Fe/Mn & New We	2,125,000	-	-	621,563	60,266,434	Redwood
Truman	220	7	Treatment - Rehab Plant w/RO System	1,892,900	-	473,514	-	60,739,948	Martin
Kerkhoven	221	7	Treatment - Remove Fe/Mn/As	1,950,000	-	-	570,375	61,310,323	Swift
Kerkhoven	222	7	Watermain - Loop & Replace	1,135,350	-	-	332,090	61,642,413	Swift
Hanska	225	7	Treatment - New Plant, Remove Fe/Mr	1,352,000	-	-	395,460	62,037,873	Brown
Saint Augusta	248	7	Treatment - New Fe/Mn Plant & Wells	7,548,900	-	3,562,175	-	65,600,047	Stearns
Wood Lake	280	5	Storage - Water Tower Rehab	982,000	-	-	519,250	66,119,297	Yellow Medicine
Wood Lake	281	5	Watermain - Repl Cast Iron & AC Main	3,843,000	-	-	2,032,053	68,151,350	Yellow Medicine
Lamberton	284	5	Storage - Ground Storage Rehab	184,800	-	-	95,223	68,246,574	Redwood
Lamberton	285	5	Watermain - Replacement Project	3,473,900	-	-	1,790,024	70,036,598	Redwood
Badger	288	5	Treatment - Repl Plant Piping System	102,182	-	-	29,888	70,066,486	Roseau
Badger	289	5	Storage - Replace Riser Pipe	38,318	-	-	11,208	70,077,694	Roseau
Badger	290	5	Watermain - Repl Area 1	836,000	-	-	244,530	70,322,224	Roseau
Badger	291	5	Watermain - Repl Area 2	667,000	-	-	195,098	70,517,321	Roseau
Badger	292	5	Storage - Rehab Tower	296,000	-	-	86,580	70,603,901	Roseau
Morgan	295	5	Storage - Tower Rehab	407,000	-	-	119,048	70,722,949	Redwood
Kennedy	298	5	Storage - Tower Rehab	362,500	-	-	106,031	70,828,980	Kittson
Kennedy	299	5	Watermain - Replace Various Areas	1,282,500	-	-	375,131	71,204,111	Kittson
Hanska	315	5	Storage - Repl w/100,000 Gal Tower	638,000	-	-	186,615	71,390,726	Brown
Greenbush	322	5	Watermain - Repl Area 7 - Main & Park	704,816	-	563,853	-	71,954,579	Roseau
Greenbush	323	5	Watermain - Repl Area 8 -2nd & Johns	616,813	-	493,450	-	72,448,030	Roseau
Russell	333	5	Storage - Repl 50,000 Gal Tower	1,326,000	-	-	586,727	73,034,756	Lyon
Hanley Falls	342	5	Watermain - Replace	2,491,000	-	-	728,618	73,763,374	Yellow Medicine
Hanley Falls	343	5	Conservation - Replace Meters	134,000	-	-	39,195	73,802,569	Yellow Medicine
Hitterdal	350	5	Storage - New 50,000 Gallon Tower	625,000	-	-	182,813	73,985,381	Clay
Hitterdal	351	5	Conservation - Install Meters	75,000	-	-	21,938	74,007,319	Clay
96,771,550						12,587,409	21,473,483		

Projects currently ranked below DWRf fundable range

Total estimated unfunded (below dotted line) WIF need: 64,611,554

Estimated unfunded need for projects in current DWRf fundable range: 56,204,283

Estimated Funding Needs Report
Table 2

Minnesota Public Facilities Authority
Water Infrastructure Funding (WIF) Program

WIF - WASTEWATER
FY 2020

Potential WIF Grant Eligible Projects

Prior appropriations available as of 7/1/2019: \$ 33,636,519

- 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 are subject to change.

2018-19 federal principal forgiveness (grant) available: \$ 3,917,163

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

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 2020 PPL	MPCA 2020 PPL Pts	Project Description	Estimated Project Cost	CWRF Federal Principal Forgiveness Grant	Estimated WIF	Estimated WIF	Estimated WIF	County
						Grant with PFA CWRF Loan	Grant to match USDA-RD	Need, Cumulative	
WIF Needs - FY 2019 Carryover Projects									
Lakefield	1	98	Adv trmt - phos, rehab collection/treatment	11,008,000	-	-	2,583,185	2,583,185	Jackson
Tracy 1	3.1	88	Rehab collection, Ph 3a1 (3rd & Harvey)	2,459,056	-	-	904,358	3,487,543	Lyon
Tracy 2	3.2	88	Rehab collection, Ph 3a2 (6th & Harvey)	2,585,006	-	-	950,678	4,438,221	Lyon
Wood Lake 1	2.1	93	Rehab collection, ph 1	3,180,000	-	-	1,947,000	6,385,221	Yellow Medicine
Hoyt Lakes 2	23	68	Adv trmt - mercury, rehab treatment	12,000,000	-	2,284,688	-	8,669,909	St. Louis
Currie	25	68	Rehab collection	1,887,000	-	-	1,089,000	9,758,909	Murray
Little Falls 1	27	66	Adv trmt - phos, rehab treatment	23,495,011	996,763	-	-	9,758,909	Morrison
Staples	30	66	Adv trmt - phos/mercury, rehab trmt	16,112,280	-	3,060,681	-	12,819,590	Todd
Waldorf	45	61	Rehab collection, new WWTP	5,490,000	-	-	1,800,000	14,619,590	Waseca
Easton	49	61	Rehab collection	1,893,000	-	-	912,000	15,531,590	Faribault
Battle Lake	51	60	Rehab collection	2,234,473	-	494,206	-	16,025,796	Otter Tail
Buhl	53	60	Rehab collection	2,131,000	-	-	860,000	16,885,796	St. Louis
Lanesboro 1	60.1	58	New WWTP	9,800,000	-	2,455,652	-	19,341,448	Fillmore
Dumont	74	58	Rehab collection and treatment	1,750,000	-	-	900,000	20,241,448	Traverse
Silver Bay	77	57	Adv trmt - mercury, rehab treatment	4,555,495	-	1,338,509	-	21,579,957	Lake
Waverly 1	106	53	Rehab collect Ph 3, Lake west side	3,865,159	2,920,400	171,727	-	21,751,684	Wright
Clarkfield	121	51	Rehab collection and treatment	7,176,000	-	-	1,875,000	23,626,684	Yellow Medicine
Grey Eagle	125	50	Rehab collection, lift station	4,297,000	-	-	400,000	55,568,411	Todd
Ostrander	128	49	Rehab collection, Ph 2	1,489,000	-	-	180,000	24,206,684	Fillmore
Detroit Lakes	132	48	Rehab collection	2,772,550	-	2,218,040	-	26,424,724	Becker
Two Harbors	136	47	Rehab/expand treatment	20,000,000	-	2,490,071	-	28,914,795	Lake
Anndale 1	172	43	Rehab collection, Hwy 24	2,617,709	-	1,740,934	-	30,655,729	Wright
Deer River	179	43	Pond expansion and improvements	3,725,988	-	2,980,790	-	33,636,519	Itasca
Lakefield (unfunded)	1	98	Adv trmt - phos, rehab collection/treatment	11,008,000	-	-	1,511,815	35,148,334	Jackson
Hoyt Lakes 2 (unfunded)	23	68	Adv trmt - mercury, rehab treatment	12,000,000	-	1,215,070	-	36,363,404	St. Louis
Lanesboro 1 (unfunded)	60.1	58	New WWTP	9,800,000	-	2,544,348	-	38,907,752	Fillmore
FY 2019 Carryover Projects				179,331,727	3,917,163	22,994,716	15,913,036		
POTENTIAL 2020 WIF Needs (ESTIMATED) - FY 2020 IUP & RD Projects (other WIF eligible projects may be added as they are identified)									
Tracy 3	3.3	88	Rehab collection, Ph 3a3-4 (1st & Morgan, Cent)	4,200,938	-	-	1,544,964	40,452,716	Lyon
Gilbert	4	83	Rehab collection	1,989,900	-	1,496,566	-	41,949,282	St. Louis
Hanley Falls	5	83	Rehab treatment & collection	2,708,000	-	-	1,695,200	43,644,482	Yellow Medicine
Ogilvie	19	70	Adv trmt - phos/mercury, rehab treatment	3,718,000	-	-	1,394,447	45,038,930	Kanabec
Kandiyohi Co - Glacial L	20.1	68	WWTP rehab, phase 1	1,400,000	-	979,195	-	46,018,124	Kandiyohi
Lake Lillian	24	68	Rehab collection, ph 2	4,302,000	-	-	1,909,700	47,927,824	Kandiyohi
Dawson 1	26.1	68	Rehab collection and lift station	11,526,900	-	2,692,777	-	50,620,602	Lac Qui Parle
Babbitt	39	63	Adv trmt - mercury, rehab treatment	11,000,000	-	1,257,480	-	51,878,082	St. Louis
Russell	40	63	Rehab collection and treatment	4,428,000	-	-	1,448,200	53,326,282	Lyon
Vernon Center	59	59	Rehab collection and treatment	3,300,000	-	-	2,112,500	55,438,782	Blue Earth
Lanesboro 2	60.2	58	Rehab collection ph 1, Kirkwood St.	585,000	-	468,000	-	55,906,782	Fillmore
Lanesboro 3	60.3	58	Rehab collection ph 2, Beacon/Coffee/Rochelle	495,000	-	396,000	-	56,302,782	Fillmore
Borup	76	58	Rehab collection and treatment	2,230,000	-	-	760,000	57,062,782	Norman
Eagle Bend	78	57	Rehab collection, Ph 4	413,500	-	330,800	-	57,393,582	Todd
Otsego	98	54	Rehab treatment, biosolids improvements	14,935,000	203,750	-	-	57,393,582	Wright
Houston 1	99.1	54	Rehab treatment	2,350,000	-	901,422	-	58,295,004	Houston
Houston 2	99.2	54	Rehab collection ph1 - Jackson, Lincoln, Spruce	952,000	-	720,240	-	59,015,244	Houston
Waverly 2	107	53	Rehab collect Ph 4 - No. Shore Dr	2,280,500	-	1,824,400	-	60,839,644	Wright
Wahkon	135	48	Rehab collection	1,800,000	-	-	975,000	61,814,644	Mille Lacs
Winnebago - Stormwater	152	46	Bioinfiltration swales and treatment area	5,453,943	617,482	-	-	61,814,644	Faribault
Anndale 2	160	45	Rehab collection, Hwy 55	1,157,352	-	769,709	-	62,584,353	Wright
FY 2020 WIF Needs				81,226,033	821,232	11,836,590	11,840,011		
Other Potential WIF Needs (Estimated), FY 2021 and beyond									
MPCA Rank	MPCA 2020 PPL	MPCA 2020 PPL Pts	Project Description	Estimated Project Cost		Estimated WIF Grant with PFA CWRF Loan	Estimated WIF Grant to match USDA-RD	Estimated WIF Need, Cumulative	County
Wood Lake 2	2.2	93	Rehab treatment, collection ph 2	6,580,000	-	-	3,880,000	66,464,353	Yellow Medicine
Tracy 4	3.4	88	Rehab collection, Ph 3b	5,439,000	-	-	3,177,850	69,642,203	Lyon
Zumbro Township	9	79	Unsewered, collection and treatment	6,610,468	-	375,854	-	70,018,057	Wabasha
Walnut Grove	13	76	Rehab collection and treatment	6,659,925	-	-	1,948,028	71,966,085	Redwood
Campbell	16	73	Rehab treatment - new pond	1,540,000	-	-	750,750	72,716,835	Wilkin

Estimated Funding Needs Report
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	MPCA 2020 PPL Rank	MPCA 2020 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
Kandiyohi Co - Glacial L	20.2	68	WWTP rehab, ph 2, adv trmt	5,225,000	-	3,654,495	-	76,371,330	Kandiyohi
Kandiyohi Co - Glacial L	20.3	68	WWTP rehab, ph 3	5,275,000	-	3,689,466	-	80,060,795	Kandiyohi
Dawson 2	26.2	68	Rehab treatment	1,554,500	-	1,147,495	-	81,208,290	Lac Qui Parle
Lamberton	33	63	Rehab collection	5,910,000	-	-	3,110,250	84,318,540	Redwood
Pelican Rapids	38	63	Rehab collection	3,955,000	-	2,565,793	-	86,884,333	Otter Tail
McKinley	41	63	Rehab collection	342,347	-	-	166,894	87,051,228	St. Louis
Cromwell	73	58	Rehab existing system	350,000	-	-	102,375	87,153,603	Carlton
Kennedy	75	58	Rehab collection	2,160,000	-	-	631,800	87,785,403	Kittson
Houston 3	99.3	54	Rehab collection ph 2, TH 16	700,000	-	529,588	-	88,314,991	Houston
Detroit Lakes	105	53	Replace lift station	155,000	-	107,881	-	88,422,872	Becker
Darwin	109	53	Rehab collection and treatment	3,330,000	-	1,625,842	-	90,048,713	Meeker
Winger	111	53	Rehab treatment & collection	2,841,000	-	-	1,237,600	91,286,313	Polk
Tintah	113	52	Unsewered, potential SSTS	2,700,000	-	-	460,000	91,746,313	Traverse
Bovey	122	51	Rehab collection	450,000	-	-	131,625	91,877,938	Itasca
Howard Lake	127	49	Rehab collection, Ph 2	7,625,500	-	5,000,000	-	96,877,938	Wright
Avoca	131	48	Rehab collection, pond improvements	560,560	-	-	273,273	97,151,211	Murray
Calumet	134	48	Rehab collection	160,000	-	116,480	-	97,267,691	Itasca
Silver Creek Twp - Stew	155	46	Unsewered, collection and treatment	18,080,400	-	-	3,320,000	100,587,691	Lake
Foxhome	166	45	Unsewered, collection and treatment	3,700,000	-	-	1,082,250	101,669,941	Wilkin
East Gull Lake	170	44	Consolidate treatment	4,170,000	-	2,329,227	-	103,999,169	Cass
Warba	180	43	Adv trmt - mercury, rehab collection and trmt	2,278,000	-	-	214,500	104,213,669	Itasca
Browerville	191	39	Rehab treatment	6,205,600	-	3,644,237	-	107,857,906	Todd
Twin Valley	198	38	Rehab collection	1,020,000	-	683,745	-	108,541,650	Norman
Sebeka	207	35	Rehab collection	900,000	-	-	438,750	108,980,400	Wadena
Grasston	210	34	Rehab collection and pond	1,507,000	-	-	440,798	109,421,198	Kanabec
New London	214	33	Rehab collection	449,900	-	342,592	-	109,763,790	Kandiyohi
Fountain	216	32	Rehab treatment	352,000	-	252,865	-	110,016,655	Fillmore
Oslo	220	31	Rehab collection and pond	4,055,000	-	322,997	-	110,339,652	Marshall
Long Prairie	229	25	Rehab/expand treatment	7,638,000	-	1,403,751	-	111,743,403	Todd
Lone Pine Township - S	238	1	Unsewered, connect to Nashwauk	14,075,800	-	1,540,618	-	113,284,021	Itasca
				134,555,000		29,332,925	21,366,743		

Projects currently ranked below CWRP fundable range

Total estimated unfunded (below dotted line) WIF need: 79,647,502
 Estimated unfunded need for projects in current CWRP fundable range: 70,577,150

Estimated Funding Needs Report
Table 3

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

**PSIG
FY 2020**

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

Available from pre-2019 approp (bonding and CWF): 33,763,609
2019 CWF appropriation - FY20: 10,000,000

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

Total available as of 7/1/2019: 43,763,609

In most cases, estimated PSIG eligible costs for new applications have not yet been verified.

2019 CWF appropriation - FY21: 8,000,000

Dotted line (---) indicates fundable range based on current estimates and available funds.

PSIG Grant Applicant	MPCA 2020 PPL Rank	MPCA 2020 PPL Pts	Project Description	Estimated Total Project Cost	Estimated PSIG Eligible Project Costs	Estimated PSIG Grant (80%, \$7M max)	Estimated Grant Need, Cumulative	County
FY 2018 PSIG Carryover Projects (MPCA certified by 6/30/2018)								
Marshall WTP	22	68	Adv trmt - chlorides, new WTP	11,585,492	10,161,651	7,000,000	7,000,000	Lyon
Little Falls 1	27	66	Adv trmt - phos, rehab treatment	23,495,011	8,975,094	7,000,000	14,000,000	Morrison
Silver Bay	77	57	Adv trmt - mercury, rehab treatment	4,555,495	900,812	720,649	14,720,649	Lake
Austin - Turtle Creek 2	101	53	Unsewered, connect to Austin	1,966,342	1,637,946	1,310,357	16,031,006	Mower
Le Sueur Co - West Jefferson Lake	112	52	Unsewered, connect to Cleveland	6,090,682	6,090,682	4,872,546	20,903,552	Le Sueur
Clearwater River Watershed District	221	30	Adv trmt - nitrogen, rehab treatment	2,633,758	2,633,758	2,107,006	23,010,558	Stearns
FY 2019 Carryover Projects (MPCA certified by 6/30/2019)								
Mountain Lake	7	83	Adv trmt - phos, new WWTP	17,602,745	4,333,828	3,467,062	26,477,620	Cottonwood
Lakefield - WTP	11	78	Adv trmt - chlorides, install RO	2,381,522	2,381,522	1,905,217	28,382,837	Jackson
Hoyt Lakes 2	23	68	Adv trmt - mercury, rehab treatment	12,000,000	8,101,839	6,481,471	34,864,308	St. Louis
Staples	30	66	Adv trmt - phos/mercury, rehab trmt	16,112,280	11,028,427	7,000,000	41,864,308	Todd
Cokato	124	50	Adv trmt - phos, rehab treatment	2,882,211	2,722,290	2,177,832	44,042,140	Wright
Two Harbors	136	47	Rehab/expand treatment	20,000,000	2,040,000	1,632,000	45,674,140	Lake
Albertville	231	23	Rehab treatment, move discharge	7,720,000	7,266,646	5,813,317	51,487,457	Wright
PSIG Carryover Projects				129,025,538	68,274,495	51,487,457		
FY 2020 New Applications								
Lakefield	1	98	Adv trmt - phos, rehab collection/treatment	11,008,000	105,334	84,267	51,571,724	Jackson
Wood Lake 2	2.2	93	Rehab treatment, collection ph 2	6,580,000	588,007	470,406	52,042,130	Yellow Medicine
Zumbro Township	9	79	Unsewered, collection and treatment	6,610,468	6,610,468	5,288,374	57,330,504	Wabasha
Trosky	15	73	Unsewered, collection and treatment	3,273,246	3,273,246	2,618,597	59,949,101	Pipestone
Loretto	17	73	Regionalization with MCES	1,496,000	1,460,214	1,168,171	61,117,272	Hennepin

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Table 3

PSIG Grant Applicant	MPCA 2020 PPL Rank	MPCA 2020 PPL Pts	Project Description	Estimated Total Project Cost	Estimated PSIG Eligible Project Costs	<u>Estimated</u> PSIG Grant (80%, \$7M max)	<u>Estimated</u> Grant Need, Cumulative	County
Ogilvie	19	70	Adv trmt - phos/mercury, rehab treatment	3,718,000	1,281,941	1,025,553	62,142,825	Kanabec
Cascade Twp	32	64	Remove pond, connect to Rochester	3,105,157	3,082,872	2,466,298	64,609,123	Olmsted
Oronoco	34	63	Unsewered, new WWTP	33,746,410	13,792,158	7,000,000	71,609,123	Olmsted
Watertown	35	63	Rehab/expand existing system	12,500,000	8,812,500	7,000,000	78,609,123	Carver
Babbitt	39	63	Adv trmt - mercury, rehab treatment	11,000,000	4,420,798	3,536,638	82,145,761	St. Louis
Waldorf	45	61	Rehab collection, new WWTP	5,490,000	97,866	78,293	82,224,054	Waseca
Keewatin	69	58	Regionalize, connect to East Itasca WWTP	2,543,710	1,420,802	1,136,642	83,360,696	Itasca
Minnehaha Creek WD - Stormwater	86	56	Blake Road stormwater trmt, ph 2/3	2,821,882	2,821,882	2,257,506	85,618,201	Hennepin
Wells WTP	88	56	Adv trmt - chlorides, regional WTP	6,458,811	6,458,811	5,167,049	90,785,250	Faribault
Minnesota Lake WTP	91	56	Decommission, connect to Wells	5,252,251	5,252,252	4,201,802	94,987,052	Blue Earth
Easton WTP	92	56	Decommission, connect to Wells	4,565,241	4,565,241	3,652,193	98,639,244	Faribault
Inver Grove Heights - Stormwater	130	48	Rain gardens and bioretention	621,219	621,219	496,975	99,136,220	Dakota
Saint Paul - Stormwater	137	47	Stormwater - Ford Site	22,300,930	9,312,129	7,000,000	106,136,220	Ramsey
Nashwauk	176	43	Adv trmt-phos, new E. Itasca WWTP	7,156,000	5,216,942	4,173,554	110,309,773	Itasca
Cologne	178	43	Adv trmt-phos, expand treatment	12,000,000	5,010,402	4,008,322	114,318,095	Carver
Sacred Heart WTP	228	26	Adv trmt - chlorides, install RO	2,509,000	3,000,000	2,400,000	116,718,095	Renville
<i>FY 2020 New Applications</i>				164,756,325	87,205,084	65,230,638		

Total estimated unfunded (below dotted line) PSIG need: 72,954,486
2019 CWF appropriation - FY21: (8,000,000)
64,954,486

Estimated Funding Needs Report
Table 4

Minnesota Public Facilities Authority
Potential Wastewater WIF and PSIG Projects - FY 2020, alphabetical order

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

For comparison: Twin Cities metropolitan area 2018 average annual residential wastewater cost per HH: \$ 307.00 X 3 = \$ 921.00

Municipality	MPCA 2020 PPL Rank	Project Description	Households (Equivalent Residential ERUs)	Estimated Project Cost	ESTIMATED Project Funding					ESTIMATED Average Annual Residential System Costs per HH								
					Grant				Loan		Fixed Costs (non-project)		Without State Grants	With State Grants			Without State Grants	With State Grants
					Estimated PFA WIF Grant	Estimated PFA PSIG Grant	Estimated Other Grants (or local funds)	Other Source	Estimated PFA CWRF Loan	Estimated USDA-RD Loan	Operation & Main- tenance Cost	Existing Debt Service (10 yr avg)	New Project Debt Service	New Project Debt Service	Estimated WIF Replacem ent Fund	Total Annual Cost	Total Annual Cost	
Annandale 1	172	Rehab collection, Hwy 24	1,656	2,617,709	1,740,934	-	-	-	-	876,775	-	601.46	194.09	61.25	20.52	2.50	856.80	818.56
Annandale 2	160	Rehab collection, Hwy 55	1,656	1,157,352	769,709	-	-	-	-	387,643	-	601.46	211.35	28.20	9.45	2.50	841.02	824.76
Austin - Turtle Creek 2	101	Unsewered, connect to Austin	40	1,966,342	-	1,310,357	655,985	local	-	-	-	360.00	-	1,321.90	-	-	1,681.90	360.00
Babbitt	39	Adv trmt - mercury, rehab treatm	851	11,000,000	1,257,480	3,536,638	-	-	6,205,881	-	-	295.58	-	500.86	282.57	2.50	796.44	580.65
Battle Lake	51	Rehab collection	574	2,234,473	494,206	-	-	-	1,740,267	-	-	260.14	70.61	157.08	122.34	2.50	487.84	455.60
Borup	76	Rehab collection and treatment	38	2,230,000	760,000	-	984,000	USDA-RD	-	486,000	-	376.32	-	1,505.81	587.34	2.50	1,882.12	966.15
Buhl	53	Rehab collection	611	2,131,000	860,000	-	671,000	USDA-RD	-	600,000	-	487.46	-	95.19	39.12	2.50	582.65	529.08
Cascade Twp	32	Remove pond, connect to Rochest	248	3,105,157	-	2,466,298	-	-	638,859	-	-	399.19	-	505.24	103.95	-	904.44	503.14
Clarkfield	121	Rehab collection and treatment	534	7,176,000	1,875,000	-	2,101,000	USDA-RD	-	3,200,000	-	206.93	42.13	378.59	238.72	2.50	627.66	490.28
Clearwater River Wate	221	Adv trmt - nitrogen, rehab treatm	113	2,633,758	-	2,107,006	526,752	local	-	-	-	663.72	-	752.41	-	-	1,416.13	663.72
Cokato	124	Adv trmt - phos, rehab treatment	1,202	2,882,211	-	2,177,832	-	-	704,379	-	-	510.23	-	96.76	23.65	-	606.99	533.88
Cologne	178	Adv trmt-phos, expand treatment	852	12,000,000	-	4,008,322	-	-	7,991,678	-	-	507.75	-	568.34	378.50	-	1,076.09	886.25
Dawson 1	26.1	Rehab collection and lift station	1,194	11,526,900	2,692,777	-	-	-	8,834,123	-	-	232.92	108.33	374.08	286.69	2.50	715.32	630.44
Deer River	179	Pond expansion and improvement	653	3,725,988	2,980,790	-	-	-	745,198	-	-	262.35	191.44	221.09	44.22	2.50	674.89	500.52
Detroit Lakes	132	Rehab collection	7,757	2,772,550	2,218,040	-	-	-	554,510	-	-	393.90	146.83	13.85	2.77	2.50	554.58	546.00
Dumont	74	Rehab collection and treatment	62	1,750,000	900,000	-	800,000	USDA-RD	-	50,000	-	450.97	236.77	703.67	37.04	2.50	1,391.41	727.28
Eagle Bend	78	Rehab collection, Ph 4	306	413,500	330,800	-	-	-	82,700	-	-	155.23	464.16	52.36	10.47	2.50	671.75	632.36
Easton	49	Rehab collection	112	1,893,000	912,000	-	492,000	USDA-RD	-	489,000	-	292.86	-	574.45	200.51	2.50	867.31	495.86
Gilbert	4	Rehab collection	926	1,989,900	1,496,566	-	-	-	493,334	-	-	485.96	423.43	86.71	21.50	2.50	996.11	933.39
Kandiyohi Co - Glacial I	20.1	WWTP rehab, phase 1	3,192	1,400,000	979,195	-	-	-	420,805	-	-	360.28	505.69	17.70	5.32	2.50	883.66	873.78
Grey Eagle	125	Rehab collection, lift station	183	4,297,000	400,000	-	2,800,000	USDA-RD	-	1,097,000	-	217.75	-	375.67	275.29	2.50	593.42	495.54
Hanley Falls	5	Rehab treatment & collection	100	2,708,000	1,695,200	-	912,800	USDA-RD	-	100,000	-	309.00	249.03	824.42	45.92	2.50	1,382.45	606.45
Houston	99	Rehab trmt & collectn ph 1	505	3,302,000	1,621,662	-	-	-	1,680,338	-	-	385.18	127.85	253.36	128.93	2.50	766.38	644.45
Hoyt Lakes 2	23	Adv trmt - mercury, rehab treatm	943	12,000,000	3,499,758	6,481,471	-	-	2,018,771	-	-	408.98	214.73	493.08	82.95	2.50	1,116.80	709.17
Keewatin	69	Regionalize, connect to East Itasca	520	2,543,710	-	1,136,642	580,000	SCDP	827,068	-	-	442.31	-	152.38	64.18	-	594.69	506.49
Lakefield	1	Adv trmt - phos, rehab collection/	989	11,008,000	4,095,000	84,267	2,513,000	USDA-RD	-	4,315,733	-	338.62	97.90	394.46	200.40	2.50	830.99	639.42
Lake Lillian	24	Rehab collection, ph 2	134	4,302,000	1,909,700	-	448,300	USDA-RD	-	1,944,000	-	238.81	59.10	1,320.71	666.23	2.50	1,618.62	966.64
Lanesboro	60	Rehab collection and treatment	505	10,880,000	5,864,000	-	-	-	5,016,000	-	-	384.16	24.58	909.74	419.42	2.50	1,318.48	830.66
Le Sueur Co - West Jeff	112	Unsewered, connect to Cleveland	140	6,090,682	-	4,872,546	-	-	1,218,136	-	-	680.91	-	1,755.52	351.10	-	2,436.43	1,032.01

Estimated Funding Needs Report
Table 4

Minnesota Public Facilities Authority
Potential Wastewater WIF and PSIG Projects - FY 2020, alphabetical order

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

For comparison: Twin Cities metropolitan area 2018 average annual residential wastewater cost per HH: \$ 307.00 X 3 = \$ 921.00

Municipality	MPCA 2020 PPL Rank	Project Description	Households (Equivalent Residential Units - ERUs)	Estimated Project Cost	ESTIMATED Project Funding				ESTIMATED Average Annual Residential System Costs per HH								
					Grant				Loan		Fixed Costs (non-project)		Without State Grants	With State Grants		Without State Grants	With State Grants
					Estimated PFA WIF Grant	Estimated PFA PSIG Grant	Estimated Other Grants (or local funds)	Other Source	Estimated PFA CWRF Loan	Estimated USDA-RD Loan	Operation & Main- tenance Cost	Existing Debt Service (10 yr avg)	New Project Debt Service	New Project Debt Service	Estimated WIF Replacem ent Fund	Total Annual Cost	Total Annual Cost
Little Falls 1	27	Adv trmt - phos, rehab treatment	4,095	23,495,011	-	7,000,000	996,763	Fed PF	15,498,248	-	298.83	38.97	221.70	152.72	-	559.50	490.52
Loretto	17	Regionalization with MCES	257	1,496,000	-	1,168,171	327,829	local	-	-	431.91	-	183.42	-	-	615.32	431.91
Mountain Lake	7	Adv trmt - phos, new WWTP	2,157	17,602,745	-	3,467,062	-		14,135,683	-	127.49	211.59	329.30	264.44	-	668.38	603.52
Nashwauk	176	Adv trmt-phos, new E. Itasca WW	600	7,156,000	-	4,173,554	850,000	2018 st bc	2,132,446	-	451.50	-	424.10	143.41	-	875.60	594.91
Ogilvie	19	Adv trmt - phos/mercury, rehab tr	198	3,718,000	1,394,447	1,025,553	533,000	USDA-RD	-	765,000	595.96	39.39	640.80	153.91	2.50	1,276.15	791.77
Oronoco	34	Unsewered, new WWTP	485	33,746,410	-	7,000,000	19,886,410	state/local	6,860,000	-	414.91	-	1,153.16	570.76	-	1,568.07	985.67
Ostrander	128	Rehab collection, Ph 2	128	1,489,000	180,000	-	1,021,000	USDA-RD	-	288,000	488.88	142.38	145.65	89.63	2.50	776.92	723.40
Russell	40	Rehab collection and treatment	190	4,428,000	1,448,200	-	779,800	USDA-RD	-	2,200,000	360.00	-	881.78	531.75	2.50	1,241.78	894.25
Silver Bay	77	Adv trmt - mercury, rehab treatm	1,097	4,555,495	1,338,510	720,649	-		2,496,336	-	453.66	20.13	160.91	88.18	2.50	634.70	564.47
Staples	30	Adv trmt - phos/mercury, rehab tr	1,362	16,112,280	3,060,681	7,000,000	-		6,051,599	-	341.02	-	499.53	187.62	2.50	840.54	531.13
Tracy	3	Rehab collection	1,125	9,245,000	3,400,000	-	2,845,001	USDA-RD	-	2,999,999	119.32	111.37	226.62	106.23	2.50	457.32	339.43
Trosky	15	Unsewered, collection and treatm	47	3,273,246	-	2,618,597	554,649	USDA-RD	-	100,000	510.64	-	2,656.33	97.71	-	3,166.96	608.35
Two Harbors	136	Rehab/expand treatment	2,796	20,000,000	2,115,086	1,632,000	-		16,252,914	-	394.46	40.34	288.64	234.56	2.50	723.44	671.86
Vernon Center	59	Rehab collection and treatment	163	3,300,000	2,112,500	-	1,137,500	RD,SmCiti	-	50,000	366.26	125.77	609.26	14.09	2.50	1,101.28	508.61
Wahkon	135	Rehab collection	506	1,800,000	975,000	-	525,000	USDA-RD	-	300,000	326.49	-	100.38	23.62	2.50	426.87	352.61
Waldorf	45	Rehab collection, new WWTP	134	5,490,000	1,800,000	78,293	2,165,000	USDA-RD	-	1,446,707	223.88	-	988.47	430.08	2.50	1,212.35	656.47
Watertown	35	Rehab/expand existing system	1,799	12,500,000	-	7,000,000	-		5,500,000	-	277.93	4.62	280.38	123.37	-	562.93	405.92
Waverly	106/107	Rehab collection, ph 3-4	446	6,145,659	4,916,527	-	-		1,229,132	-	1,080.04	285.34	581.85	116.37	2.50	1,947.24	1,484.26
Wood Lake 1	2.1	Rehab collection, ph 1	195	3,180,000	1,947,000	-	1,053,000	USDA-RD	-	180,000	341.03	211.79	434.52	36.77	2.50	987.34	592.09
Zumbro Township	9	Unsewered, collection and treatm	87	6,610,468	375,854	5,288,374	-		946,240	-	703.45	-	3,066.06	438.88	2.50	3,769.51	1,144.83