

WINNIPESAUKEE RIVER BASIN PROGRAM

ADVISORY BOARD MEETING AGENDA

June 16, 2022

10:00 am

Laconia Public Works Building -27 Bisson Ave

Due to the expiration of the Governor's Emergency Order, the WRBP Advisory Board must have a physical quorum at a meeting site that is open to the public.

The public has access to listen to and participate in this meeting by using the following link:

<https://us02web.zoom.us/j/89529980786?pwd=NUdsVXYxc2ZJZEV3US95MkQvd0lKdz09>

Meeting ID: 895 2998 0786

Passcode: 769509

1. April 21, 2022, Meeting Minutes for review and approval (Did not have a quorum for the May 17, 2022 meeting).
2. WRBP Monthly Summary Report – May 2022 (TBP)
3. Citizen Comments for items on the agenda
4. Update if any on responsible party(ies) for maintaining River Road, the road to the wastewater treatment plant
5. Capital Improvement Plan –
 - a. Revolving Loan Fund approval of letters
 - b. Update on review of Proposed CIP
 - c. Discussion on the impact of the Proposed CIP on member payments
6. Governance Guidelines, MOA and possible By-Laws
7. Rate Assessment Model Update:
 - Underwood under contract
 - Work Starts in July 2022
 - Work finishes in October 2022
 - Working with Belmont based on Departure of Town Administrator
8. Review of the escrow account, First payment to Underwood

9. Replacement Fund (HB 1339)

- House passed
- Senate passed with amendment
- Conference Committee

11. Other Business:

- a. Next Advisory Board Meeting – Should be July 21, 2022.

12. Adjournment

Item # 1
April Meeting Minutes

WINNIPESAUKEE RIVER BASIN PROGRAM

ADVISORY BOARD MEETING MINUTES

April 21, 2022

Members Present: The meeting was called to order by Wes Anderson (Laconia), chair, at 10:02 am. Sharon McMillin (DES), Rene Pelletier (DES), Ron White (DAS), Johanna Ames (Tilton), Justin Hanscom (Franklin), Alicia Jipson (Belmont), Ray Korber (Bay District), Trish Strafford (Sanbornton), and Meghan Theriault (Gilford) were present at that time either in person or via Zoom. Wes announced that a quorum was present.

Minutes: Justin moved, seconded by Meghan, to approve the March 14th meeting minutes. Minutes were approved as written.

Citizens Comments for Agenda Items: Wes indicated that there were no guests attending the meeting, so he moved to the next agenda item.

Monthly Summary Report: Sharon reviewed the *Monthly Summary Report* for March 2022 that was distributed by email prior to the meeting.

- Energy Efficiency Upgrades –The RAS pumps are scheduled for start-up in April. The projected date of substantial completion for all equipment is May 2022.
- Solids Handling Process Upgrades – The *Basis of Design Report* was distributed by email prior to the meeting. See the discussion below.
- WRBP Infrastructure O&M Responsibilities – There are no updates at this time.
- Replacement Fund – The NH House approved HB 1339 and it is now on the NH Senate agenda, referred to the Finance Committee. If approved by the NH Senate as written, then it would become effectively immediately per the language in the legislation.
- Rate Assessment Formula – Underwood is preparing procedures and spreadsheets which will help the WRBP staff update the O&M hybrid rate assessments for the FY23 invoices. FY23 is the first year of the 3-year phase in so only 1/3 of any changes to the percentages will be assessed.
- WRBP CIP Update – A CIP Subcommittee meeting was held on March 8th and an updated version is under review for consideration. Nine CWSRF pre-applications and SAG applications were submitted for WRBP equipment and infrastructure projects. Priority projects will be selected to move forward based on CWSRF rankings, principal forgiveness percentages, potential addition federal funding, and ability to execute within any completion time restrictions. Four CIP projects are eligible for ARPA funding and/or CWSRF loans. Energy efficiency upgrades (phase 2) will receive 100 percent ARPA funding up to \$250,000 and a utility incentive of \$60,900. The emergency generator replacements at multiple pump stations are eligible for 10 percent loan forgiveness and a 30 percent ARPA grant. Solids handling and SCADA upgrade projects are eligible for CWSRF loans with 10 percent principal forgiveness.
- River Street WWTF Access Road– This is a new monthly summary report line item to track progress toward delineating the responsibility for the maintenance, repair, and adjoining property relationships and obligations for River Street. The Advisory Board consensus on March 17th was not to impede the pending private property subdivision and to proceed with research

and a survey of River Street. The scope, budget, and schedule to complete property research and a survey of River Street is pending.

Sharon provided a summary for the *Basis of Design Report* for the Solids Handling Project that was distributed by email prior to the meeting. Alternative locations for the new equipment were evaluated, and it was determined that the new equipment would be installed in the existing digester gas and heat exchanger rooms, after some modifications to that space. Brown & Caldwell (BC) recommended this location and determined that two other locations were not as suitable. A new building will not be constructed adjacent to the digesters to house the new process equipment and new equipment will not be installed on the second floor of the existing operations building where the centrifuges are located. The existing processing area for the digesters (a largely subterranean building located between the digesters) will be reused for sludge thickening to reduce the travel distance of sludge that has created issues associated with fouled piping. The new heat exchangers will be installed in the same space as the old units. BC is ready to begin working on the preliminary design. They do not yet have a turn-around time for the 30 percent design and will have a new project manager leading that effort, but their technical team of experts will remain the same. Ray asked whether there is a turn-around time yet for the 50 or 60 percent design. Sharon explained that BC will provide updated timelines once the project design is under way.

Responsible Parties for River Street Maintenance — Justin did not believe that River Street is the former Dump Road. The property owner of the proposed subdivision has hired a surveyor. Ray asked Sharon whether the NHDOT would be involved. Sharon did not believe that it would, because there are no easements or rail remaining. Nor does it own any of the adjoining properties, including rights-of-way, or manage rights-of-way owned by other State agencies. Wes offered to make some phone calls to help with the property research effort.

CIP Update – Wes distributed an email from Sharon prior to the meeting. The email indicated that Eversource approved a \$60,900 incentive for the WWTF's automated aeration valve project funded through ARPA as an energy efficiency project. The email further indicated that the balance of this project (up to \$250,000) will be through an ARPA grant and that the upgrade should have no impact on member community costs. A spreadsheet showing impacts from the proposed CIP to member capital cost assessments was distributed prior to the meeting. Sharon was asked to provide FY22-23 operating budgets that cover admin, O&M and capital assessments and then the FY24-25 proposed operating budgets when they are available in the Fall.

Loan for the Solids Handling Upgrades – Phase 1: Wes distributed some handouts from the CIP by email prior to the meeting. He explained that it appeared, based upon the *Basis of Design Report*, that there will be an anticipated impact on debt service. Sharon noted that the CWSRF line item on the first page included the CWSRF loans for additional projects (i.e. the pump station generators and SCADA cybersecurity upgrades), and not just the solids handling upgrade. Wes agreed. However, he noted that there will be a spike through FY30, although there was no choice in the matter because the WWTF is 50 years old. Sharon agreed. She noted that more projects will likely be added to the CIP over the 10-year window. Given recent positive condition assessments, phase 2 and phase 3 of the solids handling

upgrades may not be necessary at all, may be deferred, or may not require the currently anticipated, significant scope and budget. The phased collection pipeline repairs targeting ductile iron forcemains will be expensive and currently are not eligible for CWSRF loans. She intends to continue to pursue such loans.

Governance Guidelines, MOA, and By-Laws Update: There are no updates at this time.

Rate Assessment Formula Update: Wes asked that Belmont provide Underwood with their information prior to Jeanne's retirement. Underwood cannot start work until June of on the project.

Review of the Escrow Account: There are no changes from last month.

Replacement Fund: See above.

Other Business: The WRBP Environmental Program Administrator will not be available from May 18th to an unspecified date. A CIP Subcommittee meeting was scheduled for May 6th at 1aam.

The meeting adjourned at 10:45 am. The next meeting will be held on May 17th at 10:00 am in Belmont Mill (4th floor), which is located at 14 Mill Street in Belmont. Both meetings may be partially via Zoom if a quorum is present in person.

The minutes were prepared by Pro-Temp Staffing.

Item # 2

WRBP Monthly Summary Report

Item #5

Capital Improvement Plan

Item # 5A
Revalving Loan fund letters



May 13, 2022

Kathie Bourret, CWSRF Federal Provisions Administrator
N.H. Department of Environmental Services
Wastewater Engineering Bureau
P.O. Box 95
Concord, NH 03302-0095

RE: Winnepesaukee River Basin Program (WRBP)
SCADA System and Cybersecurity Upgrades
Clean Water State Revolving Fund Loan Application

Ms. Bourret:

On behalf of the WRBP Advisory Board, I affirm the Advisory Board's support of the WRBP's SCADA System and Cybersecurity Upgrades and NHDES-WRBP's request to enter into an agreement to borrow money from the State Clean Water State Revolving Fund with a repayment term of fifteen years for the implementation of the project.

Sincerely,

Wesley B. Anderson, PE
Chairman, WRBP Advisory Board
Director of Public Works, City of Laconia

cc: Sharon McMillin, NHDES, WRBP - Environmental Program Administrator



May 13, 2022

Kathie Bourret, CWSRF Federal Provisions Administrator
N.H. Department of Environmental Services
Wastewater Engineering Bureau
P.O. Box 95
Concord, NH 03302-0095

RE: Winnepesaukee River Basin Program (WRBP)
Pump Stations Emergency Generator Replacements
Clean Water State Revolving Fund Loan Application

Ms. Bourret:

On behalf of the WRBP Advisory Board, I affirm the Advisory Board's support of the WRBP's Pump Stations Emergency Generator Replacements project and NHDES-WRBP's request to enter into an agreement to borrow money from the State Clean Water State Revolving Fund with a repayment term of twenty years for the construction of the project. We understand that this project also has an ARPA grant component, and the Advisory Board wishes to accept that funding.

Sincerely,

Wesley B. Anderson, PE
Chairman, WRBP Advisory Board
Director of Public Works, City of Laconia

cc: Sharon McMillin, NHDES, WRBP - Environmental Program Administrator

Department of Public Works
27 Bisson Avenue • Laconia • New Hampshire 03246
☎ 603-528-6379 • Fax: 603-527-1298
e-mail: publicworks@laconianh.gov

Item #56

Proposed CIP

WRBP Advisory Board Agenda Item
May 17, 2022

Topic: Impact of WRBP CIP plan on debt service beginning in FY2026

Discussion:

The Basis of Design Report for the Solids Handling Upgrades Project - Phase 1 has been completed. The report places the project at approximately the 30% design level. This means the estimated cost of the project still includes a large contingency which will be reduced as the design progresses.

The Basis of Design Report places the cost between \$3.3 million and \$13.2 million with the mostly likely cost including design approximately \$7 million.

The impact of the debt payments for this project will begin in State FY 2026. The debt service in FY2026 will go from approximately \$622,000 to \$1,291,000. Most member communities will see their share of the debt service double in FY2026.

Member communities should begin planning to make these payments in the State's FY 2026. These numbers do not include the force main replacement projects that may impact only one member community.

Fiscal Impact: Debt Service costs are presently funded by the WRBP member.

This report submitted by: WRBP Chair

Board Chair's proposed motions: None for discussion only.

Attachment 1A &1B	Estimated loan repayment schedule member communities w/out force main
Attachment 2A &2B	Capital Improvement Plan
Attachment 3A & 3B	Total debt service including Belmont only force main project

	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35	FY36	FY37	FY38	FY39	FY40
CIP Committed Priority Projects - Estimated Loan Repayment Schedule - Existing and New Member Community	\$ 561,273.20	\$ 633,613.31	\$ 541,173.40	\$ 621,760.17	\$ 1,291,066.94	\$ 1,210,123.70	\$ 1,183,330.46	\$ 1,156,537.21	\$ 854,273.76	\$ 837,750.05	\$ 821,226.35	\$ 804,702.65	\$ 929,896.93	\$ 913,373.31	\$ 646,373.07	\$ 590,316.67	\$ 487,360.00	\$ 437,250.00	\$ 429,300.00
% share																			
Bay District 2.08%	\$ 11,672.93	\$ 13,177.40	\$ 11,254.91	\$ 12,930.89	\$ 26,850.62	\$ 25,167.22	\$ 24,610.00	\$ 24,052.77	\$ 17,766.53	\$ 17,422.88	\$ 17,079.23	\$ 16,735.59	\$ 19,339.28	\$ 18,995.63	\$ 13,442.77	\$ 12,276.95	\$ 10,135.74	\$ 9,093.59	\$ 8,928.25
Belmont 5.11%	\$ 28,695.95	\$ 32,394.44	\$ 27,668.31	\$ 31,788.43	\$ 66,007.76	\$ 61,869.41	\$ 60,499.57	\$ 59,129.72	\$ 43,676.04	\$ 42,831.24	\$ 41,986.45	\$ 41,141.65	\$ 47,542.39	\$ 46,697.60	\$ 33,046.81	\$ 30,180.84	\$ 24,917.02	\$ 22,355.07	\$ 21,948.62
Franklin 22.27%	\$ 124,997.59	\$ 141,107.99	\$ 120,521.29	\$ 138,468.25	\$ 287,525.31	\$ 269,498.95	\$ 263,532.00	\$ 257,565.05	\$ 190,249.88	\$ 186,569.99	\$ 182,890.10	\$ 179,210.21	\$ 207,091.43	\$ 203,411.56	\$ 143,949.64	\$ 131,465.67	\$ 108,536.85	\$ 97,377.17	\$ 95,606.67
Gilford 10.75%	\$ 60,310.12	\$ 68,083.23	\$ 58,150.35	\$ 66,809.59	\$ 138,728.16	\$ 130,030.62	\$ 127,151.63	\$ 124,272.63	\$ 91,793.71	\$ 90,018.20	\$ 88,242.69	\$ 86,467.18	\$ 99,919.60	\$ 98,144.10	\$ 69,454.30	\$ 63,430.91	\$ 52,367.97	\$ 46,983.54	\$ 46,129.29
Laconia 40.55%	\$ 227,622.06	\$ 256,959.30	\$ 219,470.67	\$ 252,152.31	\$ 523,586.94	\$ 490,760.74	\$ 479,894.85	\$ 469,028.96	\$ 346,447.24	\$ 339,746.12	\$ 333,045.00	\$ 326,343.88	\$ 377,115.92	\$ 370,414.83	\$ 262,133.97	\$ 239,400.52	\$ 197,646.86	\$ 177,324.96	\$ 174,100.87
Meredith 6.76%	\$ 37,937.01	\$ 42,826.55	\$ 36,578.45	\$ 42,025.39	\$ 87,264.49	\$ 81,793.46	\$ 79,982.48	\$ 78,171.49	\$ 57,741.21	\$ 56,624.36	\$ 55,507.50	\$ 54,390.65	\$ 62,852.65	\$ 61,735.81	\$ 43,689.00	\$ 39,900.09	\$ 32,941.14	\$ 29,554.16	\$ 29,016.81
Northfield 4.25%	\$ 23,832.23	\$ 26,903.86	\$ 22,978.77	\$ 26,400.56	\$ 54,820.01	\$ 51,383.07	\$ 50,245.41	\$ 49,107.74	\$ 36,273.33	\$ 35,571.71	\$ 34,870.10	\$ 34,168.49	\$ 39,484.36	\$ 38,782.75	\$ 27,445.65	\$ 25,065.44	\$ 20,693.80	\$ 18,566.08	\$ 18,228.51
Sanbornlon 1.47%	\$ 8,268.32	\$ 9,333.99	\$ 7,972.23	\$ 9,159.38	\$ 19,019.18	\$ 17,826.78	\$ 17,432.08	\$ 17,037.38	\$ 12,584.62	\$ 12,341.21	\$ 12,097.79	\$ 11,854.37	\$ 13,698.66	\$ 13,455.24	\$ 9,521.96	\$ 8,696.17	\$ 7,179.48	\$ 6,441.29	\$ 6,324.18
Tilton 4.68%	\$ 26,264.08	\$ 29,649.15	\$ 25,323.54	\$ 29,094.50	\$ 60,413.88	\$ 56,626.24	\$ 55,372.48	\$ 54,118.72	\$ 39,974.68	\$ 39,201.47	\$ 38,428.27	\$ 37,655.06	\$ 43,513.37	\$ 42,740.17	\$ 30,246.23	\$ 27,623.14	\$ 22,805.41	\$ 20,460.57	\$ 20,088.56
DAS 2.08%	\$ 11,672.93	\$ 13,177.40	\$ 11,254.91	\$ 12,930.89	\$ 26,850.62	\$ 25,167.22	\$ 24,610.00	\$ 24,052.77	\$ 17,766.53	\$ 17,422.88	\$ 17,079.23	\$ 16,735.59	\$ 19,339.28	\$ 18,995.63	\$ 13,442.77	\$ 12,276.95	\$ 10,135.74	\$ 9,093.59	\$ 8,928.25
Total	\$ 561,273.22	\$ 633,613.33	\$ 541,173.41	\$ 621,760.18	\$ 1,291,066.96	\$ 1,210,123.73	\$ 1,183,330.48	\$ 1,156,537.23	\$ 854,273.77	\$ 837,750.07	\$ 821,226.37	\$ 804,702.66	\$ 929,896.95	\$ 913,373.33	\$ 646,373.08	\$ 590,316.68	\$ 487,360.01	\$ 437,250.01	\$ 429,300.01

Assumes current FY22 Debt % per member regardless of member use of project infrastructure

	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35	FY36	FY37	FY38	FY39	FY40
Capital Forcemain Replacement 30 year bond																			
Belmont Only - Forcemain \$6.75M for 2 miles and 2 river crossings exact length and budget for pipeline & crossings TBD by site investigations & alternatives analyses					\$ 461,250.00	\$ 453,375.00	\$ 445,500.00	\$ 437,625.00	\$ 429,750.00	\$ 421,875.00	\$ 414,000.00	\$ 406,125.00	\$ 398,250.00	\$ 390,375.00	\$ 382,500.00	\$ 374,625.00	\$ 366,750.00	\$ 358,875.00	\$ 351,000.00

1A

	FY41	FY42	FY43	FY44	FY45	FY46	FY47	FY48	FY49	FY50	FY51	FY52	FY53	FY54	FY55
CIP Committed Priority Projects - Estimated Loan Repayment Schedule - Existing and New Member Community	\$ 421,350.00	\$ 413,400.00	\$ 405,450.00												
% share															
Bay District	2.08% \$ 8,762.91	\$ 8,597.57	\$ 8,432.24												
Belmont	5.11% \$ 21,542.16	\$ 21,135.70	\$ 20,729.25												
Franklin	22.27% \$ 93,836.18	\$ 92,065.68	\$ 90,295.19												
Gilford	10.75% \$ 45,275.04	\$ 44,420.80	\$ 43,566.55												
Laconia	40.55% \$ 170,876.78	\$ 167,652.69	\$ 164,428.60												
Meredith	6.76% \$ 28,479.46	\$ 27,942.12	\$ 27,404.77												
Northfield	4.25% \$ 17,890.95	\$ 17,553.38	\$ 17,215.82												
Sanbornton	1.47% \$ 6,207.06	\$ 6,089.95	\$ 5,972.83												
Tilton	4.68% \$ 19,716.55	\$ 19,344.54	\$ 18,972.53												
DAS	2.08% \$ 8,762.91	\$ 8,597.57	\$ 8,432.24												
Total	100.00% \$ 421,350.01	\$ 413,400.01	\$ 405,450.01												
Assumes current FY22 Debt % per member regardless of member use of project infrastructure															
Capital Forcemain Replacement 30 year bond	FY41	FY42	FY43	FY44	FY45	FY46	FY47	FY48	FY49	FY50	FY51	FY52	FY53	FY54	FY55
Belmont Only - Forcemain S6 75M for 2 miles and 2 river crossings exact length and budget for pipeline & crossings TBD by site investigations & alternatives analyses	\$ 343,125.00	\$ 335,250.00	\$ 327,375.00	\$ 319,500.00	\$ 311,625.00	\$ 303,750.00	\$ 295,875.00	\$ 288,000.00	\$ 280,125.00	\$ 272,250.00	\$ 264,375.00	\$ 256,500.00	\$ 248,625.00	\$ 240,750.00	\$ 232,875.00

2A

WRBP CAPITAL IMPROVEMENTS PLAN

PROJECT	FUNDING	TOTAL 10-YEAR ESTIMATE	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31-40	PROJECT DESCRIPTION	
SCADA System/Cybersecurity/Telemetry Upgrades	CWSRF	\$1,112,400	\$95,000	\$520,000	\$497,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	SCADA hardware, software and programming upgrades for Windows 10 compatibility, operating system no longer supported and equipment is failing. Needs to be coordinated with the PLC and telemetry upgrades at the pump stations.	
Engineering and programming support Equipment including servers and firewalls		\$180,000	\$50,000	\$65,000	\$65,000								Design and specification of upgrades.	
Pump Stations PLC and Telemetry - Alternative Analyses and Retrofits (to be coordinated with SCADA Upgrades)		\$750,000		\$200,000	\$550,000								Implementation, including hardware deployment and programming.	
Alternatives evaluation - engineering		\$45,000	\$45,000										PLCs at the 14 WRBP pump stations will need to be retrofitted with supported PLCs and radio telemetry will need to be updated and reconfigured to be compatible with new PLCs' communication protocols.	
PLC and Radio Retrofits, design and construction oversight		\$261,000		\$255,000	\$6,000								Engineering evaluations and preliminary design prior to retrofits.	
CWSRF Principal forgiveness		-\$123,600				-\$123,600							Design, construction oversight, equipment procurement with contractor installation in order to maintain operations.	
Wastewater Process Optimization	CWSRF	\$91,000	\$91,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	10% SRF Principal forgiveness.	
Aeration System Upgrades Phase 1 - Blower (smaller unit) and Return Activated Sludge Pump Upgrade (bundled with aeration upgrade)		\$293,670	\$293,670										Wastewater process improvements and evaluations are on-going at the Franklin WWTP.	
Utility incentive		\$106,330	\$106,330										Smaller aeration blower to effectively deliver dissolved oxygen when reduced demand, reducing power costs. Energy audit recommendation so SRF principal forgiveness and utility incentives are available.	
CWSRF Principal forgiveness		-\$109,000	-\$109,000										Utility incentive of \$100K.	
Aeration System Upgrades Phase 2 - Automated valves for aeration bays with DO control	CWSRF/ARPA	\$0	\$40,000	-\$40,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50% SRF Principal forgiveness up to \$200K.	
Automated valves, sensors, and controls		\$250,000	\$40,000	\$210,000									Automated valves (9) for the aeration system to effectively deliver dissolved oxygen to needed aeration bays; reducing labor and power costs. Energy audit recommendation to address problematic and inefficient air distribution system. Up to \$250K ARPA grant.	
ARPA grant funding		-\$250,000		-\$250,000										
Solids Handling Upgrades - Phase 1	CWSRF	\$7,155,000	\$0	\$1,245,000	\$3,175,000	\$2,735,000	\$0	\$0	\$0	\$0	\$0	\$0	Solids Handling Master Plan recommendation to improve thickened sludge solids percentage and consistency. Estimates based Conceptual Level of Projects Viability class 5 estimate for addition of a rotating drum thickener and sludge holding tanks for processing waste activated sludge separately. As design proceeds, the project cost estimate will be refined.	
Design, Bidding and Resident Engineering		\$725,000		\$175,000	\$275,000	\$275,000							Bidding assistance and resident engineering services during construction.	
Thickening upgrades		\$420,000		\$220,000	\$200,000								Thickened WAS system to increase effective capacity and consistency of sludge to centrifuges.	
Primary Digester Mixers (2)		\$1,205,000			\$650,000	\$555,000							Installation of linear motion mixers installed on 2 primary digesters. Mixers can be retrofitted onto floating or new fixed covers.	
Digester and Building heating and gas management systems retrofit		\$5,600,000		\$850,000	\$2,050,000	\$2,700,000							Replace of deteriorating and leaking gas pipelines to meet current safety codes; new flare gas system installation. Estimate based on heat loop to Admin/Operations building and heat exchanger in existing footprint. No new building. Installation of new sludge heat exchangers and hot water boiler for digester and main building heating. Evaluations for outbuilding and tunnel dehumidification.	
CWSRF Principal forgiveness		-\$795,000				-\$795,000							10% SRF Principal forgiveness.	
Solids Handling Upgrades - Phase 2	CAP	\$2,400,000	\$0	\$0	\$0	\$0	\$200,000	\$1,100,000	\$1,100,000	\$0	\$0	\$0	Solids Handling Master Plan Conceptual Level of Projects Viability class 5 estimates in 2021.	
Dewatering System Replacement		\$2,400,000					\$200,000	\$1,100,000	\$1,100,000				Installation of new dewatering equipment as the centrifuges near the end of their remaining useful life. Centrifuges and viable alternatives will be reviewed.	
Solids Handling Upgrades - Phase 3	CAP	Forecast for FY38-40											\$3,900,000	Solids Handling Master Plan Conceptual Level of Projects Viability class 5 estimates.
Primary Digester Fixed Covers - 20 year planning horizon													\$1,650,000	Installation of new fixed covers - contingent on condition and remaining useful life determinations. Fixed covers may not be necessary for mixing upgrades or if deterioration does not warrant immediate retrofit.
Secondary Digester Fixed Covers - 20 year planning horizon													\$1,650,000	Installation of fixed covers on 2 secondary digesters - contingent on condition and remaining useful life determinations.
Secondary Digester Mixers - 20 year planning horizon													\$600,000	Installation of pump mixers installed on 2 secondary digesters. Mixers installed on new fixed covers only. Contingent on operations needs at the time of cover replacement.
Emergency Generator Replacements at Pump Stations	CWSRF/ARPA	\$918,000	\$345,000	\$610,000	\$245,000	-\$282,000	\$0	\$0	\$0	\$0	\$0	\$0	Replace original 40+ year old generators at 11 pump stations; estimated at \$65K each since no day tanks and < 600 gallon fuel tanks. Transfer switch replacement at 6 pump stations estimated at \$25K each and dead front transformer replacement at 8 pump stations. Replacement generator at the Winnisquam pump station includes, pad and fuel storage tank; estimate assumed sized similar to WWTP replacement.	
CWSRF principal forgiveness		\$1,530,000	\$345,000	\$610,000	\$245,000	-\$330,000								
ARPA grant funding		-\$153,000				-\$153,000								
		-\$459,000				-\$459,000							10% SRF Principal forgiveness. 30% ARPA grant funding.	
Phased Collection System Pipeline Projects (See Note 5)	CAP	\$15,770,000	\$20,000	\$600,000	\$3,075,000	\$3,075,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$9,720,000	Phased approach to replace, rehabilitate, or line the problematic ductile iron pipelines throughout the WRBP collection system. Initial focus will be on forcemains. Cost estimates are based on the \$600K to line 1,300 linear ft. in Laconia in 2019. Projects will vary based on site conditions and selected option. Debt Service repayment to be assessed to affected members. First priority is the 13,000 linear ft. (@2+- miles) WRBP Belmont Forcemain with two river crossings due to recent SSOs at an estimated \$6.75M+-. Additional estimates for FY26-40 are placeholder amounts at \$1.8M/FY. There are approximately 10 miles of ductile iron forcemain in the WRBP collection system to address after the Belmont forcemain is addressed.	
Phased Ductile Iron Pipeline Replacement, Rehabilitation, and Lining		\$15,770,000	\$20,000	\$600,000	\$3,075,000	\$3,075,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$9,720,000		
TOTAL ESTIMATED EXPENDITURES:		\$27,446,400	\$591,000	\$2,935,000	\$6,992,400	\$5,528,000	\$2,000,000	\$2,900,000	\$2,900,000	\$1,800,000	\$1,800,000	\$9,720,000		

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WRBP CAPITAL IMPROVEMENTS PLAN

PROJECT	FUNDING	TOTAL 10-YEAR ESTIMATE	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31-40	PROJECT DESCRIPTION
FUNDING SUMMARY		TOTAL 10-YEAR COST	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY29	FY31-40	
Funding Allocations													
Clean Water State Revolving Fund (CWSRF) Loan / Requires Available Source of Funds		\$11,366,000	\$880,000	\$2,585,000	\$4,041,000	\$3,860,000	\$0	\$0	\$0	\$0	\$0	\$0	Note that loans will be repaid by members based upon their respective use of the infrastructure involved in the work.
General Obligation Bonds - Capital Budget (CAP) with no guaranteed CWSRF Loan		\$18,170,000	\$20,000	\$600,000	\$3,075,000	\$3,075,000	\$2,000,000	\$2,900,000	\$2,900,000	\$1,800,000	\$1,800,000	\$13,620,000	Note that bonds will be repaid by members based upon their respective use of the infrastructure involved in the work.
WRBP Replacement Fund (RF) - See Note 3		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Note that the Replacement Fund will be reimbursed from members based upon their respective use of the infrastructure involved in the work unless offset from outside funding sources (ex. ARPA).
Totals:		\$29,536,000	\$900,000	\$3,185,000	\$7,116,000	\$6,935,000	\$2,000,000	\$2,900,000	\$2,900,000	\$1,800,000	\$1,800,000	\$13,620,000	
Other Funding Sources													
Independent Grants		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Insurance/FEMA		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Rebates/Utility Incentives - confirmed		-\$109,000	-\$109,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
CWSRF Principal Forgiveness - confirmed		-\$200,000	-\$200,000	\$0	-\$123,600	-\$948,000	\$0	\$0	\$0	\$0	\$0	\$0	
Other (specify below): Subject to funding availability													
Federal ARPA funding assistance - confirmed		-\$709,000	\$0	-\$250,000	\$0	-\$459,000	\$0	\$0	\$0	\$0	\$0	\$0	
SAG Potential funding - not included since contingent on future legislative approval		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Total Offsets:		-\$2,089,600	-\$309,000	-\$250,000	-\$123,600	-\$1,407,000	\$0	\$0	\$0	\$0	\$0	\$0	
TOTAL PROJECT FUNDING:		\$27,446,400	\$591,000	\$2,935,000	\$6,992,400	\$5,528,000	\$2,000,000	\$2,900,000	\$2,900,000	\$1,800,000	\$1,800,000	\$13,620,000	

REVISION DATE: DRAFT 3/9/2022

NOTES:

- The State Fiscal year is from July 1st to June 30th. State budgeting is done biennially.
- All dollar amount entries are presented in current year dollars (reflected by year provided in column #4). The annual rate impact to communities associated with committed debts will be presented to members in a separate document that will be updated when the commitment is formalized.
- The WRBP Replacement Fund (RF) established at RSA 485-A:51 collects funds from members based upon the replacement cost of depreciable WRBP assets. This fund is for projects leading to, or involving, repairs and replacement of major equipment and infrastructure which cannot be absorbed as regular budgetary items. Engineering and consulting contracts typically use Replacement Fund for work (alternatives analyses, preliminary design) conducted prior to capital project funding.
- CIP Program Summary to be updated by the Advisory Board CIP Subcommittee annually and presented to the full board. Previous Summaries shall be archived in order to provide information on completed projects and prior commitments.
- The CIP uses placeholder amounts for certain projects included in the CIP. As such projects are evaluated further or prioritized for actual implementation, a more comprehensive cost estimate will be incorporated into the CIP.

CIP SUBCOMMITTEE MEMBERS: Wesley Anderson (Laconia, Subcommittee Chairman)
 Justin Hanscom (Franklin)
 Ray Korber (KVP, LLC Consultant for Bay District)
 Meghan Theriault (Gilford)

WRBP REPRESENTATIVE: Sharon McMillin (WRBP Administrator)

ADVISORY BOARD CHAIRPERSON: Wesley Anderson (Laconia)
 ADVISORY BOARD VICE CHAIRPERSON: Ray Korber (Bay District)

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CWSRF Loans	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35
Existing Debt	\$ 702,991.20	\$ 687,331.31	\$ 671,671.40	\$ 656,011.50	\$ 640,351.60	\$ 624,691.70	\$ 609,031.79	\$ 593,371.87	\$ 302,241.76	\$ 296,851.39	\$ 291,461.02	\$ 286,070.65	\$ 280,680.27	\$ 275,289.98
SAG Offsets	\$ (141,718.00)	\$ (141,718.00)	\$ (141,718.00)	\$ (141,718.00)	\$ (141,718.00)	\$ (141,718.00)	\$ (141,718.00)	\$ (141,718.00)	\$ (141,718.00)	\$ (141,718.00)	\$ (141,718.00)	\$ (141,718.00)	\$ (141,718.00)	\$ (141,718.00)
New CIP Debt Schedule	\$ -	\$ 88,000.00	\$ 11,220.00	\$ 107,466.67	\$ 792,433.33	\$ 727,150.00	\$ 716,016.67	\$ 704,883.33	\$ 693,750.00	\$ 682,616.67	\$ 671,483.33	\$ 660,350.00	\$ 649,216.67	\$ 638,083.33
CIP Grand Total - Repayment Schedule (includes principal forgiveness)	\$ 561,273.20	\$ 633,613.31	\$ 541,173.40	\$ 621,760.17	\$ 1,291,066.94	\$ 1,210,123.70	\$ 1,183,330.46	\$ 1,156,537.21	\$ 854,273.76	\$ 837,750.05	\$ 821,226.35	\$ 804,702.65	\$ 929,896.93	\$ 913,373.31
Bonds - assume 3.5% interest														
Belmont pipeline replacement (\$6.75M)					\$ 461,250.00	\$ 453,375.00	\$ 445,500.00	\$ 437,625.00	\$ 429,750.00	\$ 421,875.00	\$ 414,000.00	\$ 406,125.00	\$ 398,250.00	\$ 390,375.00
CIP Grand Total - CWSRF & Bonds	\$ 561,273.20	\$ 633,613.31	\$ 541,173.40	\$ 621,760.17	\$ 1,752,316.94	\$ 1,663,498.70	\$ 1,628,830.46	\$ 1,594,162.21	\$ 1,284,023.76	\$ 1,259,625.05	\$ 1,235,226.35	\$ 1,210,827.65	\$ 1,328,146.93	\$ 1,303,748.31

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FY36	FY37	FY38	FY39	FY40	FY41	FY42	FY43
\$ 19,423.07	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ 626,950.00	\$ 590,316.67	\$ 487,360.00	\$ 437,250.00	\$ 429,300.00	\$ 421,350.00	\$ 413,400.00	\$ 405,450.00
\$ 646,373.07	\$ 590,316.67	\$ 487,360.00	\$ 437,250.00	\$ 429,300.00	\$ 421,350.00	\$ 413,400.00	\$ 405,450.00

FY36	FY37	FY38	FY39	FY40	FY41	FY42	FY43	FY44	FY45	FY46	FY47	FY48	FY49	FY50	FY51	FY52	FY53	FY54	FY55
\$ 382,500.00	\$ 374,625.00	\$ 366,750.00	\$ 358,875.00	\$ 351,000.00	\$ 343,125.00	\$ 335,250.00	\$ 327,375.00	\$ 319,500.00	\$ 311,625.00	\$ 303,750.00	\$ 295,875.00	\$ 288,000.00	\$ 280,125.00	\$ 272,250.00	\$ 264,375.00	\$ 256,500.00	\$ 248,625.00	\$ 240,750.00	\$ 232,875.00
\$ 1,028,873.07	\$ 964,941.67	\$ 854,110.00	\$ 796,125.00	\$ 780,300.00	\$ 764,475.00	\$ 748,650.00	\$ 732,825.00	\$ 319,500.00	\$ 311,625.00	\$ 303,750.00	\$ 295,875.00	\$ 288,000.00	\$ 280,125.00	\$ 272,250.00	\$ 264,375.00	\$ 256,500.00	\$ 248,625.00	\$ 240,750.00	\$ 232,875.00

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Item # 8

Escrow Account

As of June 11, 2022

Escrow Cost Tracking Sheet

Budget Tracking sheets

Funds Available \$ 51,900.00

Invoice #	Date of Invoice		Invoice Amount	Funds remaining
Road Map Development				
Invoice # 1	5/22/2018		\$ 2,858.00	\$ 49,042.00
Invoice # 2	6/20/2018		\$ 6,890.18	\$ 42,151.82
Invoice #3	6/30//2018		\$ 6,958.00	\$ 35,193.82
Invoice #4	8/20/2018		\$ 2,656.00	\$ 32,537.82
Road Map Phase 1				
<i>Carry Over from Previous Phase</i>				\$ 32,537.82
<i>Escrow for this phase</i>				\$ 65,000.00
<i>Total Available</i>				\$ 97,537.82
Invoice #1-1	20-Sep-18	79111	\$ 800.00	\$ 96,737.82
Invoice# 1-2	18-Oct-18	79407	\$ 896.00	\$ 95,841.82
Invoice #1-3	15-Feb-19	80548	\$ 924.00	\$ 94,917.82
Invoice #1-4	15-Mar-19	80800	\$ 759.00	\$ 94,158.82
Invoice #1-5	6/10/2019	81583	\$ 396.00	\$ 93,762.82
Invoice #1-6	7/18/2019	82002	\$ 330.00	\$ 93,432.82
Invoice #1-7	8/15/2019	82241	\$ 66.00	\$ 93,366.82
Invoice #1-8	9/17/2019	82524	\$ 1,584.00	\$ 91,782.82
Invoice 1-9	10/28/2019	82912	\$ 396.00	\$ 91,386.82

