

November 7-9, 2023

WWDC/SWC JOINT MEETING

RECOMMENDATIONS NOTEBOOK





WYOMING WATER DEVELOPMENT COMMISSION

JOINT MEETING: WWDC\SWC
Wyoming Oil & Gas Meeting Room
2211 King Boulevard | Casper, WY 82601
November 7-9, 2023

Livestream is available on the Legislature's website: www.wyoleg.gov.
To provide public comment for this meeting, or to view the Select Water
Committee agenda, please visit the Legislature's website.

WORKSHOP MEETING AGENDA: TUESDAY, NOVEMBER 7, 2023 | 1:30 P.M.

- 1. Call to Order**
- 2. Roll Call**
- 3. High Savery Reservoir Lands Grazing**
- 4. Critical Aging Irrigation Infrastructure Assessment, Level I Study**
 - Jay Schug and Jill Pehl, Trihydro Corporation, Laramie, WY
- 5. State of Wyoming Cloud Seeding Program**
 - a) Seeding Operations Overview**
 - Julie Gondzar, WWDO Program Manager
 - b) Operations Hydrological Assessment, Medicine Bow & Sierra Madre Mountain Ranges, Level II Study**
 - Sarah Tessendorf, National Center for Atmospheric Research (NCAR), Boulder, CO
- 6. New Funding Applications and Amendments – Preliminary Review (A)**
- 7. Discussion**
- 8. Adjourn**

JOINT MEETING AGENDA: WEDNESDAY, NOVEMBER 8, 2023 | 8:30 A.M.

**Action Item*

- 1. Call to Order**
- 2. Pledge of Allegiance**
- 3. Recognition of members present to establish a quorum**

WYOMING WATER DEVELOPMENT COMMISSION

- *WWDC 4. Approval of Minutes (B)**
 - October 5, 2023: WWDC Regular Meeting
- *WWDC 5. Planning Project Amendments (C)**
 - Leavitt Reservoir Expansion Final Design, Amendment No. 3
- *WWDC/SWC 6. Planning Project Contract Approval (D)**
 - Green River\Little Snake River Basins Conveyance Loss, Level I Study
- *WWDC 7. 2024 Funding Recommendations – New Development (See Attachment)**
 - Account I: Level III, II, I
- *WWDC 8. 2024 Funding Recommendations – Dam and Reservoir Program (See Attachment)**
 - Account III: Level III

SELECT WATER COMMITTEE MEETING AGENDA: NOVEMBER 8, 2023 | IMMEDIATELY FOLLOWING JOINT MEETING AGENDA

- 9. Water Exchange and Transfer**
- 10. High Savery Reservoir Grazing Lease**
- 11. Supplemental Water Bill Discussion**
- 12. Adjourn**

JOINT MEETING AGENDA: THURSDAY, NOVEMBER 9, 2023 | 8:30 A.M.

- *WWDC 13. 2024 Funding Recommendations – Rehabilitation Program (See Attachment)**
 - Account II: Level III, I
 - *WWDC/SWC 14. Construction Manager at Risk Construction Delivery Method (E)**
 - Cory Foreman, HDR, Inc.
 - Goshen ID Tunnel Rehabilitation
 - LaPrele ID Rehabilitation (LaPrele Dam)
 - *WWDC 15. Other Items Requiring Commission Action**
 - 16. Discussion**
 - 17. Future Meetings Schedule (F)**
 - 18. Adjourn**
-

Attachment to the Agenda

2024 Water Development Program Funding Recommendations

New Development Program – Account I – Wednesday, November 8th, 2023

Level III Projects

- Big Horn Regional JPB Lucerne Tank and Pump Station 2024 **(A)**
- Cloud Seeding: Medicine Bow & Sierra Madre Mountain Ranges 2025 (aerial) **(B)**
- Cloud Seeding: Wind River & Sierra Madre Mountain Ranges 2025 (ground-based) **(C)**
- Skyline ISD Well Connection 2024 **(D)**

Level III Projects – Amendments

- Arapahoe Water Supply 2016 **(E)**
- Buffalo Wells and Transmission 2019 **(F)**
- Clearmont Well Connection 2019 **(G)**
- Gillette Madison Pipeline **(H)**
- Happy Valley Water Transmission and Storage 2023 **(I)**
- Lander Storage Tanks and Pump Station 2019 **(J)**
- Lander Well and Transmission Pipeline 2021 **(K)**
- Laramie North Side Tank **(L)**
- Sheridan Area Water Supply Transmission 2020 **(M)**
- Sheridan Northeast Transmission Main Extension 2023 **(Mc)**
- Small Water Project Program – New Development **(N)**

Level II Projects

- Burns Groundwater Supply **(O)**
- Cody Area Evaluation 2024 **(P)**
- Greybull Water System Improvements **(Q)**
- Hot Springs County Supply Evaluation **(R)**

Level II Projects - Amendments

- Pavillion Groundwater Supply **(S)**

Level I Projects

- Alpine Water Master Plan **(T)**
- Bairoil Water Master Plan **(U)**
- Chugwater Water Master Plan **(V)**
- Douglas Water Master Plan **(W)**
- GR/RS/SC JPWB Regional Water Master Plan **(XYZ)**
- Hudson Water Master Plan **(A2)**
- Salt River Watershed Study **(B2)**
- Shoshone Municipal Pipeline Regional Water Master Plan **(C2)**
- Sinclair Water Master Plan **(D2)**

General/Other

- UW Office of Water Programs **(E2)**
- UW Water Research Program **(F2)**
- 2024 Account I Transfer **(G2)**

Dam and Reservoir Program – Account III – Wednesday, November 8th, 2023

Level III Projects – Amendments

- Leavitt Reservoir Expansion (**H2**)
- Middle Piney Reservoir (**I2**)

General/Other

- Sponsor's Contingency Fund - Account III (**J2**)

Rehabilitation Program – Account II – Thursday, November 9th, 2023

Level III Projects

- Bridger Valley JPB Tank Replacement 2024 (**K2**)
- Dayton Water System Rehabilitation 2024 (**L2**)
- Deaver ID Laterals 2024 (**M2**)
- Dry Creek ID Phase V 2024 (**Mc2**)
- Hanover ID Bighorn River Flume Replacement 2024 (**N2**)
- Kirby Ditch ID Pipeline Phase II 2024 (**O2**)
- Laramie Dowlin Diversion Rehabilitation 2024 (**P2**)
- Lovell Bench Lateral 2024 (**Q2**)
- Ranchester Transmission Line 2024 (**R2**)
- Wheatland Tank Replacement 2024 (**S2**)

Level III Projects – Amendments

- Austin-Wall Reservoir Rehabilitation 2019 (**T2**)
- Eden Valley ID System Improvements 2019 (**U2**)
- Interstate Diversion Structure Rehabilitation 2019 (**V2**)
- Owl Creek ID System Improvements (**W2**)
- Wind River Inter-Tribal Council Rehabilitation 2019 (**XYZ2**)

Level I Projects

- Big Horn Canal ID Master Plan (**A3**)
- Elk Canal Master Plan (**B3**)
- Horse Creek Conservation District Master Plan (**C3**)
- Midvale ID Master Plan (**D3**)
- Powder River ID Master Plan (**E3**)
- Strawberry Canal Master Plan (**F3**)

LEVEL III PROJECTS

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Big Horn Regional JPB
Lucerne Tank and Pump Station 2024

Program: New Development

Project Type: Municipal

County: Hot Springs

Sponsor: Big Horn Regional Joint Powers Board

WWDO Recommendation: Level III

Proposed Budget: \$143,300
(Pre-Construction Only)¹

Current Recommendation:

WWDC Grant ² (50%)	\$ 143,300
<u>Sponsor³ (50%)</u>	<u>\$ 143,300</u>
Total	\$ 286,600

Construction Only Recommendation:

WWDC Grant ² (50%)	\$ 1,659,700
<u>Sponsor³ (50%)</u>	<u>\$ 1,659,700</u>
Total	\$ 3,319,400

Funding for Total Project:

WWDC Grant ²	\$ 1,803,000
<u>Sponsor³</u>	<u>\$ 1,803,000</u>
Total	\$ 3,606,000

¹ Pre-Construction costs consist of: Design, Bidding Documents, Access Permits, Easements, and Title Opinion

² Not to exceed 50% of eligible project costs

³ Sponsor or other funding source

Project Manager: Russell

Project Description: A new storage tank, transmission main, and pump station.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2017	LII Big Horn Regional Southern Water Supply Study	\$ 180,000
2020	LIII Big Horn Regional Transmission 2020	\$ 4,361,700
2021	LII Big Horn Regional Transmission Study	\$ 146,000

2. Describe existing water supply using information in the application.

The Big Horn Regional System currently has 8 wells, averaging approximately 3,800 feet deep, into the Madison Formation. The total yield from all wells is in excess of 5,000 GPM.

3. Summarize the request.

Funding for pre-construction costs for a 250,000 gallon tank near the Town of Kirby and the associated transmission line to the tank. Funding to complete the construction of this tank and pipeline will be considered once the design is completed to at least 50% and all easements and land access agreements are in place.

The Sponsor also requested funding related to a separate 12 inch, 30,500 LF transmission line to the Worland airport. The costs related to that pipeline exceed current funding available to the WWDC. Due to the expense of that Project, and the relatively low population served, the WWDO is not recommending funding at this time. The WWDO recommends the Sponsor look for matching funds elsewhere as well as value engineering options to reduce the overall cost and funding request from the WWDC before bringing this Project back to the WWDC.

Prior to making a final decision, WWDO staff discussed the above information with the Sponsor. The Sponsor indicated that the tank near Kirby was their highest priority of the two separate projects. Therefore, staff moved forward with the recommendation as presented.

4. Summarize the reasons for the request.

The recently completed Big Horn Regional Transmission Level II Study identified this area as needing service improvements, particularly for peak flows, for customers in Hot Springs County, including Kirby and Lucerne.

This Project would also be required if Owl Creek decides to change their source of water from the Town of Thermopolis, which causes repeated violations due to high disinfection byproducts, to Big Horn Regional. Furthermore, this Project would allow for other districts such as Red Lane and South Thermopolis to acquire higher quality water from Big Horn Regional. Regardless of whether or not these other Districts join Big Horn Regional, the Project is needed for Big Horn's current service areas.

Estimated Level III WWDC Eligible Costs:

Preparation of Final Designs and Specifications	\$ 242,600	
Site Access Permit Fees (BOR, USFS, etc.)	\$ 12,000	
Title Opinion	\$ 5,000	
Acquisition of Access and Rights of Way	<u>\$ 27,000</u>	
Pre-Construction Costs (Subtotal # 1)		\$ 286,600
Cost of Project Components		
Transmission Main	\$ 560,000	
Connections to Existing Water Main	\$ 16,000	
Pump Station	\$ 650,000	
250,000 Gallon Tank	\$ 1,000,000	
SCADA	\$ 40,000	
Roads	<u>\$ 160,000</u>	
Construction Cost (Subtotal #2)		\$ 2,426,000
Construction Engineering Costs (Subtotal # 2 x 10%)		<u>\$ 242,600</u>
Components and Engineering Costs (Subtotal # 3)		\$ 2,668,600
Contingency (Subtotal #3 x 15%)		<u>\$ 400,290</u>
Construction Cost Total (Subtotal #4)		<u>\$ 3,068,890</u>
Inflation Costs (2yrs @ 4% per year)		<u>\$ 250,421</u>
Subtotal #5		\$ 3,319,311
Total Project Costs (Subtotal #1 + Subtotal #5)		\$ 3,605,911
Total Project Costs Rounded		\$ 3,606,000
Level III Recommended Funding @ 50% Grant – Total Costs:		\$ 1,803,000
Level III Recommended Funding @ 50% Grant – Pre-Construction Only:		\$ 143,300

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information

a. Population (2020 Census) Unknown – system is a regional system and census areas do not exactly correlate with regional area (Current Estimate) 17,740

b. Does the entity have a comprehensive planning boundary? No
If so, what is the estimated additional population that could be served in the future? N/A

	Pre-Project	Post Project
c. Taps served within the entity boundaries?	7,096	7,096
d. Taps outside the entity boundaries?	0	0

e. Names of other water systems served? Greybull, Basin, Manderson, Burlington, Worland, South Big Horn, Washakie Rural, Kirby, Lucerne, Wyoming Boys' School

2. Water Usage (Potable water system only)	Pre-Project	Post Project
a. Total number of gallons produced by the water sources annually:	1,140MG	1,140MG
b. Gallons used <u>per capita</u> per day:		
Average Day:	160 gal	160 gal
Peak Day:	424 gal	424 gal
3. System capacity (Potable water system only):	Pre-Project	Post-Project
a. Maximum capacity of the water supply system		
Acre feet per day:	40.46	40.46
Gallons per day:	13.18 MGD	13.18 MGD
b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.):	Transmission	Transmission
c. Increased capacity needed:		
Acre feet per day	9.66	9.02
Gallons per day	3,146,400	2,939,040
(Note, if Owl Creek, Red Lane, and South Thermopolis were to join Big Horn Regional, increased capacity needed would be 3,760,000 gal/day (11.54 AF/day) pre-project and 3,552,500 gal/day (10.90 AF/day) post-project.)		
d. Estimated system water losses (percentage):	5%	5%
4. Does the entity have an independent raw water irrigation system? No		
a. Raw water system capacity (acre feet per day & gallons per day):	0.00	
b. Average annual raw water usage (acre feet & gallons):	0.00	
5. Rates	Pre-Project	Post-Project
a. Tap fees:		
Residential:	\$ NA	\$ NA
Commercial:	\$ NA	\$ NA
This is a regional water distributor to other Districts/Municipalities. The Other water Districts/Municipalities provides taps and water sales to individuals, businesses, etc.		
b. Average monthly water bill: (Note: See Water Rate information for more details)		
c. Water Rates		
Big Horn Regional JPB does not supply water to users directly; they wholesale water to independent Districts/Municipalities serving individual users. Pre-project monthly rates = \$11.50/EDU + \$1.05/1000gal. Post-project monthly rates = \$11.90/EDU + \$1.05/1000gal.		

6. Financial Statement	Pre-Project	Post-Project
Annual revenues generated from water sales:	\$ 979,284	\$ 1,003,920
Annual revenues from tap fees:	\$ 0	\$ 0
Annual revenues from other sources:	<u>\$ 171,600</u>	<u>\$ 178,440</u>
Total annual revenues:	\$ 1,150,884	\$ 1,182,360

Annual budget for operation and maintenance expenses:	\$ 673,135	\$ 681,548
Annual payments for debt retirement:	\$ 392,297	\$ 459,058
Annual payments to a repair and replacement fund:	\$ 108,650	\$ 110,823
Annual payments to an emergency fund:	\$ 0	\$ 0
Annual payments for other purposes:	<u>\$ 83,300</u>	<u>\$ 85,000</u>
Total annual payments:	\$ 1,257,382	\$ 1,336,429

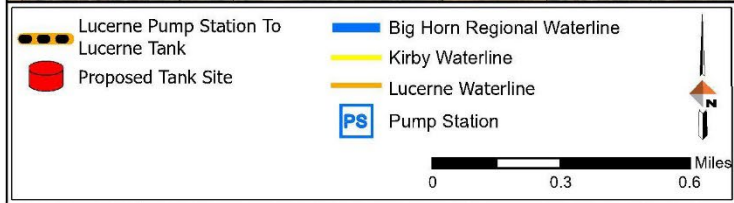
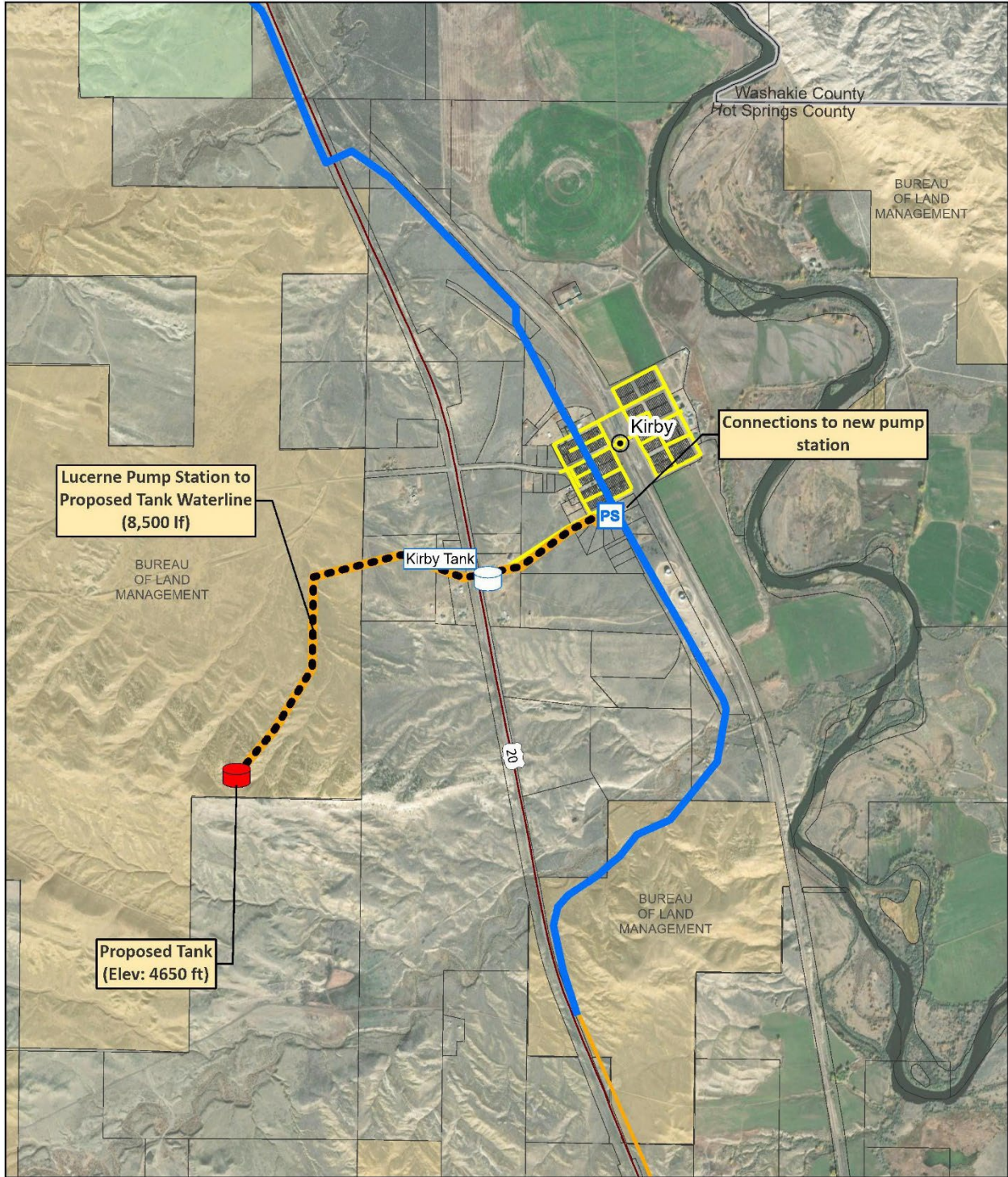
(Note: during past fiscal year the JPB experienced higher repair costs than budgeted for and used money from reserve accounts to cover the shortfall. Rates may need to be re-evaluated post-project if debt retirement and O&M remain as high as expected.)


Balance in repair and replacement fund:	\$ 602,139	\$ 702,139
Balance in emergency fund:	\$ 0	\$ 0
Annual cost of water quality testing:	\$ 5,000	\$ 5,000

B. COMPARISON WITH OPERATING CRITERIA

1. Project Priority according to the Criteria? Account I, Priority 3 - Level III transmission pipeline and Priority 4 - Level III potable water storage tanks
2. Is the project supported by the City Council or County Commission, which has jurisdiction over the project area? Yes.
3. Will the project serve at least 15 water taps? Yes Number of taps This is a regional system that supplies water to other distributors, not to individual taps; approximately 222 taps would be served, with the potential of 200 more switching to this system.
4. Is the sponsor under any federal (EPA) mandates to improve your system? (eg. Administrative orders, violations, actions taken): No (Note: Owl Creek, which is considering tapping into Sponsor, has had multiple violations for high disinfection byproducts.)
5. Does anyone in the service area haul water? Yes
6. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they: RUS and SRF
7. Is water metered? Yes Are billings based on meter readings? Yes
8. What is monthly water bill for 5,000 gallons? \$16.75 20,000 gallons? \$32.50 Note, this is the bulk water rate to other distributors, individual taps pay this cost, plus all local costs related to the local distribution system. With the local costs added, approximate monthly water bill for 5,000 gallons is \$50-\$95 and for 20,000 gallons is \$120-\$300.
9. Theoretical reasonable monthly water bill (\$60,805 (AMHI) x 2.5%/12) \$126.68
10. What water conservation measures are employed by the sponsor? Supplied Districts/Municipalities have tiered water rates.

- 11.** Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds and emergency funds? Yes
- 12.** Will the project consider regional solutions? Project would be part of an existing regional system.
- 13.** Can the project be delayed or staged? Yes – will be split between pre-construction and construction phases Should it be? Yes – will be split between pre-construction and construction phases, construction funding after all easements and rights-of-way in place and design to at least 50%.
- 14.** Basis for the funding recommendation: Project is needed to ensure proper service levels and to prepare for the addition of other service areas to the system. Project will be phased into pre-construction and construction stages to ease burden on WWDC budgets.



Schedule B - Lucerne pumpstation, tank and transmission main	
BHR 2023 Capacity Improvements	
	Date: August 2023
Figure 3	

RESOLUTION #2023-02
Lucerne Tank Project and/or South Transmission Project

Resolution made on July 19th, 2023, at regular open meeting of the Big Horn Regional Joint Powers Board (“BHRJPB”).

The Big Horn Regional Joint Powers Board considered making application to sponsor a WWDC Level III Construction Project for the Lucerne Tank Project and for the South Transmission Project.

Upon consideration, the Board resolved to make application to sponsor a Level III funding application to be made on or before September 1st for both/each project as may be necessary.

This Resolution #2023-02 was adopted in open meeting by unanimous vote of the Board on July 19, 2023.

The director is authorized to sign such documents as may be necessary or convenient to make application to the WWDC to sponsor a Level III Construction Project for the Lucerne Tank Project and for the South Transmission Project and together for necessary funding.

ATTEST:

Secretary



Chairman



Treasurer

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Cloud Seeding: Medicine Bow and Sierra Madre Mountain Ranges 2025 (Aerial)

Program: New Development

Project Type: Winter Snowpack Augmentation

County: Albany and Carbon

Sponsor: WWDO

WWDO Recommendation: Level III

Proposed Budget: \$825,000

Project Manager: Julie Gondzar

Project Description

The WWDO requests financial support from the Wyoming State Legislature for the continuation of aerial cloud seeding operations targeting the Medicine Bow and Sierra Madre Mountain Ranges, located in southeast Wyoming within the North Platte River Basin and Little Snake River Basin (western flanks of the Sierra Madres), for the 2024-2025 winter season. This would be the 7th year of operational seeding targeting these mountain ranges. This project also includes a second-priority extension of operations over Colorado's Never Summer Mountains, benefiting Wyoming's Upper North Platte River Basin, paid for by the Jackson County Water Conservancy District in Walden, Colorado. This project is focused on mountain snow augmentation to increase streamflow, as part of a strategy for flow enhancement within the affected basins.

The WWDO has been successful in securing a long-standing local funding partner for the current winter season and past season operations. The City of Cheyenne Board of Public Utilities has consistently made generous contributions to the project, as they have a vested interest in additional runoff and water supplies coming from the Medicine Bow and Sierra Madre Mountain Ranges. The WWDO anticipates future contributions from this funding partner.

Research and Support

Based on cloud seeding impact analyses from the Wyoming Weather Modification Pilot Program (completed in 2014), the Medicine Bow/Sierra Madre Final Design and Permitting Study (completed in 2018), and a recent hydrological assessment study funded by the 2022 Wyoming State Legislature, the effects of aerial cloud seeding and a cost benefit analysis have been estimated. Results from the hydrological assessment study will be presented at the WWDC Workshop Meeting on November 7, 2023. While the study looked at all four seasons of WWDO's aerial operational cloud seeding, the 2019-2020 winter season was selected for a more intensive analysis. Although results focus on only one year (and does not account for season-to-season atmospheric variability), it provides an updated quantitative look at enhanced precipitation and streamflow from aerial cloud seeding in the target area.

Other states have found cloud seeding to be a good investment based on their own research (e.g.: SNOWIE Project) and long-standing aerial operations. Additionally, other nearby states (Idaho and Utah) have recently appropriated millions of dollars through their respective state legislative processes for future cloud seeding efforts. This is in direct response to the current state of the science (physical evidence of microphysical changes in cloud properties), the need for water, and evidence that indicates cloud seeding efforts are beneficial and cost effective as a water management tool.

Medicine Bow and Sierra Madre Mountain Ranges Winter 2024-2025 Estimated Budget

The WWDO is focused on continuing aerial cloud seeding over the Medicine Bow and Sierra Madre Mountain Ranges for the winter season of 2024-2025. Funds are being requested for the operations consultant to prepare operational forecasts, provide decision support, operate one aircraft, maintain equipment, and conduct aerial seeding operations across southeast Wyoming.

Winter 2024-2025 Operations Budget	\$ 875,000
Anticipated Cheyenne Board of Public Utilities Local Funding Contribution	- \$ 50,000
Project Total Requested Appropriation	\$ 825,000

Current Winter Cloud Seeding Operations in the Medicine Bow and Sierra Madre Mountains:

Aerial cloud seeding operations for the current 2023-2024 winter season were funded by the 2023 Wyoming State Legislature (in the “Omnibus Water Bill - Construction”), with additional contributions from the City of Cheyenne Board of Public Utilities. Operations, utilizing one aircraft will begin on November 1, 2023. This project includes a second phase to extend cloud seeding over the western slope of the Never Summer Mountains in Colorado (as a second priority to Wyoming’s target area), with all operational expenses paid for by the Jackson County Water Conservancy District. Any increase in runoff produced through cloud seeding is considered additional “system” water, benefiting all water users in the North Platte River Basin.



As proposed in this recommendation, aerial cloud seeding would continue during the winter of 2024-2025 across the Medicine Bow and Sierra Madre Mountain Ranges.

Important Facts about Cloud Seeding:

- Cloud seeding is one of many tools to manage water resources, and is relatively inexpensive.
- Airborne cloud seeding, especially over more complex terrain like the Medicine Bow and Sierra Madre Mountains, is expected to be less expensive as compared to ground-based cloud seeding (*Medicine Bow/Sierra Madre Final Design and Permitting Study, 2018*).

- Cloud seeding has been utilized since the 1940's, however, incredible advances in research have been made within the past 15 years. The cloud seeding community views the WWDO's Wyoming Weather Modification Pilot Study (completed in 2014) as the forefront of new innovative research, and one of the most recent cutting-edge studies (Idaho Power Company's SNOWIE Project) actually builds on Wyoming's original Pilot Study.
- Winter cloud seeding is a technique to naturally increase the amount of ice nuclei within a cloud, allowing ice formation (and ultimately snow formation) to begin sooner.
- Studies have shown that the use of Silver Iodide in cloud seeding is safe, as it is a natural salt-compound. Silver is widespread in the natural environment, and sampling within cloud seeding target areas found silver to be undetectable above naturally-occurring background levels. Silver from cloud seeding is incredibly hard to find, even with the most advanced equipment.
- Extra Area Effects: The theory that cloud seeding reduces moisture downwind is a common misunderstanding. Long-term studies (44+ years) consistently show no precipitation decreases resulting from seeding. In fact, many studies show the potential for a slight increase downwind.
- Cloud seeding allows for an incremental increase in mountain snowpack, and is not the initial cause of springtime flooding events. Every year, the project must adhere to a strict suspension criteria. One of the thresholds for suspension is if snowpack reaches a specific above-normal level.

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Cloud Seeding: Wind River & Sierra Madre Mountain Ranges 2025 (Ground-Based)

Program: New Development

Project Type: Winter Snowpack Augmentation

County: Fremont, Sublette, Carbon

Sponsor: WWDO

WWDO Recommendation: Level III

Proposed Budget: \$298,651

Project Manager: Julie Gondzar

Project Description

The WWDO requests partial financial support from the Wyoming State Legislature for the continuation of cloud seeding operations over the Wind River Mountains and west slope of the Sierra Madre Mountains, for the 2024-2025 winter season. This project represents the continuation of snow augmentation efforts as part of a larger strategy for flow enhancement within Wyoming's drainages of the larger Colorado River Basin.

Since 2014, ground-based cloud seeding operations have been funded in part by the Wyoming State Legislature in each session's "Omnibus Water Bill - Construction." Funding for this target area has consistently been a cost share between the State of Wyoming and other interested water users. Wyoming's cost share for the 2023-2024 season was capped at 37%, with 63% of remaining project funds required from other funding partners.

This cloud seeding project has operated annually since 2014. Currently, there are a total of twelve remote cloud seeding generators targeting Wyoming's Upper Colorado River Basin. Ten generators are located around the Wind River Mountain Range (operational since 2014), and two generators are located along the west slope of the Sierra Madre Mountain Range (operational since 2022). The WWDO is recommending the continuation of these twelve seeding generators for the winter of 2024-2025.

Wyoming's Leadership in Cloud Seeding Efforts

Since the Wyoming Weather Modification Pilot Program in the early 2000's, the Lower Basin parties (Central Arizona Water Conservation District, Colorado River Board of California/Six Agency Committee, and Southern Nevada Water Authority) have been long-standing funding partners contributing to the cost share of the program. As of 2018, the WWDO was a signatory to an Agreement Establishing Programmatic Funding for Colorado River Basin Weather Modification with the Lower Basin (also known as "The Agreement"), which ensures that the State of Wyoming remains a leader in efforts to augment snowpack and increase water supply within the Colorado River Basin, while remaining an active participant to the quickly advancing science that cloud seeding is successful and economic. The science continues to strongly suggest that increasing snowpack through cloud seeding incrementally augments water supply through spring runoff.

All seven of the Colorado River Basin States (Colorado, New Mexico, Utah, Wyoming, Arizona, California and Nevada) and their water users, benefit from increased water supply. Any increase in runoff produced through Upper Basin cloud seeding is considered additional "system" water, benefiting all states within the Colorado River Basin.

Wind River & Sierra Madre Mountain Ranges 2024-2025 Estimated Budget

A Collaboration

As stated in The Agreement, the Lower Basin parties support augmenting Colorado River System runoff through this cooperative cost-share funding mechanism. More importantly, they also provide opportunities to expand Upper Basin States' projects. For example, some terms of The Agreement include: 1) The Lower Basin Parties agree to contribute up to \$500,000 each, and up to \$1,500,000 collectively, in funding for Activities approved in a single Water Year in the Upper Basin; 2) The Lower Basin Parties further agree to contribute up to \$4,500,000 individually, and \$13,500,000 collectively, in funding the Upper Basin Programs provided the Agreement does not terminate prior to the end of the Term; 3) a cost-sharing relationship of generally 50%/50% between the Lower Basin Parties and the Upper Basin Entities; and 4) The Lower Basin Parties do not expect to fund any activities when Lake Powell and Lake Mead are projected to collectively exceed 80% of live storage capacity in the upcoming Water Year. Notice of the decision of whether to fund Activities will be based on the results of the United States Bureau of Reclamation's August 24 Month Study projections of collective inflow and storage at Lake Powell and Lake Mead.

Wind River & Sierra Madre Mountain Ranges 2024-2025 Estimated Budget

The following budget has been prepared for a continued cost sharing scenario for cloud seeding operations targeting the Wind River and Sierra Madre Mountain Ranges during the winter of 2024-2025. Funds are being requested for the consultant to continue cloud seeding operations using twelve remote generators (including preparing weather forecasts, decision support, and equipment maintenance).

Winter 2024-2025 Operations Budget	\$ 793,650.00	
63% Cost Share from Funding Partners	- \$ 499,999.50	
37% Cost Share from WWDO		\$ 293,650.50
Wyoming Water Development Office (oversight) Travel/Communications		\$ 5,000.00
Project Total Requested Appropriation		\$ 298,650.50
Project Total Requested Appropriation		\$ 298,651.00

RECOMMENDED

Important Facts about Cloud Seeding:

- Cloud seeding is one of many tools to manage water resources, and is relatively inexpensive.
- Cloud seeding has been utilized since the 1940's, however, incredible advances in research have been made within the past 15 years. The cloud seeding community views the WWDO's Wyoming Weather Modification Pilot Study (completed in 2014) as the forefront of new innovative research, and one of the most recent cutting-edge studies (Idaho Power's SNOWIE Project) actually builds on Wyoming's original Pilot Study.
- Winter cloud seeding is a technique to naturally increase the amount of ice nuclei within a cloud, allowing ice formation (and ultimately snow formation) to begin sooner.
- Studies have shown that the use of Silver Iodide in cloud seeding is safe, as it is a natural salt-compound. Silver is widespread in the natural environment, and sampling within cloud seeding target areas found silver to be undetectable above naturally-occurring background levels. Silver from cloud seeding is incredibly hard to find, even with the most advanced equipment.
- Extra Area Effects: The theory that cloud seeding reduces moisture downwind is a common misunderstanding. Long-term studies (44+ years) consistently show no precipitation decreases resulting from seeding. In fact, many studies show the potential for a slight increase downwind.
- Cloud seeding allows for an incremental increase in mountain snowpack, and is not the initial cause of springtime flooding events. Every year, WWDO cloud seeding projects adhere to a strict suspension criteria based on seasonal Snow Water Equivalent. One of the thresholds for suspension is if snowpack reaches a specific above-normal level.

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Skyline ISD Well Connection 2024

Program: New Development

Project Type: Municipal

County: Teton

Sponsor: Skyline Improvement & Service District

WWDO Recommendation: Level III

Proposed Budget: \$448,000

WWDC Grant ¹ (50%)	\$ 448,000
<u>Sponsor² (50%)</u>	<u>\$ 448,000</u>
Total	\$ 896,000

¹ Not to exceed 50% eligible project costs

² Sponsor or other funding source

Project Manager: Mallo

Project Description: The proposed Project would replace pumps in the systems three wells with VFD motors and logic controllers to modernize system operation to function with the minimal operating storage in the existing 5,000 gallon hydro-pneumatic tank. Only the new Well 4 pump, well house and transmission line; upsizing the tank house plumbing from 4" to 6"; and addition of well specific water treatment, are eligible portions of the Project.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2020	L- II, Skyline I&SD Water Supply	\$ 92,810
2021	L- II, Skyline I&SD Ground Water Grant	\$ 176,250

2. Describe existing water supply using information in the application.

The existing system uses two pumps to fill a pressure tank and supply the distribution system. The distribution system has 2", 4", and 6" mains and four fire hydrants.

3. Summarize the request.

The Project proposes to connect a new well, drilled under a groundwater grant, to the system. The Project would include a new well house, pump, transmission line, improvements to the storage tank room, and well treatment as required.

4. Summarize the reasons for the request.

The system does not currently meet DEQ standards for meeting the peak demand with the largest well out of commission or with storage. Therefore, a new well was drilled to meet this requirement and now needs to be connected to the system.

Estimated Level III WWDC Eligible Costs:

Preparation of Final Designs and Specifications	\$ 59,000	
Site Access Permit Fees (BOR, USFS, etc.)	\$ 15,000	
Title Opinion	\$ 2,000	
Acquisition of Access and Rights of Way	\$ 6,000	
Pre-Construction Costs (Subtotal # 1)		\$ 82,000

Cost of Project Components

Mobilization	\$ 100,000
Well 4	\$ 160,000
New Well House Building	\$ 240,000
New Generator for Well 4	\$ 50,000
Increasing Storage piping from 4" to 6"	\$ 30,000
Disinfection System and ancillary items	\$ 10,000

Construction Cost (Subtotal #2)	\$ 590,000
Construction Engineering Costs (Subtotal # 2 x 10%)	\$ 59,000
Components and Engineering Costs (Subtotal # 3)	\$ 649,000
Contingency (Subtotal #3 x 15%)	\$ 97,350
Construction Cost Total (Subtotal #4)	\$ 746,350

Total Project Cost (Subtotal #1 + Subtotal #4)	\$ 828,350
Inflation Costs (4% per two years)	\$ 67,593

Total Project Costs \$ 895,943

Total Project Costs Rounded \$ 896,000

Level III Recommended Funding @ 50% Grant: \$ 448,000

Ineligible Expenses

Well 2 work	\$ 66,000
Well 3 work	\$ 85,000
Replace Meters and Manholes	\$ 22,500
Generator Capacity for more than Well 4	\$ 50,000
Improvements to Existing Storage Building and Tank	\$ 45,000
Design and Construction Management (for Ineligible work)	\$ 53,700

Total Ineligible Project Costs \$ 322,200

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information

a. Population (2020 Census) 285 (Current Estimate) 292

b. Does the entity have a comprehensive planning boundary? Yes
If so, what is the estimated additional population that could be served in the future? 20

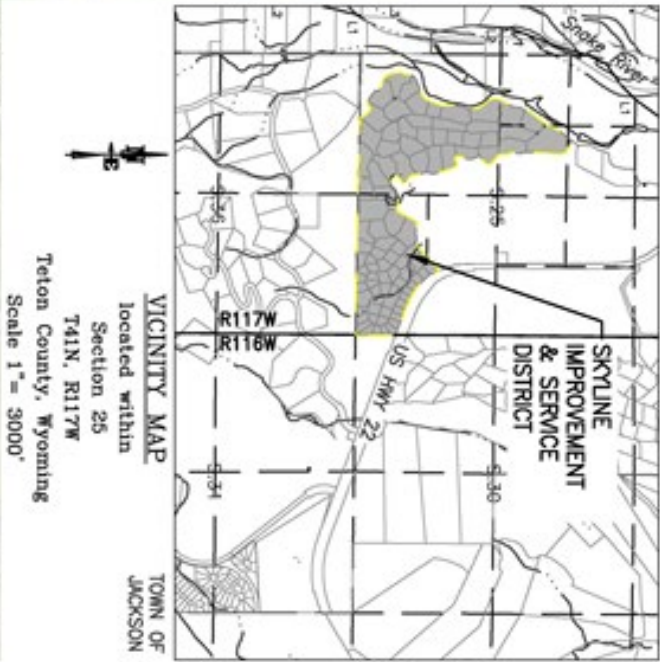
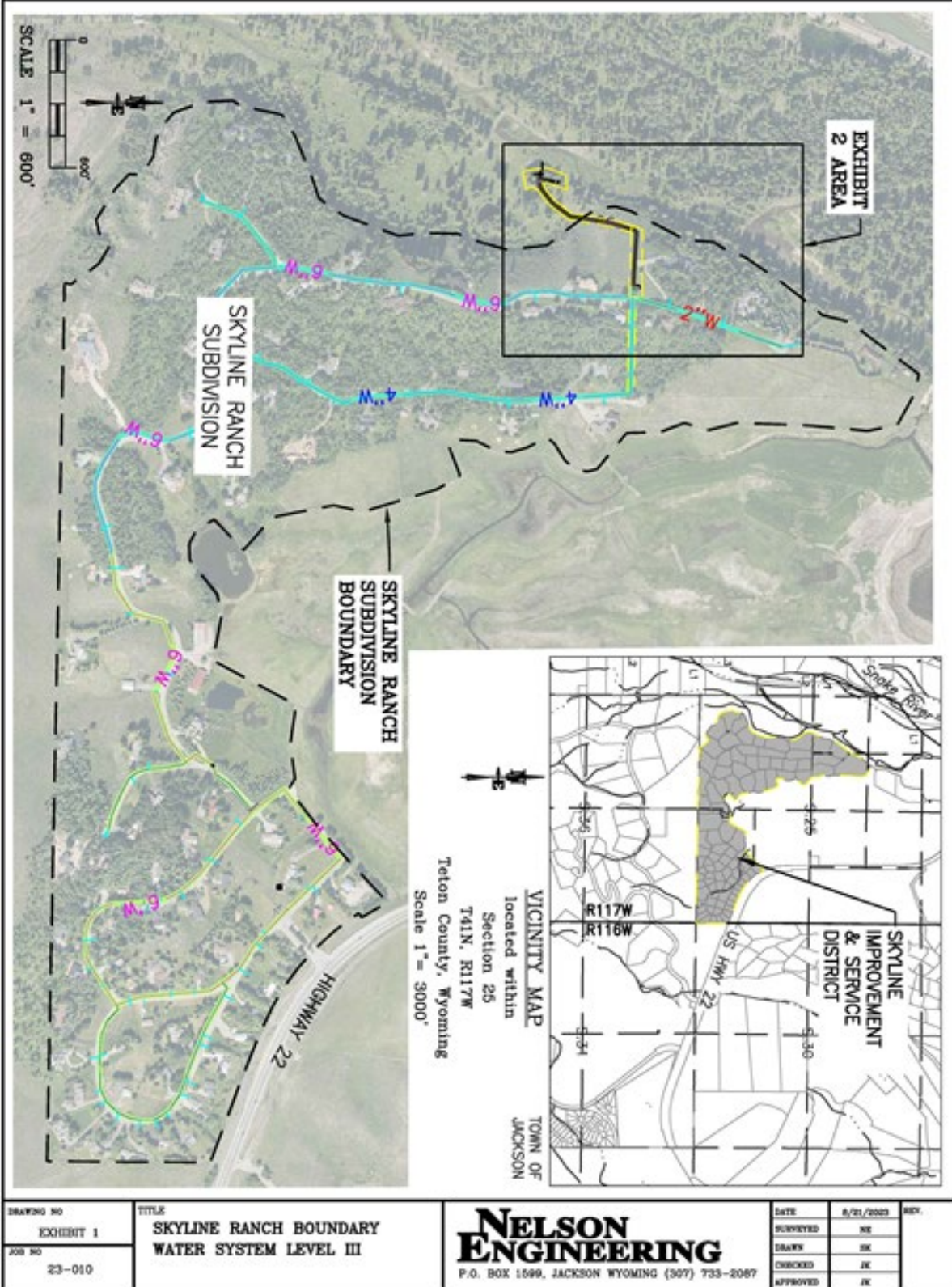
	Pre-Project	Post Project
c. Taps served within the entity boundaries?	86	90
d. Taps outside the entity boundaries?	0	0
e. Names of other water systems served?	None	None
2. Water Usage (Potable water system only)	Pre-Project	Post Project
a. Total number of gallons produced by the water sources annually:	23MG	34MG
b. Gallons used <u>per capita</u> per day:		
Average Day:	223 gal	299 gal
Peak Day:	922 gal	1,281 gal
3. System capacity (Potable water system only):	Pre-Project	Post-Project
a. Maximum capacity of the water supply system		
Acre feet per day:	1.1	2.21
Gallons per day:	360,000	720,000
b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.):	Supply, transmission, treatment, and distribution	Distribution
c. Increased capacity needed:		
Acre feet per day	1.1	0
Gallons per day	360,000	0
d. Estimated system water losses (percentage):	29%	10%
4. Does the entity have an independent raw water irrigation system? No		
a. Raw water system capacity (acre feet per day & gallons per day):	0.00	
b. Average annual raw water usage (acre feet & gallons):	0.00	
5. Rates	Pre-Project	Post-Project
a. Tap fees:		
Residential:	\$ 6,947	\$ 6,947
Commercial:	\$ 0,000	\$ 0,000
b. Average monthly water bill:	\$ 136.70	\$ 173.63
c. Water Rates		
Fixed Fee per lot of \$1,080.58 Plus \$2.60 per 1000 Gallons used and the proposed Fixed Fee per lot of \$1,520 per year Plus 2.60 per 1000 Gallons used.		

6. Financial Statement	Pre-Project	Post-Project
Annual revenues generated from water sales:	\$ 45,660	\$ 64,550
Annual revenues from tap fees:	\$ 0	\$ 0
Annual revenues from other sources:	<u>\$ 105,726</u>	<u>\$ 152,517</u>
Total annual revenues:	\$ 151,386	\$ 217,067
Annual budget for operation and maintenance expenses:	\$ 98,175	\$ 119,352
Annual payments for debt retirement:	\$ 7,081	\$ 34,506
Annual payments to a repair and replacement fund:	\$ 54,823	\$ 66,638
Annual payments to an emergency fund:	\$ 0	\$ 0
Annual payments for other purposes:	<u>\$ 365,000</u>	<u>\$ 0</u>
Total annual payments:	\$ 107,896	\$ 147,074
 (Note: during past fiscal year Skyline received grants, loans, and used reserves for a capital improvement project, which included the level II well construction. This is reflected in the post project financial statements.)		
Balance in repair and replacement fund:	\$ 21,569	\$ 424,500
Balance in emergency fund:	\$ 100,439	\$ 97,449
Annual cost of water quality testing:	\$ 2,640	\$ 3,209

B. COMPARISON WITH OPERATING CRITERIA

1. Project Priority according to the Criteria? Account I, Priority 2 - Level III connection of a new well source
2. Is the project supported by the City Council or County Commission, which has jurisdiction over the project area? Yes
3. Will the project serve at least 15 water taps? Yes Number of taps 86
4. Is the sponsor under any federal (EPA) mandates to improve your system? (eg. Administrative orders, violations, actions taken): No
5. Does anyone in the service area haul water? No
6. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they: RUS, SRF
7. Is water metered? Yes Are billings based on meter readings? Yes
8. What is monthly water bill for 5,000 gallons? \$103.05 20,000 gallons? \$142.05
9. Theoretical reasonable monthly water bill (\$83,289 (AMHI) x 2.5%/12) \$173.52
10. What water conservation measures are employed by the sponsor? No conservation measures are in place at this time.
11. Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds and emergency funds? Yes
12. Will the project consider regional solutions? No, there are no regional systems within a reasonable distance to feasibility connect to at this time.

- 13.** Can the project be delayed or staged? Yes Should it be? No, the sponsor states they will have the well ready to be tied into the system by late summer.
- 14.** Basis for the funding recommendation: The well currently has contamination that is believed to be an iron bacteria. The sponsor and their engineer are stating that no long term treatment will be needed.



DRAWING NO	EXHIBIT 1
JOB NO	23-010

TITLE	SKYLINE RANCH BOUNDARY WATER SYSTEM LEVEL III
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NELSON ENGINEERING
P.O. BOX 1099, JACKSON WYOMING (507) 733-2087

DATE	REV.
8/21/2023	
SURVEYED	JK
DRAWN	JK
CHECKED	JK
APPROVED	JK

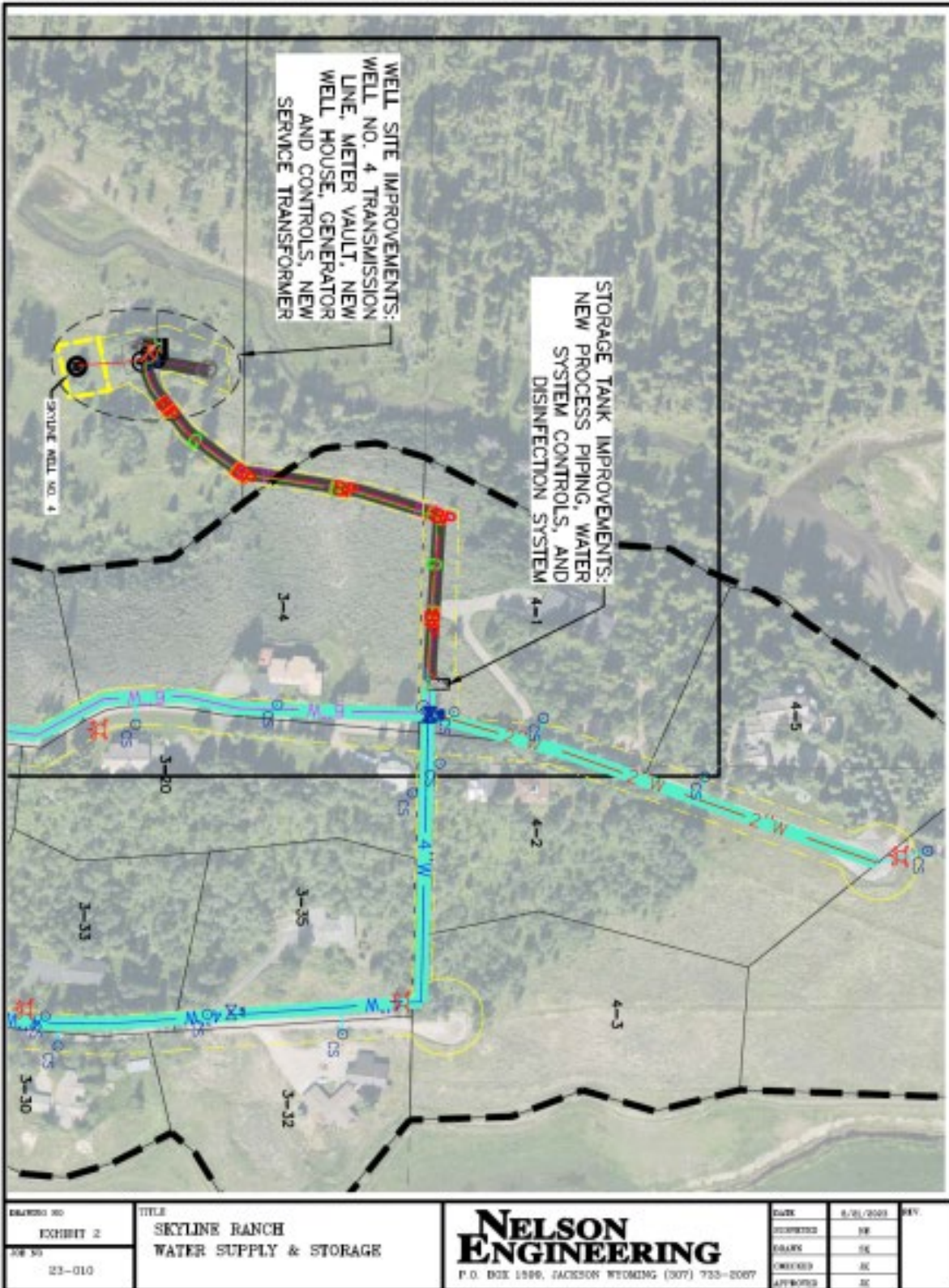


EXHIBIT NO	EXHIBIT 2
AS NO	23-010

TITLE	SKYLINE RANCH WATER SUPPLY & STORAGE
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NELSON ENGINEERING
P.O. BOX 1880, JACKSON WYOMING (307) 733-2007

DATE	BY	REV.
8/21/2007	JR	
	JK	
	JK	
	JK	

RESOLUTION # 2023-01

A RESOLUTION AUTHORIZING THE FILING OF AN APPLICATION FOR LEVEL III CONSTRUCTION FUNDING FOR SKYLINE ISD WATER SUPPLY AND STORAGE SYSTEM IMPROVEMENTS PROJECT TO THE WYOMING WATER DEVELOPMENT COMMISSION (WWDC)

WHEREAS, the Skyline Improvement and Service District (SISD) operates two public water supply wells in two pressure zones with fifteen thousand lineal feet of water distribution mains plus wells, pressurized storage tank, and flushing hydrants; and

WHEREAS, the current SISD infrastructure experiences high summer demands, which is projected to exceed supply capability in the near future with one well out of service; and

WHEREAS, the SISD's existing water supply wells will not be in compliance with current Wyoming Department of Environmental Quality (WDEQ) regulations; and

WHEREAS, the SISD's existing water transmission and storage facilities are not sufficient to meet maximum day demand and do not meet SEO and DEQ requirements; and

WHEREAS, the SISD recently took exploratory measures and constructed a test well to address current and future water supply needs of current users under the purview of the WWDC Groundwater Exploration Grant Program; and

WHEREAS, the SISD has recently completed a WWDC Level II Study that identified various necessary improvements to the water supply and storage system; and

WHEREAS, the Wyoming Water Development Commission has funds available for Level III Construction of identified improvements; and

WHEREAS, the total project cost for construction of the project is estimated at \$1,295,400.00; and

WHEREAS, the SISD desires to apply under said Program for sixty-seven (67) percent of the project cost, based on the eligible components, with a required match of thirty-three (33) percent from the SISD.

NOW, THEREFORE, be it resolved by the Elected Board of the Skyline Improvement and Service District, located in Jackson, Wyoming, that the SISD is authorized to file the Level III Construction Funding Application to the Wyoming Water Development Commission for the purpose of construction of the Skyline ISD Water System Improvements Project.

PASSED, APPROVED, AND ADOPTED this 17th day of August, 2023.

SKYLINE IMPROVEMENT &
SERVICE DISTRICT



Kurt Harland, Board Chairman

ATTEST:




Bob Norton, SISD Board Treasurer & Secretary

State of Wyoming }
 } ss
County of Teton }

The forgoing instrument was acknowledged before me by Kurt Harland as SISD Board Chairman and Bob Norton, SISD Board Treasurer & Secretary, who are personally known to me this 17th day of August, 2023.

WENDY MEYRING
Notary Public - State of Wyoming
Commission ID # 151063
My Commission Expires
May 19, 2028



Notary Public

My commission expires: May 19, 2028

LEVEL III
PROJECTS
-AMENDMENTS

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Arapahoe Water Supply 2016

Program: New Development

Project Type: Rural Domestic

County: Fremont – Wind River
Indian Reservation

Sponsor: Northern Arapaho Tribe

Sponsor's Request: Time Extension

Proposed Budget Increase: \$0

WWDO Recommendation: Extend the reversion date from July 1, 2024 to July 1, 2026

Previously Approved Budget: \$2,247,850

WWDC Grant ¹ (67%)	\$ 2,247,850
<u>Sponsor² (33%)</u>	<u>\$ 1,107,150</u>
Total	\$ 3,355,000

¹ Not to exceed 67% of eligible project costs

² Sponsor or other funding source

Project Manager: Verplancke

Project Description: The Project consists of three separate transmission main sections to be installed. The first section is from the Million Gallon Tank to the intersection of 17-Mile Road and is ~5,700 feet long. The second section is from the intersection of 17-Mile Road and Left Hand Ditch Road, along Left Hand Ditch Road to the Arapahoe Industrial Park/Arapahoe School complex and is ~8,150 feet long. The third section is from the intersection of 17-Mile Road and Left Hand Ditch Road, along 17-Mile Road to State Highway 789 near the Beaver Creek housing development and is ~10,400 feet long.

In 2019, the Sponsor obtained from the Department of Indian Health Services (IHS) all required match funding to complete the design, bidding and construction of all work related to the Project. The work includes three separate sections of transmission mains in the Arapahoe Area. Over the last 5 years the Project has expended \$150,544.51 of the total \$2,247,850.00 WWDC grant.

Because of delays in the acquisition of easements, the Project schedule has been delayed. Easement work is continuing on the final phases of the Project. Once all easements are in place the complete Project will be bid. It is anticipated the construction will be completed by summer/fall 2025.

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Buffalo Wells and Transmission 2019 **Program:** New Development

Project Type: Municipal **County:** Johnson

Sponsor: City of Buffalo

Sponsor's Request: Time Extension **Proposed Budget Increase:** \$0

WWDO Recommendation: Extend the reversion date from July 1, 2024 to July 1, 2026 **Previously Approved Budget:** \$ 1,238,160

WWDC Grant ¹ (67%)	\$ 1,238,160
<u>Sponsor² (33%)</u>	<u>\$ 609,840</u>
Total	\$ 1,848,000

¹ Not to exceed 67% of eligible project costs

² Sponsor or other funding source

Project Manager: Russell

Project Description: The City is requesting a time extension for this Project due to COVID-related delays and consideration between the City and consultant on project engineering. This is a multi-contract project; previous phases within this Project included drilling and development of seven alluvial wells. The current phase is for design and construction of the collection/transmission piping and appurtenances to connect the wells to the existing treatment plant.

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Clearmont Well Connection 2019

Program: New Development

Project Type: Municipal

County: Sheridan

Sponsor: Town of Clearmont

Sponsor's Request: Time Extension

Proposed Budget Increase: \$0

WWDO Recommendation: Extend the reversion date from July 1, 2024 to July 1, 2026.

Previously Approved Budget: \$ 328,970

WWDC Grant ¹ (67%)	\$ 328,970
<u>Sponsor² (33%)</u>	<u>\$ 162,030</u>
Total	\$ 491,000

¹ Not to exceed 67% of eligible project costs

² Sponsor or other funding source

Project Manager: Russell

Project Description: The Town is requesting a time extension for this Project due to unexpected water quality issues. This Project is for completion of a well drilled under a WWDC Level II project, construction of new transmission main from the well, connecting to the Town's existing water system, and miscellaneous items.

2022 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Gillette Madison Pipeline

Program: New Development

Project Type: Municipal

County: Campbell

Sponsor: City of Gillette

Sponsor's Request: Time Extension

Proposed Budget Increase: \$0

WWDO Recommendation: Extend the reversion date from July 1, 2024 to July 1, 2026

Legislative Approved Budget: \$ 190,120,358

WWDC Grant ¹ (67%):	\$ 145,792,000
WWDC Loan ² : (20.37%)	\$ 44,328,358
Sponsor ³ (12.63%):	<u>\$ 27,479,642</u>
Total:	\$ 217,600,000

¹ Not to exceed 67% of eligible project costs

² Loan at 4% interest and a term of 30 years

³ Sponsor or other funding source

Project Manager: Brich

Project Description: The Gillette Madison Pipeline project is a regional water supply project that will provide water to an estimated 42 districts within the designated service area in Crook County, Campbell County, and the City of Gillette. The Project includes five Madison formation wells, well field collection piping, 36-inch and 42-inch transmission pipelines from the well field to the City of Gillette, a 16,800-gpm pump station, a 300,000-gallon storage tank and a sodium hypochlorite disinfection facility.

The last contract to complete the Project will install pumping and electrical equipment to connect the final three wells into the system. This contract is in the process of being awarded, but the City believes the lead time to procure pumping and electrical equipment will be about seventy weeks. This will extend the Project beyond the current reversion date of July 1, 2024, and the City of Gillette originally requested a one-year time extension to complete the work. Based on recent information, the WWDO is recommending a two-year time extension to ensure that components with long-lead times for delivery can be obtained and installed prior to funds reverting.

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Happy Valley Water Transmission and Storage 2023

Program: New Development

Project Type: Rural Domestic

County: Lincoln

Sponsor: Happy Valley Water Improvement and Service District

Proposed Budget Increase: \$ 0

Sponsor's Request: \$3,000,000

Proposed Total Budget: \$308,200

WWDO Recommendation: Do Not Fund

	Existing	Recommended Changes	Revised Budget
WWDC Grant	\$ 308,200 (67%) ¹	\$ 2,837,450 (50%)	\$ 3,145,650 (51.27%) ²
Sponsor ³	\$ 151,800 (33%)	\$ 2,837,450 (50%)	\$ 2,989,250 (48.73%)
Total	\$ 460,000(100%) ⁴	\$ 5,674,900 (100%) ⁵	\$ 6,134,900 (100.00%)

¹ Not to exceed 67% of eligible project costs

² Not to exceed 51.27% of eligible project costs up to \$3,145,650

³ Sponsor or other funding source

⁴ Pre-Construction costs consist of: Design, Bidding Documents, Access Permits, Easements and Title Opinion

⁵ Updated with Latest Engineer's Opinion of Probable Construction Costs

Project Manager: Kaiser

Project Description: The Happy Valley Water Improvement and Service District (HVVISD) is located approximately three miles south of Afton. HVVISD is expanding their district boundaries in order to regionalize with the community of Osmond. This Project will replace the old and failing water system transmission lines for both HVVISD and Osmond, and construct a new water storage tank to promote a regional water system.

The request is for the construction funding to replace two aging pipelines with one common transmission line and construct a water storage tank. The Project was expected to receive WWDC construction funds in 2025. However, the District has requested the funds at this time. Based on current funding availability, and the progress of the design (<30% complete) and easement/U.S. Forest Service Permit procurement (none documented at this time), the Project is not recommended to receive WWDC funds this year. However, this project is recommended to receive construction funds after the design has reached at least 50% and all access easements have been obtained.

RESOLUTION

The Board of Directors of Happy Valley Improvement and Service District hereby resolve that the Happy Valley Improvement and Service District, on August 22, 2023, proceed with application for WWDC Level III funding for a new water storage tank and transmission pipeline replacement and appurtenances.

Dated this 22nd day of August, 2022

Mark S. Erickson
Mark S. Erickson, President

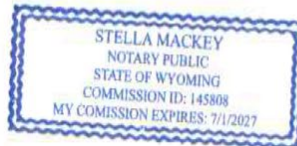
Cory De Jenkins
Cory De Jenkins, Board Member

Melissa Cranney
Melissa Cranney, Board Member

STATE OF WYOMING:

:ss.

COUNTY OF LINCOLN:



Subscribed and sworn to in my presence this 22nd day of August, 2023.

Stella Mackey
Notary Public

2023 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Happy Valley Water Transmission and Storage 2023

Program: New Development

Project Type: Rural Domestic

County: Lincoln

Sponsor: Happy Valley Water Improvement and Service District

WWDO Recommendation: Level III

Proposed Budget: \$308,200
(Pre-Construction Only)¹

Current Recommendation:

WWDC Grant ² (67%)	\$ 308,200
<u>Other Funding Source³ (33%)</u>	<u>\$ 151,800</u>
Total	\$ 460,000

Funding for Total Project:

WWDC Grant ² (67%)	\$ 3,899,400
<u>Sponsor³ (33%)</u>	<u>\$ 1,920,600</u>
Total Project	\$ 5,820,000

¹ Pre-Construction costs consist of: Design, Bidding Documents, Access Permits, Easements and Title Opinion

² Not to exceed 67% of eligible project costs

³ Sponsor or Other funding source

Project Manager: George Moser/Bill Brewer

Project Description: The Happy Valley Water Improvement and Service District (HVWISD) is located approximately three miles south of Afton. HVWISD is expanding their district boundaries in order to regionalize with the community of Osmond. This Project will replace the old and failing water system transmission lines for both HVWISD and Osmond and construct a new water storage tank to promote a regional water system.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2020	L-II, Happy Valley Water Supply	\$ 59,000

2. Describe existing water supply using information in the application.

HVWISD and Osmond currently receive water from the Water Cress #1, Water Cress #2, and Osmond Springs. These three springs are collected in spring boxes and transmitted by two separate and parallel transmission pipes to residential users in the subdivisions.

3. Summarize the request.

The request is to replace two aging pipelines with one common transmission line and construct a water storage tank.

4. Summarize the reasons for the request.

The two independent systems are failing due to aging pipelines. In addition, there is currently no water storage aside from spring-collection boxes.

Estimated Level III WWDC Eligible Costs:

Preparation of Final Designs and Specifications	\$ 377,050	
Site Access Permit Fees (BOR, USFS, etc.)	\$ 4,950	
Title Opinion	\$ 3,000	
Acquisition of Access and Rights of Way	<u>\$ 75,000</u>	
Pre-Construction Costs (Subtotal # 1)		\$ 460,000

Cost of Project Components

Mobilization	\$ 150,000
Imported Pipe Bedding	\$ 167,000
Water Pipe	\$ 1,900,000
Gate Valves	\$ 54,000
Water Tank	\$ 810,000
Earthwork	\$ 135,000
Electrical	\$ 33,300
Well House and Fencing	\$ 146,000
Access Road	\$ 36,000
Fire Hydrant Assembly	\$ 170,000
Reconnect Pipelines and Services	\$ 61,200
Remove and Replace Improvements (driveways/landscaping)	\$ 90,000
Traffic Control	<u>\$ 18,000</u>

Construction Cost (Subtotal #2)	\$ 3,770,500
Construction Engineering Costs (Subtotal # 2 x 10%)	<u>\$ 377,050</u>
Components and Engineering Costs (Subtotal # 3)	\$ 4,147,550
Contingency (Subtotal #3 x 15%)	<u>\$ 622,133</u>
Construction Cost Total (Subtotal #4)	\$ 4,769,683

Total Project Cost (Subtotal #1 + Subtotal #4)	\$ 5,229,683
Inflation Costs (4% per one year)	\$ 209,187
COVID Specific Inflation Costs (10%) Project components	<u>\$ 377,050</u>

Total Project Costs \$ 5,815,920

Total Project Costs (Rounded) \$ 5,820,000

Level III Recommended Funding @ 67% Grant – Total Costs: \$ 3,899,400

Level III Recommended Funding @67% Grant -Pre-Construction Only \$ 308,200

Ineligible Expenses

Total Ineligible Project Costs \$ 0

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information

a. Population (2020 Census) 305 (Current Estimate) 316

b. Does the entity have a comprehensive planning boundary? Yes
If so, what is the estimated additional population that could be served in the future? 390

	Pre-Project	Post Project
c. Taps served within the entity boundaries?	101	101

d. Taps outside the entity boundaries?	0	0
--	---	---

e. Names of other water systems served? None

2. Water Usage (Potable water system only)

	Pre-Project	Post Project
a. Total number of gallons produced by the water sources annually:	208 MG	208 MG
b. Gallons used <u>per capita</u> per day:		
Average Day:	1,727	1,727
Peak Day:	3,454	3,454

3. System capacity (Potable water system only):

	Pre-Project	Post-Project
a. Maximum capacity of the water supply system		
Acre feet per day:	1.75	1.75
Gallons per day:	568,800	568,800
b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.):	Transmission lines	None
c. Increased capacity needed:		
Acre feet per day	0	0
Gallons per day	0	0
d. Estimated system water losses (percentage):	30%	2%

4. Does the entity have an independent raw water irrigation system? No, but residents can obtain raw water from another entity.

a. Raw water system capacity (acre feet per day & gallons per day): NA

b. Average annual raw water usage (acre feet & gallons): NA

5. Rates	Pre-Project	Post-Project
a. Tap fees:		
Residential:	\$ 5,000	\$ 5,000
Commercial:		
b. Average monthly water bill:		
	\$ 66.00	\$ 73.00
c. Water Rates		
Describe Water Rates	Flat Rate Monthly	TBD
(by the end of the project rates will be set based on meter readings, currently all residents do not have meters, but they will be installed. Current fees are flat rate)		
6. Financial Statement	Pre-Project	Post-Project
Annual revenues generated from water sales:	\$ 50,500	\$ 89,617
Annual revenues from tap fees:	\$ 0	\$ 5,000
Annual revenues from other sources:	\$ 0	\$ 0
Total annual revenues:	\$ 50,500	\$ 94,617
Annual budget for operation and maintenance expenses:	\$ 5,907	\$ 5,907
Annual payments for debt retirement:	\$ 0	\$ 79,642
Annual payments to a repair and replacement fund:	\$ 3,500	\$ 3,600
Annual payments to an emergency fund:	\$ 0	\$ 500
Annual payments for other purposes:	\$ 0	\$ 0
Total annual payments:	\$ 9,407	\$ 89,649
Balance in repair and replacement fund:	\$ 0	\$ 5,000
Balance in emergency fund:	\$ 0	\$ 5,000
Annual cost of water quality testing:	\$ 2,500	\$ 2,500

B. COMPARISON WITH OPERATING CRITERIA

1. Project Priority according to the Criteria? Account I, Priority 3 – Level III transmission pipelines
2. Is the project supported by the City Council or County Commission, which has jurisdiction over the project area? Yes
3. Will the project serve at least 15 water taps? Yes Number of taps 101
4. Is the sponsor under any federal (EPA) mandates to improve your system? (eg. Administrative orders, violations, actions taken): No
5. Does anyone in the service area haul water? No
6. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they: RUS, MRG, DWSRF, ARPA
7. Is water metered? Yes (70% of taps) Are billings based on meter readings? No, but the sponsor states that all taps will have meters by the end of the project, and that post-project billing will be based on meter readings.
8. What is monthly water bill for 5,000 gallons? \$66.00 20,000 gallons? \$66.00

9. Theoretical reasonable monthly water bill ($\$71,898$ (AMHI) \times $2.5\%/12$) $\$149.79$ (Happy Valley ISD)
10. What water conservation measures are employed by the sponsor? None
11. Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds and emergency funds? Yes
12. Will the project consider regional solutions? Yes. This project is creating a regional solution for serving the Happy Valley and Osmond water systems.
13. Can the project be delayed or staged? Yes Should it be? No, see below
14. Basis for the funding recommendation: This Project will provide funding for design and construction of transmission line and storage tank to supply regional water to the Happy Valley and Osmond communities. This Project was identified in the Level II Study.

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Lander Storage Tanks and Pump Station 2019

Program: New Development

Project Type: Municipal

County: Fremont

Sponsor: City of Lander

Sponsor's Request: Time Extension

Proposed Budget Increase: \$0

WWDO Recommendation: Extend the reversion date from July 1, 2024 to July 1, 2025

Previously Approved Budget: \$7,028,300

WWDC Grant ¹ (67%)	\$ 7,028,300
<u>Sponsor² (33%)</u>	<u>\$ 3,461,700</u>
Total	\$10,490,000

¹ Not to exceed 67% of eligible project costs

² Sponsor or other funding source

Project Manager: Verplancke

Project Description: This Project is to replace three existing water tanks and the hospital pumping station that are near failure with new infrastructure that can be depended on. The City bid the Project in the spring of 2022 and the total cost was significantly higher than anticipated. The higher bid prices received are related to inflation that has been observed globally after the COVID- 19 pandemic. Bid prices appear to be even higher in Lander Wyoming due to limited contractor availability and the remoteness of the community.

In 2023, the City requested and received additional funding through Legislation for the Project. The Project is under construction, but will not be completed prior to July 1, 2024.

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Lander Well and Transmission Pipeline 2021

Program: New Development

Project Type: Municipal

County: Fremont

Sponsor: City of Lander

Proposed Budget Increase: \$0

Sponsor's Request: \$2,397,930

Proposed Total Budget: \$884,400

WWDO Recommendation: Do Not Fund

	Existing	Recommended Change	Revised Budget
WWDC Grant ¹	\$ 884,400 (67%)	\$ 1,066,193 (67%)	\$ 1,950,593 (67%)
Sponsor ²	\$ 435,600 (33%)	\$ 525,140 (33%)	\$ 960,740 (33%)
Total	\$ 1,320,000 (100%)	\$ 1,591,333 (100%)	\$ 2,911,333 (100%)

¹ Not to exceed 67% of eligible project costs

² Sponsor or other funding source

Project Manager: Mallo

Project Description: The Project is to complete and connect four (4) new wells to the City's storage tank through the installation of pumps, pump houses, controls, a pipeline, and connection to the main transmission pipeline.

The estimated Project cost in 2021 was \$1,320,000, but due to inflation and other factors the current estimated cost is \$3,579,000. The City of Lander is requesting an additional \$2,397,930 of grant funds to complete the Project and maintain the 67% WWDC grant. Of the estimated project cost of \$3,579,000 a total of \$667,667 are not eligible for reimbursement, making the eligible project estimate around \$2,911,333, which is ~120% more than the original estimate. The cost increase is far in excess of cost increases seen by other WWDC Projects related to recent inflation and much of this can be contributed to the cost of the building, the connection vault, and piping to discharge water to the river, which total \$1,575,750 of the overall cost. The WWDO sees the potential for more value engineering on these items and this should be explored prior to moving forward.

At this time, the Project is ready to bid. The City applied for ARPA funds, however this Project was not listed as the top priority for the City so it was skipped over during SLIB review of projects to be funded. Based on the limited ARPA funds available, and the City's lack of priority for the Project, it was not funded with ARPA funds.

As stated, the cost increases shown on the current engineer's estimate are far above inflationary numbers being seen by WWDO around the State. Therefore, at this time the WWDO is not recommending additional funds for the Project. The WWDO recommends the Sponsor look for alternative funding, and if not obtained in full, that the Sponsor request Sponsor's Contingency Funds after bids are received and actual funding need can be determined. The Sponsor should be aware that contingency funds would likely fall short of the 67% requested. Therefore, additional Sponsor funds or funds from another source will be needed.

RESOLUTION NO. 1310

A RESOLUTION AUTHORIZING AN APPLICATION TO THE WYOMING WATER DEVELOPMENT COMMISSION FOR FUNDING OF THE LEVEL III WELL CONSTRUCTION

WHEREAS, The Governing Body for the City of Lander desires to participate in the Wyoming Water Development Commission project agreement to assist in financing this project; and,

WHEREAS, the Governing Body for the City of Lander recognizes the need for the project to include construction of a new well located at the Lander Water Treatment plant.

WHEREAS, the Wyoming Water Development Commission requires that certain criteria be met, and to the best of The City of Lander's knowledge this project meets those criteria; and,

WHEREAS, the Governing Body of the City of Lander, Wyoming recognizes and supports the need for this project and submittal of this grant application,

WHEREAS, the Governing Body of the City of Lander agrees to participate in the project with the Wyoming Water Development Commission and meet financial obligations from City of Lander's Water and Wastewater Enterprise Fund as funded by the recent rate increase adopted by Corrected Resolution 1292 titled "Fees and Utility Rates for Water and Wastewater Service", dated August 8, 2023; and,

NOW, THEREFORE, BE IT RESOLVED by the Governing Body of The City of Lander The City of Lander agrees to participate in paying for an adjusted price of up to 33% of the total project cost in the new project amount of \$3,579,000.00 to assist in the funding of the third phase of the High Pressure Water System Upgrades.

BE IT FURTHER RESOLVED that Monte Richardson, Mayor; Melinda Cox, Council President; and Lance Hopkin, City Engineer/Public Works Director are hereby designated as the authorized representatives of the City of Lander to act on behalf of the Governing Body on all matters relating to this project.

PASSED, APPROVED, AND ADOPTED THIS 12th day of September 2023.




Attest:


Rachelle Fontaine, City Clerk


Monte Richardson, Mayor

CERTIFICATE

I, Rachelle Fontaine, hereby certify that the foregoing Resolution was adopted by the City Council of the City of Lander at a regular meeting held on September 12th, 2023, and that the meeting was held according to law; and that the said Resolution has been duly entered in the minute book of the City of Lander.


Rachelle Fontaine, City Clerk

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Laramie North Side Tank

Program: New Development

Project Type: Municipal

County: Albany

Sponsor: City of Laramie

Sponsor's Request: Time Extension

Proposed Budget Increase: \$0

WWDO Recommendation: Extend the reversion date from July 1, 2024 to July 1, 2025

Previously Approved Budget: \$ 8,503,000

WWDC Grant (67%) ¹	\$ 8,107,000
WWDC Loan (33%) ²	\$ 396,000
Sponsor ³	<u>\$ 3,597,000</u>
Total	\$12,100,000

¹ Not to exceed 67% of eligible project costs

² 33% loan at 4% interest and a term of 30 years (\$396,000 loan on \$1,200,000 design only project budget)

³ Sponsor or other funding source

Project Manager: Verplancke

Project Description:

The Project received Level III funding from the 2014 Wyoming Legislature. The Project consists of a pump station, transmission pipelines, pressure reducing stations and 1.0MG water storage tank. The Project is located on the north side of Laramie and will provide water storage for Pressure Zones 1, 2 and 3. The Project was bid in the summer of 2022 and the lowest responsive and responsible bid exceeded the budget at that time. The City decided to cover the difference in funding to allow them to award the contract and move the Project forward. The Project is under construction but will not be completed by July 1, 2024.

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Sheridan Area Water Supply
Transmission 2020

Program: New Development

Project Type: Municipal

County: Sheridan

Sponsor: City of Sheridan

Proposed Budget Increase: \$0

Sponsor's Request: \$4,486,320

Previously Approved Budget: \$3,102,100

WWDO Recommendation: Do Not Fund and Do Not Increase Time

	<u>Existing</u>	<u>Recommended Changes</u>	<u>Revised Budget</u>
WWDC Grant ¹	\$ 3,102,100 (67%)	\$ 2,235,120 (67%)	\$5,337,220 (67%)
Other Funding Source ²	\$ 1,527,900 (33%)	\$ 1,100,880 (33%)	\$2,628,780 (33%)
Total	\$ 4,630,000 (100%)	\$ 3,336,000 (100%)	\$7,966,000 (100%)

¹ Not to exceed 67% of eligible project costs

² Sponsor or other funding source

Project Manager: Mallo

Project Description: The City of Sheridan requested design and construction funding for this Level III construction project in the 2020 Legislative session. The City refers to this Project as the Airport Transmission Main Project. The proposed transmission main was planned to connect an existing water supply pipeline on the eastern end of the Big Goose Valley to major service areas at the airport, and then areas to the south, which include the State Girl's School, the entire Little Goose Valley, the Big Horn area, Sheridan College, and southeast Sheridan. This transmission line is the sole source of water supply to some of these service areas and is a key transmission main for both the SAWSJPB and the City of Sheridan water systems. The existing line had failed several times in the past, and was reported as approaching the end of its life, and was critical need of replacement.

This Project comes out of the 2019 Sheridan Water Master Plan, Level I Study and was the highest priority project presented in that study. The Sponsor and engineer later decided to alter the route of the transmission pipeline to go through the airport to reduce pipeline length, using the reduced pipe length to fund the additional cost of directional drilling under taxiways at the airport. The Sponsor's stated intent for the redesign was to save on the overall cost of the Project and to allow additional flows to the airport and associated commercial properties located on the airport property.

The overall cost of the eligible portions of the Project has increased 70%+ as well as additional increased costs for non-eligible work. The increased costs appear to be a mixture of inflation and other factors. The City submitted a request for additional funds in late August initiating the WWDO to produce this Recommendation. However, after further review, the City made the determination that the present cost of the Project does not justify the benefits it will provide and the responsible thing to do would be to relinquish the WWDC grant and continue to operate and maintain the existing transmission main in its current condition. The City plans to refund any expended WWDC grant funds. With this decision by the City, the WWDO is not recommending any additional funds or time extensions for this Project. When the City completes requirement to relinquish the Project grant and returns the WWDC expended grant funds, the entire grant of \$3,102,100 will be reverted to Account I.



Office of the Mayor
55 Grinnell Plaza
Sheridan, WY 82801
307-675-4202



October 17, 2023

Director Jason Mead, PE
Wyoming Water Development Office
6920 Yellowtail Rd
Cheyenne, WY 82002

RE: WWDC Grant Relinquishment re: the Sheridan Area Water Supply Transmission 2020 Project Level III Construction Funding.

Dear Director Mead:

The City of Sheridan desires to relinquish the \$3,102,100 in grant funding received from the State of Wyoming, through the Wyoming Water Development Commission, for the Sheridan Area Water Supply Transmission 2020 project (Project).

The Project was intended to replace an existing ductile iron water transmission main that is over 50 years old, but by all measures of assessment, has many more years of useful life remaining. Even though replacing the line, by completing the Project, would further enhance its operation and minimize future repair and maintenance costs, the City feels these benefits to be gained from the Project become less valuable as the costs to achieve them rise.

The engineer's estimate for the Project, as of August 2023, is now significantly higher (145% or \$6.7M) than it was at the time the City of Sheridan applied for, and received, the WWDC Grant. Upon receipt of this information, the City made the determination that the present cost of the Project does not justify the benefits it will provide and the responsible thing to do would be to relinquish our WWDC Grant (agreement attached) and continue to successfully operate and maintain our water transmission main in its current condition for, what we believe, will be for many years to come.

The attached Resolution 58-23, passed and approved by City Council on October 16, 2023, represents the City's formal request to relinquish its WWDC Grant and pledges the City toward reimbursing the WWDC for approximately \$252,400 in grant funds received for the Project.

The City sincerely thanks the WWDC for the initial grant funding. We truly value the WWDC's partnership and support toward all past, present, and future Sheridan Area Water System projects.

Respectfully Yours,

Richard Bridger, Mayor
City of Sheridan

**CITY OF SHERIDAN
RESOLUTION 58-23**

A RESOLUTION AUTHORIZING THE RELINQUISHMENT OF A WYOMING WATER DEVELOPMENT COMMISSION (WWDC) GRANT FOR LEVEL III CONSTRUCTION FUNDING FOR THE SHERIDAN AIRPORT WATER TRANSMISSION MAIN PROJECT.

WHEREAS, the Sheridan Water System Master Plan identified the replacement and upsizing of the Sheridan Airport Water Transmission Main (Project) as the highest priority for transmission main rehabilitation projects; and

WHEREAS, in September 2020, the City of Sheridan submitted an application to the WWDC for Level III Construction Funding based on a total project cost estimate of 4,630,000; and

WHEREAS, the City of Sheridan received WWDC Level III Construction Funding (Grant) in the amount of \$3,102,100 which was 67% of the estimated total project cost; and

WHEREAS, the project design is complete and the engineer's updated project estimate is in the amount of \$11,323,339 citing inflation, supply chain issues, and other factors contributing to the current high costs estimated to construct this project; and

WHEREAS, the City of Sheridan feels constructing the Project, at the cost currently estimated, is not justifiable and it would be more fiscally responsible to maintain the Project in its current state where it will still remain effective in serving its purpose; and

WHEREAS, the City of Sheridan desires to relinquish the \$3,102,100 in Grant funding appropriated by the State Legislature, and provided to the City of Sheridan, for this Project; and

WHEREAS, the City of Sheridan will reimburse the WWDC for all funds received and expended from the Grant which is currently estimated to be \$252,401.05

BE IT RESOLVED BY THE CITY GOVERNING BODY OF THE CITY OF SHERIDAN;

- (1) Hereby relinquishes the WWDC Level III Construction Funding received in the amount of \$3,102,100 for the Sheridan Airport Water Transmission Main Project.
- (2) Shall reimburse the WWDC for any and all grant monies received to date currently estimated at \$252,401.05

PASSED, APPROVED AND ADOPTED this 16th day of October, 2023.

City of Sheridan


Richard Bridger, Mayor

ATTEST:


Cecilia Good, City Clerk

Candace Anstine
Assistant City Clerk

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Sheridan Northeast Transmission Main Extension 2023 **Program:** New Development

Project Type: Municipal

County: Sheridan

Sponsor: City of Sheridan

Proposed Budget Increase: \$ 0

Sponsor's Request: \$2,447,510

Proposed Total Budget: \$213,060

WWDO Recommendation: Do Not Fund

	Existing	Recommended Changes	Revised Budget
WWDC Grant ¹	\$ 213,060 (67%)	\$ 2,351,700 (67%)	\$ 2,564,760 (67%)
Sponsor ²	\$ 104,940 (33%)	\$ 1,158,300 (33%)	\$ 1,263,240 (33%)
Total	\$ 318,000 (100%)	\$ 3,510,000 (100%)	\$ 3,828,000 (100%)

¹ Not to exceed 67% of eligible project costs

² Sponsor or other funding

Project Manager: Mallo

Project Description: The proposed water transmission main was described in the 2019 Sheridan Water System Master Plan, Level I Study, and is intended to extend the water supply system through an area of Sheridan that is currently underserved, both on a location and capacity basis. The extension will complete a transmission loop for the City and will provide major water transmission improvements to the northeast side of Sheridan to meet domestic needs, improve health and safety, improve pressure, and increase fire flows in the area. The Project was approved for pre-construction funds in 2023 and that work has just started.

The Project was expected to receive WWDC construction funds in 2025. However, the City has requested the funds at this time. Based on current funding availability, and the progress of the design (<30% complete) and easement procurement (none documented at this time), the Project is not recommended to receive WWDC funds this year. However, this project is recommended to receive construction funds after the design has reached at least 50% and all access easements have been obtained.

**CITY OF SHERIDAN
RESOLUTION 48-23**

A RESOLUTION AUTHORIZING THE AMENDMENT OF AN APPLICATION TO THE WYOMING WATER DEVELOPMENT COMMISSION FOR LEVEL III CONSTRUCTION FUNDING.

WHEREAS, the Sheridan Water System Master Plan identified the Northeast Transmission Main Extension project as the number two priority transmission main project in the Sheridan area water system and the number one priority project within the City's portion of the water system; and

WHEREAS, this water transmission main extension would satisfy a critical water supply need for northeast Sheridan while providing redundancy and improving the water supply capacity of the overall water system; and

WHEREAS, the City of Sheridan submitted an application in August 2022, requesting \$2,305,575.19 which is 67% of the estimated total project cost, of which \$213,060.00 was awarded for the design only; and

WHEREAS, the project is now in design with easements anticipated to be secured by November 2023; and

WHEREAS, the City of Sheridan is now requesting funding for the construction of this project by way of an amendment to the previously approved grant; and

WHEREAS, based on current estimates for construction be higher, the City of Sheridan is requesting an increased in WWDC grant, in the amount of \$2,660,570.00, which is 67% of the updated total project costs of \$3,971,000.00; and


WHEREAS, the City of Sheridan is committing to fund its sponsor's 33% match in the form of a \$1,310,430.00 Drinking Water State Revolving Fund (DWSRF) loan.

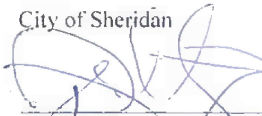
BE IT RESOLVED BY THE CITY GOVERNING BODY OF THE CITY OF SHERIDAN:

- (1) That a Level III funding application amendment, requesting \$2,660,570.00 in WWDC Level III Construction Funding, be submitted to the WWDC for the above described project.
- (2) The City of Sheridan plans to apply for a \$1,310,430.00 DWSRF loan for its 33% sponsor's match.

PASSED, APPROVED AND ADOPTED this 18th day of September, 2023.

ATTEST:


Cecilia Good, City Clerk

City of Sheridan

Richard Bridger, Mayor Pro Tempore
Terry Weitzel



2023 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Sheridan Northeast Transmission Main Extension 2023 **Program:** New Development

Project Type: Municipal **County:** Sheridan

Sponsor: City of Sheridan

WWDO Recommendation: Level III **Proposed Budget:** \$213,060
(Pre-Construction Only)¹

Current Recommendation:	
WWDC Grant ² (67%)	\$ 213,060
<u>Other Funding Source³ (33%)</u>	<u>\$ 104,940</u>
Total	\$ 318,000

Funding for Total Project:	
WWDC Grant ²	\$ 1,577,850
<u>Other Funding Source³</u>	<u>\$ 777,150</u>
Total	\$ 2,355,000

¹ Pre-Construction costs consist of: Design, Bidding Documents, Access Permits, Easements and Title Opinion

² Not to exceed 67% of eligible project costs

³ Sponsor or Other funding source

Project Manager: Larry Mallo

Project Description: The proposed water transmission main was described in the 2019 Sheridan Water System Master Plan, Level I Study, and is intended to extend the water supply system through an area of Sheridan that is currently underserved, both on a location and capacity basis. The extension will complete a transmission loop for the City and will provide major water transmission improvements to the northeast side of Sheridan to meet domestic needs, improve health & safety, improve pressure, and increase fire flows in the area.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2018	L-I, Sheridan Water Master Plan	\$ 250,000

2. Describe existing water supply using information in the application.

The City of Sheridan's water is from direct flow rights from a diversion dam and headgate on Big Goose Creek and storage rights in Twin Lakes Reservoir, Park Reservoir, and Dome Lake. Water is provided from the storage reservoirs to the City via gravity flow with a capacity of 25 MGD treated through two water treatment plants. Treated water is stored in 9 buried concrete tanks with 13.9 MG of collective storage and is distributed to the City and surrounding areas through transmission mains and distribution lines.

3. Summarize the request.

To construct a new transmission main to improve service to the northeast side of Sheridan.

4. Summarize the reasons for the request.

The 2019 Sheridan Water Master Plan, Level I Study identified the critical need to install this new transmission main pipeline to improve water quality, pressure, and flow to the northeast side of Sheridan due to the age, condition, pipe material, and size of the existing distribution system that extends into this area.

Estimated Level III WWDC Eligible Costs:

Preparation of Final Designs and Specifications	\$ 143,000	
Site Access Permit Fees (BOR, USFS, etc.)	\$ 20,000	
Title Opinion	\$ 5,000	
Acquisition of Access and Rights of Way	<u>\$ 150,000</u>	
Pre-Construction Costs (Subtotal # 1)		\$ 318,000
Cost of Project Components		
Mobilization	\$ 112,500	
10,900' of 16" Main	\$ 1,018,000	
Crossing I-90	\$ 277,000	
Connections	<u>\$ 22,500</u>	
Construction Cost (Subtotal #2)		\$ 1,430,000
Construction Engineering Costs (Subtotal # 2 x 10%)		<u>\$ 143,000</u>
Components and Engineering Costs (Subtotal # 3)		\$ 1,573,000
Contingency (Subtotal #3 x 15%)		<u>\$ 235,950</u>
Construction Cost Total (Subtotal #4)		\$ 1,808,950
Total Project Cost (Subtotal #1 + Subtotal #4)		\$ 2,126,950
Inflation Costs (4% per 1 year)		\$ 85,078
COVID Specific Inflation Costs (10%) Project components		<u>\$ 143,000</u>
Total Project Costs		\$ 2,355,028
Total Project Costs (Rounded)		\$ 2,355,000
Level III Recommended Funding @ 67% Grant – Total Costs:		\$ 1,577,850
Level III Recommended Funding @ 67% Grant - Pre-Construction Only		\$ 213,060
Ineligible Expenses		
Total Ineligible Project Costs		\$ 0

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information

a. Population (2020 Census) 18,737 (City Only) (Current Estimate) 19,200 (City & SAWS JPB combined)

b. Does the entity have a comprehensive planning boundary? Yes

If so, what is the estimated additional population that could be served in the future? 20,000.

	Pre-Project	Post Project
c. Taps served within the entity boundaries?	8,295	8,400
d. Taps outside the entity boundaries?	2,000+	2,000+
e. Names of other water systems served?	Raw water is supplied to the Veteran Affairs Medical Center. In addition to the City and the Sheridan Area Water Supply Joint Powers Board (SAWS JPB), treated water is supplied to the Downer Improvement and Service District, and State Girl's School.	
2. Water Usage (Potable water system only)	Pre-Project	Post Project
a. Total number of gallons produced by the water sources annually:	942 MG	942MG
b. Gallons used <u>per capita</u> per day:		
Average Day:	140	140
Peak Day:	380	380
3. System capacity (Potable water system only):	Pre-Project	Post-Project
a. Maximum capacity of the water supply system		
Acre feet per day:	77	77
Gallons per day:	25 MGD	25 MGD
b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.):	None	None
No current bottlenecks, but the capacity of the intake facility could become a bottleneck in the long-term future and eventually, surface water supply will become the limiting factor.		
c. Increased capacity needed:	No increase needed	
Acre feet per day	0	0
Gallons per day	0	0
d. Estimated system water losses (percentage):	~10-15%	~10-15%
4. Does the entity have an independent raw water irrigation system? Yes, for the cemetery and the golf course; not for individual users within the City/SAWS JPB system. The SAWS JPB system has several neighborhoods with separate irrigation systems and separate systems are required when irrigation rights are available. There is a 3.0 cfs water right for the cemetery, which is completely separate from other municipal water supply. Raw water capacity is also available in the 30-inch transmission main for the Kendrick Golf Course and VA Medical Center.		
a. Raw water system capacity (acre feet per day & gallons per day):	3.21AF/day, 1.05MG/day	
b. Average annual raw water usage (acre feet & gallons):	675AF, 220MG	

5. Rates	Pre-Project	Post-Project
a. Tap fees:		
Residential: (3/4" - 1")	\$ 3,000	\$ 3,000
Commercial: (1")	\$ 5,010	\$ 5,010
b. Average monthly water bill: (3/4")	\$ 32.73	\$ 32.73
c. Water Rates		
<u>Base for 3/4" residential:</u>		
3/4" \$19.89 for 1500 Gallons, \$1.92/1000 for 1500-6000 Gallons, \$2.63/1000 gallons above that.		
Note: Water rates will not change because of the project, but rates are reviewed regularly and adjusted as required.		

6. Financial Statement	Pre-Project	Post-Project
Annual revenues generated from water sales:	\$ 3,859,800	\$ 3,976,366
Annual revenues from tap fees:	\$ 421,700	\$ 425,917
Annual revenues from other sources:	<u>\$ 1,192,880</u>	<u>\$ 1,216,738</u>
Total annual revenues:	\$ 5,474,380	\$ 5,619,021
Annual budget for operation and maintenance expenses:	\$ 3,162,410	\$ 3,230,890
Annual payments for debt retirement:	\$ 981,944	\$ 1,198,393
Annual payments to a repair and replacement fund:	\$ 543,449	\$ 558,619
Annual payments to an emergency fund:	\$ 17,120	\$ 17,606
Annual payments for other purposes:	<u>\$ 553,886</u>	<u>\$ 151,000</u>
Total annual payments:	\$ 5,258,809	\$ 5,156,508
Balance in repair and replacement fund: O&M & Capital Cash & Depreciation Reserves	\$ 2,910,585	\$ 3,729,971
Balance in emergency fund: Emergency items are paid out of Operations, and Capital & Depreciation Reserve Accounts	\$ 607,677	\$ 624,797
Annual cost of water quality testing:	\$ 48,224	\$ 49,429

B. COMPARISON WITH OPERATING CRITERIA

1. Project Priority according to the Criteria? Account I, Priority 3 – Level III transmission pipelines
2. Is the project supported by the City Council or County Commission, which has jurisdiction over the project area? Yes
3. Will the project serve at least 15 water taps? Yes Number of taps 8,295
4. Is the sponsor under any federal (EPA) mandates to improve your system? (eg. Administrative orders, violations, actions taken): No
5. Does anyone in the service area haul water? No
6. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they: MRG, DWSRF, ARPA

7. Is water metered? Yes Are billings based on meter readings? Yes
8. What is monthly water bill for 5,000 gallons? \$26.61 20,000 gallons? \$65.35
9. Theoretical reasonable monthly water bill (\$59,380 (AMHI) x 2.5%/12) \$123.71 (Sheridan County)
10. What water conservation measures are employed by the sponsor? Yes, this system has had a successful water conservation program. The City publishes notices and encourages smart water usage. Tiered water rates are used to encourage conservation.
11. Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds and emergency funds? Yes
12. Will the project consider regional solutions? No, regional solutions were considered in 2019 Level I.
13. Can the project be delayed or staged? No Should it be? No, see below
14. Basis for the funding recommendation: The 2019 Sheridan Water Master Plan, Level I Study identified the replacement of the Sheridan Airport Transmission Main Project as the highest priority project, which is in design. This request for a WWDC 2023 Level III main transmission pipeline extension is a critical next step need of the Sheridan combined water supply system.

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Small Water Project Program

Project Name: Small Water Project Program

Program: New Development

Project Type: Multipurpose

County: Statewide

Sponsor: WWDC

WWDO Recommendation: Level III (continuing)

Proposed Budget Increase: \$1,000,000

and extend the sunset date for the Program

	New Development (WDA I)
Presently available (as of 10/31/2023)	\$ 325,120
Proposed budget increase	<u>\$ 1,000,000</u>
Revised available	\$ 1,325,120

Project Description: This Program provides funding for small water projects including small reservoirs, wells, pipelines and conveyance facilities, springs, solar platforms, irrigation works, windmills, environmental projects, rural community fire suppression, recreational, and wetland developments. The Program sunsets on July 1, 2025.

1. Description of the existing status in the program and previous appropriations.

EXISTING LEGISLATION-New Development

<u>Purpose</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Due Date</u>
Small Projects	14	2014	I	\$600,000	2025
Small Projects	100	2015	I	\$500,000	2025
Small Projects	100	2016	I	\$750,000	2025
Small Projects	121	2018	I	\$750,000	2025
Small Projects	55	2019	I	\$2,000,000	2025
Small Projects	113	2020	I	\$1,063,000	2025
Small Projects	12	2021	I	\$1,000,000	2025
Small Projects	93	2022	I	\$1,000,000	2025
Small Projects	180	2023	I	\$1,000,000	2025

2. Summary of the request.

The WWDO is recommending that the authorization of the Program be ongoing, the sunset date for the Program be extended or eliminated, and an additional \$1,000,000 be appropriated to meet the anticipated project application demands.

3. Program Statistics:

Current Active Account I Projects: 126

Application History:

Year	# of Account I Applications	Total # of Project Sponsors (between both accounts)	Estimated WWDC Account I Project Cost
2014	35	7	\$816,080
2015	33	8	\$806,830
2016	14	6	\$313,525
2017	25	9	\$612,760
2018	50	10	\$1,295,654
2019	61	14	\$1,693,617
2020	77	17	\$2,034,290
2021	55	12	\$1,546,675

2022	59	17	\$1,655,200
2023	49	13	\$1,636,150

LEVEL II PROJECTS

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

MUNICIPAL/JOINT POWERS WATER BOARD WATER SYSTEMS

Project Name: Burns Groundwater Supply

Program: New Development

Project Type: Municipal Water System

County: Laramie

Sponsor: Town of Burns

WWDO Recommendation: Do Not Fund

Proposed Budget: \$0

Basis for the Funding Recommendation:

The Sponsor is an eligible entity and desires a study to evaluate the feasibility of developing deep aquifer supplies to augment their existing wells.

Project Manager: George Moser

I. PROJECT DESCRIPTION

This project will evaluate the Lance Formation and Fox Hills Sandstone, combined with the Town's existing infrastructure and wells, to evaluate the feasibility of adding additional groundwater supply to their system.

The Town of Burns is a growing community with several new subdivision applications submitted within the last two years. The Town currently utilizes six wells, completed in the High Plains Aquifer System for its supply. Well water is delivered by dedicated transmission lines to two storage tanks in town before delivery to residents. Based on recent exploration efforts by Pine Bluffs and the U.S. Geological Survey, it would appear that water is available in horizons below the High Plains Aquifer, and of sufficient quality to blend with existing supplies in order to develop additional capacity. This study will involve the siting, and drilling of test holes, monitoring wells, and potentially a production-sized hole. If the test holes demonstrate promise, long-term aquifer testing will be performed to assess aquifer parameters, and evaluate local hydrogeologic conditions.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Burns Water Supply	I	66	2009	I	\$ 85,000	2012
Burns Storage Tank	III	68	2010	I	\$ 930,000	2015
Burns Well	II	1	2011	I	\$ 350,000	2014
Burns Well Connection	III	141	2013	I	\$ 1,214,000	2018

2. Describe the location of the project:

The Town of Burns is in Laramie County. Burns is within the State Engineer's Office, Laramie County Control Area, with new Water Rights activity subject to the Laramie County Control Area Order. Units comprising the Lance Formation and the Fox Hills Sandstone are defined as "Underlying Units" within that Order, and have spacing restrictions from other Underlying Unit wells.

3. Summarize the request:

The Town of Burns is seeking assistance to site, drill, test, and evaluate the feasibility of adding deep aquifer water to their system.

4. Summarize the reasons for the request:

The Sponsor’s current wells are completed in the High Plains Aquifer system. Depending on neighboring agricultural operations, these wells occasionally have elevated nitrate/nitrite levels. While these detections are within acceptable limits for now, they have prompted the Sponsor to evaluate additional and alternate sources of supply. In addition, the regional population is increasing, and the Sponsor anticipates serving additional customers in the near future.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes

A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?

N/A

2. Project Priority According to WWDO Criteria: Acct I - Priority 6: LII Feasibility Studies
(Use Attachment III of the operating criteria.)

3. Will the project serve at least 15 water taps? Yes

A. Number of Taps: 180

4. Is the sponsor eligible for funding from other state or federal programs? Yes

A. If so, what are they (RUS, SRF, other)? SRF

5. Is the Sponsor under any federal (EPA) mandates to improve its system? (e.g., Administrative Orders, violations, actions taken, etc.)? No

6. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system?

The Town of Burns does not currently serve any users outside the Municipal boundary; however, they do anticipate this in the future and (with the appropriate capacity) would be supportive of those efforts.

7. What is the monthly water bill for 5,000 gallons? \$27

A. 20,000 Gallons? \$27

8. Can the project be delayed or staged? Yes

A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. EPA Public Water System (PWS) Identification Number: WY-5600188

B. Groundwater

(1) Number of Wells: 6

(2) Primary Supply Aquifer(s) or Formation(s): High Plains Aquifer System

(3) Total Average Production Yield of All Wells (GPM): 660 gpm

C. Surface Water

(1) Source Name(s): N/A

(2) Type of Diversion(s) (Headgate, Infiltration Gallery, Pumps, Etc.): N/A

(3) Total Average Diversion Yield (CFS of GPM): N/A

D. Springs

(1) Name of Spring(s): N/A

(2) Total Average Production Yield of All Springs (CFS or GPM): N/A

E. Water Rights

(1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

F. Transmission Pipeline

(1) Maximum Capacity of the Transmission Pipeline(s) (Gallons per Day): Transmission Pipeline Capacity is limited by well production

(2) Increased Capacity Needed (If Known) (Gallons per Day): Unknown

(3) Approximate Distance from Source(s) to Distribution System: 100 feet to ¼-mile to manifold for chlorination point.

(4) Transmission Pipe Diameter(s): 6-, 8-, and 10-inch

(5) Type of Transmission Pipe Material(s): PVC

(6) Age of Transmission Pipeline(s): 10 years

(7) Condition of Transmission Pipeline(s): good

(8) Does the applicant possess clear title to transmission corridor easements? Yes

G. Water Storage

(1) Raw (Volume and Tank Description): 0

(2) Treated (Volume and Tank Description): 2 – 200,000 gallon, above ground tanks

H. Treatment

(1) Specify Water Treatment (None, Chlorination, Filtration, Etc.): Chlorination

2. Existing Water Distribution System

A. Is the water use metered? Yes

B. Are billings based on meter readings? Yes

C. Identify unmetered usage (e.g., irrigation of parks, cemeteries, fire protection, etc.):

Fire Protection

D. Average Day Demand Water Usage (Gallons per Capita per Day): 292

E. Maximum Day Demand Water Usage (Gallons per Capita per Day): 688

F. Peak Hourly Demand Water Usage (Gallons per Capita per Day): 2,736

G. Distribution Pipe Diameter(s): 6- and 8-inch

H. Type of Distribution Pipe Material(s): PVC

I. Age of Distribution Pipeline(s): 10+ years

J. Condition of Distribution Pipeline(s): Good

K. Estimated System Water Losses (Percentage): <5%

L. Describe any fire flow protection that the system provides:

Hydrants, schools, some municipal buildings

M. What water conservation measures are employed?

Metered billing and town ordinance re: watering hours

N. Is there an independent raw water irrigation system? no

(1) Raw Water System Capacity (Gallons per Day): N/A

(2) Average Annual Raw Water Usage (Gallons per Year): N/A

3. Demographic Information and Existing Water Service Area

A. Population (2020 Census): 301

B. Current Population Estimate: 356, but over 700 with School

- C. Does the applicant have a comprehensive planning boundary? Yes
 - (1) If so, what is the estimated additional population that may be served in the future? 60 houses
- D. How many taps are served within the corporate limits/JPB service area? 180
- E. How many taps are served outside of the corporate limits/JPB service area? 0
- F. Identify names of other water system served: N/A
- G. Identify any existing planning reports (municipal or county) that address growth management in the project area. Provide titles and how copies of the reports could be obtained:
 - Town of Burns Development Standards – in process

4. Financial Information

A. Rates

- (1) Tap Fee(s) – Residential: \$1,000
- (2) Tap Fee(s) – Commercial: \$1,000
- (3) Average Residential Monthly Water Bill and Corresponding Gallons Used:
 - \$27 for first 20,000 gallons
- (4) Water Rates (Provide rates for all tiers and categories of use. Attach additional pages as needed.):
 - \$27 for first 20,000 gallons per meter. \$0.50 per each additional 1,000 gallons. Bulk sales rate is \$25 per 1,000 gallons
- (5) Identify any local conditions that affect water rates (e.g., flow-through for frost prevention, etc.):
 - N/A

B. Financial Statement (of Water Utility)

(1) Revenues

a. Annual Revenues Generated from Water Sales:	\$ 157,508
b. Annual Revenues from Tap Fees:	\$ 4,000
c. Annual Revenues from Other Sources:	\$ 97,076
d. Total Annual Revenues:	\$ 258,584

(2) Expenditures

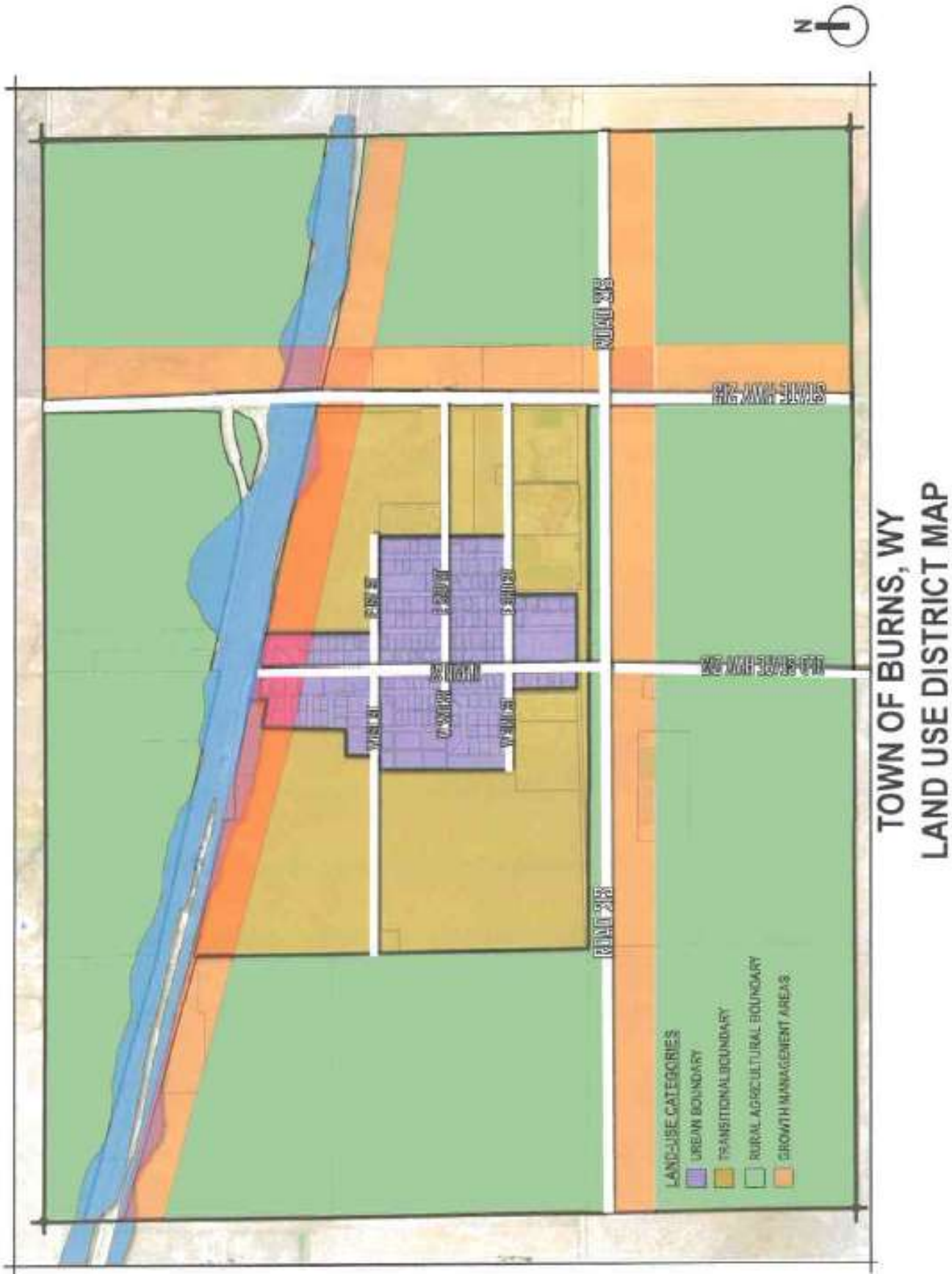
a. Annual Budget for Operation and Maintenance Expenses:	\$ 155,067
b. Annual Payments for Debt Retirement:	\$ 0
c. Annual Payments to a Repair and Replacement Fund:	\$ 40,000
d. Annual Payments to an Emergency Fund:	\$ 0
e. Annual Payments for Other Purposes:	\$ 10,000
f. Total Annual Payments:	\$ 205,067

(3) Other

a. Balance in Repair and Replacement Fund:	\$ 312,977
b. Balance in Emergency Fund:	\$ 146,571
c. Annual Cost of Water Quality Testing:	\$ 4,900

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes

PROJECT AREA MAP



PHOTOS

NORTH STORAGE TANK



SOUTH STORAGE TANK AND MANUFACTURER'S PLATE



GROUNDWATER WELLS



A2



A3



A4



A5



A6



A7

RESOLUTION

RESOLUTION No: 02-13-2023-01

A RESOLUTION AUTHORIZING THE SUBMISSION OF AN APPLICATION TO THE WYOMING WATER DEVELOPMENT COMMISSION FOR ASSISTANCE IN DEVELOPING A DEEP WELL TO SERVE THE TOWN OF BURNS.

WHEREAS, the Council of the Town of Burns wishes to provide the best possible service to our residents, and

WHEREAS, continued water testing shows a steady increase in the nitrate/nitrite levels in our water supply, and

WHEREAS, a well to be developed in a different aquifer will allow the Town to mix water supplies, thus reducing the levels of undesired contaminants,

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE TOWN OF BURNS, LARAMIE COUNTY, WYOMING, THAT SUBMISSION OF AN APPLICATION TO THE WYOMING WATER DEVELOPMENT COMMISSION REQUESTING ASSISTANCE WITH DEVELOPMENT OF A DEEP WELL IS HEREBY AUTHORIZED.

ADOPTED by the Burns Town Council this 13TH day of February, 2023.


James F Clark, Mayor


Richard Lakin, Council Member


Ralph Bartels, Council Member


Joseph Nicholson, Council Member


Judith Johnstone, Council Member

Attest 
Toni Shery, Town Clerk/Treasurer




Notary Public

Date: May 7, 2023

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

MUNICIPAL/JOINT POWERS WATER BOARD WATER SYSTEMS

Project Name: Cody Area Evaluations 2024

Program: New Development

Project Type: Municipal Water System

County: Park

Sponsor: City of Cody

WWDO Recommendation: Level II

Proposed Budget: \$139,000

Basis for the Funding Recommendation:

The sponsor is the City of Cody and a 2021 Water Master Plan was recently completed identifying the need for a Level II study to evaluate potential expansion areas of City water service.

Project Manager: Chace Tavelli

I. PROJECT DESCRIPTION

A WWDC Master Plan was completed in 2021 for the City of Cody. In that study, seven areas were identified where water service could be expanded in the future. This project will be to evaluate three of the seven areas for potential expansion. The City of Cody staff believe the three areas in question present the greatest level of opportunity to expand the City's treated water system and provide expansion to their water service area. The study will include an evaluation of the necessary infrastructure to accommodate the future service areas. This could include but not be limited to pumping, transmission, and storage.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Cody Area Water Supply	II	8	1995	I	\$ 75,000	1998
Cody Area Water Supply (Valley View)	III	59	1996	I	\$ 785,000	2001
Cody Raw Water	III	45	1997	II	\$ 850,000	2002
Cody Master Plan	I	33	2008	I	\$ 100,000	2011
Cody West Transmission Pipeline	III	14	2012	I	\$ 408,700	2017
Cody Tank 2017	III	75	2017	I	\$ 2,412,000	2022
Cody Water Master Plan	I	150	2020	I	\$ 205,000	2023

2. Describe the location of the project:

The project is located in the City of Cody, Park County, in northwestern Wyoming, Yellowstone River Basin.

3. Summarize the request:

Cody is requesting a Level II Feasibility study for potential expansion of City water services into three specific areas identified by the City. The goals of the study are to evaluate the specific water system pumping, storage, and transmission infrastructure needed to serve these areas, and to identify the most cost-effective alternatives for phasing of construction projects in the future.

4. Summarize the reasons for the request:

The three growth areas were identified in the 2021 Water Master Plan. The City of Cody feels it is necessary to evaluate the feasibility of expanding to these three areas as they present the greatest level of opportunity to expand the City's treated water system and provide expansion of the water service area.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes
 - A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?
N/A
2. Project Priority According to WWDO Criteria: Acct I - Priority 6: LII Feasibility Studies
(Use Attachment III of the operating criteria.)
3. Will the project serve at least 15 water taps? Yes
 - A. Number of Taps: 5,173
4. Is the sponsor eligible for funding from other state or federal programs? Yes
 - A. If so, what are they (RUS, SRF, other)? RUS, SRF
5. Is the Sponsor under any federal (EPA) mandates to improve its system? (e.g., Administrative Orders, violations, actions taken, etc.)? No
6. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system? Yes
7. What is monthly water bill for 5,000 gallons? \$41.30 for ¾" water meter size
 - A. 20,000 Gallons? \$86.75 for ¾" water meter size
8. Can the project be delayed or staged? Yes
 - A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. EPA Public Water System (PWS) Identification Number: WY5600207

B. Groundwater

- (1) Number of Wells: 0
- (2) Primary Supply Aquifer(s) or Formation(s): N/A
- (3) Total Average Production Yield of All Wells (GPM): N/A

C. Surface Water

- (1) Source Name(s): Buffalo Bill Reservoir
- (2) Type of Diversion(s) (Headgate, Infiltration Gallery, Pumps, Etc.): Reservoir intake via Shoshone Municipal Pipeline
- (3) Total Average Diversion Yield (CFS or GPM): Unknown. Cody is supplied by Shoshone Municipal Pipeline (SMP)

D. Springs

- (1) Name of Spring(s): N/A
- (2) Total Average Production Yield of All Springs (CFS or GPM): N/A

E. Water Rights

- (1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights?

Water rights are held by the Shoshone Municipal Pipeline (SMP)

F. Transmission Pipeline

- (1) Maximum Capacity of the Transmission Pipeline(s) (Gallons per Day): 22 MGD (SMP)

- (2) Increased Capacity Needed (If Known) (Gallons per Day): N/A
- (3) Approximate Distance from Source(s) to Distribution System: SMP is Directly adjacent to the City
- (4) Transmission Pipe Diameter(s): SMP ranges from 36" to 8"
- (5) Type of Transmission Pipe Material(s): SMP is steel and PVC
- (6) Age of Transmission Pipeline(s): SMP – 35 years
- (7) Condition of Transmission Pipeline(s): SMP - excellent
- (8) Does the applicant possess clear title to transmission corridor easements? N/A

G. Water Storage

- (1) Raw (Volume and Tank Description): 0.85 MG steel tank
- (2) Treated (Volume and Tank Description): 0.25 to 2.0 MG (1 steel and 3 concrete)

H. Treatment

- (1) Specify Water Treatment (None, Chlorination, Filtration, Etc.): SMP filtration, chlorination

2. Existing Water Distribution System

- A. Is the water use metered? Yes
- B. Are billings based on meter readings? Yes
- C. Identify unmetered usage (e.g., irrigation of parks, cemeteries, fire protection, etc.):
Fire protection are not metered (fire hydrants and building sprinklers)
- D. Average Day Demand Water Usage (Gallons per Capita per Day): 133
- E. Maximum Day Demand Water Usage (Gallons per Capita per Day): 279
- F. Peak Hourly Demand Water Usage (Gallons per Capita per Day): 398
- G. Distribution Pipe Diameter(s): 2" up to 12"
- H. Type of Distribution Pipe Material(s): PVC, CIP, DIP, ACP
- I. Age of Distribution Pipeline(s): Significantly varies from new to 60+ years
- J. Condition of Distribution Pipeline(s): Excellent to poor
- K. Estimated System Water Losses (Percentage): 15% to 18%
- L. Describe any fire flow protection that the system provides:
Provided by the treated water distribution and storage system.
- M. What water conservation measures are employed?
Alternate day / 3 days per week lawn watering; public outreach and education about water use and conservation; water leak detection on approximately 33% to 50% of the distribution system each year.
- N. Is there an independent raw water irrigation system? Yes
 - (1) Raw Water System Capacity (Gallons per Day): Approximately 9 MGD
 - (2) Average Annual Raw Water Usage (Gallons per Year): Approximately 700 million gallons per season (May through September)

3. Demographic Information and Existing Water Service Area

- A. Population (2020 Census): 10,028
- B. Current Population Estimate: 10,174
- C. Does the applicant have a comprehensive planning boundary? Yes
 - (1) If so, what is the estimated additional population that may be served in the future? Unknown
- D. How many taps are served within the corporate limits/JPB service area? 5,173
- E. How many taps are served outside of the corporate limits/JPB service area? 9

F. Identify names of other water systems served:

Parkway Trailer Park, Buffalo Bill Visitor's Center, Wild West Partners, Pioneer Properties LLC, and Jubys Mobile Home Court.

G. Identify any existing planning reports (municipal or county) that address growth management in the project area. Provide titles and how copies of the reports could be obtained:

City of Cody Master Plan (2014); <https://www.codywy.gov/DocumentCenter/View/945/Cody-Master-Plan-Final>

4. Financial Information

A. Rates

(1) Tap Fee(s) – Residential: ¾" = \$1,600 (\$1,000 tap fee and \$600 system investment fee)

(2) Tap Fee(s) – Commercial: varies by meter size and is calculated per individual tap

(3) Average Residential Monthly Water Bill and Corresponding Gallons Used:

¾" tap = \$41.30 for 5,000 gallons

(4) Water Rates (Provide rates for all tiers and categories of use. Attach additional pages as needed.):

See attached rate sheet

(5) Identify any local conditions that affect water rates (e.g., flow-through for frost prevention, etc.): None

B. Financial Statement (of Water Utility)

(1) Revenues

a. Annual Revenues Generated from Water Sales:	\$ 3,799,000
b. Annual Revenues from Tap Fees:	\$ 47,000
c. Annual Revenues from Other Sources:	\$ 4,500
d. Total Annual Revenues:	\$ 3,850,500

(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$ 4,133,000
b. Annual Payments for Debt Retirement:	\$ 0
c. Annual Payments to a Repair and Replacement Fund:	\$ 0
d. Annual Payments to an Emergency Fund:	\$ 0
e. Annual Payments for Other Purposes:	\$ 557,000
f. Total Annual Payments:	\$ 4,690,000

(3) Other

a. Balance in Repair and Replacement Fund:	\$ 2,176,000
b. Balance in Emergency Fund:	\$ 2,082,000
c. Annual Cost of Water Quality Testing:	\$ 5,000

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes

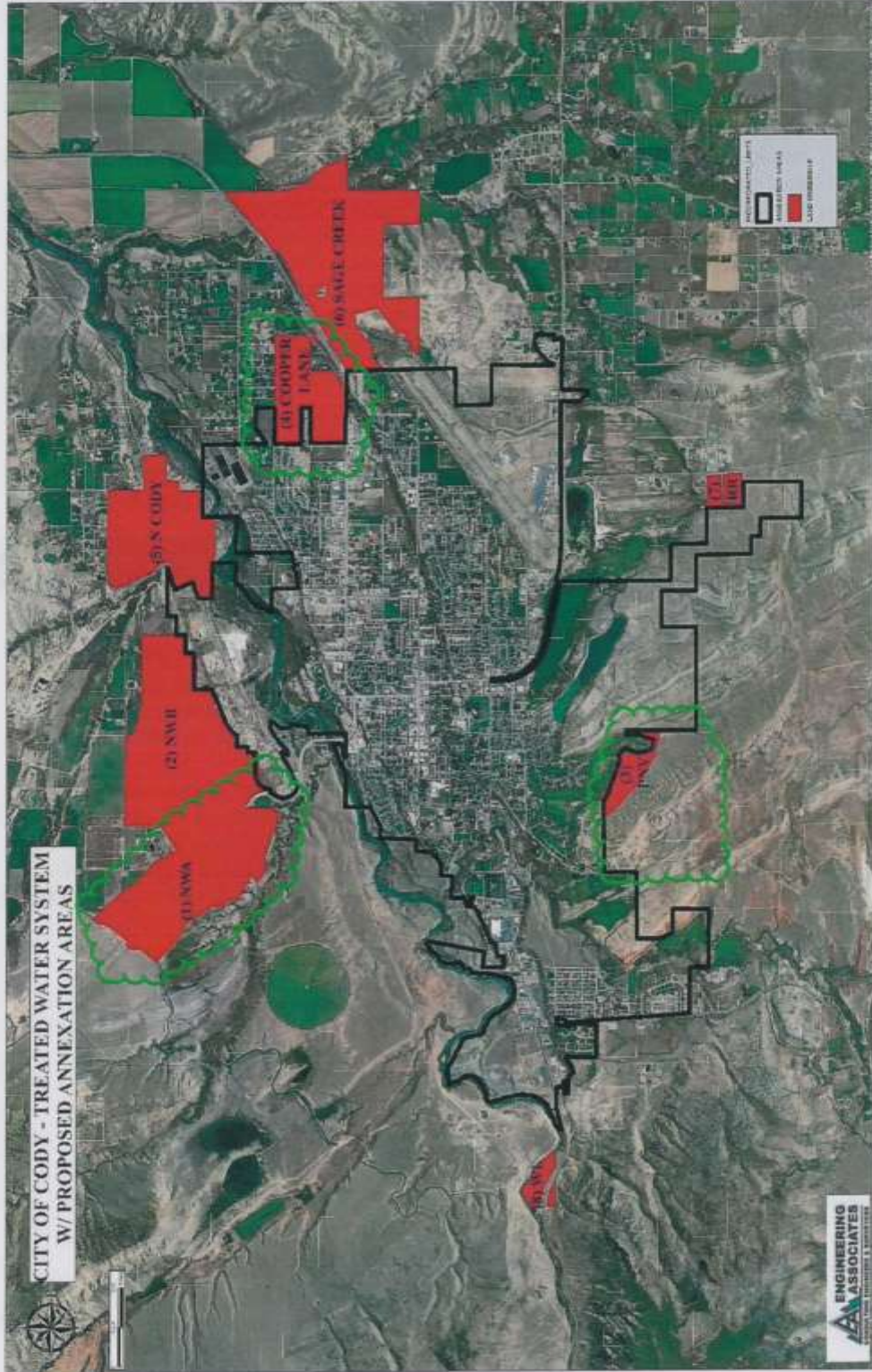
a. If not, how is the difference subsidized?

The Water Enterprise Fund is not subsidized by the General Fund or any other sources. The difference of Revenues vs. Expenses (approximately \$867,000) includes non-cash depreciation of approximately \$557,000 and use of the Fund's Available Reserves for the remainder of the shortfall.

WATER RATES

Treated Water			
All treated water delivered to any water user by means of the City's water system shall be measured by a water meter. Charges for such water use are as listed below.			
Water Meter Size	SMP Pass-Through Charge	Monthly Base Rate	Monthly Charge per Each 1,000 Gallons of Usage
3/4 "	\$11.00	\$15.15	\$3.03
1"	\$22.00	\$30.30	\$3.03
1 1/2"	\$44.00	\$60.60	\$3.03
2"	\$77.00	\$106.05	\$3.03
3"	\$176.00	\$242.40	\$3.03
4"	\$308.00	\$424.20	\$3.03
6"	\$704.00	\$969.60	\$3.03
The SMP charge is a pass-through fee from Shoshone Municipal Pipeline. The monthly base rate is collected to offset system operation and maintenance costs.			

Diagram 4.1 – Proposed Annexation Areas



PHOTOS



Potential Expansion Area



Potential Expansion Area



Potential Expansion Area

RESOLUTION

RESOLUTION 2023 – 03

A RESOLUTION AUTHORIZING SUBMISSION OF A FUNDING APPLICATION TO THE WYOMING WATER DEVELOPMENT COMMISSION ON BEHALF OF THE CITY OF CODY FOR THE PURPOSE OF COMPLETING THE EAST AND NORTHWEST GROWTH AREAS FEASIBILITY EVALUATION - LEVEL II STUDY

WHEREAS, the City Council for the City of Cody recognizes the importance to perform long-term planning and project prioritization for infrastructure investment and upgrades in the City’s treated water system to ensure that cost effective water service is provided to its customers; and

WHEREAS, the City of Cody worked in cooperation with the Wyoming Water Development Commission to complete the “City of Cody Master Plan – Level I Study” in October 2021 which provides an existing conditions and future conditions analysis of the treated water and raw water distribution systems, identifies specific projects and priorities for capital investment over a twenty-year planning horizon, and recognizes potential areas of growth around the existing incorporated city limits; and

WHEREAS, the City of Cody will utilize funds from the Water Fund Enterprise Account to provide the City-match amount required if funding is obtained through an application to the Wyoming Water Development Commission; and

WHEREAS, the Wyoming Water Development Commission has outlined specific requirements be met for submission of a funding application, and to the best of our knowledge those requirements have been met.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Cody, Wyoming, that a funding application be submitted to the Wyoming Water Development Commission for the purpose of completing the “East and Northwest Growth Areas Feasibility Evaluation – Level II Study.” Furthermore, be it resolved that Matt Hall, Mayor, is hereby designated as the authorized representative to act on behalf of the City’s governing body on all matters relating to this grant application.

PASSED, APPROVED AND ADOPTED this 28th day of February, 2023.

[Handwritten signature of Matt Hall]

Matt Hall, Mayor,

ATTEST:

[Handwritten signature of Cindy Baker]

Cindy Baker, Administrative Services Director



STATE OF WYOMING)
) SS.
COUNTY OF PARK)

The foregoing instrument was subscribed and sworn to before me by Matt Hall this 1st day of March, 2023.

WITNESS my hand and official seal.

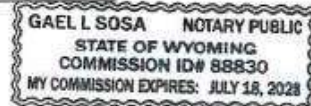
[Handwritten signature of Gael L. Sosa]

Notary Public

(S E A L)

My Commission Expires:

7/18/2028



2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

MUNICIPAL/JOINT POWERS WATER BOARD WATER SYSTEMS

Project Name: Greybull Water System Improvements

Program: New Development

Project Type: Municipal Water System

County: Big Horn

Sponsor: Town of Greybull

WWDO Recommendation: Level II

Proposed Budget: \$160,000

Basis for the Funding Recommendation:

The Town of Greybull is an eligible entity for WWDC funding and desires a study of the feasibility of repair and/or replacement for their primary water transmission line and storage tank.

Project Manager: George Moser

I. PROJECT DESCRIPTION

This project will evaluate the feasibility of repairing and/or replacing the primary transmission line and replacing the east-side storage tank. The project will consist of a condition assessment, hydraulic modeling, rights-of-way and easement evaluation, repair and replacement options, funding options, and recommendations.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Greybull Crossing and Tank Project	III	96	2000	I	\$ 1,850,000	2005
Greybull Raw Water	II	7	2002	I	\$ 50,000	2005
Greybull Highway 14 Crossing Project	III	69	2003	II	\$ 240,000	2008
Greybull Wells Rehabilitation	II	34	2004	II	\$ 475,000	2007
Greybull Pipeline and Well Improvements	III	75	2008	I	\$ 1,470,000	2013
Greybull Tank and Master Plan	I	74	2014	I	\$ 200,000	2017
Greybull Transmission Pipeline	III	55	2016	I	\$ 824,100	2021

2. Describe the location of the project:

Greybull is located on the banks of the Bighorn River, within Big Horn County. The “Shell Wells” are located near Shell. Shell is about 15-miles east of Greybull, along Shell Creek, at the base of the Bighorn Mountains. The project is located within the Bighorn Basin, an intermontane basin in north-central Wyoming. The Shell Wells primarily source water from the Madison Limestone, with contributions from the Bighorn Dolomite.

3. Summarize the request:

The Town of Greybull is requesting funding to complete system improvements on their water system. The system is predominantly supplied from three groundwater wells, with approximately 20 miles of transmission line conveying water to a one-million gallon storage tank. The transmission line was installed in the 1970s and the tank was built in the 1960s, and the town would like to evaluate options to ensure long-term reliability and operation of this system.

4. Summarize the reasons for the request:

In 2006, a Level II Study provided results for the testing and evaluation of the Greybull Water Transmission Pipeline. This study evaluated the 16.5-mile transmission pipeline, which consists of 12- and 14-inch diameter asbestos cement (AC) pipe. Portions of the pipeline were installed in the 1960s, with the final replacement in 1973. The 2006 study evaluated pipe flow conditions, performed leak detection testing, performed hydraulic modeling, and inspected, tested, and evaluated the physical condition of the pipe. At that time, generally the pipeline was a viable component of the Greybull water system. More recently, maintenance staff have been reporting increased leak and repair frequency, leading to questions regarding the long-term viability of the transmission line to supply water.

In 2015, a Level I Study provided an evaluation of Greybull's water storage, including the East Side 1.0 MG tank. The study concluded the tank was leaking, more than 50 years old, and had probably reached the end of its regular life cycle. The Study recommended replacing the tank at that time. In addition, a 2018 tank inspection report noted light staining and blistering throughout all wall quadrants, heavy surface corrosion and staining along roof panels and supports, and small isolated areas of corrosion and blistering throughout all floor quadrants.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes

A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?

N/A

2. Project Priority According to WWDO Criteria: Acct I - Priority 6: LII Feasibility Studies
(Use Attachment III of the operating criteria.)

3. Will the project serve at least 15 water taps? Yes

A. Number of Taps: 941

4. Is the sponsor eligible for funding from other state or federal programs? Yes

A. If so, what are they (RUS, SRF, other)? SRF

5. Is the Sponsor under any federal (EPA) mandates to improve its system? (e.g., Administrative Orders, violations, actions taken, etc.)? No

6. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system?

Yes, Greybull is part of the Big Horn Regional Joint Powers Board.

7. What is the monthly water bill for 5,000 gallons? \$42.01 for in-town, ¾" taps (See attached rate sheet)

A. 20,000 Gallons? \$53.41 for in-town, ¾" taps (See attached rate sheet)

8. Can the project be delayed or staged? Yes

A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. EPA Public Water System (PWS) Identification Number: WY5600022

B. Groundwater

(1) Number of Wells: 3

(2) Primary Supply Aquifer(s) or Formation(s): Madison Formation and Bighorn Dolomite

(3) Total Average Production Yield of All Wells (GPM): 1,560

C. Surface Water

- (1) Source Name(s): N/A
- (2) Type of Diversion(s) (Headgate, Infiltration Gallery, Pumps, Etc.): N/A
- (3) Total Average Diversion Yield (CFS or GPM): N/A

D. Springs

- (1) Name of Spring(s): N/A
- (2) Total Average Production Yield of All Springs (CFS or GPM): N/A

E. Water Rights

- (1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

F. Transmission Pipeline

- (1) Maximum Capacity of the Transmission Pipeline(s) (Gallons per Day): 3.46 mgpd
- (2) Increased Capacity Needed (If Known) (Gallons per Day): Unknown
- (3) Approximate Distance from Source(s) to Distribution System: Approximately 20 miles
- (4) Transmission Pipe Diameter(s): 12" and 14"
- (5) Type of Transmission Pipe Material(s): Asbestos Cement with PVC Components
- (6) Age of Transmission Pipeline(s): AC – 50+ years, PVC – 15+ years
- (7) Condition of Transmission Pipeline(s): fair
- (8) Does the applicant possess clear title to transmission corridor easements? yes

G. Water Storage

- (1) Raw (Volume and Tank Description): N/A
- (2) Treated (Volume and Tank Description): 1-million gallon, round, above ground, welded steel

H. Treatment

- (1) Specify Water Treatment (None, Chlorination, Filtration, Etc.): Chlorination

2. Existing Water Distribution System

- A. Is the water use metered? Yes
- B. Are billings based on meter readings? Yes

C. Identify unmetered usage (e.g., irrigation of parks, cemeteries, fire protection, etc.):

Fire Hydrants, city parks

D. Average Day Demand Water Usage (Gallons per Capita per Day): 371

E. Maximum Day Demand Water Usage (Gallons per Capita per Day): 1,114

F. Peak Hourly Demand Water Usage (Gallons per Capita per Day): 1,597

G. Distribution Pipe Diameter(s): 6"-14"

H. Type of Distribution Pipe Material(s): AC, PVC, Cast Iron

I. Age of Distribution Pipeline(s): Varies from 7 to over 50 years

J. Condition of Distribution Pipeline(s): Good

K. Estimated System Water Losses (Percentage): 10%

L. Describe any fire flow protection that the system provides:

Fire Hydrants and fire flow systems to buildings

M. What water conservation measures are employed?

Public Works actively locates and repairs leaks. During peak season, morning and evening use is encouraged. Greybull uses tiered rates to charge more for increased water consumption.

- N. Is there an independent raw water irrigation system? No
- (1) Raw Water System Capacity (Gallons per Day): N/A
 - (2) Average Annual Raw Water Usage (Gallons per Year): N/A

3. Demographic Information and Existing Water Service Area

- A. Population (2020 Census): 1,847 B. Current Population Estimate: 1,800
- C. Does the applicant have a comprehensive planning boundary? Yes
 - (1) If so, what is the estimated additional population that may be served in the future? 3,616
- D. How many taps are served within the corporate limits/JPB service area? 941
- E. How many taps are served outside of the corporate limits/JPB service area? 339
- F. Identify names of other water system served:
 Airport Bench, Greybull Heights, Scharen Subdivision, Shell Valley West, Town of Shell, and Shell Town users.
- G. Identify any existing planning reports (municipal or county) that address growth management in the project area. Provide titles and how copies of the reports could be obtained:
 South Big Horn County Airport Master Plan, 2014 – Available from Big Horn County Land Planning Office, 307-568-2424; Town of Greybull Housing Study and Master Plan, CTA Architects & Engineers 307-765-9431.

4. Financial Information

A. Rates

- (1) Tap Fee(s) – Residential: \$1,500
- (2) Tap Fee(s) – Commercial: \$1,500
- (3) Average Residential Monthly Water Bill and Corresponding Gallons Used:
 \$45.00 for approximately 5,000 gallons
- (4) Water Rates (Provide rates for all tiers and categories of use. Attach additional pages as needed.):
 See Attached Rate Sheet
- (5) Identify any local conditions that affect water rates (e.g., flow-through for frost prevention, etc.):
 None

B. Financial Statement (of Water Utility)

(1) Revenues

a. Annual Revenues Generated from Water Sales:	\$ 864,000
b. Annual Revenues from Tap Fees:	\$ 16,500
c. Annual Revenues from Other Sources:	\$ 12,500
d. Total Annual Revenues:	\$ 893,000

(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$ 463,750
b. Annual Payments for Debt Retirement:	\$ *338,000
c. Annual Payments to a Repair and Replacement Fund:	\$ 3,750
d. Annual Payments to an Emergency Fund:	\$ 0
e. Annual Payments for Other Purposes:	\$ 0
f. Total Annual Payments:	\$ 805,500

*\$218,000 of Debt Retirement payments are for Big Horn Regional

(3) Other

a. Balance in Repair and Replacement Fund:	\$ 34,300
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b. Balance in Emergency Fund:	\$ 172,600
c. Annual Cost of Water Quality Testing:	\$ 5,000

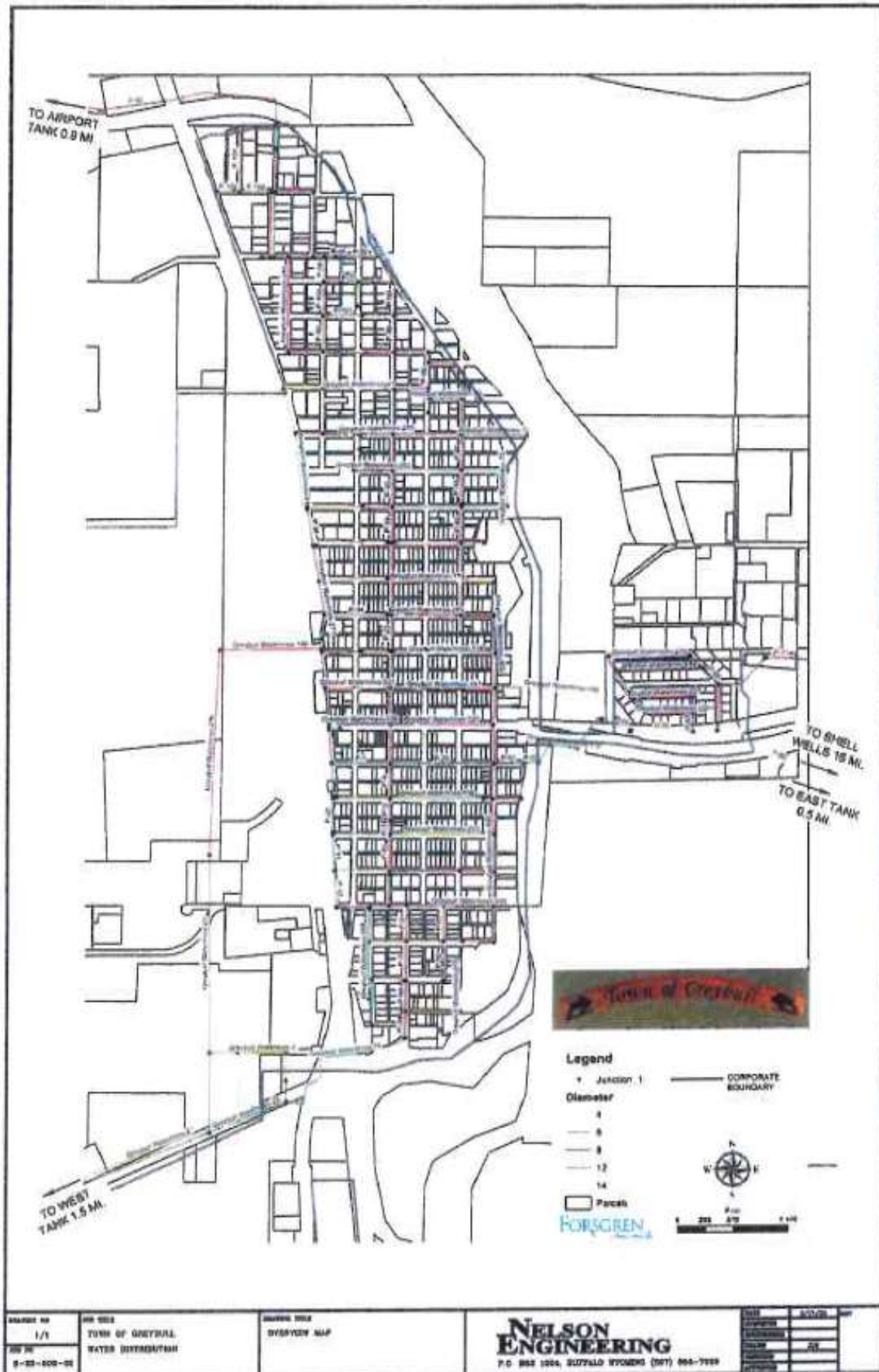
(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes

WATER RATES

IN TOWN RATES				
CONNECTION	BASE RATE	RATE PER 1K GALS 0-10k	RATE OVER 10K GALS PER 1K GALS 10-40K	RATE OVER 40K GALS PER 1K GALS
3/4"	\$ 37.46	\$ 0.91	\$ 1.14	\$ 1.43
1"	\$ 47.34	\$ 0.91	\$ 1.14	\$ 1.43
1 1/2"	\$ 63.81	\$ 0.91	\$ 1.14	\$ 1.43
2'	\$ 136.26	\$ 0.91	\$ 1.14	\$ 1.43
3"	\$ 317.39	\$ 0.91	\$ 1.14	\$ 1.43

OUT OF TOWN RATES				
CONNECTION	BASE RATE	RATE PER 1K GALS 0-10k	RATE OVER 10K GALS PER 1K GALS 10-40K	RATE OVER 40K GALS PER 1K GALS
3/4"	\$ 46.83	\$ 0.91	\$ 1.14	\$ 1.43
1"	\$ 59.18	\$ 0.91	\$ 1.14	\$ 1.43
1 1/2"	\$ 79.76	\$ 0.91	\$ 1.14	\$ 1.43
2'	\$ 170.33	\$ 0.91	\$ 1.14	\$ 1.43
3"	\$ 396.74	\$ 0.91	\$ 1.14	\$ 1.43

PROJECT AREA MAP



PHOTOS



Bighorn River and Town of Greybull



One Million Gallon Storage Tank



Interior Floor Patching



Center Support Column Corrosion



Roof and Support Beam Corrosion



Clockwise from top left:

Tank Foundation;
Exterior Rust At Welded Seam; and
Tank Inlet

RESOLUTION

Resolution 488

A RESOLUTION AUTHORIZING THE SUBMISSION OF A REQUEST FOR A LEVEL II STUDY FOR THE TOWN OF GREYBULL SYSTEM IMPROVEMENTS TO WATER SYSTEM, ON BEHALF OF THE GOVERNING BODY FOR THE TOWN OF GREYBULL, WYOMING.

WITNESSETH:

WHEREAS, the governing body for the Town of Greybull desires to participate in the Wyoming Water Development Commission program to assist in financing this project, and

WHEREAS, the Governing Body of the Town of Greybull recognizes the need for the project; and

WHEREAS, the Wyoming Water Development Commission requires that certain criteria be met, and to the best of our knowledge this application meets those criteria.

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BODY OF THE TOWN OF GREYBULL, that an application for consideration of a Level II feasibility study of the Town of Greybull's system improvements on the water system and the estimated costs for improvements..

BE IT FURTHER RESOLVED that Myles Foley, Mayor, and Carrie Hunt, Administrator, are hereby designated as authorized representatives of the Town of Greybull to act on behalf of the Governing Body on all matters relating to this application.

PASSED, APPROVED, AND ADOPTED THIS 13TH DAY OF FEBRUARY 2023



Myles Foley, Mayor

ATTEST: 

Carrie Hunt, Town Administrator

State of Wyoming

County of Big Horn

The above document was acknowledged before me, Jessica Fink, this 14th day of February 2023, by Myles Foley, Mayor. Witness my hand and official seal.


Notary Public

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

MUNICIPAL/JOINT POWERS WATER BOARD WATER SYSTEMS

Project Name: Hot Springs County Supply Evaluation **Program:** New Development

Project Type: Joint Powers Water Board Water System **County:** Hot Springs

Sponsor: Hot Springs County Rural Water Joint Powers Board

WWDO Recommendation: Level II **Proposed Budget:** \$365,000

Basis for the Funding Recommendation:

The Sponsor is an eligible entity that is evaluating sources of supply for a regional system.

Project Manager: George Moser, P.G.

I. PROJECT DESCRIPTION

The Sponsor initially applied for a Level II project to drill at a test-well location identified during previous WWDC Planning Studies. During the May 2023 WWDC/SWC Joint meeting, the Commission amended this project to include a comprehensive supply evaluation, including a review of the existing Thermopolis Water Treatment Plant. The Sponsor currently has approximately 1,520 taps in their system.

A Level II, Phase I Project will consist of an evaluation of existing and potential water sources for member entities. This study will evaluate the current condition of the Thermopolis Water Treatment Plant and determine necessary repairs, enhancements, upgrades and/or potential replacement costs associated with long-term and ongoing operation of the Plant. In addition, the project will contain a well-siting study (to include review of previous information and studies) and generate preliminary cost estimates associated with the development of those supplies. The Study will also evaluate easement and access concerns, and secure easements and access (including eventual pipeline alignments). In addition, Phase I will develop general cost estimates, and include breakdown of costs, based on potential taps to be served, and will present the information at public meetings to seek comments and input. Finally, Phase I will develop recommendations for water supplies to serve the Sponsor.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
*Big Horn Regional Groundwater	II	75/66	2005/09	I	\$ 2,350,000	2012
*Owl Creek Rural Water Supply	II	33	2008	I	\$ 75,000	2010
*South Thermopolis Water Supply	II	33	2008	I	\$ 75,000	2010
*Thermopolis Master Plan	I	74	2014	I	\$ 135,000	2017
*Big Horn Regional Southern Supply	II	65	2017	I	\$ 180,000	2020
*Big Horn Regional Transmission	II	11	2021	1	\$ 146,000	2024

**The Sponsor (HSCRWJPB) has never applied for WWDC assistance. The above projects are provided as background information regarding projects which may provide useful information for this project.*

2. Describe the location of the project:

Hot Springs County Rural Water JPB encompasses the Town of Thermopolis and surrounding water districts.

3. Summarize the request:

HSCRWJPB desires a study to evaluate supply options for a regional system in the southern area of the Bighorn Basin.

4. Summarize the reasons for the request:

Multiple efforts over time have attempted to identify regional water-supply sources for the Hot Springs area. These efforts have not yet identified a solution for the region. The Districts within HSCRWJPB are currently supplied by the Town of Thermopolis; however, several of these districts struggle with high disinfection byproducts. The Owl Creek Water District has been under EPA Administrative Order for these challenges, and other districts have reported issues with disinfection byproducts.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes

A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?
N/A

2. Project Priority According to WWDO Criteria: Acct I - Priority 6: LII Feasibility Studies

3. Will the project serve at least 15 water taps? Yes

A. Number of Taps: Thermopolis – 1208, South Thermopolis – 154, Owl Creek – 43, East Thermopolis – 155, Red Lane Water System – 68.

4. Is the sponsor eligible for funding from other state or federal programs? Yes

A. If so, what are they (RUS, SRF, other)? SRF, Other.

5. Is the Sponsor under any federal (EPA) mandates to improve its system? (e.g., Administrative Orders, violations, actions taken, etc.)?

Owl Creek Water District has been under Administrative Order for Total Trihalomethanes.

6. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system?

Lucerne Water District is currently supplied by the Big Horn Regional water system. The Sponsor exists to explore opportunities for regional water supply.

7. What is the monthly water bill for 5,000 gallons? See Attached sheet of water rates for various entities.

A. 20,000 Gallons? See Attached sheet of water rates for various entities.

8. Can the project be delayed or staged? N/A

A. Should it be? N/A

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. EPA Public Water System (PWS) Identification Number:

South Thermopolis Water & Sewer District: 56001053C, Owl Creek Water District: 5601673C, Red Lane: 5600232C, Lucerne Water & Sewer District: 5600935C, Town of Thermopolis: 5600056C

- G. Distribution Pipe Diameter(s): 2", 4", 6", 8", 10", 12", 16"
- H. Type of Distribution Pipe Material(s): Asbestos Cement, PVC, Cast Iron
- I. Age of Distribution Pipeline(s): Asbestos Cement-Pre 1950. Cast Iron-1950 - 1970. PVC 1970 to present
- J. Condition of Distribution Pipeline(s): Numerous leaks, undersized, etc.
- K. Estimated System Water Losses (Percentage): Town of Thermopolis - 20%, BHR -5%
- L. Describe any fire flow protection that the system provides:
Town of Thermopolis provides fire flow throughout their system. BHR does not provide fire flow.
- M. What water conservation measures are employed?
Tiered water rates.
- N. Is there an independent raw water irrigation system? Yes, for Thermopolis
 - (1) Raw Water System Capacity (Gallons per Day): 1MG (estimated)
 - (2) Average Annual Raw Water Usage (Gallons per Year): 1MG (estimated)

3. Demographic Information and Existing Water Service Area

- A. Population (2020 Census): 3,020 for Thermopolis B. Current Population Estimate: 4,200 (JPB Entities)
- C. Does the applicant have a comprehensive planning boundary? No
 - (1) If so, what is the estimated additional population that may be served in the future? Unknown
- D. How many taps are served within the corporate limits/JPB service area? Thermopolis – 1208, South Thermopolis – 154, Owl Creek – 43, East Thermopolis – 155, Red Lane Water System – 68
- E. How many taps are served outside of the corporate limits/JPB service area? None currently, but potentially 60 additional taps along Black Willow and Black Mountain Road.
- F. Identify names of other water system served: None at this time.
- G. Identify any existing planning reports (municipal or county) that address growth management in the project area. Provide titles and how copies of the reports could be obtained:
WWDC 2015 Town of Thermopolis Level I Master Plan

4. Financial Information

- A. Rates
 - (1) Tap Fee(s) – Residential: Varies based on District
 - (2) Tap Fee(s) – Commercial: Varies based on District
 - (3) Average Residential Monthly Water Bill and Corresponding Gallons Used:
Varies based on District
 - (4) Water Rates (Provide rates for all tiers and categories of use. Attach additional pages as needed.):
Varies based on District
 - (5) Identify any local conditions that affect water rates (e.g., flow-through for frost prevention, etc.):
Owl Creek must flush excess water to improve quality.
- B. Financial Statement (of Water Utility)
 - (1) Revenues

a. Annual Revenues Generated from Water Sales:	\$	0
b. Annual Revenues from Tap Fees:	\$	0
c. Annual Revenues from Other Sources:	\$	0
d. Total Annual Revenues:	\$	0

(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$	0
b. Annual Payments for Debt Retirement:	\$	0
c. Annual Payments to a Repair and Replacement Fund:	\$	0
d. Annual Payments to an Emergency Fund:	\$	0
e. Annual Payments for Other Purposes:	\$	0
f. Total Annual Payments:	\$	0

(3) Other

a. Balance in Repair and Replacement Fund:	\$	0
b. Balance in Emergency Fund:	\$	0
c. Annual Cost of Water Quality Testing:	\$	0

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.?

There is a plan to be self-supporting, once the HSCRWJPB develops a source.

a. If not, how is the difference subsidized?

N/A

COMPARISON OF WATER RATES

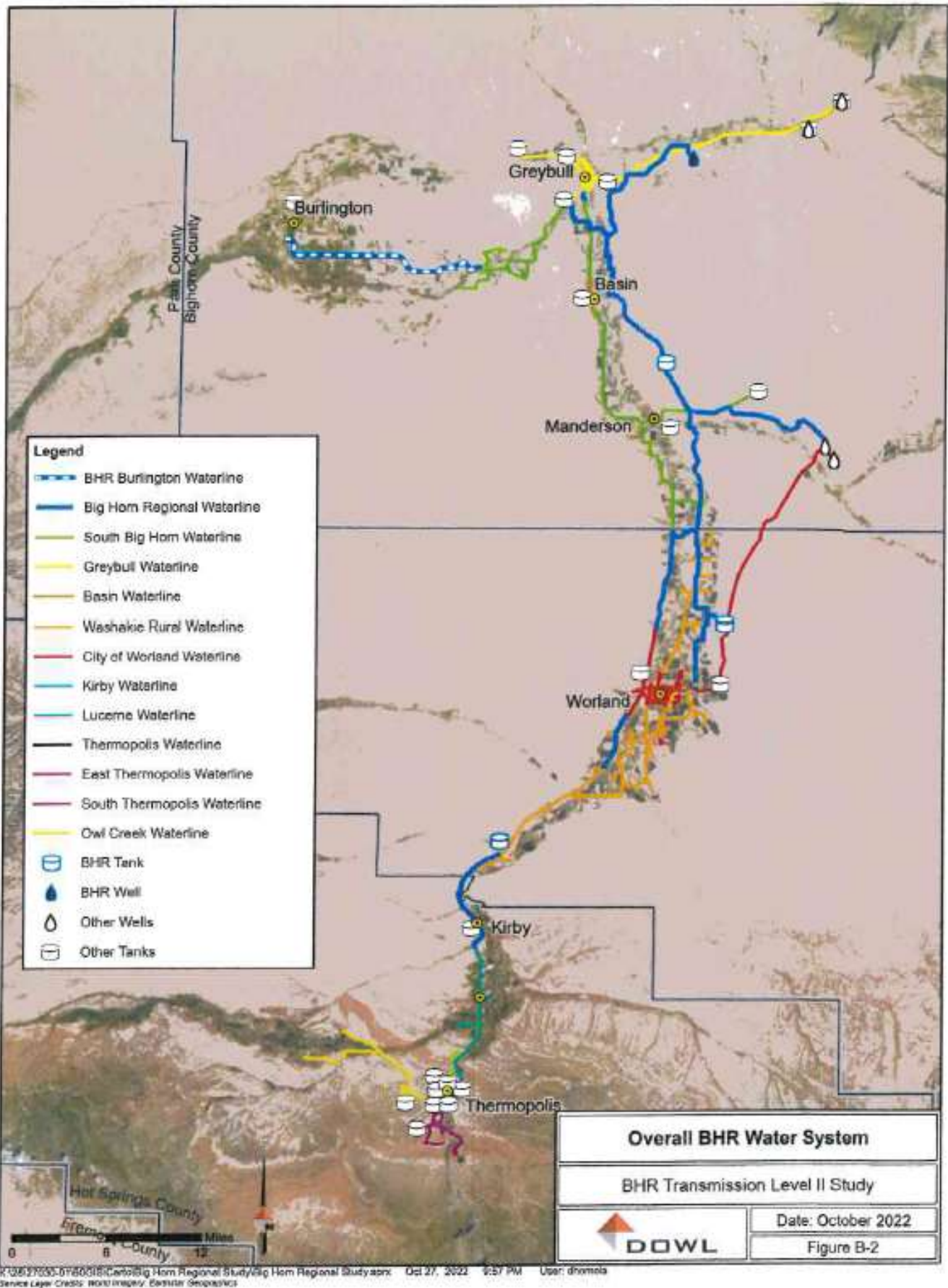
6.2.2 Monthly Water Bill for BHRWS Supplied Entities

The following table shows a sample of monthly water bills from a few of the systems that receive water from the BHRWS as well as the Owl Creek Water District for comparison and to see the breakdown of the various rates.

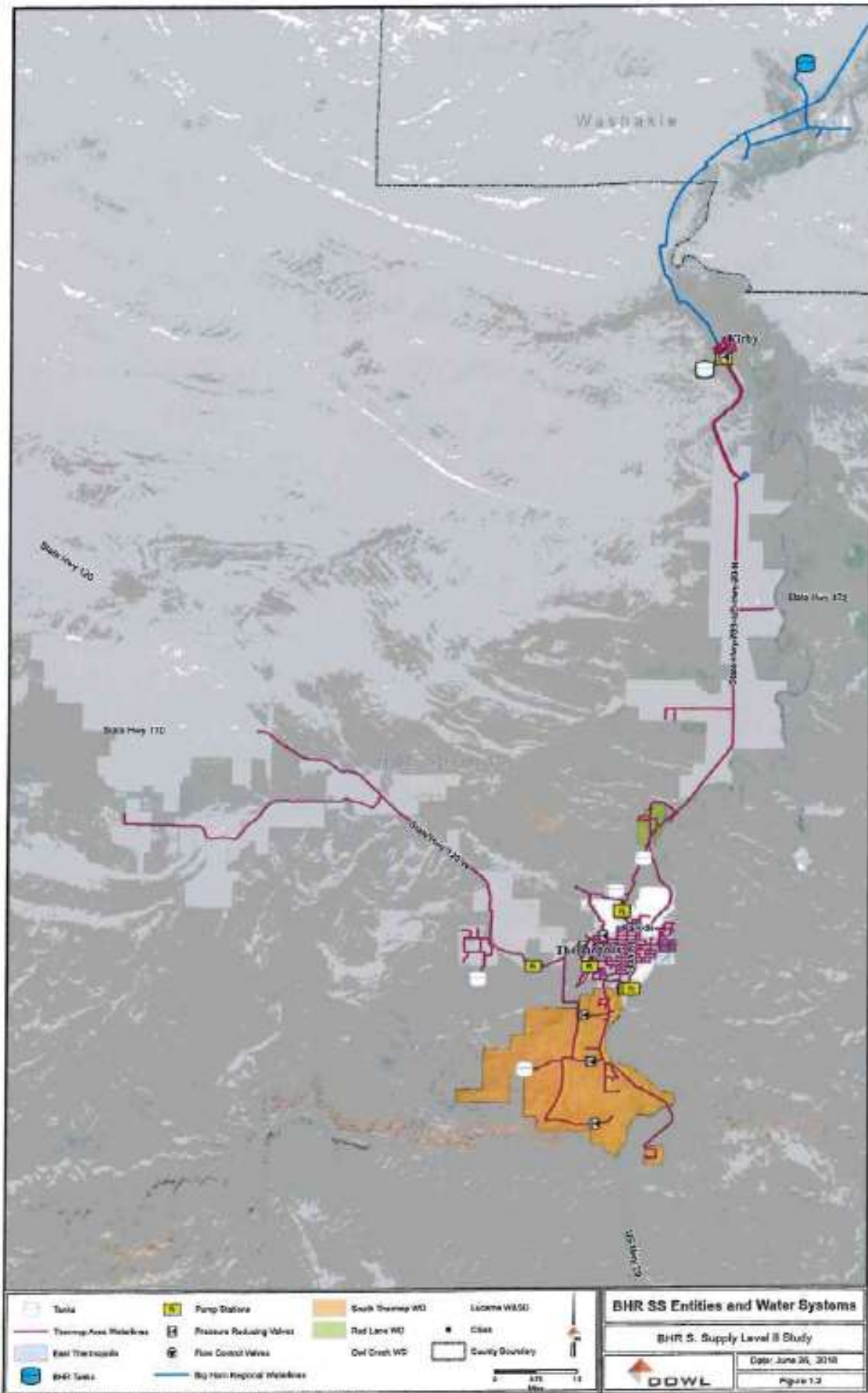
Table 6.1 Comparison of Water Bills

	SBHCRWD	SBH Greybull River service area	Washakie Rural I&SD	Lucerne W&SD	Owl Creek Water District
Base charged by district	\$ 53.50	\$ 63.50	\$ 52.50	\$ 43.00	\$ 98.20
Wholesale EDU Base rate	\$ 11.50	\$ 11.50	\$ 11.50	\$ 11.50	\$ 23.80
Total Base Rate	\$ 65.00	\$ 75.00	\$ 64.00	\$ 54.50	\$ 122.00
Quantity in Base (gallons)	4000	4000	3000	3000	1000
Cost per 1000 gallons	\$ 1.50	\$ 1.50	\$ 1.50	\$ 3.75	\$ 4.00
Incremental above the base rate			Every 5,000 gal above 10,000 gal increases \$0.50/1000 gallons		
Example water bill amounts:					
For 7000 gallons per month	\$ 69.50	\$ 79.50	\$ 70.00	\$ 69.50	\$ 146.00
For 10,000 gallons per month	\$ 74.00	\$ 84.00	\$ 74.50	\$ 80.75	\$ 158.00
For 15,000 gallons per month	\$ 81.50	\$ 91.50	\$ 82.00	\$ 99.50	\$ 178.00

MAP OF WATERLINES



MAP OF SOUTHERN BIGHORN BASIN ENTITES AND WATER SYSTEMS



RESOLUTION

Resolution No. 23-1

A RESOLUTION AUTHORIZING THE SUBMITTAL OF AN APPLICATION TO THE WYOMING WATER DEVELOPMENT COMMISSION FOR THE FUNDING OF A LEVEL II WELL PROJECT

WITNESSETH

WHEREAS, the Wyoming Water Development Commission (WWDC) has completed a Level II Big Horn Regional Southern Water Supply study (Contract No. 05SC0298334), which evaluated the water systems in and around the Town of Thermopolis providing recommended alternative water sources and methods of supply for needs into the future; and more recently completed a Level II Big Horn Regional Transmission Study (Contract No. 029CM0090098) which further evaluated the ability to supply water from the Big Horn Regional Joint Powers Board Water System to entities in Hot Springs County; and

WHEREAS, Hot Springs County Rural Water Joint Powers Board (JPB) has multiple member entities in need of a new water supply. South Thermopolis Water and Sewer District, East Thermopolis Water District, Red Lane, and Owl Creek Water District are supplied water by the Town of Thermopolis. Each of these water systems has concerns regarding dependability and affordability of their water supply into the future, such that a recommendation by both prior Level II studies was to drill a new well at Lysite Mountain for the JPB; and

WHEREAS, the JPB supports this Level II recommendation to have the new well and wishes to have the new well drilled and tested; and

WHEREAS, WWDC’s Level II program provides a means for the drilling and testing of this well, and there are currently funds in this program, and JPB wishes to take advantage of this funding; and

WHEREAS, the WWDC has a process for applying for these funds and this resolution and accompanying application are part of that process; and

WHEREAS, the governing body of the JPB recognizes and supports the need for this project and the submittal of this funding application.

NOW, THEREFORE, BE IT RESOLVED BY THE HOT SPRINGS COUNTY RURAL WATER JOINT POWERS BOARD, that a Level II funding application be submitted to the WWDC for the above described project.

BE IT FURTHER RESOLVED, that Chairman Thomas Ryan is hereby designated as the authorized representative of the JPB, to act on behalf of the Governing Body on all matters relating to this application.

PASSED, APPROVED AND ADOPTED THIS 16th day of February, 2023.


Thomas J. Ryan, Chairman

Attest:

Anthony Basko, Secretary/Treasurer

SUPPORTING RESOLUTION FROM THERMOPOLIS

RESOLUTION 573

A RESOLUTION TO SUPPORT THE HOT SPRINGS COUNTY WATER SUPPLY JOINT POWERS BOARD'S FUNDING APPLICATION AND EFFORTS FOR A GROUND WATER PROGRAM TEST WELL.

WITNESSETH

WHEREAS, the Town of Thermopolis expects the need to upgrade the current drinking water system or secure another source of drinking water in five (5) to ten (10) years, and

WHEREAS, currently the water districts of Hot Springs County are seeking a solution; and

WHEREAS, collaboration increases purchasing power and regional self-reliance; and

WHEREAS, the Hot Springs County Water Supply Joint Powers Board is applying for an application with the Wyoming Water Development Office for a ground water test well to locate a ground water supply for the County; and

WHEREAS, Red Lane is creating a water district to help support the Hot Springs County Water Supply Joint Powers Board.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE TOWN OF THERMOPOLIS THAT:

The Town of Thermopolis supports the Hot Springs County Water Supply Joint Powers Board's application to the Wyoming Water Development Office.

FURTHERMORE, The Town of Thermopolis intends to join the Hot Springs County Water Supply Joint Powers Board after Red Lane creates a water district,

FURTHERMORE, the Town of Thermopolis will provide a share of financial support for a ground water test well to determine if a sufficient amount of drinking water is available for future use.

PASSED, APPROVED AND ADOPTED, this 4th day of April, 2023, at Thermopolis, Hot Springs County, Wyoming.

TOWN OF THERMOPOLIS, WYOMING
A Municipal Corporation

By: 
Adam R. Estenson, Mayor

ATTEST:


Tracey Van Heule, Town Clerk

SUPPORTING LETTER FROM BIG HORN REGIONAL JOINT POWERS BOARD

DIRECTOR
John Joyce
Mobile: 307-272-4860
Phone/Fax: 307-568-2514
jnjoyce56@gmail.com



OFFICE LOCATION
P.O. Box 346
1100 North 10th Str
Worland WY 82401
Phone – 307-347-4042
Fax – 307-347-4277
bhrjpb@rtcconnect.net

Town of Greybull
Jason Lampman
307-765-9431

Town of Basin
CJ Duncan
307-272-2565

South Big Horn
J.P.B.
Don Russell
307-568-3331

Washakie Rural
Improvement Dist.
Kyle Tharp
307-347-4737

City of Worland
Nick Kruger
307-388-9869

Lucerne Water & Sewer District
Kent Cordingly
307-864-9352

Jason Mead, Director
Wyoming Water Development Office
6920 Yellowtail Road
Cheyenne, WY 82002

RECEIVED

FEB 21 2023

February 14, 2023

WY WATER DEVELOPMENT OFFICE

Dear Mr. Mead,

The Big Horn Regional Joint Powers Board (BHR) has been working with the Hot Springs County Water Supply Joint Powers Board (HSCWS) to provide a long term, reliable and safe drinking water source and transmission infrastructure for all of the residents of Hot Springs County including the Town of Thermopolis.

HSCWS has reviewed the WWDC Level II studies that have previously been completed for BHR covering Hot Springs County. HSCWS would like to move ahead with an application to WWDO for a ground water program test well to locate a ground water supply for the county.

BHR presently serves the Lucerne Water Improvement District and the Town of Kirby at the southern end of the regional system. If a ground water source was developed in Hot Springs County it would benefit those systems. If the new well field has adequate capacity it could also serve as a redundant emergency supply for the City of Worland.

BHR would like to support the application by HSWS to WWDO and offer any assistance we could provide in the effort to find a Hot Springs County municipal ground water source.

Sincerely,

Don Russell, Chairman

Cc: Jay Smith, WWDO
Tom Ryan, HSC Commission, Chairman

LEVEL II
PROJECTS
-AMENDMENTS

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

MUNICIPAL/JOINT POWERS WATER BOARD WATER SYSTEMS

Project Name: Pavillion Groundwater Supply

Program: New Development

Project Type: Municipal Water System

County: Fremont

Sponsor: Town of Pavillion

Original Budget: \$687,000

WWDO Recommendation: Level II

Proposed Increase: **\$429,000**

Total Project Cost: \$1,116,000

Basis for the Funding Recommendation:

The 2022 Wyoming State Legislature appropriated \$687,000 in funding for a Level II feasibility study to evaluate the siting, construction, and testing of a new test/production well for use as a redundant groundwater supply and to use as a future supply for the Town of Pavillion’s water system. The deep test well (1,050 feet deep) will be constructed into the Wind River Aquifer, known to have variable water quality. An additional supplemental appropriation is now required to complete the project due to unanticipated increases in well construction costs based on well drilling contractor bids received in April 2023 for well construction and testing.

A Level II feasibility study to investigate developing an additional groundwater supply well for the Town of Pavillion.

Project Manager: Keith Clarey, P.G.

I. PROJECT DESCRIPTION

The Town of Pavillion requested a Level II feasibility study to evaluate the siting, construction, and testing of a new test/production well for use as a redundant groundwater supply and to use as a future supply for the Town’s water system. In addition, the Town desires a water source with better water quality than the existing system. The Pavillion Water Master Plan, Level I Study identified the need for a Level II groundwater supply study as being the next step in the process.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Pavillion Water Supply	III	28	1994	I	\$ 400,000	1999
Pavillion Area Water Supply/Extension	I	48/39	2008/10	I	\$ 173,500	2010/12
Pavillion Water Supply	II	1	2011	I	\$ 100,000	2014
Pavillion Water System Improvements	III	141	2013	I	\$ 214,500	2018
Pavillion Water Master Plan	I	150	2020	I	\$ 135,000	2023
Pavillion Groundwater Supply	II	84	2022	I	\$ 687,000	2025

2. Describe the location of the project:

The proposed Level II study area includes the Town of Pavillion and the adjacent portions of Fremont County surrounding the Town. The area is located within the Wind River Basin.

3. Summarize the request:

The Town of Pavillion is requesting a Level II test well construction feasibility study to provide future additional supply and to provide redundancy for the Town's water system. In addition, the Town desires a water source with better water quality than the existing system.

4. Summarize the reasons for the request:

The Town of Pavillion desires water system redundancy and additional water supply, preferably of better quality.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes
2. Project Priority According to WWDO Criteria: Acct I - Priority 6: LII Feasibility Studies
3. Will the project serve at least 15 water taps? Yes
 - A. Number of Taps: 115 (111 inside + 4 outside)
4. Is the sponsor eligible for funding from other state or federal programs? Yes
 - A. If so, what are they (RUS, SRF, other)? RUS, SRF, etc.
5. Is the Sponsor under any federal (EPA) mandates to improve its system? (e.g., Administrative Orders, violations, actions taken, etc.)? No
6. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system?

No, past WWDC studies have not found a feasible regionalized option for the Town. Yes, the Sponsor will consider regional opportunities during the course of this Level II study, if any.
7. What is monthly water bill for 5,000 gallons? \$69.50
 - A. 20,000 Gallons? \$174.50
8. Can the project be delayed or staged? Yes
 - A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

- A. EPA Public Water System (PWS) Identification Number: WY5600039C
- B. Groundwater
 - (1) Number of Wells: 5 wells, although 1 well will likely be abandoned.
 - (2) Primary Supply Aquifer(s) or Formation(s): The upper part of the Wind River Formation.
 - (3) Total Average Production Yield of All Wells (GPM): The 4 producing wells can deliver 150 gpm combined, but this is not a reliable yield because the wells can only be pumped a few hours each day.
- C. Surface Water
 - (1) Source Name(s): None
 - (2) Type of Diversion(s) (Headgate, Infiltration Gallery, Pumps, Etc.): N/A
 - (3) Total Average Diversion Yield (CFS of GPM): N/A
- D. Springs
 - (1) Name of Spring(s): None

(2) Total Average Production Yield of All Springs (CFS or GPM): N/A

E. Water Rights

(1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights?

The Town of Pavillion has water rights for their source and water rights were discussed with the Board of Control office in Riverton with no concerns identified.

F. Transmission Pipeline

(1) Maximum Capacity of the Transmission Pipeline(s) (Gallons per Day): It can supply the estimated needed peak user demand of about 75 gpm, plus provide fire flows of about 750 gpm.

(2) Increased Capacity Needed (If Known) (Gallons per Day): An increase is not needed at this time.

(3) Approximate Distance from Source(s) to Distribution System: About 2,200 feet from the wells to the smaller tank and then about 1,800 feet from the gravity tank back to the distribution system.

(4) Transmission Pipe Diameter(s): From the gravity tank to the system is a 10-inch line.

(5) Type of Transmission Pipe Material(s): Believed to be PVC.

(6) Age of Transmission Pipeline(s): The 10-inch line from the supply (gravity) tank back to the distribution system was installed in 1995.

(7) Condition of Transmission Pipeline(s): Believed to be in good condition.

(8) Does the applicant possess clear title to transmission corridor easements? Yes

G. Water Storage

(1) Raw (Volume and Tank Description): 16-foot tall, 43,000-gallon bolted steel tank

(2) Treated (Volume and Tank Description): 56-foot tall, 224,000-gallon bolted steel standpipe. Appears to be in good condition (erected in 1995), however, being a standpipe, not all the volume is of value.

H. Treatment

(1) Specify Water Treatment (None, Chlorination, Filtration, Etc.): Chlorination only

2. Existing Water Distribution System

A. Is the water use metered? Yes, although meters are old and need to be replaced. There already is a plan for meter replacement.

B. Are billings based on meter readings? Yes

C. Identify unmetered usage (e.g., irrigation of parks, cemeteries, fire protection, etc.):

Very limited unmetered water usage, as there is a separate raw water irrigation system for watering parks, green areas, and private lawns. Unmetered water usage is used for the periodic flushing of fire hydrants.

D. Average Day Demand Water Usage (Gallons per Capita per Day): About 80 gpcpd

E. Maximum Day Demand Water Usage (Gallons per Capita per Day): About 125 gpcpd

F. Peak Hourly Demand Water Usage (Gallons per Capita per Day): About 240 gpcpd during peak hour

G. Distribution Pipe Diameter(s): Mostly 6-inch, some 8-inch

H. Type of Distribution Pipe Material(s): Believed to be PVC, but not certain of distribution system pipe.

I. Age of Distribution Pipeline(s): Most of the distribution system is believed to be about 75 years old.

J. Condition of Distribution Pipeline(s): Pipe is believed to be in acceptable condition.

K. Estimated System Water Losses (Percentage): Believed to be low, cannot estimate very well due to needed upgrades in both source water meters and water user meters.

L. Describe any fire flow protection that the system provides:

The system provides fire flows. Based on flowing of hydrants, the system should be able to provide at least 750 gpm and in places up to 1,000 gpm.

M. What water conservation measures are employed?

There is a separate raw water system and metered water usage is charged at \$7.00/1,000 gallons which is a rate that encourages conservation. Typical household usage of about 4,000 gallons/month reflects this point.

N. Is there an independent raw water irrigation system? Yes

(1) Raw Water System Capacity (Gallons per Day): Not known, has been adequate.

(2) Average Annual Raw Water Usage (Gallons per Year): Only operational in summer; about 68-ac-ft.

3. Demographic Information and Existing Water Service Area

A. Population (2010 Census): 231

B. Current Population Estimate: 232 (Dept. of A&I)

C. Does the applicant have a comprehensive planning boundary? No

D. How many taps are served within the corporate limits/JPB service area? 111

E. How many taps are served outside of the corporate limits/JPB service area? 4

F. Identify names of other water system served:

None, although the loadout station is used by Fremont County rural residents that haul water to their cisterns.

G. Identify any existing planning reports (municipal or county) that address growth management in the project area. Provide titles and how copies of the reports could be obtained:

No planning reports, however, the Fremont County Planner was contacted and their office does not expect growth of any significance in the future for the Town of Pavillion.

4. Financial Information

A. Rates

(1) Tap Fee(s) – Residential: \$1,100 per ¾-inch tap; \$1,200 for a 1-inch tap

(2) Tap Fee(s) – Commercial: Same as above.

(3) Average Residential Monthly Water Bill and Corresponding Gallons Used:

4,000 gallons used on average = \$62.50

(4) Water Rates (Provide rates for all tiers and categories of use. Attach additional pages as needed.):

Base rate of \$62.50 per month for residential users, which includes 4,000 gallons. Usage above this amount is at \$7.00/1,000 gallons. Commercial users at \$69.50, also includes 4,000 gallons.

(5) Identify any local conditions that affect water rates (e.g., flow-through for frost prevention, etc.):

None

B. Financial Statement (of Water Utility)

(1) Revenues

a. Annual Revenues Generated from Water Sales:	\$ 83,000
b. Annual Revenues from Tap Fees:	\$ Not counted on.
c. Annual Revenues from Other Sources: (loadout facility)	\$ 12,000
d. Total Annual Revenues:	\$ 95,000

(2) Expenditures

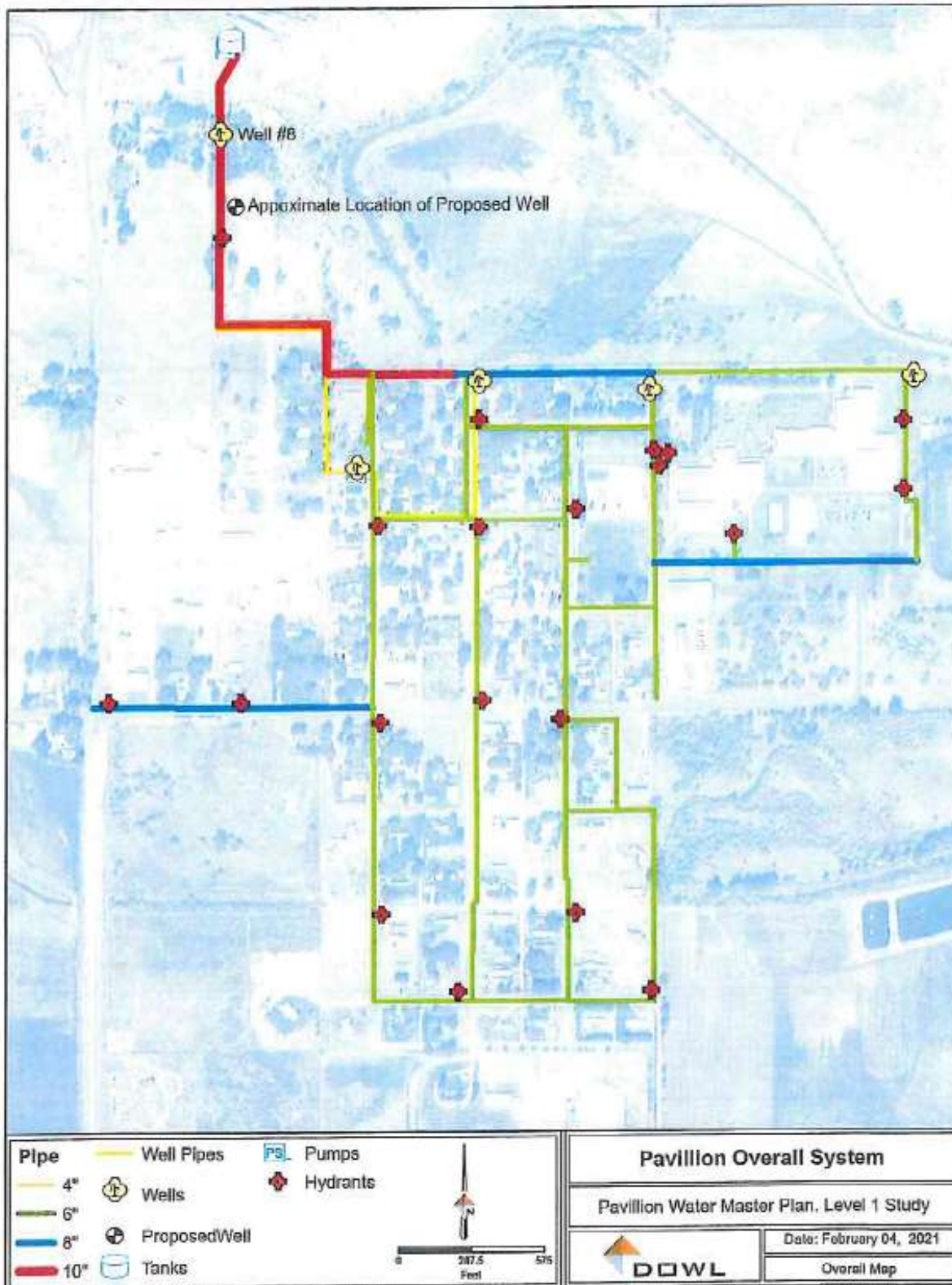
a. Annual Budget for Operation and Maintenance Expenses:	\$ 89,300
b. Annual Payments for Debt Retirement:	\$ none
c. Annual Payments to a Repair and Replacement Fund:	\$ 5,700
d. Annual Payments to an Emergency Fund: (incl. above in (c))	\$ none
e. Annual Payments for Other Purposes:	\$ 0
f. Total Annual Payments:	\$ 95,000

(3) Other

a. Balance in Repair and Replacement Fund:	\$	34,000
b. Balance in Emergency Fund:	\$	Included above
c. Annual Cost of Water Quality Testing:	\$	2,000

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes

PROJECT AREA MAP



PHOTOS



Town of Pavillion, Fremont County, Wyoming
Population 231, Elevation 5690 ft-msl

RESOLUTION

Resolution No. 20-8

A RESOLUTION AUTHORIZING THE SUBMITTAL OF AN APPLICATION TO THE WYOMING WATER DEVELOPMENT COMMISSION FOR THE FUNDING OF A LEVEL II WELL PROJECT.

WITNESSETH

WHEREAS, the Wyoming Water Development Commission (WWDC) is conducting a Level I Master Plan of the Pavillion water system (Contract No. 05SC0298334), which is evaluating this water system and making recommendations for improvements to be considered to provide for Pavillion's water needs into the future; and

WHEREAS, Pavillion's water source is wells, several of which have condition, water quality, age or other issues regarding their dependably into the future, such that a recommendation by this Level I study will be to drill a new well for Pavillion; and

WHEREAS, the Town of Pavillion supports this master plan and wishes to have the new well recommended by this Level I study drilled and developed; and

WHEREAS, WWDC's Level II program provides a means for the design and construction of this well, and there are currently funds in this program, and Pavillion wishes to take advantage of this funding; and

WHEREAS, the WWDC has a process for applying for these funds and this resolution and accompanying application are part of that process; and

WHEREAS, the governing body of the Town of Pavillion recognizes and supports the need for this project and the submittal of this funding application,

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF PAVILLION, WYOMING, that a Level II funding application be submitted to the WWDC for the above described project.

BE IT FURTHER RESOLVED, that Mayor Chuck Snyder is hereby designated as the authorized representative of the Town of Pavillion, to act on behalf of the Governing Body on all matters relating to this application.

PASSED, APPROVED AND ADOPTED THIS 1st day of February, 2021.



Attest:

Cheyenne R. Magan
Notary Public
My Commission Expires September 12, 2021

Chuck Snyder
Chuck Snyder, Mayor

Chuck Snyder appeared before me in the State of Wyoming the County of Fremont on this 18th of February 2021

LEVEL I PROJECTS

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

MUNICIPAL/JOINT POWERS WATER BOARD WATER SYSTEMS

Project Name: Alpine Water Master Plan

Program: New Development

Project Type: Municipal Water System

County: Lincoln

Sponsor: Town of Alpine

WWDO Recommendation: Level I

Proposed Budget: \$153,000

Basis for the Funding Recommendation:

The Town of Alpine has experienced significant residential and business growth within the past decade. In addition, Alpine has been absorbing neighboring subdivisions and is serving a larger geographic area, and has plans to expand within the next 10 years. The study would evaluate the current condition of their water system and provide the tools and guidance needed to assist in the planning, rehabilitating, upgrading, and managing of their system.

Project Manager: George Moser

I. PROJECT DESCRIPTION

The Town of Alpine currently includes water supply from originally separate systems and provides water to the regional area surrounding the original Town. The current water system is fed from groundwater wells with storage provided by three storage tanks. This project would assemble GIS Information, create a robust and updated hydraulic model, develop recommended improvements and evaluate options to address system deficiencies.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Alpine Water Supply	III	206	1995	I	\$ 700,000	1998
Alpine Raw Water	III	88	2002	I	\$ 41,700	2006
Alpine Master Plan Update	II	75	2005	I	\$ 75,000	2006
Alpine Wells Rehabilitation	III	105/63	2006/11	II	\$ 359,790	2010/13
Alpine Water Supply	III	121	2007	I	\$ 688,090	2012
Alpine Master Plan Update, Phase II	II	99	2006	I	\$ 185,000	2008
Alpine Master Plan Update, Phase II	II	33/66	2008/09	I	\$ 85,000	2009/10

2. Describe the location of the project:

Alpine is located in northern Lincoln County, at the confluence of the Grey's and Snake Rivers.

3. Summarize the request:

Alpine would like a comprehensive study to update their mapping, hydraulic modeling, and develop a long-term plan for system improvements. The updated plan would serve as a framework to establish project priorities and to perform the appropriate financial planning necessary to meet those priorities. It would also provide reconnaissance-level information regarding costs and scheduling.

4. Summarize the reasons for the request:

Alpine would like a comprehensive study to update their mapping, hydraulic modeling, and develop a long-term plan for system improvements. An updated master plan will allow the Town to evaluate system deficiencies, ensure system viability for future growth, prioritize improvement projects, and provide a schedule for identified projects.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes

A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?

N/A

2. Project Priority According to WWDO Criteria: Acct I - Priority 8: LI Reconnaissance Studies
(Use Attachment III of the operating criteria.)

3. Will the project serve at least 15 water taps? Yes

A. Number of Taps: 603

4. Is the sponsor eligible for funding from other state or federal programs? Yes

A. If so, what are they (RUS, SRF, other)? SRF

5. Is the Sponsor under any federal (EPA) mandates to improve its system? (e.g., Administrative Orders, violations, actions taken, etc.)? No

6. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system?

Alpine currently serves systems outside the Municipal boundary and anticipates future connections.

7. What is the monthly water bill for 5,000 gallons? \$39.00

A. 20,000 Gallons? \$69.00

8. Can the project be delayed or staged? Yes

A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. EPA Public Water System (PWS) Identification Number: WY5600156

B. Groundwater

(1) Number of Wells: Three

(2) Primary Supply Aquifer(s) or Formation(s): Salt Lake Formation

(3) Total Average Production Yield of All Wells (GPM): 1,950

C. Surface Water

(1) Source Name(s): N/A

(2) Type of Diversion(s) (Headgate, Infiltration Gallery, Pumps, Etc.): N/A

(3) Total Average Diversion Yield (CFS or GPM): N/A

D. Springs

(1) Name of Spring(s): N/A

(2) Total Average Production Yield of All Springs (CFS or GPM): N/A

E. Water Rights

(1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

F. Transmission Pipeline

(1) Maximum Capacity of the Transmission Pipeline(s) (Gallons per Day): 5,080,000

(2) Increased Capacity Needed (If Known) (Gallons per Day): None Known

(3) Approximate Distance from Source(s) to Distribution System: 1 Mile

(4) Transmission Pipe Diameter(s): 12-inch and 10-inch

(5) Type of Transmission Pipe Material(s): PVC most common

(6) Age of Transmission Pipeline(s): 1-50 years

(7) Condition of Transmission Pipeline(s): Variable

(8) Does the applicant possess clear title to transmission corridor easements? Unknown

G. Water Storage

(1) Raw (Volume and Tank Description): None

(2) Treated (Volume and Tank Description): 1,290,000 gallons

H. Treatment

(1) Specify Water Treatment (None, Chlorination, Filtration, Etc.): Chlorination

2. Existing Water Distribution System

A. Is the water use metered? Yes

B. Are billings based on meter readings? Yes

C. Identify unmetered usage (e.g., irrigation of parks, cemeteries, fire protection, etc.):

Fire Protection

D. Average Day Demand Water Usage (Gallons per Capita per Day): 280 gpcd

E. Maximum Day Demand Water Usage (Gallons per Capita per Day): 635 gpcd

F. Peak Hourly Demand Water Usage (Gallons per Capita per Day): 710 gpcd

G. Distribution Pipe Diameter(s): 4", 6", 8", 10", and 12"

H. Type of Distribution Pipe Material(s): PVC most common

I. Age of Distribution Pipeline(s): 1-50 years

J. Condition of Distribution Pipeline(s): Varies. Some 4-inch mains are lower quality

K. Estimated System Water Losses (Percentage): 10-20%

L. Describe any fire flow protection that the system provides:

Fire flow is provided through 4-inch water mains

M. What water conservation measures are employed?

Alpine is in the process of updating to an auto-read meter system to help monitor water use and locate leaks.

N. Is there an independent raw water irrigation system? No

(1) Raw Water System Capacity (Gallons per Day): N/A

(2) Average Annual Raw Water Usage (Gallons per Year): N/A

3. Demographic Information and Existing Water Service Area

A. Population (2010 Census): 828

B. Current Population Estimate: 1,262

C. Does the applicant have a comprehensive planning boundary? Under Development

(1) If so, what is the estimated additional population that may be served in the future? Unknown

- D. How many taps are served within the corporate limits/JPB service area? 603
- E. How many taps are served outside of the corporate limits/JPB service area? 29
- F. Identify names of other water system served: North Alpine
- G. Identify any existing planning reports (municipal or county) that address growth management in the project area. Provide titles and how copies of the reports could be obtained:
Town of Alpine Master Plan – Ongoing.

4. Financial Information

A. Rates

- (1) Tap Fee(s) – Residential: 3/4" = \$3,500; 1" = \$5,000; 1 1/2" = \$6,500; 2" = \$10,000
- (2) Tap Fee(s) – Commercial: 3/4" = \$3,500; 1" = \$5,000; 1 1/2" = \$6,500; 2" = \$10,000
- (3) Average Residential Monthly Water Bill and Corresponding Gallons Used:
\$45.00 with average usage of 8,000 gallons.
- (4) Water Rates (Provide rates for all tiers and categories of use. Attach additional pages as needed.):
See additional pages
- (5) Identify any local conditions that affect water rates (e.g., flow-through for frost prevention, etc.):
None

B. Financial Statement (of Water Utility)

(1) Revenues

a. Annual Revenues Generated from Water Sales:	\$ 470,597.87
b. Annual Revenues from Tap Fees:	\$ 122,120.00
c. Annual Revenues from Other Sources:	\$ 25,068.00
d. Total Annual Revenues:	\$ 617,785.87

(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$ 448,836.51
b. Annual Payments for Debt Retirement:	\$ 29,000.00
c. Annual Payments to a Repair and Replacement Fund:	\$ 0
d. Annual Payments to an Emergency Fund:	\$ 0
e. Annual Payments for Other Purposes:	\$ 0
f. Total Annual Payments:	\$ 477,836.51

(3) Other

a. Balance in Repair and Replacement Fund:	\$ 825,261.76
b. Balance in Emergency Fund:	\$ 391,209.58
c. Annual Cost of Water Quality Testing:	\$ 3,413.00

**Alpine does not currently have payments to a Repair and Replacement Fund nor an Emergency Fund. However, the Operating Fund (\$825,261.76 above) is utilized for any necessary repairs, and the Savings Fund (\$391,209.58) is available for emergency use. Alpine plans to establish more permanent funds and annual distributions to those funds in the near future.*

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.?

Yes

- a. If not, how is the difference subsidized? N/A

WATER RATES

Residential Water

Water Connection ¾"	\$ 3,500
Water Connection 1"	\$ 5,000
Water Connection 1 ½"	\$ 6,500
Water Connection 2"	\$ 10,000
Price per 1,000 Gallons	\$ 2.00

Alpine Utility District - Outside incorporated boundaries governed by the Public Service Commission.

Residential Water

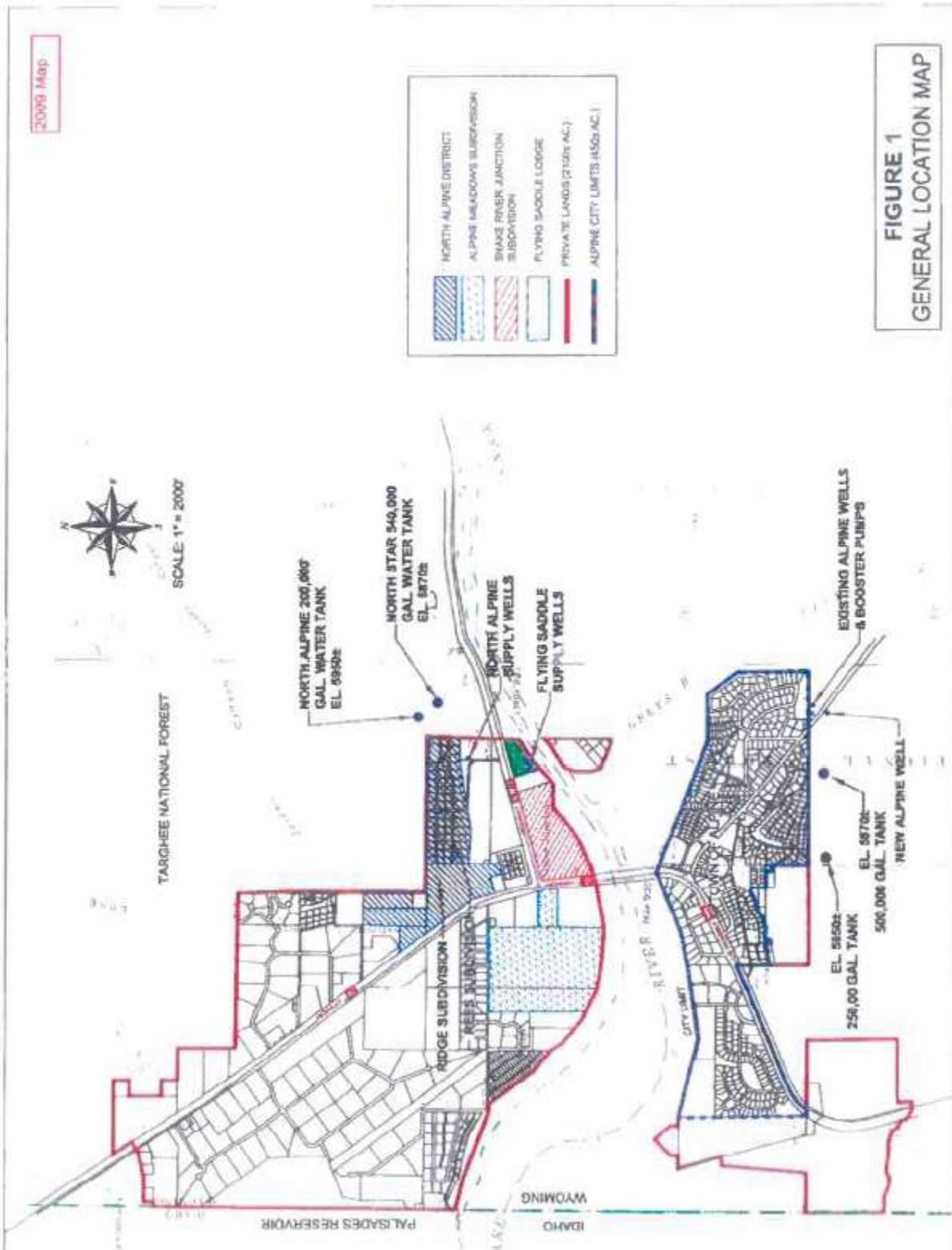
Water Connection ¾"	\$ 3,000
Dry Meter Water Rate	\$ 25.00
Monthly Water Rate	\$ 30.00
Water Price per 1,000 Gallons	\$ 2.75

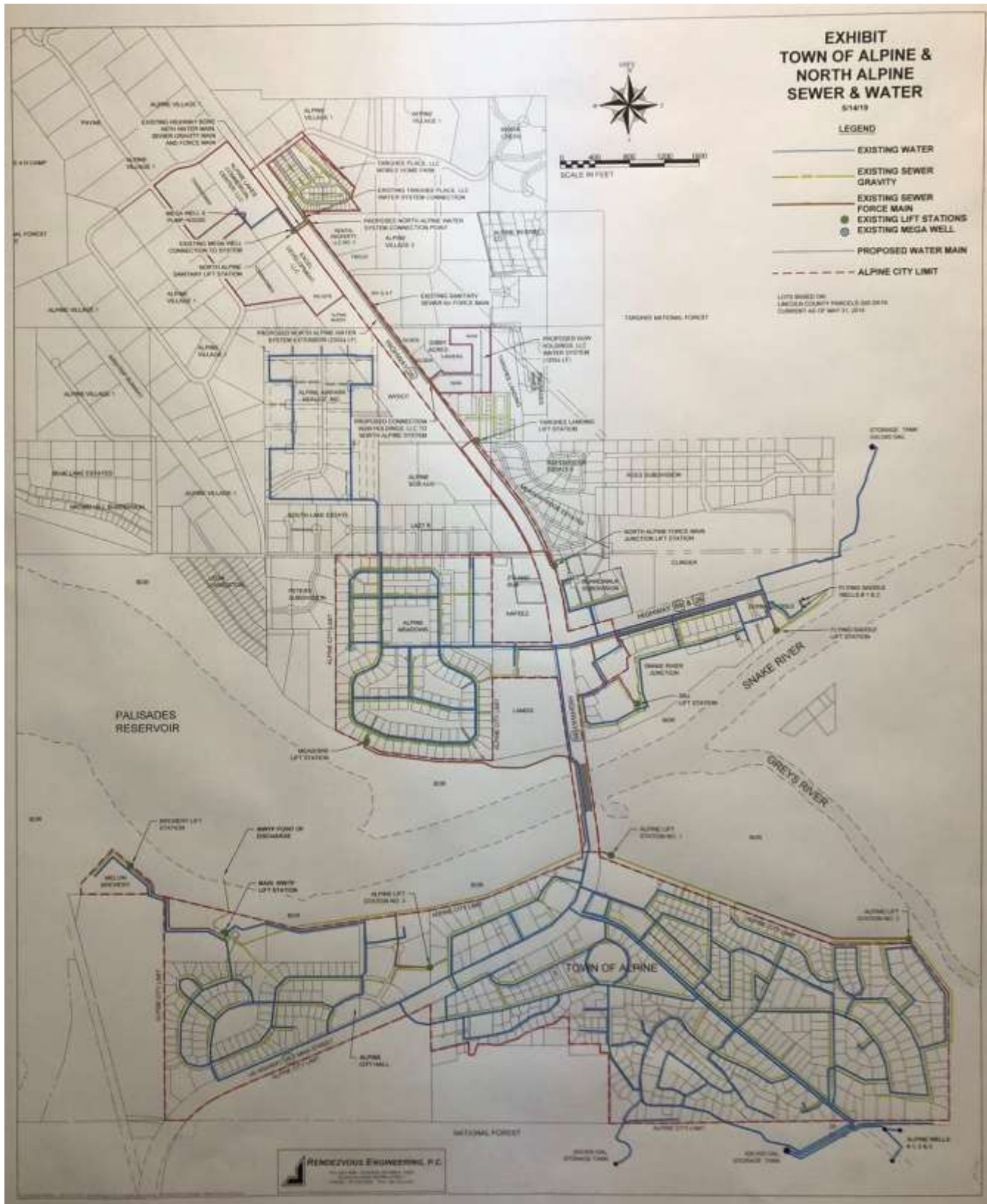
Alpine Utility District

Commercial Water

Light Commercial Connection 1" - 2"	\$ 11,800.00
Dry Meter Water Rate	\$ 60.00
Monthly Water Rate	\$ 65.00
Heavy Commercial Connection 3" - 4"	\$ 19,800.00
Dry Meter Water Rate	\$ 60.00
Monthly Water Rate	\$ 75.00

PROJECT AREA MAPS





PHOTOS

Control Building Roof with Snow



Control House Piping Condition



SCADA and VFD Controls



RESOLUTION



Town of Alpine
505 RESOLUTION NO. 02-27-2023

A RESOLUTION COMMITTING SUPPORT ON BEHALF OF THE GOVERNING BODY OF THE TOWN OF ALPINE TO MAKE APPLICATION WITH THE WYOMING WATER DEVELOPMENT COMMISSION FOR A LEVEL 1 STUDY.

WITNESSETH

WHEREAS the Governing Body of the Town of Alpine recognizes the need for an updated planning document due to the continued growth in over the past decade, and

WHEREAS the Governing Body for the Town of Alpine desires to participate in the Wyoming Water Development Commission's (WWDC) program to seek funding for a Level I reconnaissance study.

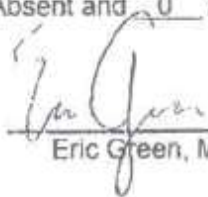
NOW, THEREFORE BE IT RESOLVED THAT THE GOVERNING BODY OF THE TOWN OF ALPINE voted on January 17, 2023 to make application with the WWDC to seek grant funding to complete a Level 1 Study

BE IT FURTHER RESOLVED that Eric Green, Mayor of the Town of Alpine, is hereby designated as the authorized representative of the Town of Alpine on all matters relating to this project.

PASSED, APPROVED AND ADOPTED THIS 17th day of January 2023.

Vote: 5 Yes, 0 No, 0 Absent and 0 Abstain.




Eric Green, Mayor

ATTEST:


Monica I. Chenault, Clerk/Treasurer

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

MUNICIPAL/JOINT POWERS WATER BOARD WATER SYSTEMS

Project Name: Bairoil Water Master Plan

Program: New Development

Project Type: Municipal Water System

County: Sweetwater

Sponsor: Town of Bairoil

WWDO Recommendation: Level I

Proposed Budget: \$147,000

Basis for the Funding Recommendation:

The Town of Bairoil is requesting WWDC funding for a 2024 Bairoil Water Master Plan, Level I Study. The study would evaluate the current condition of their water system and provide the tools and guidance needed to assist in the planning, rehabilitating, upgrading, and managing of their system.

Project Manager: Keith E. Clarey, PG

I. PROJECT DESCRIPTION

The Town of Bairoil is requesting a 2024 Level I water master plan to identify the components of their existing system, to evaluate the system, and to provide a schedule for improvements. The study would serve as a framework to establish project priorities and to perform the appropriate financial planning necessary to meet those priorities. It would also provide reconnaissance-level information regarding costs and scheduling.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Bairoil Water Supply Project	II	81	1999	I	\$ 225,000	2001
Bairoil Water Supply Project, Phase 4	II	36	2000	I	\$ 200,000	2003
Bairoil Water Supply Project (well)	III	96	2000	I	\$ 480,000*	2005
Bairoil Water Supply Project, Phase 5	II	7	2002	I	\$ 40,000	2005
Bairoil Water Supply Project	II	118	2004	I	\$ N/A	2007

*60% grant

2. Describe the location of the project:

The Town of Bairoil is located in Sweetwater County and resides within the Great Divide Basin. The town has a population of 64 people and they are served through 42 taps in the corporate limits and 1 tap outside the limits. The town does not anticipate future growth. The town is supplied with Battle Springs Formation groundwater from one (1) well (60 gpm) and also from Abel Springs groundwater (several springs yielding 35-100 gpm). The transmission line runs approximately 6.5 miles and consists of 6-inch & 10-inch PVC pipe. The supplied groundwater is treated by chlorination (sodium hypochlorite) before entering the tank and stored in one (1) 350,000-gallon, covered steel storage tank. Dosing is controlled manually. There is no SCADA system. The tank has an overflow for excess water. There are many paper maps, however, it is unclear which maps are accurate because of historically poor record keeping. The system needs the development of both a hydraulic model and GIS.

The Town of Bairoil's water system is experiencing issues because the aging system is nearing the end of its design life and also faces maintenance questions and concerns regarding the current system. A master plan would help the town council evaluate and prioritize planning, rehabilitation, upgrades, and management of the system. The study would evaluate transmission and distribution lines, hydrants, valves, storage, and water sources. Additionally, the study would investigate conveyance losses, develop accurate mapping, identify improvement projects, and evaluate funding sources for capital improvement.

3. Summarize the request:

A Level I water master plan is needed by the Town of Bairoil to evaluate the current condition of their water system and to provide the tools and guidance necessary to assist in the planning, rehabilitation, upgrading, replacement, and managing of their system. The plan would serve as a framework to establish project priorities and to perform financial planning necessary to meet those priorities. It would also provide reconnaissance-level information regarding costs and scheduling.

4. Summarize the reasons for the request:

The Town of Bairoil is requesting a Level I water master plan to evaluate the components of the existing system, identify system needs, and to provide a prioritized schedule for improvements.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes

A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?

N/A

2. Project Priority According to WWDO Criteria: Acct I - Priority 8: LI Reconnaissance Studies
(Use Attachment III of the operating criteria.)

3. Will the project serve at least 15 water taps? Yes

A. Number of Taps: 43 taps (42 inside + 1 outside corporate limits/service area)

4. Is the sponsor eligible for funding from other state or federal programs? Yes

A. If so, what are they (RUS, SRF, other)? RUS, SRF, etc.

5. Is the Sponsor under any federal (EPA) mandates to improve its system? (e.g., Administrative Orders, violations, actions taken, etc.)?

There are significant deficiencies noted on the 2020 Sanitary Survey.

6. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system?

Due to Bairoil's remote location, regionalization is not feasible.

7. What is monthly water bill for 5,000 gallons? \$40.00

A. 20,000 Gallons? \$40.00

8. Can the project be delayed or staged? Yes

A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. EPA Public Water System (PWS) Identification Number: WY5600003

B. Groundwater

(1) Number of Wells: One

(2) Primary Supply Aquifer(s) or Formation(s): Battle Springs Formation

(3) Total Average Production Yield of All Wells (GPM): 60 gpm

C. Surface Water

(1) Source Name(s): N/A

(2) Type of Diversion(s) (Headgate, Infiltration Gallery, Pumps, Etc.): N/A

(3) Total Average Diversion Yield (CFS or GPM): N/A

D. Springs

(1) Name of Spring(s): Abel Springs

(2) Total Average Production Yield of All Springs (CFS or GPM): 35-100 gpm

E. Water Rights

(1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights?

Yes

F. Transmission Pipeline

(1) Maximum Capacity of the Transmission Pipeline(s) (Gallons per Day): 200,000 gpd

(2) Increased Capacity Needed (If Known) (Gallons per Day): N/A

(3) Approximate Distance from Source(s) to Distribution System: 6.5 miles

(4) Transmission Pipe Diameter(s): 6-inch & 10-inch

(5) Type of Transmission Pipe Material(s): PVC

(6) Age of Transmission Pipeline(s): 1985 (38 years old)

(7) Condition of Transmission Pipeline(s): Good

(8) Does the applicant possess clear title to transmission corridor easements? Yes

G. Water Storage

(1) Raw (Volume and Tank Description): None

(2) Treated (Volume and Tank Description): 350,000-gallon, covered steel tank

H. Treatment

(1) Specify Water Treatment (None, Chlorination, Filtration, Etc.): Chlorination

2. Existing Water Distribution System

A. Is the water use metered? No

B. Are billings based on meter readings? No

C. Identify unmetered usage (e.g., irrigation of parks, cemeteries, fire protection, etc.): All

D. Average Day Demand Water Usage (Gallons per Capita per Day): 562 gpcpd

E. Maximum Day Demand Water Usage (Gallons per Capita per Day): 1,512 gpcpd

F. Peak Hourly Demand Water Usage (Gallons per Capita per Day): 3,024 gpcpd

G. Distribution Pipe Diameter(s): 4-inch, 6-inch, & 8-inch

H. Type of Distribution Pipe Material(s): PVC & AC pipe, service lines are copper, galvanized, & poly

I. Age of Distribution Pipeline(s): 1950-2000 (73 to 23 years old)

J. Condition of Distribution Pipeline(s): Poor

K. Estimated System Water Losses (Percentage): Unknown, but significant.

L. Describe any fire flow protection that the system provides: Fire hydrants tested biannually.

M. What water conservation measures are employed? Public notification.

- N. Is there an independent raw water irrigation system? No
 (1) Raw Water System Capacity (Gallons per Day): N/A
 (2) Average Annual Raw Water Usage (Gallons per Year): N/A

3. Demographic Information and Existing Water Service Area

- A. Population (2020 Census): 105 B. Current Population Estimate: 64
 C. Does the applicant have a comprehensive planning boundary? Yes
 (1) If so, what is the estimated additional population that may be served in the future? Population growth is not anticipated.
 D. How many taps are served within the corporate limits/JPB service area? 42 taps
 E. How many taps are served outside of the corporate limits/JPB service area? 1 tap
 F. Identify names of other water system served: None
 G. Identify any existing planning reports (municipal or county) that address growth management in the project area. Provide titles and how copies of the reports could be obtained:
 Population growth is not anticipated.

4. Financial Information

A. Rates

- (1) Tap Fee(s) – Residential: Negotiable at time of need.
 (2) Tap Fee(s) – Commercial: Negotiable at time of need.
 (3) Average Residential Monthly Water Bill and Corresponding Gallons Used:
 \$60.00/month bill (\$40.00 for water + \$20.00 for sewer), unknown amount of water usage (not metered).
 (4) Water Rates (Provide rates for all tiers and categories of use. Attach additional pages as needed.):
 Regular rates \$40.00/month for water and \$20.00/month for sewer.
 Senior rates \$22.00/month for water and \$8.00/month for sewer.
 (5) Identify any local conditions that affect water rates (e.g., flow-through for frost prevention, etc.):
 None

B. Financial Statement (of Water Utility)

(1) Revenues

a. Annual Revenues Generated from Water Sales:	\$	23,038
b. Annual Revenues from Tap Fees:	\$	0
c. Annual Revenues from Other Sources:	\$	729
d. Total Annual Revenues:	\$	23,767

(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$	24,001
b. Annual Payments for Debt Retirement:	\$	none
c. Annual Payments to a Repair and Replacement Fund:	\$	3,061
d. Annual Payments to an Emergency Fund:	\$	Same as above
e. Annual Payments for Other Purposes:	\$	0
f. Total Annual Payments:	\$	27,062

(3) Other

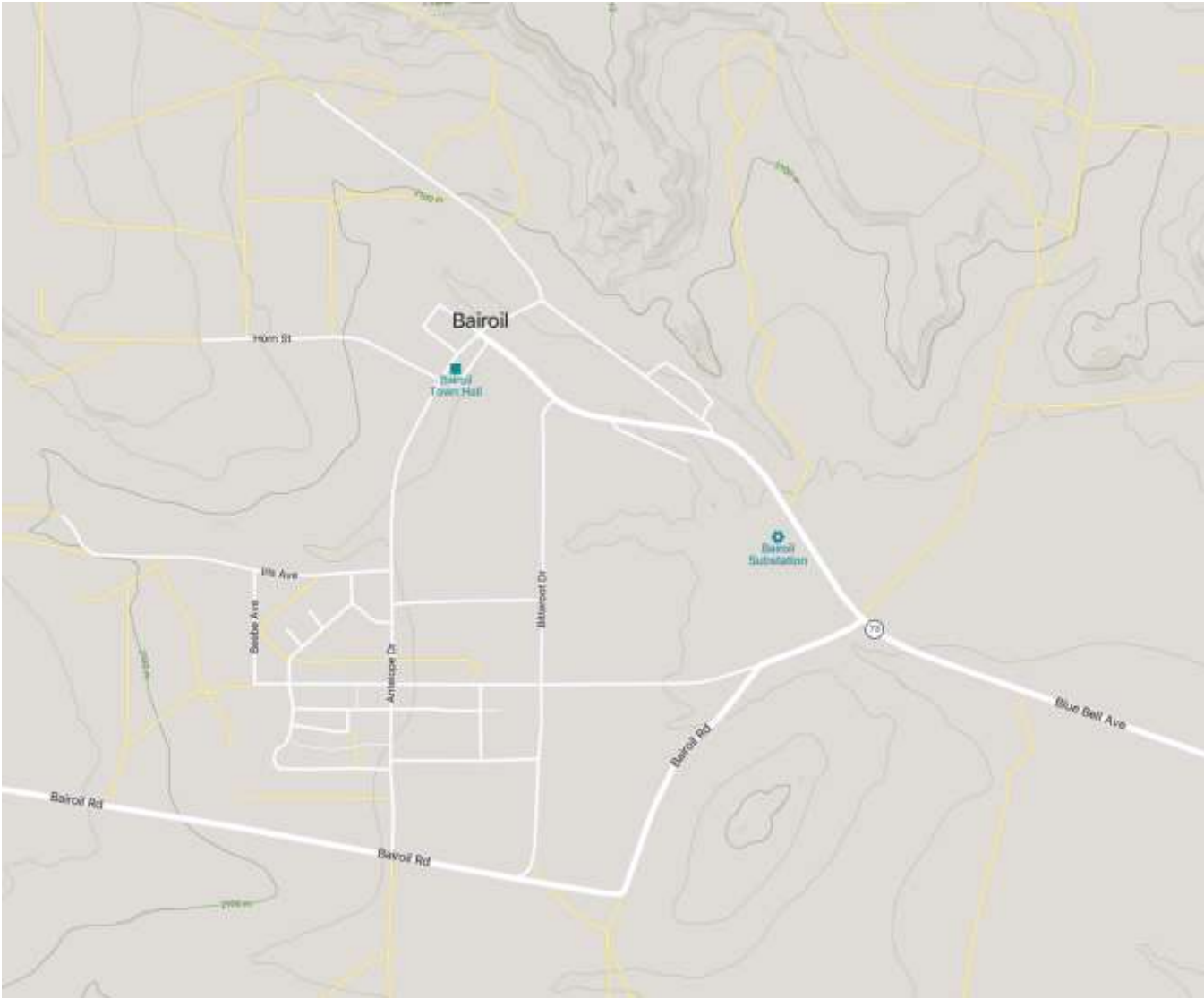
a. Balance in Repair and Replacement Fund:	\$	3,824
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b. Balance in Emergency Fund:	\$	Same as above
c. Annual Cost of Water Quality Testing:	\$	1,763

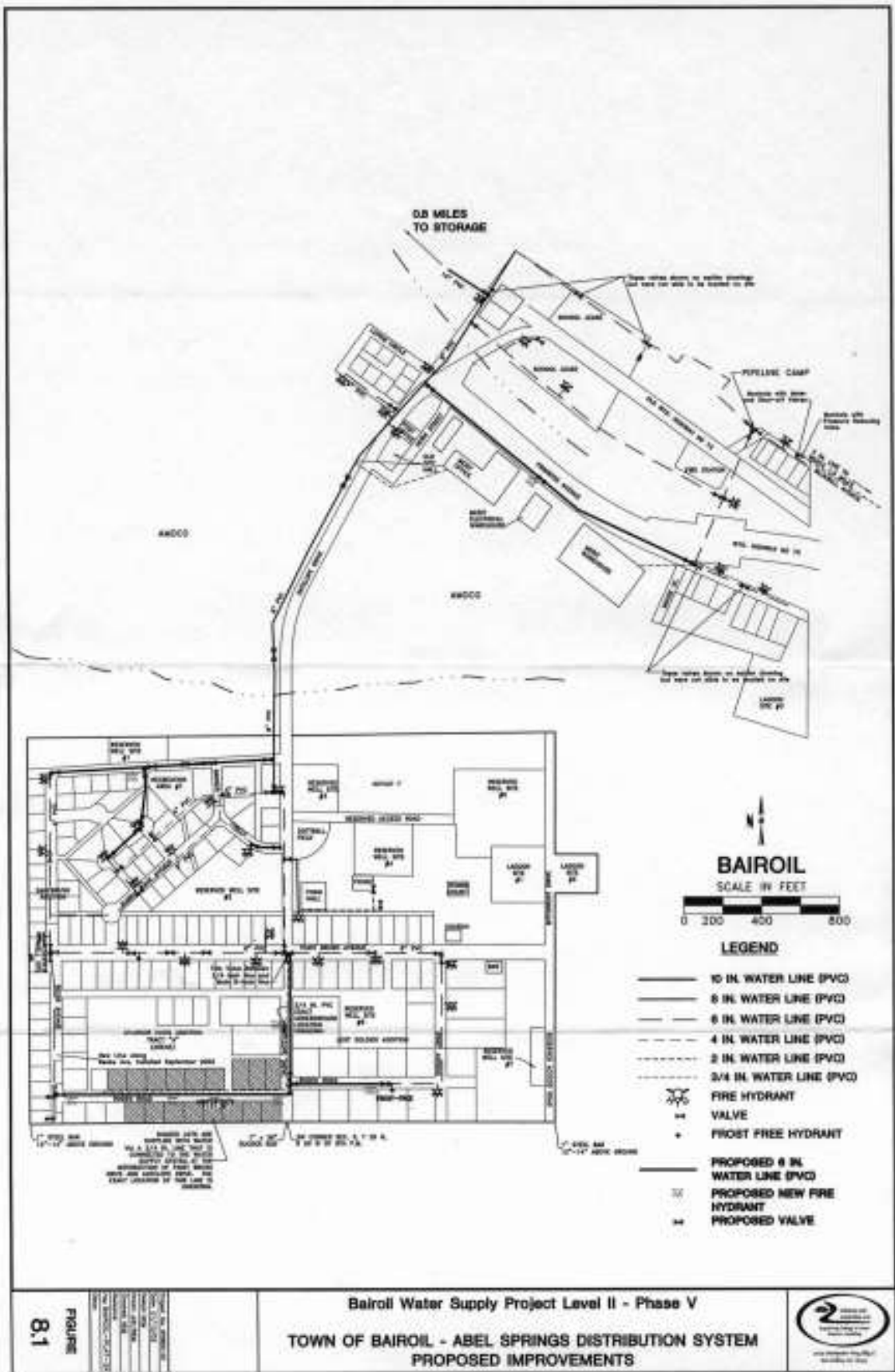
(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? No

a. If not, how is the difference subsidized? Using contingency reserve.

PROJECT AREA MAPS



Map of the Town of Bairoil, Wyoming



PHOTOS



RESOLUTION

Resolution No. 2023-03

A RESOLUTION OF THE GOVERNING BODY OF THE TOWN OF BAIROIL, SWEETWATER COUNTY, WYOMING, AUTHORIZING THE SUBMISSION OF AN APPLICATION TO THE WYOMING WATER DEVELOPMENT COMMISSION FOR ASSISTANCE IN DEVELOPING A WATER MASTER PLAN FOR THE TOWN OF BAIROIL.

WHEREAS, the Governing Body for the Town of Bairoil, Sweetwater County, Wyoming, wishes to provide the best possible service to its residents; and

WHEREAS, the Town of Bairoil's water system is experiencing issues in regards to the end of its design life and maintenance issues; and

WHEREAS, the Town of Bairoil is in need of a master plan to ensure that in the future it can provide an adequate municipal water supply to its residents;

NOW, THEREFORE, BE IT RESOLVED by the Governing Body of the Town of Bairoil, Sweetwater County, Wyoming, that submission of an application to the Wyoming Water Development Commission requesting financial assistance with its master plan to evaluate its water system is hereby authorized.

BE IT FURTHER RESOLVED that Mayor Lowell Clawson is hereby authorized to act on behalf of the Town of Bairoil on all matter relating to this request to the Wyoming Water Development Commission.

PASSED AND APPROVED at a regularly scheduled town council meeting of the Bairoil Town Council on this 15th day of MARCH, 2023.

Lowell Clawson
Mayor

WITNESSETH:
Ashley Marie Hopkin
Town Clerk

STATE OF WYOMING)
 ss.
COUNTY OF SWEETWATER)

This instrument was acknowledged before me on March 15th, 2023, by Lowell Clawson.

Ashley Marie Hopkin
Notary Public

My commission expires: July 26, 2024



2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

MUNICIPAL/JOINT POWERS WATER BOARD WATER SYSTEMS

Project Name: Chugwater Water Master Plan

Program: New Development

Project Type: Municipal Water System

County: Platte

Sponsor: Town of Chugwater

WWDO Recommendation: Level I

Proposed Budget: \$209,000

Basis for the Funding Recommendation:

The Town of Chugwater is requesting funding for a Level I reconnaissance-level water master plan to fully evaluate the infrastructure of the Town’s public water system. The study would evaluate the current condition of their water system and provide the tools and guidance needed to assist in the planning, rehabilitating, upgrading, and managing of their system.

Project Manager: Keith E. Clarey, PG

I. PROJECT DESCRIPTION

The Town of Chugwater is seeking WWDC funding to complete a Level I water master plan for the municipal water utility. This study will include a review of the entire water system to include water source supply reliability, water storage capacity, water transmission pipeline capacity, distribution pipeline network functionality, and SCADA. Of particular interest is a possible problem with Tank No.1 not being able to maintain capacity and draining a portion of the north part of the system. This potential water system imbalance has already impacted service to residences in this area. It has been almost 30 years since the last master plan study was completed on the Chugwater system.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Chugwater Water Supply	I	15	1996	I	\$ 75,000	1998
Chugwater Water Supply	II	46	1997	I	\$ 100,000	1998
Chugwater Water Supply	III	45	1997	II	\$ 103,500*	2000
Chugwater Water Supply	III	16	1999	I	\$ 967,800**	2003****
Chugwater Water Supply	III	69	2003	I	\$ 240,000**	2005****
Chugwater Water Supply	III	147	2005	I	\$ 0	2007****
Chugwater Water Supply	III	105	2006	I	\$ 134,000***	2010

*50% grant

**60% grant

***67% grant

****This reversion date was extended to 2010.

2. Describe the location of the project:

The Town of Chugwater is located in Platte County and resides within the North Platte River Basin. The town has a population of approximately 163 people and they are served through 174 taps within the corporate limits. The town is supplied with Brule Formation groundwater from three (3) wells and the wells have a total combined yield of 475 gpm. Two of the wells are located in the center of town and one well is remote. The wells supply groundwater via transmission pipelines to the two (2) 190,000-gallon, underground concrete storage tanks, which are located

north and west of town, and the distribution system. The supplied water is treated by chlorination and stored in the tanks. The water system is operated using a SCADA system.

3. Summarize the request:

A Level I water master plan is requested by the Town of Chugwater to evaluate the current condition of their water system and to provide the tools and guidance necessary to assist in the planning, rehabilitation, upgrading, and managing of their system. The Town of Chugwater is especially concerned with fully evaluating wells 3 and 4 and investigating the need for an additional well or wells; looking into the condition of the storage tanks (sp01 & sp02); recommending SCADA upgrades; investigating water loss accountability including leak testing of transmission lines; looking into installing flow meters at the pump; and the need for backup power and redundancy. The plan would serve as a framework to establish project priorities and to perform financial planning necessary to meet those priorities. The plan would also provide reconnaissance-level information regarding costs and scheduling.

4. Summarize the reasons for the request:

The Town of Chugwater is requesting a Level I water master plan to evaluate the components of the existing system and to provide a schedule for improvements. The plan will also identify system needs and develop a plan for future growth.

II. WWDC ELIGIBILITY CONSIDERATIONS

- 1. Is the Sponsor a public entity? Yes
 - A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project? N/A
- 2. Project Priority According to WWDO Criteria: Acct I - Priority 8: LI Reconnaissance Studies
(Use Attachment III of the operating criteria.)
- 3. Will the project serve at least 15 water taps? Yes
 - A. Number of Taps: 174 taps
- 4. Is the sponsor eligible for funding from other state or federal programs? Yes
 - A. If so, what are they (RUS, SRF, other)? RUS, SRF, etc.
- 5. Is the Sponsor under any federal (EPA) mandates to improve its system? (e.g., Administrative Orders, violations, actions taken, etc.)? No
- 6. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system? No
- 7. What is monthly water bill for 5,000 gallons? \$31.75
 - A. 20,000 Gallons? \$65.00
- 8. Can the project be delayed or staged? Yes
 - A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

- A. EPA Public Water System (PWS) Identification Number: WY5600200
- B. Groundwater
 - (1) Number of Wells: 3
 - (2) Primary Supply Aquifer(s) or Formation(s): Brule Formation (located between the overlying Arikaree Formation and the underlying Chadron Formation)
 - (3) Total Average Production Yield of All Wells (GPM): 475 gpm

C. Surface Water

- (1) Source Name(s): N/A
- (2) Type of Diversion(s) (Headgate, Infiltration Gallery, Pumps, Etc.): N/A
- (3) Total Average Diversion Yield (CFS of GPM): N/A

D. Springs

- (1) Name of Spring(s): N/A
- (2) Total Average Production Yield of All Springs (CFS or GPM): N/A

E. Water Rights

- (1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

F. Transmission Pipeline

- (1) Maximum Capacity of the Transmission Pipeline(s) (Gallons per Day): 3,525,000 gpd
- (2) Increased Capacity Needed (If Known) (Gallons per Day): None
- (3) Approximate Distance from Source(s) to Distribution System: Distance varies (see attached map).
- (4) Transmission Pipe Diameter(s): 6-inch, 8-inch, & 10-inch PVC from storage tanks to distribution system & sources
- (5) Type of Transmission Pipe Material(s): PVC and HDPE
- (6) Age of Transmission Pipeline(s): 20 years old to the new tank & 24 years to the old tank
- (7) Condition of Transmission Pipeline(s): Good
- (8) Does the applicant possess clear title to transmission corridor easements? Yes

G. Water Storage

- (1) Raw (Volume and Tank Description): 190,000 gallons, underground concrete storage tanks
- (2) Treated (Volume and Tank Description): 190,000 gallons

H. Treatment

- (1) Specify Water Treatment (None, Chlorination, Filtration, Etc.): Chlorination

2. Existing Water Distribution System

- A. Is the water use metered? Yes
- B. Are billings based on meter readings? Yes

C. Identify unmetered usage (e.g., irrigation of parks, cemeteries, fire protection, etc.):

Unmetered includes pipeline flushing & city tree drip system.

D. Average Day Demand Water Usage (Gallons per Capita per Day): 190 gpcpd

E. Maximum Day Demand Water Usage (Gallons per Capita per Day): 708 gpcpd

F. Peak Hourly Demand Water Usage (Gallons per Capita per Day): Unknown at this time.

G. Distribution Pipe Diameter(s): 6-inch & 8-inch distribution pipeline sizes.

H. Type of Distribution Pipe Material(s): PVC

I. Age of Distribution Pipeline(s): They date back to the late 1980s.

J. Condition of Distribution Pipeline(s): Fair?

K. Estimated System Water Losses (Percentage): 8%

L. Describe any fire flow protection that the system provides:

The Town of Chugwater provides fire protection through a series of fire hydrants located throughout the distribution system network with water supplied from the aggregate 190,000-gallon storage tank.

M. What water conservation measures are employed?

The town seeks to address water conservation through the annually increasing water utility tiered rates.

N. Is there an independent raw water irrigation system? N/A

(1) Raw Water System Capacity (Gallons per Day): N/A

(2) Average Annual Raw Water Usage (Gallons per Year): N/A

3. Demographic Information and Existing Water Service Area

A. Population (2020 Census): 175 B. Current Population Estimate: 163

C. Does the applicant have a comprehensive planning boundary? No

(1) If so, what is the estimated additional population that may be served in the future? N/A

D. How many taps are served within the corporate limits/JPB service area? 174 taps

E. How many taps are served outside of the corporate limits/JPB service area? 0

F. Identify names of other water system served: N/A

G. Identify any existing planning reports (municipal or county) that address growth management in the project area. Provide titles and how copies of the reports could be obtained:

The town is unaware of any existing reports addressing growth management across the Chugwater’s corporate limits and planning service area.

4. Financial Information

A. Rates

(1) Tap Fee(s) – Residential: \$1,000.00 for a single residential connection not exceeding 1”

(2) Tap Fee(s) – Commercial: \$2,000.00 for commercial business connection not exceeding 1”

(3) Average Residential Monthly Water Bill and Corresponding Gallons Used:

For 5,000 gallons \$31.75; For 10,000 gallons \$42.50/month; For \$20,000 gallons \$65.00/month

(4) Water Rates (Provide rates for all tiers and categories of use. Attach additional pages as needed.):

Residential Rate – Base: \$22.25 for first 1,000 gallons. \$2.25 per additional 1,000 gals.

Small Business Rate – Base: \$32.00 for first 1,000 gallons. \$2.50 per additional 1,000 gals.

Large Business Rate – Base: \$65.00 for first 1,000 gallons. \$2.50 per additional 1,000 gals.

(5) Identify any local conditions that affect water rates (e.g., flow-through for frost prevention, etc.):

None, N/A

B. Financial Statement (of Water Utility)

(1) Revenues

a. Annual Revenues Generated from Water Sales:	\$ 38,706
b. Annual Revenues from Tap Fees: None last year, collected at the time of tap installation	\$ 0
c. Annual Revenues from Other Sources: From bulk water sales	\$ 765
d. Total Annual Revenues:	\$ 39,471

(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$ \$16,752
b. Annual Payments for Debt Retirement:	\$ 0
c. Annual Payments to a Repair and Replacement Fund:	\$ N/A
d. Annual Payments to an Emergency Fund:	\$ Interest collected from CDs
e. Annual Payments for Other Purposes:	\$ N/A

f. Total Annual Payments: \$ \$16,752

(3) Other

a. Balance in Repair and Replacement Fund: \$ N/A

b. Balance in Emergency Fund: \$ \$182,202

c. Annual Cost of Water Quality Testing: \$ 2,000

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes

PROJECT AREA MAP



Town of Chugwater, WY

PHOTOS



RESOLUTION

Resolution 2023-03

A RESOLUTION AUTHORIZING SUBMISSION OF A WATER DEVELOPMENT PROGRAM APPLICATION TO THE WATER DEVELOPMENT COMMISSION ON BEHALF OF THE GOVERNING BODY FOR THE TOWN OF CHUGWATER

FOR THE PURPOSE OF a Water Master Plan Study

WITNESSETH

WHEREAS, the Governing Body for the TOWN OF CHUGWATER desires to participate in the Water Development program; and

WHEREAS, the Governing Body for the TOWN OF CHUGWATER recognizes the need for the project; and

WHEREAS, the Water Development Commission requires that certain criteria be met, as described in the Water Development Program Application, and to the best of our knowledge this request meets those criteria; and

WHEREAS, the Governing Body of the TOWN OF CHUGWATER plans to provide \$2,000 for the application fee, from the town general contingency water fund with the submission of the project application; and


WHEREAS, the Governing Body of the TOWN OF CHUGWATER understands that if denied, 75% of this application fee will be refunded; and

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BODY OF THE TOWN OF CHUGWATER

that a Water Development Program Application with an application fee of \$2,000 be submitted to the Water Development Commission for consideration.

BE IT FURTHER RESOLVED, that Mayor Carol Ash is hereby designated as the authorized representative of the TOWN OF CHUGWATER to act on behalf of the Governing Body on all matters relating to this request.

PASSED, APPROVED AND ADOPTED this 24th day of February, 2023



Mayor



Attest

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

MUNICIPAL/JOINT POWERS WATER BOARD WATER SYSTEMS

Project Name: Douglas Water Master Plan

Program: New Development

Project Type: Municipal Water System

County: Converse

Sponsor: City of Douglas

WWDO Recommendation: Level I

Proposed Budget: \$286,000

Basis for the Funding Recommendation:

The City of Douglas is requesting a Level I water master plan study to fully evaluate the infrastructure of the City's water supply system. The study will evaluate the current condition of their water system, structures, and provide tools and guidance needed to assist in the planning, rehabilitating, upgrading, managing of the system, water storage and planning for future growth. This study will also be an update to the previous Level I master plan, completed in 2010.

Project Manager: Julie Gondzar

I. PROJECT DESCRIPTION

The City of Douglas is proposing to sponsor a Level I Water Master Plan update, to reflect the current needs and issues with their water system. The City of Douglas' last water master plan was completed in 2010. The requested project would analyze the current condition of the water system, evaluate the ability of the system to efficiently provide water to the growing population, and guidance for managing the system.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Douglas Water Master Plan	I	46	1997	I	\$ 100,000	1998
Douglas Water Supply Project	III	16	1999	I	\$ 1,995,000	2002
Douglas Water Supply Rehabilitation	II	81	1999	II	\$ 60,000	2000
Douglas Water Master Plan	I	66	2009	I	\$ 200,000	2010
Douglas Box Elder Spring	III	63/55	2011/16	I	\$ 9,447,000	2019
Douglas Test Well Study	II	65	2017/23	I	\$ 1,655,000	2020/26

2. Describe the location of the project:

The City of Douglas, Wyoming, is located in Converse County, with a population of approximately 6,120 residents. The City's water system has three water sources to meet its potable water demands, including two groundwater sources (Sheep Mountain Well and Little Box Elder Spring) and one surface water source (North Platte River), with four water storage tanks (total capacity of 6,000,000 gallons). Groundwater supplies are from the Casper Sandstone and Madison Limestone formations. A Level II test well study is currently underway through the Wyoming Water Development Commission. This test well study will help to provide the City with better long-term water source sustainability.

3. Summarize the request:

The City of Douglas has requested an updated Level I water master plan to address aging infrastructure, assessing the surface water facility (sand filter plant), implementation of a successful raw water system, adapting to potential growth and how it affects water supply and water rights, implementing redundancy on the east side of the City, and the long-term sustainability of the water system in relation to the boundaries of the North Platte water cap. The master plan will provide an inventory and evaluation of the entire water system and will provide the tools and guidance necessary to assist in the planning, rehabilitation, upgrading, and managing of their system. It will also provide updated GIS mapping, an updated hydraulic model analysis of their entire system, improvement projects and their priorities, water supply in pressure zones, an evaluation of their current SCADA system, and an evaluation of their current rate system. The updated plan would serve as a framework to establish project priorities and to perform financial planning necessary to meet those priorities. It would also provide reconnaissance-level information regarding costs and scheduling.

4. Summarize the reasons for the request:

There are several specific concerns that the City of Douglas would like addressed in the updated water master plan. Aging infrastructure primarily consists of aging water storage tanks, and the ability to take the tanks offline for purposes of rehabilitation. Leak detection and evaluating areas of water loss will be crucial for this master plan to address for the City. The City's surface water facility (sand filter plant) does not allow enough flexibility or capacity for water quality changes that occur. A raw water system is needed and there are concerns about how to implement that. The City has a high potential of growth in certain areas, and assessments are needed to address concerns about water supply and water rights. With all the water coming into Douglas through transmission lines from the west side of the City, there is concern about the lack of redundancy for the east side of the City. Finally, the City of Douglas would like to have a higher confidence in the long-term sustainability of their water system as it relates directly to the institutional limitations and boundaries.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes

A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?

N/A

2. Project Priority According to WWDO Criteria: Acct I - Priority 8: LI Reconnaissance Studies
(Use Attachment III of the operating criteria.)

3. Will the project serve at least 15 water taps? Yes

A. Number of Taps: 2,687

4. Is the sponsor eligible for funding from other state or federal programs? Yes

A. If so, what are they (RUS, SRF, other)? RUS, SRF

5. Is the Sponsor under any federal (EPA) mandates to improve its system? (e.g., Administrative Orders, violations, actions taken, etc.)? No

6. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system?

The City of Douglas is part of a regionalized system, as it supplies and treats water that serves several districts (Ridgewater Estates, Sundance Meadows and Lonetree Trailer Park).

7. What is monthly water bill for 5,000 gallons? \$47.30

A. 20,000 Gallons? \$89.60

8. Can the project be delayed or staged? Yes

A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. EPA Public Water System (PWS) Identification Number: WY 5600137

B. Groundwater

(1) Number of Wells: 1

(2) Primary Supply Aquifer(s) or Formation(s): Casper Sandstone, Madison Limestone

(3) Total Average Production Yield of All Wells (GPM): 1100 GPM (May to October)

C. Surface Water

(1) Source Name(s): North Platte River

(2) Type of Diversion(s) (Headgate, Infiltration Gallery, Pumps, Etc.): Intake structure on river flows to slow sand water treatment plant

(3) Total Average Diversion Yield (CFS or GPM): 550 GPM (May to September)

D. Springs

(1) Name of Spring(s): Little Box Elder Spring

(2) Total Average Production Yield of All Springs (CFS or GPM): 1180 GPM (annual average)

E. Water Rights

(1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

F. Transmission Pipeline

(1) Maximum Capacity of the Transmission Pipeline(s) (Gallons per Day): Little Box Elder Spring: 2.3 million GPD, and Sheep Mountain Well 1.8 million GPD

(2) Increased Capacity Needed (If Known) (Gallons per Day): Little Box Elder Spring: 0 GPD, Sheep Mountain Well: 1.8 million GPD

(3) Approximate Distance from Source(s) to Distribution System: Little Box Elder Spring: 16 miles, Sheep Mountain Well: 5.5 miles

(4) Transmission Pipe Diameter(s): Little Box Elder Spring: 16", Sheep Mountain Well: 12"

(5) Type of Transmission Pipe Material(s): Little Box Elder Spring: PVC, Sheep Mountain Well: PVC, ductile iron creek crossings

(6) Age of Transmission Pipeline(s): Little Box Elder Spring: 3 years, Sheep Mountain Well: 29 years

(7) Condition of Transmission Pipeline(s): Good to fair

(8) Does the applicant possess clear title to transmission corridor easements? Yes

G. Water Storage

(1) Raw (Volume and Tank Description): N/A

(2) Treated (Volume and Tank Description): 6,000,000 gallons (four water storage tanks)

H. Treatment

(1) Specify Water Treatment (None, Chlorination, Filtration, Etc.): Chlorination, and filtration/chlorination

2. Existing Water Distribution System

A. Is the water use metered? Yes

B. Are billings based on meter readings? Yes

C. Identify unmetered usage (e.g., irrigation of parks, cemeteries, fire protection, etc.):

Water from fire hydrants during flushing, flow testing and emergency use is not metered. Fire protection lines in commercial buildings are also not metered.

- D. Average Day Demand Water Usage (Gallons per Capita per Day): 237 G/PC/D
- E. Maximum Day Demand Water Usage (Gallons per Capita per Day): 554 G/PC/D
- F. Peak Hourly Demand Water Usage (Gallons per Capita per Day): 948 G/PC/D
- G. Distribution Pipe Diameter(s): 4" to 16"
- H. Type of Distribution Pipe Material(s): Asbestos cement, cast iron, ductile iron, PVC
- I. Age of Distribution Pipeline(s): 75 years old to new
- J. Condition of Distribution Pipeline(s): Poor to new
- K. Estimated System Water Losses (Percentage): 15% estimate
- L. Describe any fire flow protection that the system provides:

Fire hydrants are spread out through the water distribution system and several buildings have fire suppression systems. The water storage tanks are designed with three storage components: equalization storage, emergency storage, and fire protection storage. Fire hydrants are flow tested on a five-year cycle.
- M. What water conservation measures are employed? N/A
- N. Is there an independent raw water irrigation system? Yes
 - (1) Raw Water System Capacity (Gallons per Day): 907,000 GPD, water right
 - (2) Average Annual Raw Water Usage (Gallons per Year): 67,700,000 G/Y

3. Demographic Information and Existing Water Service Area

- A. Population (2020 Census): 6,120 B. Current Population Estimate: 6,400
- C. Does the applicant have a comprehensive planning boundary? Yes
 - (1) If so, what is the estimated additional population that may be served in the future? 4,200
- D. How many taps are served within the corporate limits/JPB service area? 2,687
- E. How many taps are served outside of the corporate limits/JPB service area? 61
- F. Identify names of other water system served:

Lonetree Trailer Park, Ridgewater Estates, Sundance Meadows
- G. Identify any existing planning reports (municipal or county) that address growth management in the project area. Provide titles and how copies of the reports could be obtained:

Douglas Master Plan, completed in 2010

4. Financial Information

- A. Rates
 - (1) Tap Fee(s) – Residential: ¾ to 1": \$2,750; 1½": \$5,500; 2": \$8,800; 3": \$16,500; 4": \$30,250
 - (2) Tap Fee(s) – Commercial: ¾ to 1": \$2,750; 1½": \$5,500; 2": \$8,800; 3": \$16,500; 4": \$30,250
 - (3) Average Residential Monthly Water Bill and Corresponding Gallons Used:
\$44.48, 4,000 gallons
 - (4) Water Rates (Provide rates for all tiers and categories of use. Attach additional pages as needed.):
Customer Service Charge: \$5.00, Demand Charge: \$28.20
Commodity Charge: 1,000 gallons thru 30,000 gallons: \$2.82 per 1,000 gallons
31,000 gallons and over: \$3.63 per 1,000 gallons
 - (5) Identify any local conditions that affect water rates (e.g., flow-through for frost prevention, etc.):

N/A

B. Financial Statement (of Water Utility)

(1) Revenues

a. Annual Revenues Generated from Water Sales:	\$ 2,800,000
b. Annual Revenues from Tap Fees:	\$ 38,000
c. Annual Revenues from Other Sources:	\$ 373,000
<hr/>	
d. Total Annual Revenues:	\$ 3,211,000

(2) Expenditures

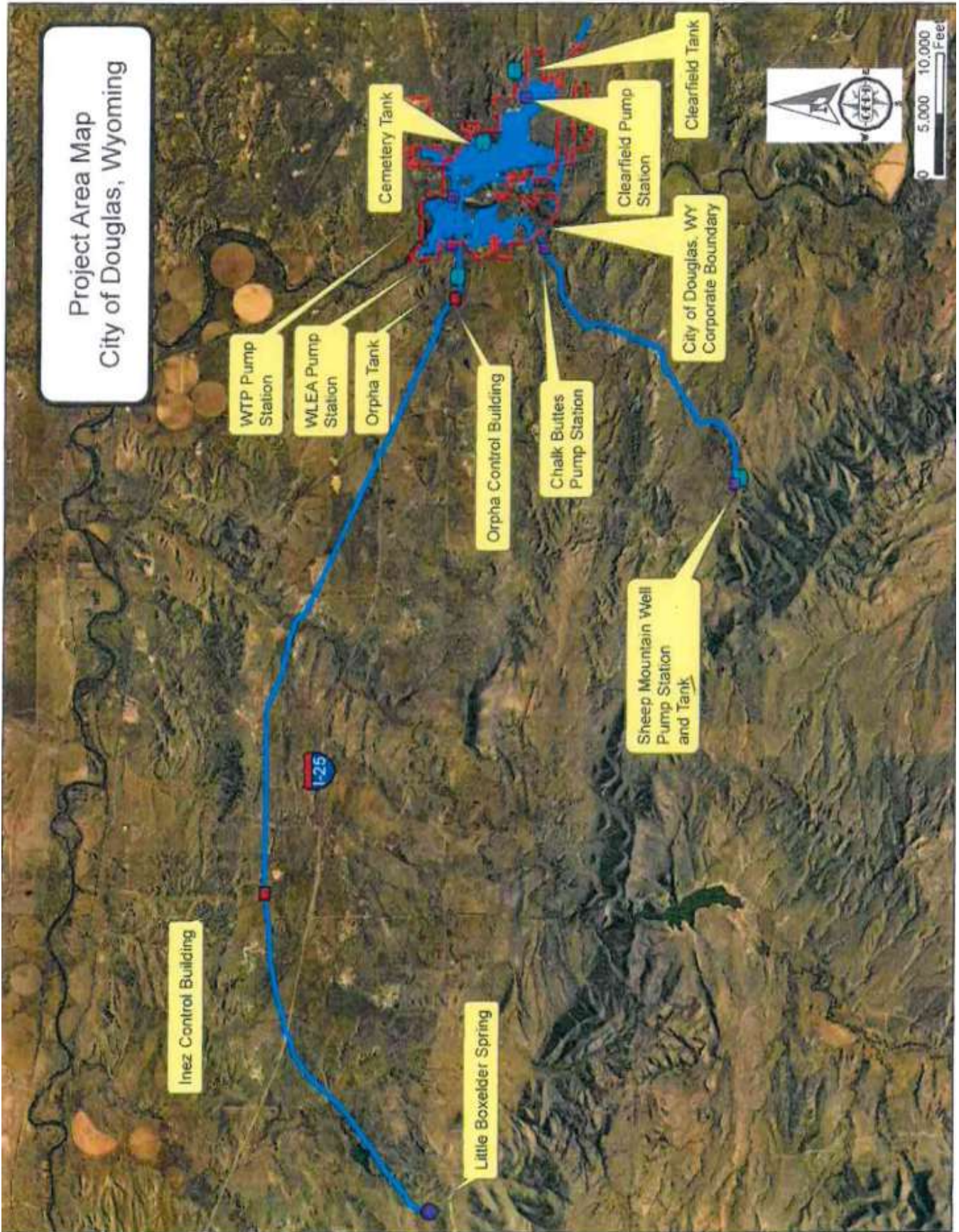
a. Annual Budget for Operation and Maintenance Expenses:	\$ 2,383,212
b. Annual Payments for Debt Retirement:	\$ 0
c. Annual Payments to a Repair and Replacement Fund:	\$ 1,120,000
d. Annual Payments to an Emergency Fund:	\$ Combined in reserve acct.
e. Annual Payments for Other Purposes:	\$ Combined in reserve acct.
<hr/>	
f. Total Annual Payments:	\$ 3,503,212

(3) Other

a. Balance in Repair and Replacement Fund:	\$ 4,697,147
b. Balance in Emergency Fund:	\$ Combined in reserve acct.
c. Annual Cost of Water Quality Testing:	\$ 10,000

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes

PROJECT AREA MAP



PHOTOS



One of the two river water main line crossings on the North Platte River, west side of the City of Douglas.



City of Douglas water storage tanks

RESOLUTION

STATE OF WYOMING

CITY OF DOUGLAS

CONVERSE COUNTY

RESOLUTION NO. 2023-04

A RESOLUTION AUTHORIZING THE SUBMITTAL OF A WATER SYSTEM MASTER PLAN LEVEL I STUDY APPLICATION TO THE WYOMING WATER DEVELOPMENT COMMISSION FOR THE PURPOSE OF CONDUCTING AN IN-DEPTH RECONNAISSANCE OF THE CITY OF DOUGLAS WATER SYSTEM

WHEREAS, the Governing Body for the City of Douglas desires to participate in a Wyoming Water Development Commission Water System Master Plan Level I study

WHEREAS, the water demand during summer months is approaching the limits of supply production, treatment and water storage

WHEREAS, the City of Douglas continues to experience steady growth; and

WHEREAS, the City of Douglas desires to have both redundancy of water supply and redundancy within the water distribution system

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DOUGLAS, WYOMING, that the City of Douglas is authorized to apply for a Level I Wyoming Water Development Commission study to provide an in-depth reconnaissance of the City of Douglas Water System

BE IT FURTHER RESOLVED, that City Administrator, J.D. Cox, is authorized to act on behalf of the City of Douglas on all matters relating to this grant request.

PASSED, APPROVED, AND ADOPTED this 27th day of January, 2023.

Attest:

Chaz Kokesh, City Clerk



René S. Kemper, Mayor Pro-Tem

State of Wyoming
County of Converse

On this 28th day of January, A.D. 2023, before me, a notary public in and for said county and state, personally appeared René S. Kemper, known to me to be the Mayor Pro-Tem of the City of Douglas, Wyoming, and caused the corporate seal of the City of Douglas to be affixed thereto, pursuant to authority given by the Governing Body of the City of Douglas by ordinance approved January 5, 1903. Given under my hand and notarial seal the day and year first above written.

My Commission Expires: 2/11/2023

Notary Public



2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

MUNICIPAL/JOINT POWERS WATER BOARD WATER SYSTEMS

Project Name: GR-RS-SC JPWB Regional Water Master Plan

Program: New Development

Project Type: Joint Powers Water Board Water System

County: Sweetwater

Sponsor: Green River-Rock Springs-Sweetwater County (GR-RS-SC) Joint Powers Water Board (JPWB)

WWDO Recommendation: Level I

Proposed Budget: \$432,000

Basis for the Funding Recommendation:

The GR-RS-SC JPWB is requesting a 2024 WWDC regional water master plan, Level I study update to the previous 2009 master plan to evaluate current needs and future planning for the regional water system. The study would evaluate the current condition of their water system and provide the tools and guidance needed to assist in the planning, rehabilitating, upgrading, and managing of their system.

Project Manager: Keith Clarey, PG

I. PROJECT DESCRIPTION

The GR-RS-SC JPWB is seeking funding for a Level I reconnaissance study to conduct a updated regional water master plan of the water system. The requested project would analyze the current condition of the regional water system, evaluate the ability of the system to efficiently provide water to the growing population, and provide guidance for managing the system.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
GR-RS-SC Master Plan, Phase 1	I	75	2005	I	\$ 225,000	2008
GR-RS-SC Master Plan, Phase 2	I	85	2007	I	\$ 220,000	2010
GR-RS-SC Water Supply Study	II	66	2009	I	\$ 350,000	2012
GR-RS-SC Raw Water Reservoir	III	63	2011	I	\$ 900,000	2016
GR-RS-SC Raw Water Reservoir	III	14	2012	I	\$ 8,282,000	2017
GR-RS-SC Pipeline Feasibility Study	II	168	2015	I	\$ 125,000	2018
GR-RS-SC Wind River Zone Study	II	65	2017	I	\$ 180,000	2020
GR-RS-SC Pump Station & Transmission Study	II	94	2018	I	\$ 180,000	2021
GR-RS-SC Eastside Zone Study	II	186	2023	I	\$ 228,000	2026

2. Describe the location of the project:

The GR-RS-SC JPWB regional water system is comprised of a 32 MGD surface Water Treatment Plant (WTP) in Green River serving the distribution systems in the City of Green River, City of Rock Springs, four (4) outlying districts, and one (1) industrial customer. The Board is a political subdivision with members appointed by the cities and county. The JPWB owns the systems in the two cities. Each city maintains and operates their respective

distribution systems. A previous WWDC Level I water master plan was completed in 2007-2009 (2 phases). This previous plan has been invaluable to the JPWB and the two cities. The project recommendations for the 2007-2009 plan have been completed and an updated study is needed to project the needs of the future. The hydraulic model of the system is the core tool used. The model needs to be updated and the calibration verified.

The JPWB utilizes computer hydraulic modeling software to perform system analysis and future planning. The mapping of each distribution system is the responsibility of each respective city or district. The mapping is maintained in various formats utilizing GIS, AutoCAD, as-builts, and paper system maps.

3. Summarize the request:

The JPWB is seeking funding for a new Level I regional water master plan to assess the current and future needs of the water system. They are very interested in a full evaluation of previous studies including the master plan (Phase I and II), all Level II reports, Sweetwater County planning for the South Baxter Basin, water rights and water resource studies, transient analysis (verify), and the finished water backup generator. The JPWB wants to include planning for growth in the GR-south side/Jamestown/I-80 and in the RS-Summit Pump Station/South Baxter/Eastside Zone. Also, the Board would like comprehensive planning for water conservation (including quantification of reductions in consumptive water use), existing and future system capacity, component life cycle analysis, and an evaluation of future regulatory demands. This JPWB regional water system is large and complex and the updated plan would serve as a framework to establish project priorities and to perform the appropriate financial planning necessary to meet those priorities. It would also provide reconnaissance-level information regarding costs and scheduling.

4. Summarize the reasons for the request:

The JPWB is requesting a 2024 Level I reconnaissance study to evaluate the current and future needs of the regional water system. An updated master plan will allow the JPWB to evaluate system deficiencies, ensure system viability for future growth, prioritize improvement projects, and provide a schedule for identified projects

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes

A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?

N/A

2. Project Priority According to WWDO Criteria: Acct I - Priority 8: LI Reconnaissance Studies
(Use Attachment III of the operating criteria.)

3. Will the project serve at least 15 water taps? Yes

A. Number of Taps: GR, RS, + Districts = 14,150 taps total

4. Is the sponsor eligible for funding from other state or federal programs? Yes

A. If so, what are they (RUS, SRF, other)? RUS, SRF, and others.

5. Is the Sponsor under any federal (EPA) mandates to improve its system? (e.g., Administrative Orders, violations, actions taken, etc.)? No

6. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system?

The GR-RS-SC JPWB is the regional wholesale treated surface water provider for Green River, Rock Springs, four outlying districts, and one industrial customer. The JPWB is the sponsor for this project.

7. What is monthly water bill for 5,000 gallons? N/A (wholesale water sales only)

A. 20,000 Gallons? N/A (wholesale water sales only)

8. Can the project be delayed or staged? Yes

A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. EPA Public Water System (PWS) Identification Number: WY5600050

B. Groundwater

(1) Number of Wells: N/A

(2) Primary Supply Aquifer(s) or Formation(s): N/A

(3) Total Average Production Yield of All Wells (GPM): N/A

C. Surface Water

(1) Source Name(s): Green River

(2) Type of Diversion(s) (Headgate, Infiltration Gallery, Pumps, Etc.): Cut-Off Wall/Wet Wall with Vertical Turbine Pumps.

(3) Total Average Diversion Yield (CFS or GPM): Average 6,700 gpm, Capacity 22,000 gpm

D. Springs

(1) Name of Spring(s): N/A

(2) Total Average Production Yield of All Springs (CFS or GPM): N/A

E. Water Rights

(1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

F. Transmission Pipeline

(1) Maximum Capacity of the Transmission Pipeline(s) (Gallons per Day): 19,400,000 gpd to RS

(2) Increased Capacity Needed (If Known) (Gallons per Day): Unknown

(3) Approximate Distance from Source(s) to Distribution System: WTP to RS is approximately 14 miles.

(4) Transmission Pipe Diameter(s): 30-inch Steel & 20-inch AC (Asbestos Cement)

(5) Type of Transmission Pipe Material(s): Mortar-Lined Steel & Asbestos Cement (AC)

(6) Age of Transmission Pipeline(s): 29 Years & 53 years

(7) Condition of Transmission Pipeline(s): 30-inch is average & 20-inch is over-pressured in sections

(8) Does the applicant possess clear title to transmission corridor easements? Yes

G. Water Storage

(1) Raw (Volume and Tank Description): 330-Acre-Foot, Lined Reservoir

(2) Treated (Volume and Tank Description): Total Storage GR & RS = 21 MG. Buried Concrete & Steel Tanks.

H. Treatment

(1) Specify Water Treatment (None, Chlorination, Filtration, Etc.): Conventional – Ozone, Filtration, Chlorination.

2. Existing Water Distribution System

A. Is the water use metered? Yes

B. Are billings based on meter readings? Yes

C. Identify unmetered usage (e.g., irrigation of parks, cemeteries, fire protection, etc.):

No Unmetered Usage

D. Average Day Demand Water Usage (Gallons per Capita per Day): 200 gpcpd

E. Maximum Day Demand Water Usage (Gallons per Capita per Day): 400 gpcpd

F. Peak Hourly Demand Water Usage (Gallons per Capita per Day): 625 gpcpd

G. Distribution Pipe Diameter(s): 6-inch Minimum up to 14-inch Distribution

H. Type of Distribution Pipe Material(s): DI/CI/AC/PVC

I. Age of Distribution Pipeline(s): Varies, Some New Installation/Replacement to 50+ Years.

J. Condition of Distribution Pipeline(s): New to Poor

K. Estimated System Water Losses (Percentage): Average 12% to 15%

L. Describe any fire flow protection that the system provides:

Fire Storage Volume is calculated into the tank storage requirements and tank cycling is maintained above those levels. Standard fire hydrant placement throughout the city.

M. What water conservation measures are employed?

Responsible water use is encouraged though out the city.

N. Is there an independent raw water irrigation system? No

(1) Raw Water System Capacity (Gallons per Day): N/A

(2) Average Annual Raw Water Usage (Gallons per Year): N/A

3. Demographic Information and Existing Water Service Area

A. Population (2020 Census): 39,500 total GR+RS+Districts
total GR+RS+Districts

B. Current Population Estimate: 38,900

GR 11,825

RS 23,526

SC 42,272

C. Does the applicant have a comprehensive planning boundary? Yes

(1) If so, what is the estimated additional population that may be served in the future? Demand = 37.8 MGD

D. How many taps are served within the corporate limits/JPB service area? 14,150 taps (total taps in GR+RS+Districts)

E. How many taps are served outside of the corporate limits/JPB service area? None

F. Identify names of other water system served:

City of Green River, City of Rock Springs, Jamestown-Rio Vista Water & Sewer District, Clearview Service District, White Mountain Water & Sewer District, Ten Mile Water & Sewer District, Simplot Phosphates

G. Identify any existing planning reports (municipal or county) that address growth management in the project area. Provide titles and how copies of the reports could be obtained:

The Sweetwater County Growth Management Plan can be obtained at the Sweetwater County Planning Department in Green River or at www.sweetwatercountywy.gov

4. Financial Information

A. Rates

(1) Tap Fee(s) – Residential: The JPWB does not serve residential customers directly, wholesale water only.

(2) Tap Fee(s) – Commercial: The JPWB does not serve commercial customers directly, wholesale water only.

(3) Average Residential Monthly Water Bill and Corresponding Gallons Used:

See above.

(4) Water Rates (Provide rates for all tiers and categories of use. Attach additional pages as needed.):

Wholesale water rates from JPWB to:

City of Green River and Jamestown-Rio Vista = \$1.2905 per hundred cubic feet; and

City of Rock Springs, Districts near RS, Simplot = \$1.4717 per hundred cubic feet.

(5) Identify any local conditions that affect water rates (e.g., flow-through for frost prevention, etc.):

Wholesale rates are established by the JPWB to cover the cost of treatment, O&M, debt service, and to fund reserves associated with treatment plant.

B. Financial Statement (of Water Utility)

(1) Revenues

a. Annual Revenues Generated from Water Sales:	\$ 6,529,000
b. Annual Revenues from Tap Fees:	\$ N/A
c. Annual Revenues from Other Sources:	\$ 827,000
<hr/>	
d. Total Annual Revenues:	\$ 7,356,000

(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$ 4,665,000
b. Annual Payments for Debt Retirement:	\$ 1,916,000
c. Annual Payments to a Repair and Replacement Fund:	\$ 775,000
d. Annual Payments to an Emergency Fund:	\$ Reserves on hand
e. Annual Payments for Other Purposes:	\$ N/A
<hr/>	
f. Total Annual Payments:	\$ 7,356,000

(3) Other

a. Balance in Repair and Replacement Fund:	\$ 3,781,000
b. Balance in Emergency Fund:	\$ 2,304,000
c. Annual Cost of Water Quality Testing:	\$ 14,000

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes

PROJECT AREA MAPS

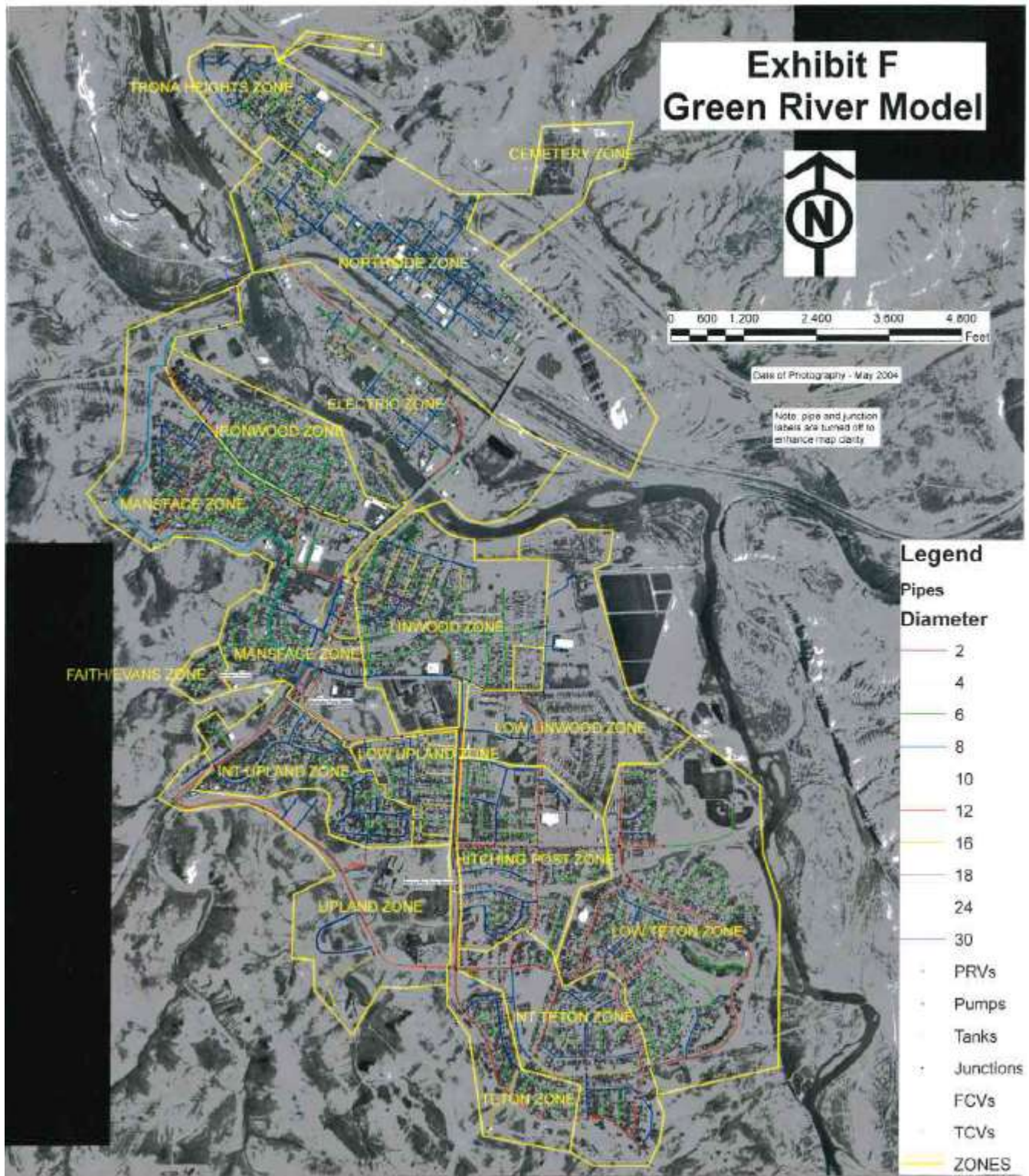


Exhibit E Rock Springs Model

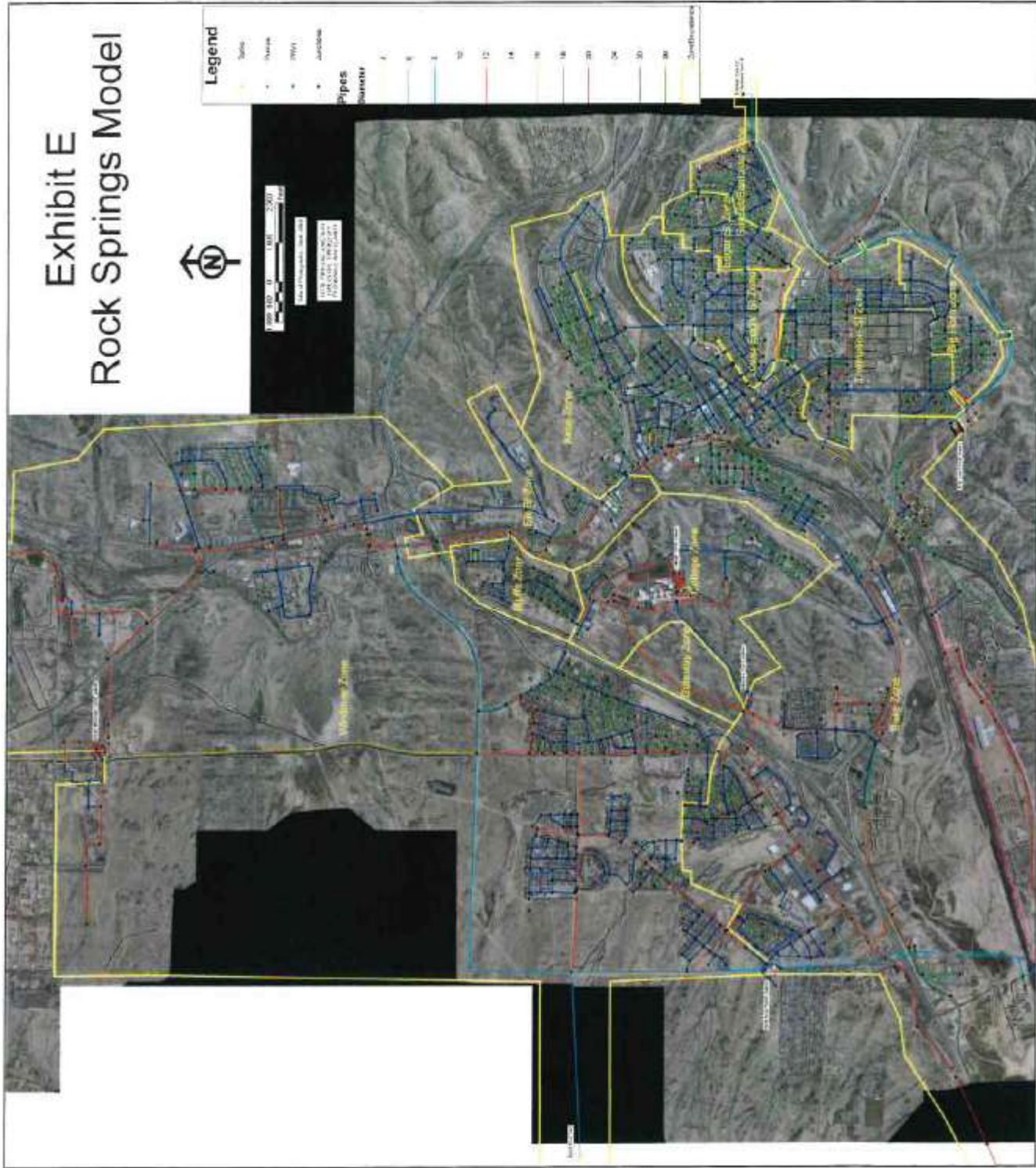


Legend

- Water
- Sanitary
- Storm
- WWT
- Junction

Pipes

Color	Diameter (inches)
Red	12
Orange	14
Yellow	16
Green	18
Light Green	20
Light Blue	24
Blue	30
Dark Blue	36
Black	48



PHOTOS



Aerial view of Green River, Wyoming



Aerial view of Rock Springs, Wyoming



RESOLUTION

RESOLUTION 23-05

GREEN RIVER•ROCK SPRINGS•SWEETWATER COUNTY
JOINT POWERS WATER BOARD

A RESOLUTION AUTHORIZING SUBMISSION OF A REQUEST FOR A LEVEL I STUDY FOR AN UPDATED WATER SYSTEM MASTER PLAN TO THE WYOMING WATER DEVELOPMENT COMMISSION, ON BEHALF OF THE GOVERNING BODY FOR THE CITY OF GREEN RIVER, WYOMING, CITY OF ROCK SPRINGS, WYOMING, SWEETWATER COUNTY, WYOMING, JOINT POWERS WATER BOARD (JPWB) FOR THE PURPOSE OF PERFORMING A STUDY THAT EVALUATES THE JPWB'S WATER SYSTEM IN ITS ENTIRETY

WHEREAS, the Governing Body for the JPWB was the sponsor of a Wyoming Water Development Commission Level I, Water System Master Plan Phase I dated January 2007, and Water System Master Plan Phase II dated January 2009; and

WHEREAS, the Governing Body for the JPWB desires to update these studies to provide a thorough review of the JPWB's current system and provide updated system recommendations; and

WHEREAS, the Governing Body for the JPWB recognizes the need for the project; and

WHEREAS, the Wyoming Water Development Commission requires that certain criteria be met, as described in the "Operating Criteria of the Wyoming Water Development Program";

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BODY OF THE CITY OF GREEN RIVER, WYOMING, CITY OF ROCK SPRINGS, WYOMING, SWEETWATER COUNTY, WYOMING, JOINT POWERS WATER BOARD that a Level I Study request be submitted to the Wyoming Water Development Commission on or before March 1, 2023.

BE IT FURTHER RESOLVED, that the General Manager is hereby designated as the authorized representative of the JPWB to act on behalf of the JPWB Governing Body on matters relating to this application and is the designated signatory for the application.

PASSED, APPROVED, AND ADOPTED THIS 23rd DAY OF February 2023:



Terry Leigh, Chairman

ATTEST: 

Hilary Huckfeldt
Secretary/Treasurer

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

MUNICIPAL/JOINT POWERS WATER BOARD WATER SYSTEMS

Project Name: Hudson Water Master Plan

Program: New Development

Project Type: Municipal Water System

County: Fremont

Sponsor: Town of Hudson

WWDO Recommendation: Level I

Proposed Budget: \$210,000

Basis for the Funding Recommendation:

A WWDC Master Plan was previously completed in 2009 and the Town is in need of an updated master plan. The updated study would evaluate the current condition of their water system and provide the tools and guidance needed to assist in the planning, rehabilitating, upgrading, and managing of their system.

Project Manager: George Moser

I. PROJECT DESCRIPTION

Hudson sources potable water from an alluvial wellfield combined with a water treatment plant. The Town has a separate system for high-demand landscape watering areas and some residents use surface water for lawn watering. Hudson does not currently utilize any GIS system and does not possess a calibrated hydraulic model. In addition to updated mapping and modeling, this project will develop system improvement recommendations and a plan to address those improvements.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Hudson Water System	II	99	2006	I	\$ 575,000	2009
Hudson Water Supply	III	38	2009	I	\$ 1,520,000	2014

2. Describe the location of the project:

Hudson is located near the confluence of the Little Popo Agie and the Popo Agie Rivers in Fremont County.

3. Summarize the request:

Hudson desires a Reconnaissance Study of the water system to include GIS work, hydraulic modeling, and evaluation of alternate water sources. The updated plan would serve as a framework to establish project priorities and to perform the appropriate financial planning necessary to meet those priorities. It would also provide reconnaissance-level information regarding costs and scheduling.

4. Summarize the reasons for the request:

Components of a Water Master Plan were developed as part of the 2007 Level II Study. The Town needs an updated Water Master Plan to identify and prioritize deficiencies and assist with future water system enhancements.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes

A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?

N/A

2. Project Priority According to WWDO Criteria: Acct I - Priority 8: LI Reconnaissance Studies
(Use Attachment III of the operating criteria.)

3. Will the project serve at least 15 water taps? Yes

A. Number of Taps: 250

4. Is the sponsor eligible for funding from other state or federal programs? Yes

A. If so, what are they (RUS, SRF, other)? RUS, SRF

5. Is the Sponsor under any federal (EPA) mandates to improve its system? (e.g., Administrative Orders, violations, actions taken, etc.)? No

6. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system?

Hudson is not currently served by a regional system, but is strongly in favor of being served by [a regional system]. *From application received February 28, 2023.*

7. What is the monthly water bill for 5,000 gallons? \$ 55.50

A. 20,000 Gallons? Summer = \$89.60; Winter = \$80.30

8. Can the project be delayed or staged? Yes

A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. EPA Public Water System (PWS) Identification Number: 5600183

B. Groundwater

(1) Number of Wells: 11

(2) Primary Supply Aquifer(s) or Formation(s): Little Popo Agie Alluvium

(3) Total Average Production Yield of All Wells (GPM): 250 gpm

C. Surface Water

(1) Source Name(s): N/A

(2) Type of Diversion(s) (Headgate, Infiltration Gallery, Pumps, Etc.): N/A

(3) Total Average Diversion Yield (CFS of GPM): N/A

D. Springs

(1) Name of Spring(s): N/A

(2) Total Average Production Yield of All Springs (CFS or GPM): N/A

E. Water Rights

(1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

F. Transmission Pipeline

(1) Maximum Capacity of the Transmission Pipeline(s) (Gallons per Day): Unknown

(2) Increased Capacity Needed (If Known) (Gallons per Day): Unknown

(3) Approximate Distance from Source(s) to Distribution System: Less than ¼ mile.

(4) Transmission Pipe Diameter(s): 8 to 12 - inch

- (5) Type of Transmission Pipe Material(s): Ductile Iron, PVC, Others
- (6) Age of Transmission Pipeline(s): Varies
- (7) Condition of Transmission Pipeline(s): Unknown
- (8) Does the applicant possess clear title to transmission corridor easements? As far as is known

G. Water Storage

- (1) Raw (Volume and Tank Description): N/A
- (2) Treated (Volume and Tank Description): 350,000 gallons, Steel

H. Treatment

- (1) Specify Water Treatment (None, Chlorination, Filtration, Etc.): Low Pressure Membranes, Chlorination

2. Existing Water Distribution System

- A. Is the water use metered? Yes
- B. Are billings based on meter readings? Yes
- C. Identify unmetered usage (e.g., irrigation of parks, cemeteries, fire protection, etc.):
Areas of landscaping which are on dedicated separate systems are not metered. Fire protection is unmetered.
- D. Average Day Demand Water Usage (Gallons per Capita per Day): 357
- E. Maximum Day Demand Water Usage (Gallons per Capita per Day): 428
- F. Peak Hourly Demand Water Usage (Gallons per Capita per Day): Not Known
- G. Distribution Pipe Diameter(s): 4", 6", and 8"
- H. Type of Distribution Pipe Material(s): Mostly PVC, some ductile iron
- I. Age of Distribution Pipeline(s): Varies. Some of the system was replaced 10-15 years ago; however, the extent is unknown.
- J. Condition of Distribution Pipeline(s): Fair
- K. Estimated System Water Losses (Percentage): 20%
- L. Describe any fire flow protection that the system provides:
Fire hydrants with storage in tanks. Approximately 50% of the hydrants are not functional.
- M. What water conservation measures are employed?
Billing based on water use.
- N. Is there an independent raw water irrigation system? Yes. Much of the town uses surface water appropriations for lawn watering.
 - (1) Raw Water System Capacity (Gallons per Day): Unknown
 - (2) Average Annual Raw Water Usage (Gallons per Year): Unknown

3. Demographic Information and Existing Water Service Area

- A. Population (2020 Census): 417
- B. Current Population Estimate: 420
- C. Does the applicant have a comprehensive planning boundary? No
 - (1) If so, what is the estimated additional population that may be served in the future? Unknown
- D. How many taps are served within the corporate limits/JPB service area? 250
- E. How many taps are served outside of the corporate limits/JPB service area? None
- F. Identify names of other water system served: N/A
- G. Identify any existing planning reports (municipal or county) that address growth management in the project area. Provide titles and how copies of the reports could be obtained: None known.

4. Financial Information

A. Rates

(1) Tap Fee(s) – Residential: \$500.00

(2) Tap Fee(s) – Commercial: \$500.00

(3) Average Residential Monthly Water Bill and Corresponding Gallons Used:

\$55.50 for 9,000 gallons in the Summer and 12,000 gallons in the Winter

(4) Water Rates (Provide rates for all tiers and categories of use. Attach additional pages as needed.):

Residential: \$55.50; School: \$62.50; Commercial 5/8" tap: \$56.75; Commercial 3/4" tap: \$68.70; Commercial 1" tap: \$80.70

(5) Identify any local conditions that affect water rates (e.g., flow-through for frost prevention, etc.):

Flow-through for frost prevention in the winter.

B. Financial Statement (of Water Utility)

(1) Revenues

a. Annual Revenues Generated from Water Sales:	\$	169,000
b. Annual Revenues from Tap Fees:	\$	0
c. Annual Revenues from Other Sources:	\$	3,600
d. Total Annual Revenues:	\$	172,600

(2) Expenditures

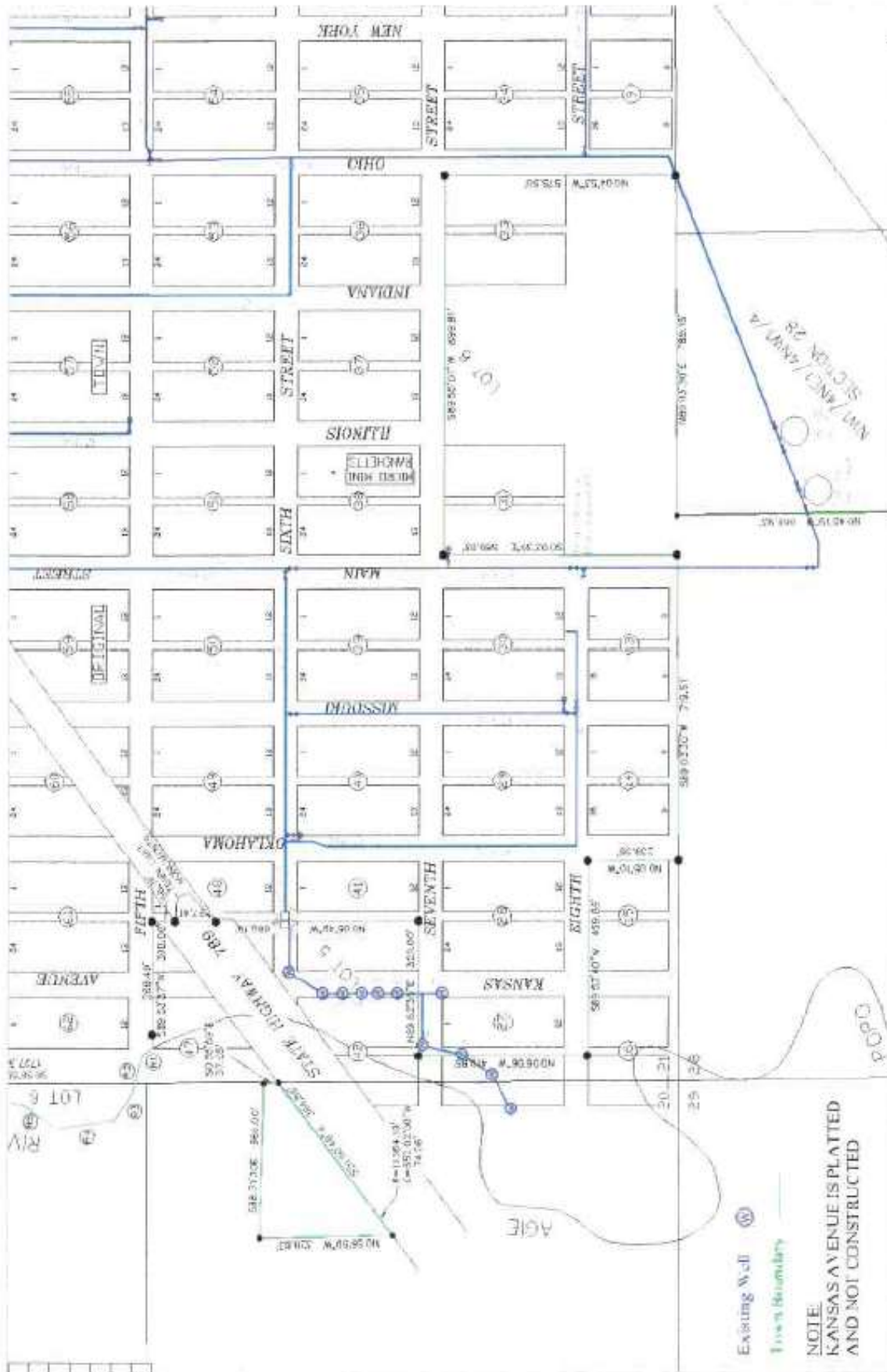
a. Annual Budget for Operation and Maintenance Expenses:	\$	99,350
b. Annual Payments for Debt Retirement:	\$	0
c. Annual Payments to a Repair and Replacement Fund:	\$	20,000
d. Annual Payments to an Emergency Fund:	\$	0
e. Annual Payments for Other Purposes (SLIB Loan):	\$	17,000
f. Total Annual Payments:	\$	136,350

(3) Other

a. Balance in Repair and Replacement Fund:	\$	181,350
b. Balance in Emergency Fund:	\$	0
c. Annual Cost of Water Quality Testing:	\$	3,000

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes

PROJECT AREA MAPS



HUDSON, WYOMING
WELL FIELD AND STORAGE TANK SITES

PAGE 3-6

WWDC HUDSON LEVEL II STUDY



Map Depicting Fire Hydrant Locations

PHOTOS



Storage Tanks for Potable System and Cemetery Landscaping



Cemetery Watering Spigot



Treatment Plant Controls



Alluvial Wellfield and Treatment Plant

WATER RATES

Date	Table Rate #	Description	Base Rate	Base Usage	Formula	Date	Winter Base	Formula
7/1/2022	101	Water-Residential	\$ 55.50	9,000	0.006166		12,000	
	102	Water-Resid/Apart.	\$ 55.50	9,000	0.006166		12,000	
	103	Water-Resid. Flat Rate	\$ 55.50					
	104	Water-Multi-Resid.	\$ 111.00	18,000	0.06166		24,000	
	105	Water-Duplex	\$ 55.50	18,000	0.003083		24,000	
	106	Water-No Bill						
	110	Water-Comm 5/8	\$ 56.75	9,000	0.006305		12,000	
	111	Water-Comm 3/4	\$ 68.70	9,000	0.007633		12,000	
	112	Water-Comm 1"	\$ 80.70	9,000	0.008966		12,000	
	113	Water-Comm 1.5"	\$ 92.70	9,000	0.013242		12,000	
	120	Water-School	\$ 62.50	9,000	0.006944		12,000	
	301	Sewer-Residential	\$ 22.00					
	302	Sewer- Resid Apart.	\$ 79.00					
	310	Sewer-Commercial	\$ 31.50					
	311	Sewer-Comm/Grease Trap	\$ 36.00					
	320	Sewer-School	\$ 33.75					
		\$3.10 per 1,000 gallons over base rate for all rates						
	501	Turn On Fee	\$ 40.00					
	901	Non-Access Meter Fee			Water Tap Fees in town	\$ 500.00		
	1301	NSF Fee	\$ 40.00		Water tap fees out of town	\$ 1,000.00		
	1401	Bank Charge			Sewer Tap Fees in town	\$ 500.00		
	1801	Miscellaneous			Sewer Tap Fees out of town	\$ 1,000.00		
	1901	Late Fee - Water	10%					
	2001	Late Fee - Sewer	10%					

RESOLUTION

**RESOLUTION OF THE
TOWN OF HUDSON TOWN COUNCIL
HUDSON, WYOMING**

RESOLUTION NO. 23-01_

**A RESOLUTION TO REQUEST THAT THE
WYOMING WATER DEVELOPMENT COMMISSION CONDUCT
A LEVEL I RECONNAISSANCE STUDY FOR
THE TOWN OF HUDSON POTABLE WATER SYSTEM.**

WHEREAS, the Town of Hudson Town Council ("Council") term 2023-2025, is the duly elected governing body of the Town of Hudson; and

WHEREAS, the Council recognizes that there are numerous deficiencies with the Town's potable water system that need to be identified, prioritized, and addressed; and

WHEREAS, the Council recognizes that a Level I Reconnaissance Study conducted by the Wyoming Water Development Commission will provide the Town with a list of deficiencies along with prioritized recommendations on how to address their deficiencies; and

NOW, THEREFORE, BE IT RESOLVED, that the Mayor of Hudson, Wyoming by this resolution is directed and authorized to request that the Wyoming Water Development Commission conduct a Level I Reconnaissance Study of the Town of Hudson's Potable Water System.

CERTIFICATION

The undersigned, as Mayor of the Town of Hudson, Wyoming, hereby certifies that the Town of Hudson Town Council consists of four (4) council members and the mayor and that four (4) council members and the mayor were present constituting a quorum, at a duly called meeting of the Town of Hudson Town Council held on February 22, 2023, and that the foregoing resolution was adopted by a vote of five (5) members FOR, zero (0) members AGAINST, Mayor voting, and that the foregoing resolution has not been rescinded or amended in any way.

DONE AT HUDSON, WYOMING, THIS 22 DAY OF FEBRUARY, 2023.

Sherry Oler

Sherry Oler, Mayor
Town of Hudson, Wyoming

ATTEST:

Kathleen Cole Shoopman
Name: Kathy Shoopman
Title: Clerk-Treasurer
Town of Hudson, Wyoming

*State of Wyoming
County of Fremont
Subscribed sworn to and
Acknowledged before me
this 22 day of February
2023 by Sherry Oler.*



*Kathleen Cole Shoopman
Notary Public*

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

WATERSHED STUDIES

Project Name: Salt River Watershed Study

Program: New Development

Project Type: Multipurpose

County: Lincoln

Sponsor: Star Valley Conservation District (District)

WWDO Recommendation: Level I

Proposed Budget: \$344,000

Basis for the Funding Recommendation:

The District will benefit from comprehensive watershed information and the development of rehabilitation plans for the study area drainages and water supply (irrigation and domestic) systems. This information will put the District in a position where they can leverage the Small Water Project Program, other WWDC programs, and partnerships with other entities to address specific issues.

Project Manager: Mabel Jones

Project Description:

The Star Valley Conservation District requests a watershed study to evaluate current watershed function, irrigation diversion/conveyance systems, stream health, vulnerability of water systems to wildfire and upland livestock/wildlife water management and rehabilitation opportunities. Surface water storage including enlargement and/or rehabilitation of existing water storage facilities, current condition of wetlands and riparian areas within the drainage, and geomorphic classification are also of interest. This information would provide baseline information from which the District can pursue implementation of management practices that address the natural resource issues within the drainage.

The Salt River watershed, located primarily in Lincoln County, covers approximately 570,000 acres. The watershed includes approximately 220 miles of the mainstem of the Salt River and its major tributaries. Tributaries from the mountains of Wyoming and Idaho include Jackknife Creek, Tincup Creek, Strawberry Creek, Willow Creek, Stump Creek, Swift Creek, Dry Creek, Cottonwood Creek, Spring Creek, Crow Creek and numerous spring creeks which originate in the valley bottom. Reservoirs include Strawberry Creek Reservoir and Upper and Lower Swift Creek Reservoirs.

PROJECT INFORMATION:

A. EXISTING WATER SUPPLY SYSTEM

What is the extent of the stream system? Approximately 220 miles including the Salt River and its' tributaries

Has DEQ classified this stream or segment as impaired? Stump Creek (full extent in Wyoming) and Salt River (downstream of Tincup Creek) are 303(d) listed streams.

Are there any DEQ Watershed based plans being conducted or in place? Yes; Completed-Salt River Watershed Phase I Implementation 319 Report

Is there a TMDL being prepared or in place? Yes

Is there a NRCS watershed assessment being prepared or in place? No

Are there any instream flow segments in this watershed? Yes; 2.6 miles of the lower Salt River

Any instream flow segments petitioned? No

Is there a soil survey completed for this area? Yes, Digital mapping available.

B. FINANCIAL INFORMATION

If the entity is a conservation district, what is the status of their local revenue funding? The Conservation District is funded by the Lincoln County Commission and through grants.

C. COMPARISON WITH OPERATING CRITERIA

What is the entity status of the sponsor? Conservation District

Project Priority according to the Criteria? Priority 7, Watershed Studies

If the entity is a conservation district, what is the status of a legal entity developing within the district? Several Irrigation Companies (Canal and Sprinkler) are actively considering forming as Irrigation Districts or another public entity. In addition, several rural domestic water districts exist in the watershed.

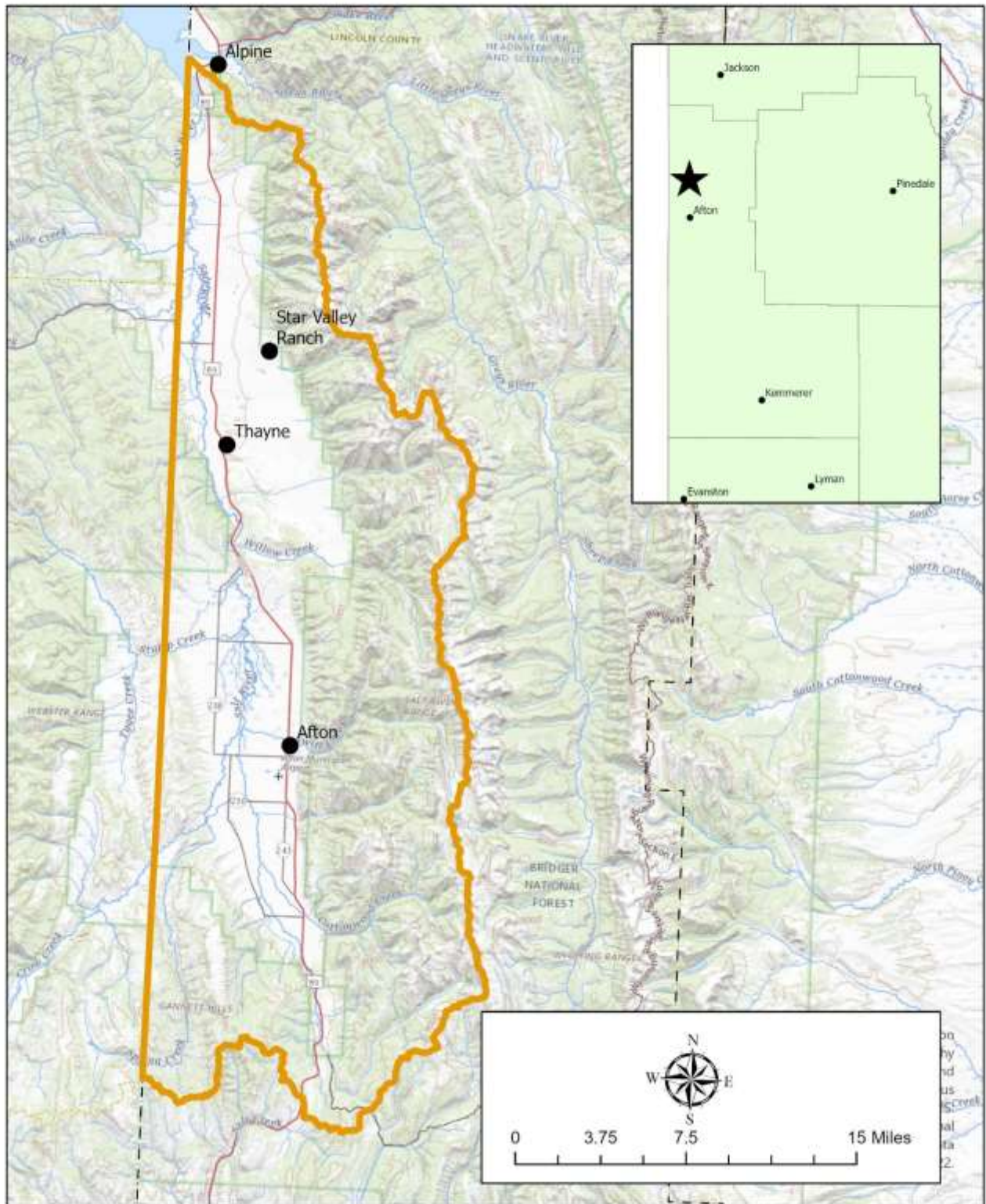
How many acres are irrigated? 65,000 acres

How many individual landowners in the watershed? Unknown

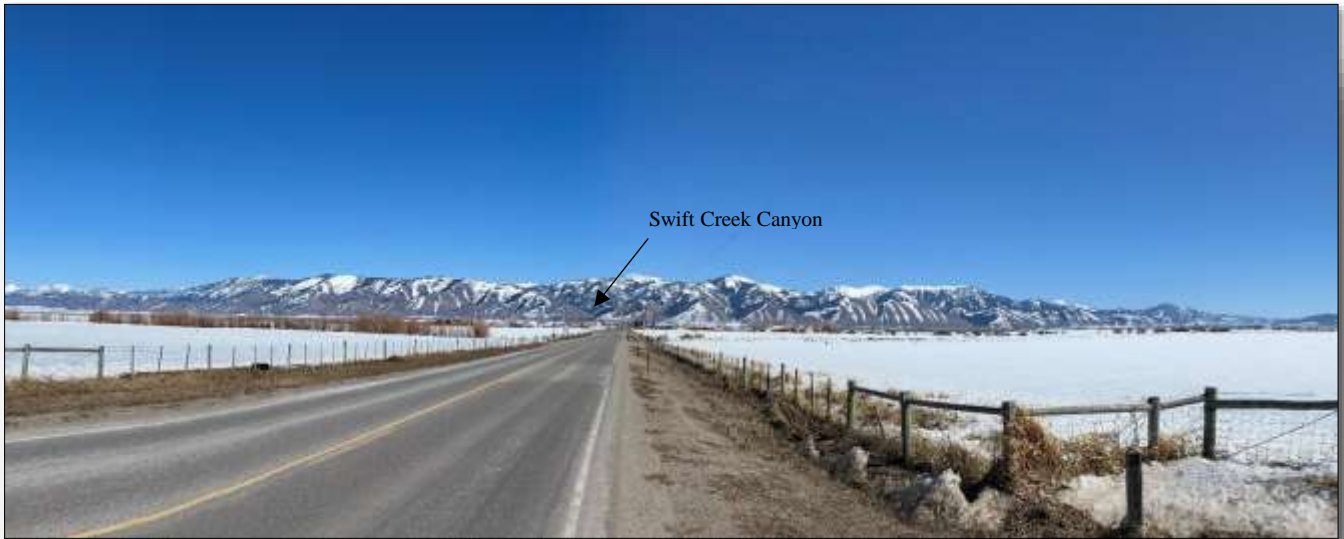
Will the project consider regional solutions? Yes

Can the project be postponed or staged? Yes. However, given the current momentum and support from groups including the Salt River Watershed Group, Greys River Forest Collaborative. Lincoln County Planning Office, Lincoln County Commissioners along with development pressure in the watershed postponing the project is not recommended.

Salt River Watershed LI Study Boundary



SALT RIVER WATERSHED STUDY PROJECT AREA



Salt River Range. Swift Creek Canyon is at the center of the image. Swift Creek is a tributary to the Salt River and serves as a water source for both Municipal and Agricultural uses.



Caribou Range. The north-south trending watershed is bound on the west by the Caribou Range in Idaho and on the east by the Salt River Range.



Salt River Watershed. Photo taken east of Bedford (Courtesy of Strawberry Canal Company).



Salt River Watershed. Photo taken near Bedford looking to the northwest (Courtesy of Strawberry Canal Company).

RESOLUTION/MEETING MINUTES

Minutes of Board January 23, 2023
7:00 pm
Star Valley Conservation District Office
61 E. 5th Ave, Afton, WY 83110

RECEIVED
FEB 13 2023
WY WATER DEVELOPMENT OFFICE

Regular Meeting

Rollin Gardner called the meeting to order at 7:05p.m. In attendance were Rollin Gardner, Harv Erickson, Jeff Johnson, Shane Crook, Cole Helm via Zoom, Kay Lynn Nield, and Patricia Smith.

Minutes: Harv motioned to approve the minutes from the last meeting. Jeff Johnson seconded; motion was passed unanimously.

Financials: Bank statements and credit card statements were reviewed. Motion to approve the financials made by Shane Crook, seconded by Jeff Johnson; motion passed unanimously.

Agency Updates: NRCS- Adam Clark gave an update on irrigation, fencing projects, updated the Board on the new IRA funds coming available for climate smart projects.

Lower Valley Irrigation Issues: Jake Long and Darcel Hulse gave information regarding the issues the water right holders along the Highway 89 project are facing in regards to the State of Wyoming DOT not following the laws regarding the irrigation districts. The two men do not think that they will ever be reimbursed for the monies they have already spent, and are worried about losing their water and also worried that the irrigators along the future highway 89 corridor will be facing the same issues. The two men informed the Board that they were meeting with representatives from WYDOT, and state elected officials, including Senator Dan Dockstader, next week to see what can be done regarding the issues. The Board discussed possibly using the Coalition of Local Governments for legal representation for this matter. It was decided to see the results of the meeting before going to legal counsel. The Board asked the men to come back and report on the results of the meeting.

Salt River Watershed Group update: Tanner Belknap from Trout Unlimited updated the Board on the completed Swift Creek repair project. Tanner then gave a presentation on future projects along the Salt River that he has applied for grants to begin. Tanner let the Board know that there is a Ponds/Planning meeting on February 22, 2023 with the Lincoln County Planning and Zoning office to see what can be done to mitigate pond building in the future planning. Tanner also informed the Board that there is a Snake/Salt multiagency meeting at the Teton County Library on February 23, 2023 and Kay Lynn asked if any of the supervisors on the Board would be willing to attend.

Bridger Teton National Forest: Kay Lynn informed the Board that we would be receiving reimbursement for the RHAP Blind Trail-Stewart, and the RHAP Bling Bull-Grizzly Basin. She also informed the Board that she would be able to soon receive payment for the ESD. Kay Lynn informed the Board that she had spoken with Commissioner Connelly and Commissioner Bowers regarding additional money for 2023/2024. Commissioner Connelly told her that the Lincoln County has \$23 million in reserves and to ask for it. The county commissioner meeting will be held February 8, 2023.

No Till Drill: Kay Lynn gave a report on the funds we have collected for a new No Till Drill. Jeff Johnson suggested that we ask the Lincoln County Commissioners for additional funding for this.

Greys River Forest Collaborative:

1. Kay Lynn informed the Board that the at the Lincoln County Commissioners meeting on February 8, 2023, the commissioners will be discussing whether to fund this project and if they choose to do so they will be focusing funds on Grover Park and timber sales with an emphasis on municipal watersheds.
2. Good Neighbor Authority/County Forester
3. Scott Dayton: would like a grazing fence to be allowed up Grover Park. Harve reminded the Board that Mr. Dayton would be better served to take his request to the Collaborative because they oversee this. The Board decided to send a letter to Mr. Dayton regarding the upcoming Grover Park planning and informing him that this would be the best place for him to accomplish what he feels he needs.

Water Quality Grant: Final report has been submitted and we should be reimbursed in a couple of weeks.

Level 1 Watershed Study-Greys River/Hoback River- Kay Lynn informed the Board that this was completed.

Level 1 Watershed Study- Salt River- Kay Lynn informed the Board of the intention of doing a Level 1 Watershed Study on the Salt River. She informed the Board that we would be asking the Lincoln County Commissioners for additional funding as well as needing a letter of support, and an approval for the study. There is an \$1000 application fee.

Jeff Johnson brought a motion to approve the \$1000 application fee and to proceed with the Level 1 Watershed Study on the Salt River. Harve Erickson approved the motion. The motion carried unanimously.

New Business:

1. **Updating Irrigation users-** Kay Lynn informed the Board that we are trying to update our outdated list of irrigation companies, water master, etc....
2. **RHAP is Due March 15, 2023-**
Kay Lynn informed the Board that she would like to have the RHAP either on the Selman or Kunzler leases because we have no baselines for sheep allotments.
3. **Water Quality is due March 8, 2023.** Kay Lynn will coordinate with SRWG to get this done on time.
4. **Producer Meeting with Lincoln County Weed and Pest-** Kay Lynn informed the Board that this annual meeting would be held on March 22, 2023 at the Afton Civic Center and is still in the planning phase.
5. **Small acreage workshop with LC Weed and Pest and the Extension will be held April 22, 2023 at the civic center.**

5. **Small acreage workshop with LC Weed and Pest and the Extension will be held April 22, 2023 at the civic center.**
6. **County Commission Meeting Feb 8, 2023, where they will discuss the Collaborative, the Level 1 money and the ESD money.**
7. **Amended Budget will be brought forward at the February Board meeting.**
8. **MOU with BLM-** Kay Lynn informed the Board that she would like to send a MOU allowing cooperation and input with the BLM regarding Sage Grouse and Grazing Regulation Revisions.
Jeff Johnson brought forth motion to approve the MOU with the BLM, Harve Erickson seconded the motion. Motion passed unanimously.

Shane Crook moved to adjourn the meeting at 9:45, Harv Erickson seconded the motion. Motion passed unanimously.

X

Rollin Gardner
Chairman

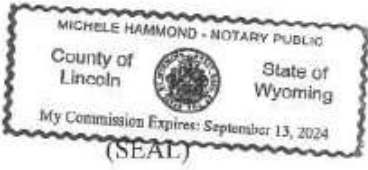
Date

Rollin Gardner / 2/2/2023

State of Wyoming

County of Lincoln

This instrument entitled Minutes of the Board, January 23, 2023, was acknowledged before me on February 2, 2023 (date) by Rollin Gardner as Chairman of the Board of Supervisors of the Star Valley Conservation District.



X Michele Hammond
Signature of Notarial Officer

Bank New Accounts
Title

My Commission Expires on 9-13-2024

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

MUNICIPAL/JOINT POWERS WATER BOARD WATER SYSTEMS

Project Name: Shoshone Municipal Pipeline Regional Water Master Plan **Program:** New Development

Project Type: Joint Powers Water Board Water System

County: Park

Sponsor: Shoshone Municipal Water JPB

WWDO Recommendation: Level I

Proposed Budget: \$216,000

Basis for the Funding Recommendation:

In 1983, original planning for the Shoshone Municipal Pipeline (SMP) was completed. The Joint Powers Board and executive staff believes it would be in the best interests of the water users, member entities, Joint Powers Board and future managers to update the planning documents and have an updated plan for the future.

Project Manager: Chace Tavelli

I. PROJECT DESCRIPTION

This project will be a Level I Master Plan investigating the entire SMP system. A typical Master Plan includes growth and demand projections; inventory and evaluation of the system; GIS and hydraulic modeling; and recommendations and cost estimates for needed improvements. This Level I Study will assist SMP with the preparation of a plan that will be their road map for the future. SMP started to deliver water in October 1991 and continues to deliver water to the seven-member entities (Cody, Powell, Byron, Lovell, Deaver, Frannie, Northwest Rural Water District). At this time the system is running at 31% average day (61% peak day) capacity.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Shoshone Municipal Pipeline 2009	III	38	2009	I	\$ 2,428,800*	2014
Shoshone Transmission Pipeline 2016	III	55	2016	I	\$ 2,227,500*	2021

* 33% grant

2. Describe the location of the project:

The Shoshone Municipal Pipeline serves communities and users in Park, and Big Horn counties.

3. Summarize the request:

The request is for a Level I, master plan. This regional study will evaluate the current condition of their water system, structures, and provide tools and guidance needed to assist in the planning, rehabilitating, upgrading, managing of the system, water storage and planning for future growth.

4. Summarize the reasons for the request:

Since the initial planning and feasibility report in 1983, and subsequent Level II and III reports in 1986, no other planning reports have been prepared to assist the Joint Powers Board or staff in operational and future planning efforts. The updated plan would serve as a framework to establish project priorities and to perform financial planning

necessary to meet those priorities. It would also provide reconnaissance-level information regarding costs and scheduling.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes

A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?

N/A

2. Project Priority According to WWDO Criteria: Acct I - Priority 8: LI Reconnaissance Studies

3. Will the project serve at least 15 water taps? Yes

A. Number of Taps: 12,002

4. Is the sponsor eligible for funding from other state or federal programs? Yes

A. If so, what are they (RUS, SRF, other)? RUS, SRF, WaterSmart

5. Is the Sponsor under any federal (EPA) mandates to improve its system? (e.g., Administrative Orders, violations, actions taken, etc.)? No

6. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system?

The Shoshone Municipal Pipeline is a regional system, serving the municipalities of Cody, Powell, Byron, Lovell, Deaver, Frannie, and the Northwest Rural Water District.

7. What is monthly water bill for 5,000 gallons? \$17.70 – wholesale value (see attached rates)

A. 20,000 Gallons? \$37.80 – wholesale value (see attached rates)

8. Can the project be delayed or staged? Yes

A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. EPA Public Water System (PWS) Identification Number: WY5601198

B. Groundwater

(1) Number of Wells: 0

(2) Primary Supply Aquifer(s) or Formation(s): N/A

(3) Total Average Production Yield of All Wells (GPM): N/A

C. Surface Water

(1) Source Name(s): Buffalo Bill Reservoir (main source); Shoshone River (emergency)

(2) Type of Diversion(s) (Headgate, Infiltration Gallery, Pumps, Etc.): Direct connection to the reservoir. Pump station in the Shoshone River for emergency use.

(3) Total Average Diversion Yield (CFS of GPM): 2,650gmp

D. Springs

(1) Name of Spring(s): N/A

(2) Total Average Production Yield of All Springs (CFS or GPM): N/A

E. Water Rights

(1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

F. Transmission Pipeline

- (1) Maximum Capacity of the Transmission Pipeline(s) (Gallons per Day): 22 MGD
- (2) Increased Capacity Needed (If Known) (Gallons per Day): N/A
- (3) Approximate Distance from Source(s) to Distribution System: 4 miles
- (4) Transmission Pipe Diameter(s): 36" to 8"
- (5) Type of Transmission Pipe Material(s): Steel and PVC
- (6) Age of Transmission Pipeline(s): 35 years
- (7) Condition of Transmission Pipeline(s): Excellent
- (8) Does the applicant possess clear title to transmission corridor easements? Yes

G. Water Storage

- (1) Raw (Volume and Tank Description): N/A
- (2) Treated (Volume and Tank Description): 6,000,000 gallons of total storage in 4 locations

H. Treatment

- (1) Specify Water Treatment (None, Chlorination, Filtration, Etc.): Conventional treatment – coagulation, sedimentation, filtration, and disinfection

2. Existing Water Distribution System

- A. Is the water use metered? Yes
- B. Are billings based on meter readings? Yes
- C. Identify unmetered usage (e.g., irrigation of parks, cemeteries, fire protection, etc.): None
- D. Average Day Demand Water Usage (Gallons per Capita per Day): 125
- E. Maximum Day Demand Water Usage (Gallons per Capita per Day): 259
- F. Peak Hourly Demand Water Usage (Gallons per Capita per Day): 326
- G. Distribution Pipe Diameter(s): N/A – The Shoshone Municipal Pipelines has no distribution lines
- H. Type of Distribution Pipe Material(s): N/A
- I. Age of Distribution Pipeline(s): N/A
- J. Condition of Distribution Pipeline(s): N/A
- K. Estimated System Water Losses (Percentage): 2.75%
- L. Describe any fire flow protection that the system provides:
The current treated water storage provides or supplements fire flows for the participating municipalities except for Northwest Rural Water District (NRWD). NRWD doesn't provide fire flows.
- M. What water conservation measures are employed?
None – Shoshone Municipal Pipeline is a wholesale water provider to a regional system.
- N. Is there an independent raw water irrigation system? No
 - (1) Raw Water System Capacity (Gallons per Day): N/A
 - (2) Average Annual Raw Water Usage (Gallons per Year): N/A

3. Demographic Information and Existing Water Service Area

- A. Population (2020 Census): 23,822
- B. Current Population Estimate: 26,250 (EPA estimate)
- C. Does the applicant have a comprehensive planning boundary? No
 - (1) If so, what is the estimated additional population that may be served in the future? N/A
- D. How many taps are served within the corporate limits/JPB service area? 12,2002
- E. How many taps are served outside of the corporate limits/JPB service area? None

F. Identify names of other water system served:

Cody, Powell, Byron, Lovell, Deaver, Frannie, and Northwest Rural Water District

G. Identify any existing planning reports (municipal or county) that address growth management in the project area. Provide titles and how copies of the reports could be obtained:

Park County Land Use Plan, September 1988, available on the Park County website; City of Cody Water Master Plan, available on the WWDC website; City of Powell Water Master Plan, available on the WWDC website; Northwest Rural Water District Master Plan, available on the WWDC website.

4. Financial Information

A. Rates

(1) Tap Fee(s) – Residential: \$11 per tap equivalent charged to member entity

(2) Tap Fee(s) – Commercial: \$11 per tap equivalent charged to member entity

(3) Average Residential Monthly Water Bill and Corresponding Gallons Used:

\$11.00 per tap, and \$1.34 per 1,000 gallons. This is the wholesale water rate SMP charges to the entities that purchase water from the system. Each system has their own established rates. See attached.

(4) Water Rates (Provide rates for all tiers and categories of use. Attach additional pages as needed.):

See attached

(5) Identify any local conditions that affect water rates (e.g., flow-through for frost prevention, etc.): N/A

B. Financial Statement (of Water Utility)

(1) Revenues

a. Annual Revenues Generated from Water Sales:	\$ 1,575,000
b. Annual Revenues from Tap Fees:	\$ 0
c. Annual Revenues from Other Sources:	\$ 0
d. Total Annual Revenues:	\$ 1,575,000

(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$ 2,050,000
b. Annual Payments for Debt Retirement:	\$ 1,227,000
c. Annual Payments to a Repair and Replacement Fund:	\$ 0
d. Annual Payments to an Emergency Fund:	\$ 100,000
e. Annual Payments for Other Purposes:	\$ 0
f. Total Annual Payments:	\$ 3,377,000

(3) Other

a. Balance in Repair and Replacement Fund:	\$ 4,478,721
b. Balance in Emergency Fund:	\$ 682,621
c. Annual Cost of Water Quality Testing:	\$ 20,000

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes

WATER RATES

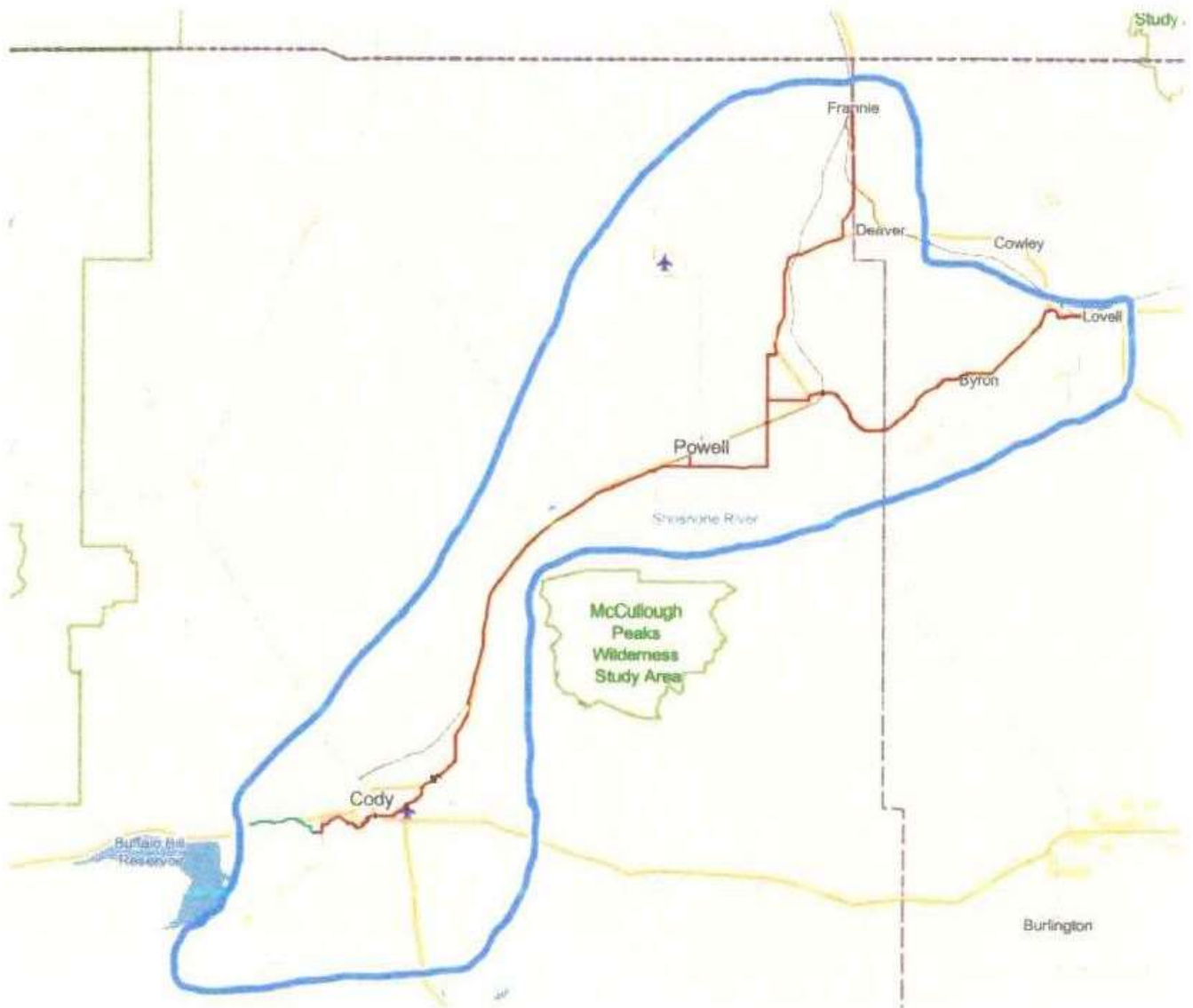
Exhibit III.4.A.(4) - Water Rates

Water Rates for FY-2023

	SMP (wholesale)	Cody	Powell	Byron	Lovell	Deaver	Frannie	NRWD
Monthly Water Rate (3/4")		14.05	34.44	9.95	18.32	45.78	54.50	43.50
Tap equivalent fee	11.00	11.00		11.00	11.00			11.00
Total customer charge	11.00	25.05	34.44	20.95	29.32	45.78	54.50	54.50
Charge per 1,000 gallons over 10,000 gallons over 20,000 gallons	1.34	2.81	2.97	1.50	5.25	3.50	2.80 (Apr-Sep: 2.40)	2.50 3.50 4.50
Typical charge for x gallons								
4,000	16.36	36.29	46.32	26.95	50.32	59.78	65.70	64.50
8,000	21.72	47.53	58.20	32.95	71.32	73.78	76.90	74.50
12,000	27.08	58.77	70.08	36.95	92.32	87.78	88.10	84.50

Shoshone Municipal Pipeline Service Area

All 10 Northwest Rural Water District Service Areas are located within Shoshone Municipal Pipeline's Service Area



PHOTOS



Booster Pump Station



Pressure Control #1



SMP Water Treatment Plant

RESOLUTION

SHOSHONE MUNICIPAL WATER JOINT POWERS BOARD RESOLUTION

No. 2023-01

BE IT RESOLVED, by the Board of the Shoshone Municipal Water Joint Powers Board, d/b/a Shoshone Municipal Pipeline (hereinafter SMP), that the Board supports and authorizes the Board Chairman to execute any and all documents necessary to make application to the Wyoming Water Development Commission for Level I Master Plan Study funded by the Wyoming Water Development Commission. The Chairman is expressly authorized to approve and execute all documents associated with this application.

WHERE AS, the governing body for the SMP owns and operates a regional water system that serves the cities of Cody and Powell, the towns of Byron, Lovell, Deaver, and Frannie, and the Northwest Rural Water District; and

WHERE AS, over the past 32 years since the inception of the SMP regional water system many changes have occurred, federal drinking water standards have become more stringent, and many components of the water system have exceeded their useful lives; and

WHERE AS, the SMP desires to have the Wyoming Water Development Commission fund a Level I Master Plan Study in order to determine the best, most cost-effective way to continue providing its customers with safe, reliable drinking water at a reasonable price.

This Resolution was expressly approved and authorized at the meeting of the Board held on the 13 day of February, 2023, at which meeting a quorum was present and the resolution was approved by a majority of those in attendance.

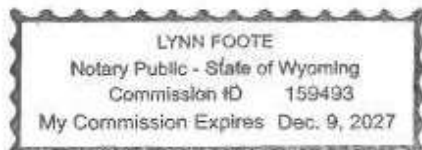
DATED: February 13, 2023

Jim Mentock
Board Chairman

STATE OF WYOMING)
) ss.
COUNTY OF PARK)

The foregoing Resolution was acknowledged before me on February 13, 2023 by Jim Mentock, being Chairman of the Board of Shoshone Municipal Water Joint Powers Board.

WITNESS my hand and official seal.



(SEAL)

Lynn Foote
Notary Public

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

MUNICIPAL/JOINT POWERS WATER BOARD WATER SYSTEMS

Project Name: Sinclair Water Master Plan

Program: New Development

Project Type: Municipal Water System

County: Carbon

Sponsor: Town of Sinclair

WWDO Recommendation: Level I

Proposed Budget: \$147,000

Basis for the Funding Recommendation:

The Town of Sinclair is requesting 2024 WWDC funding for a water master plan, Level I reconnaissance study. The study would evaluate the current condition of their water system and provide the tools and guidance needed to assist in the planning, rehabilitating, upgrading, and managing of their system.

During the May 2023 WWDC/SWC Joint meeting, the Commission voted to add the Sinclair Water Master Plan as a supplement to the Rawlins Water Master Plan. The Rawlins Water Master Plan is a current Level I Study, authorized by Chapter 186 of the 2023 Wyoming Session Laws with an appropriation of \$250,000. Working with the consultant currently under contract for the Rawlins Water Master Plan, a budget was established for conducting this supplemental work as part of the original project.

Project Manager: George Moser

I. PROJECT DESCRIPTION

The Town of Sinclair is requesting a 2024 Level I water master plan to update previous WWDC studies, to identify the components of their existing system, to evaluate the system, to provide a schedule for improvements, and to conduct the planning necessary to identify consistent and reliable water supplies into the future.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Sinclair Master Plan	I	10	1994	I	\$ 250,000	1997
Sinclair Water Supply	II	81	1999	I	\$ 50,000	2002
Sinclair Water Supply	III	88	2002	I	\$ 672,500	2007

2. Describe the location of the project:

The Town of Sinclair is located in Carbon County and lies within the North Platte River Basin. The town has a population of approximately 400 people and they are served through 231 taps. The town is supplied with North Platte River surface water (up to 11.41 cfs), pipelined to Rawlins, treated by the City of Rawlins, and returned through 12-inch PVC transmission line to the town. The Town of Sinclair has an existing SCADA system that provides the water level at the their 500,000-gallon water storage tank. The town does not have the ability to operate any controls with the SCADA system nor do they have either a hydraulic model or a GIS of the water system. The town has a paper map inventory system that is used by the public works department, which is based off the 'as-built' information for completed projects.

The Town of Sinclair and the City of Rawlins entered into a municipal water supply joint powers agreement in October 2002 for a term of 50 years. The current arrangement is that each municipality operates their own water system, however, the City of Rawlins is responsible for supplying all water to the point of delivery for the distribution system at the Town of Sinclair's water storage tank. The Town of Sinclair is then responsible for getting the water

from the storage tank into the Town of Sinclair’s water distribution system. In exchange for the Town of Sinclair receiving treated water from the City of Rawlins, the City of Rawlins diverts Town of Sinclair-owned water rights for use to be supplied to the Town of Sinclair and to be also used by the City of Rawlins.

3. Summarize the request:

A Level I water master plan is requested by the Town of Sinclair to evaluate the current condition of their water system and to provide the tools and guidance necessary to assist in the planning, rehabilitation, upgrading, and managing of their system. The plan would serve as a framework to establish project priorities and to perform the financial planning necessary to meet those priorities. The plan would also provide reconnaissance-level information regarding costs and scheduling. The last WWDC Level I and Level II studies were completed in 1996 and 2001, respectively.

4. Summarize the reasons for the request:

Issues surrounding the City of Rawlins’ water system infrastructure have led to concerns by the Town of Sinclair as to the stability of their water supplies prompting the town to pursue a Level I study. The study will evaluate the current agreement with the City of Rawlins and identify long-term options and determine the best solution for when the agreement is no longer in effect. The agreement between the two municipalities is for fifty years, twenty years have passed since it went into effect and the Town of Sinclair wants to be prepared for what comes next. The Town of Sinclair would like to explore all available options to provide a more consistent and reliable water system for their residents.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes

A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project? N/A

2. Project Priority According to WWDO Criteria: Acct I - Priority 8: LI Reconnaissance Studies
(Use Attachment III of the operating criteria.)

3. Will the project serve at least 15 water taps? Yes

A. Number of Taps: 231 taps

4. Is the sponsor eligible for funding from other state or federal programs? Yes

A. If so, what are they (RUS, SRF, other)? RUS, SRF, etc.

5. Is the Sponsor under any federal (EPA) mandates to improve its system? (e.g., Administrative Orders, violations, actions taken, etc.)? No

6. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system?

Yes, the Town of Sinclair is supplied with treated water from the City of Rawlins. There is a 50-year agreement between the two entities with 30 years left of operating under this agreement. The likely scenario will be to continue with this agreement.

7. What is monthly water bill for 5,000 gallons? \$17.50

A. 20,000 Gallons? \$49.00

8. Can the project be delayed or staged? Yes

A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. EPA Public Water System (PWS) Identification Number: WY5600054

B. Groundwater

(1) Number of Wells: N/A

(2) Primary Supply Aquifer(s) or Formation(s): N/A

(3) Total Average Production Yield of All Wells (GPM): N/A

C. Surface Water

(1) Source Name(s): North Platte River

(2) Type of Diversion(s) (Headgate, Infiltration Gallery, Pumps, Etc.): Headgate

(3) Total Average Diversion Yield (CFS or GPM): 47.25 gpm

D. Springs

(1) Name of Spring(s): N/A

(2) Total Average Production Yield of All Springs (CFS or GPM): N/A

E. Water Rights

(1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights?

Yes, the Town of Sinclair has eight water rights with a combined amount of 11.41 cfs ranging from territorial priorities to a priority of 4/9/1926.

F. Transmission Pipeline

(1) Maximum Capacity of the Transmission Pipeline(s) (Gallons per Day): Unknown

(2) Increased Capacity Needed (If Known) (Gallons per Day): Unknown

(3) Approximate Distance from Source(s) to Distribution System: Unknown

(4) Transmission Pipe Diameter(s): 12-inch

(5) Type of Transmission Pipe Material(s): PVC

(6) Age of Transmission Pipeline(s): 20 years old

(7) Condition of Transmission Pipeline(s): Good

(8) Does the applicant possess clear title to transmission corridor easements? Yes

G. Water Storage

(1) Raw (Volume and Tank Description): N/A

(2) Treated (Volume and Tank Description): 500,000-gallon water storage tank

H. Treatment

(1) Specify Water Treatment (None, Chlorination, Filtration, Etc.): Treated by the City of Rawlins

2. Existing Water Distribution System

A. Is the water use metered? Yes

B. Are billings based on meter readings? Yes

C. Identify unmetered usage (e.g., irrigation of parks, cemeteries, fire protection, etc.):

None other than fire protection.

D. Average Day Demand Water Usage (Gallons per Capita per Day): 170 gpcpd

E. Maximum Day Demand Water Usage (Gallons per Capita per Day): 340 gpcpd

F. Peak Hourly Demand Water Usage (Gallons per Capita per Day): 590 gpcpd (estimated to be 175% of max. daily demand)

d. Annual Payments to an Emergency Fund:	\$	0
e. Annual Payments for Other Purposes:	\$	0
f. Total Annual Payments:	\$	419,658

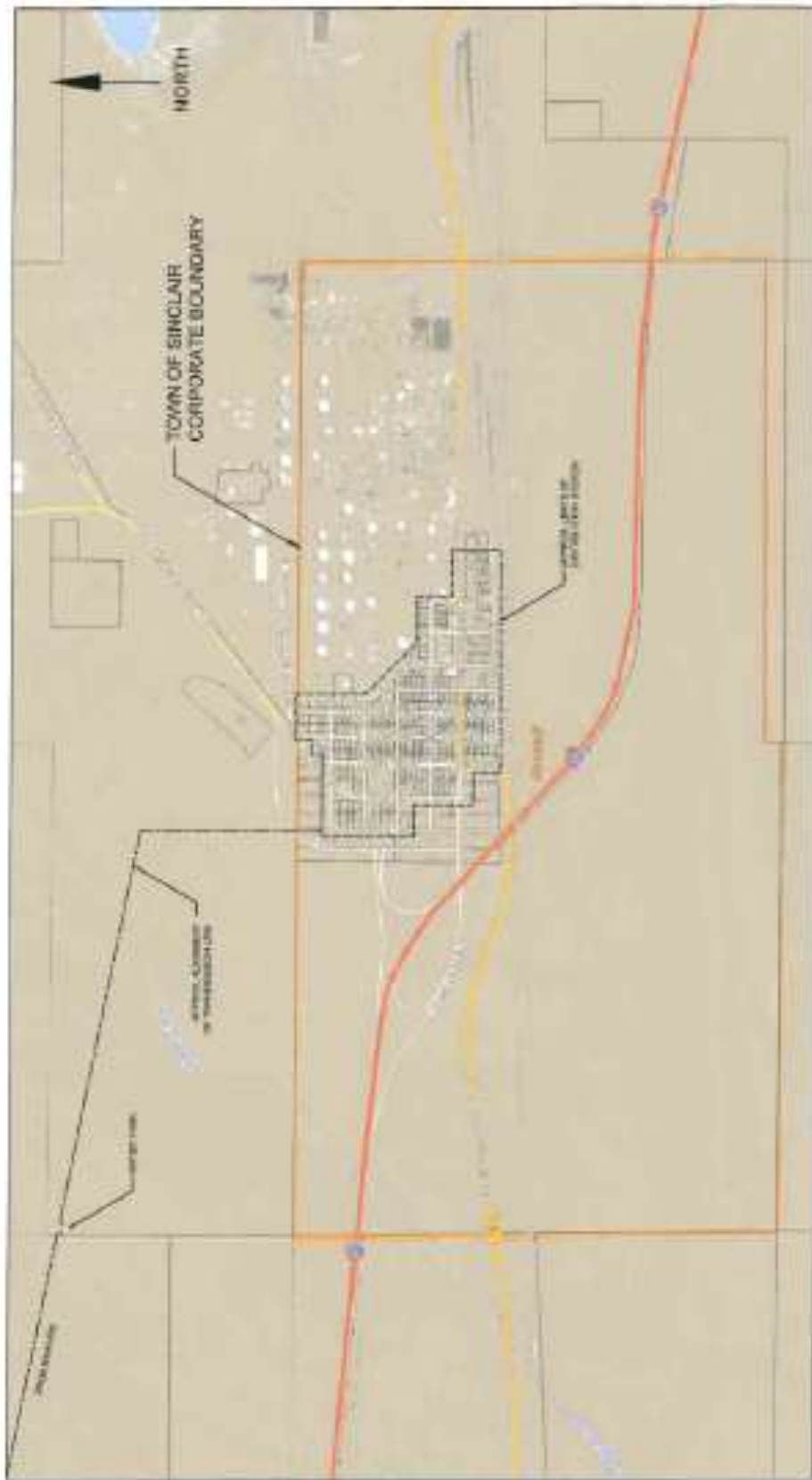
(3) Other

a. Balance in Repair and Replacement Fund:	\$	3,873,436
b. Balance in Emergency Fund:	\$	0
c. Annual Cost of Water Quality Testing:	\$	4,000

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes

PROJECT AREA MAP

Town of Sinclair
Level I Master Plan
Project Area Map



PHOTOS



Sinclair Town Hall



RESOLUTION

RESOLUTION OF SUPPORT
RESOLUTION NO. 2023-01

A RESOLUTION AUTHORIZING SUPPORT FOR THE TOWN OF SINCLAIR'S
APPLICATION TO THE WYOMING WATER DEVELOPMENT PROGRAM

WITNESSETH

WHEREAS, the Governing Body of the Town of Sinclair has considered the benefits the State of Wyoming Water Development Program provides and supports the Town of Sinclair's application to the Water Development Program; and

WHEREAS, the Town's water supply and water supply system are of utmost importance to the health and safety of the residents of the Town of Sinclair; and

WHEREAS, the Wyoming Water Development Program's approval of the Town of Sinclair's application for Level I reconnaissance study would enable the Town of Sinclair to improve its water supply system; and

NOW, THEREFORE, BE IT RESOLVED by the Governing Body of the Town of Sinclair, Wyoming, that the Town of Sinclair endorses the Town of Sinclair's application to the Wyoming Water Development Program.

SO RESOLVED this 2nd day of February, 2023.

TOWN OF SINCLAIR

By: 

Mayor, Town of Sinclair

ATTEST:



CERTIFICATION

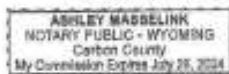
I, ASHLEY MASSELINK, the Town Clerk for the Town of Sinclair, Wyoming, do hereby certify that the above resolution was duly and properly adopted by the Governing Body in the manner required by law.


TOWN CLERK

STATE OF WYOMING)
) ss
COUNTY OF CARBON)

The above and foregoing instrument was sworn to and acknowledged before me by
Cullen Meek, this 2 day of February, 2023.

Witness my hand and official seal.




Notary Public
July 26, 2024

My commission expires:

GENERAL/
OTHER

2024 RECOMMENDATION-PLANNING PROJECTS

Project Name: UW Office of Water Programs

Program: New Development

Project Type: Multipurpose Project

County: Statewide

Sponsor: WWDC/University of Wyoming (UW)

WWDO Recommendation: Level I

Proposed Budget: \$175,000*

*The proposed budget will serve to fund the Office for the upcoming biennium (July 1, 2024 to June 30, 2026)

Project Manager: Mabel Jones

Project Description: The University of Wyoming Office of Water Programs (Office) was established under Wyoming Statute 41-2-125 by the 2002 Wyoming State Legislature. The Office is managed under the direction of Greg Kerr (located within the UW Office of Research and Economic Development) who also administers the State of Wyoming/USGS Cooperative Water Research Program (WRP). (See separate water research program recommendation for further details).

The Office works directly with the Wyoming Water Development Commission, Legislative Select Water Committee, and the Wyoming Water Development Office to: identify research needs of state and federal agencies regarding Wyoming's water resources; administer funding under the National Institutes of Water Resources (NIWR); serve as a point of coordination for these efforts; and encourage research activities by University of Wyoming faculty to address important state water-related research needs. The Office of Water Program's Director reports annually, prior to each legislative session, to the Legislative Select Water Committee and the Wyoming Water Development Commission on the activities of the Office.

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

WATER RESEARCH PROGRAM PROJECTS

Project Name: UW Water Research Program

Program: New Development

Project Type: Multipurpose

County: Statewide

Sponsor: WWDC / USGS / UW

WWDO Recommendation: Level I

Proposed WWDC Budget: TBD

Project Manager: Mabel Jones

Project Description: Statewide Water Research

The UW Water Research Program (WRP) is a cooperative State-Federal-University water-related research and training program. The primary goals of the WRP are to support and coordinate research relative to important water resource problems of the State and region, support the training of scientists in relevant water resource fields, and promote the dissemination and application of the results of this water-related research. The University of Wyoming's Office of Water Programs (OWP) annually solicits Wyoming stakeholders to identify areas of needed water research to be conducted by the University. The WRP supports faculty and students through competitive peer reviewed proposals addressing these water related issues upon a favorable recommendation by a WRP Advisory Committee and subsequent approval by both the Wyoming Water Development Commission (WWDC) and Legislative Select Water Committee (SWC). Projects are selected annually for funding, with WWDC funds being matched by the University of Wyoming.

Project proposals are evaluated first by the WRP Advisory Committee for scientific merit and applicability to the needs of the State to include a priority ranking of viable projects. This ranking is then presented to both the WWDC and SWC for their consideration and formal action at their respective January meetings. Final approval as to which projects are included in the WRP block funding request as part of the Omnibus Water Bill – Planning (Planning Bill), rests with the WWDC and SWC. The current WRP project selection process ties the pending WRP funding request in the Planning Bill to a specific set of projects that have been thoroughly reviewed by not only the WRP Advisory Committee (scientific review), but also by the WWDC and SWC. Specific completed and pending tasks and timelines under the FY24 project proposal selection and approval procedure follow:

WRP Proposal Solicitation and Receipt

- April 4, 2023 – Solicitation of research topics and drafting of RFP (OWP & WRP Advisory)
- May 11, 2023 – RFP approved (WWDC & SWC)
- Sept 1, 2023 – Distribution of RFP (OWP)
- Oct 4, 2023 – WRP research proposal deadline (OWP)

WRP Proposal Review and Project Selection

- Oct-Nov 2023 – Research proposals peer reviewed (OWP facilitates)
- Nov 20, 2023 – Research proposals reviewed and ranked (WRP Advisory Committee)
- Jan 10-11, 2024 – Rankings reviewed and projects approved (WWDC & SWC)
(Selected projects to be listed in the Blue Book for the legislative session)

WWDC/SWC WRP Funding Approval

- Jan 10-11, 2024 – Omnibus Water Bill - Planning legislation drafted (WWDC & SWC)
- Feb-Mar 2024 – Planning Bill acted on by Wyoming State Legislature
- Mar 2024 – WRP MOU approved (WWDC & SWC)
- Mar 2024 – New WRP projects begin (OWP coordinates activities)

One major difficulty typically encountered is the identification of the sources of excessive nutrients (such as nitrogen and phosphorus) that trigger water quality issues. Our group of faculty, research scientists, and lab technicians at the University of Wyoming will collaborate with the WDEQ to strengthen their ongoing investigation at Brooks Lake, a high-elevation lake near Togwotee Pass in Fremont County. Brooks lake regularly experiences poor water quality that negatively affects fish stocks. We will investigate sources and transformation processes of nitrate, a major component of the N cycle, that may be responsible for excessive phytoplankton growth given that production in Brooks Lake is likely limited by nitrogen availability. We will employ state of the art stable isotopes analyses of nitrate to identify sources (e.g., atmospheric N deposition, animal and human waste, nitrification from soils), and use the data to calibrate models that will allow us to determine the relative contribution of those sources. Quantifying how each of these sources contribute to the nitrate pool in Brooks Lake will support the WDEQ to target efficient management solutions. This project will serve as a proof-of-concept for the WDEQ in their consideration of how to employ stable isotope analyses of nitrate in broader monitoring efforts of surface waters.

WRP FY24 - Proposal C

Title: Development and Evaluation of an Advanced Septic System for Reduction of Nutrient Loading to Surface Waters and thus Harmful Cyanobacteria Blooms (HCB)

PI: Maohang Fan and Hertanto Adidharma, College of Engineering and Physical Sciences UW

Proposed Start Date: 7/1/2024

Proposed End Date: 6/30/2026

Project Funds Requested: \$170,000

University Matching: \$115,097

Non-Technical Statement of Relevance:

The proposed project's goal is to remove excessive nutrients (N and P) and thus eliminate the harmful cyanobacteria blooms (HCBs) in lakes or reservoirs, which have already negatively affected the ecosystem and lives in Wyoming. The cyanotoxins generated by HCBs could lead to significant health issues for human beings and the death of livestock. The precondition for controlling HCBs is to reduce nutrient loading to surface waters. Many methods have been developed for the removal of nutrients. However, their effectiveness is unsatisfactory. The proposed project aims to change the situation by developing an advanced septic system to improve N and P removals from surface waters, which is beneficial to controlling HCBs and their resultant cyanotoxins. Fenton's reagent (FR) and polymeric ferric sulfate (PFS) as a high-performance coagulant will be integrated to improve the removals of N and P significantly.

The benefits of the proposed project to Wyoming include: 1) improving the removal of nutrients (N and P) and eliminating harmful HCBs via an advanced septic system; 2) protecting Wyoming people's lives and wildlife; and 3) supporting Wyoming's economy.

The study can be used by governmental agencies (GAs) to manage Wyoming's water resources, as stated below. Firstly, GAs can use the study results for regulating the standards of the nutrients (N and P) in water resources in Wyoming by using the N and P removal efficiencies of the proposed N and P removal technology as reference data. Also, GAs can use the study results to guide the development of nutrient removal technologies in Wyoming. Moreover, GAs can secure the quantity and quality of the water resources, resulting from using the new N and P removal technology, for Wyoming's sustainable development.

The project can meet the needs of the State and Federal agencies regarding Wyoming's water resources, as explained below. On the one hand, water is one of the most critical resources in developing the economies in Wyoming and other states (e.g., Colorado and New Mexico). On the other hand, several precious water resources cannot be used due to their adverse health effects. The HCBs in lakes or reservoirs resulting from excessive nutrients have already negatively affected the ecosystem and lives in Wyoming and the U.S. The cyanotoxins generated by HCBs could lead to significant health issues for human beings and the death of livestock. Many methods have been developed for the removal of nutrients. However, its effectiveness is unsatisfactory. The proposed project aims to change the situation.

The project will support water-related training and education. The research results will be disseminated to the students not only from the UW campus but also from the K-12 schools, which is beneficial to STEM education at the university and increases the K-12 students' interest in STEM majors. The knowledge to be gained by the

K-12 and college students will help them improve their awareness of the connection between water quality and people's health.

2024 RECOMMENDATION - WATER DEVELOPMENT ACCOUNT II

Project Name: Transfer of funds from Water Development Account I (WDA I) to Water Development Account II (WDA II) **Program:** Rehabilitation

Project Type: Fund Transfer

County: Statewide

Sponsor: WWDC

Transfer Funds from WDA I to WDA II:: \$ 7,000,000

Project Manager: Jason Mead

Description:

The Wyoming Water Development Account II (WDA II) 2024 recommendations exceed the WDA II projected fund balance. With a current WDA II fund balance of \$10,526,014 and WDA II 2024 recommendations totaling \$11,921,600, there is a deficit of \$1,395,586 to WDA II for the biennium.

This recommendation is seeking formal Commission approval to transfer \$7,000,000 from WDA I to WDA II to mitigate the WDA II fund deficit and leave approximately half of the original \$10,526,014 in WDA II for the 2nd year of the biennium (2025).

The table below summarizes WDA I and WDA II projected balances, WDA I and WDA II 2024 funding recommendations and WDA I and WDA II balances after the transfer of funds from WDA I to WDA II.

WWDC WDA I SUMMARY

WDA I Projected Balance	WDA I Requested Transfer	WDA I Recommended Funding	WDA I Balance ¹
\$25,961,579	\$7,000,000	\$6,126,951	\$12,834,628

¹ Following WDA I transfer

WWDC WDA II SUMMARY

WDA II Projected Balance	WDA I Requested Transfer	WDA II Recommended Funding	WDA II Balance ¹
\$10,526,014	\$7,000,000	\$11,921,600	\$5,604,414

¹ Following WDA I transfer

LEVEL III
PROJECTS
-AMENDMENTS

2023 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Leavitt Reservoir Expansion

Program: Dams & Reservoirs

Project Type: Multipurpose

County: Big Horn

Sponsor: Shell Valley Watershed Improvement District

Sponsor's Request: Additional \$11,917,000 and 1-year Time Extension

Proposed Budget Increase: \$10,850,000

WWDO Recommendation: Extend the reversion date from July 1, 2027 to July 1, 2028 and increase the budget

Previously Approved Budget: \$78,000,000¹

	Existing	Changes	Revised Budget
WWDC Grant	\$76,284,000 97.8%	\$ 10,850,000 100.0%	\$87,134,000 98.07% ³
WWDC Loan ²	\$ 1,716,000 2.2%	\$ 0 0.0 %	\$ 1,716,000 1.93%
Total	\$78,000,000 ¹	\$ 10,850,000	\$88,850,000

¹ 2017 Appropriation, 2020 and 2023 Amendments

² 50-year loan, 4% interest

³ Grant percentage needed to arrive at approx. \$25/acre-foot assessment, not to exceed 98.07% of eligible project costs up to \$87,134,000

Project Manager: Mitchell/Brewer

Project Description:

The Shell Valley Watershed Improvement District (District) remains committed to expanding Leavitt Reservoir to provide additional supplemental irrigation water to the Beaver Creek and Shell Creek drainages. The Reservoir, located off-channel, replaces the existing Leavitt Reservoir (643 acre-feet) and will be filled with flows from Beaver Creek through a supply pipeline. The Reservoir will have a total capacity of approximately 6,604 acre-feet, of which 5,104 acre-feet will serve as a supplemental irrigation supply, leaving a 1,500 acre-foot conservation pool for habitat, fishing and recreational use. The expanded Reservoir, appurtenances, and borrow areas involve private lands and those easements and land purchases have been completed. Following the construction of the Reservoir, the District will own, operate, and maintain the expanded Leavitt Reservoir for the life of the project.

In regards to secondary benefits, the reservoir will continue to have public access providing fisheries, wildlife, and recreational uses. Diversions out of Beaver Creek during spring runoff will have some flood control benefits, plus some minor flood benefits provided by the Reservoir itself. Wetlands created as part of the Project will have water quality and wildlife benefits. Late season irrigation releases out of the Reservoir will enhance downstream riparian areas, improve fish habitat and have indirect benefits to wildlife provided through additional agricultural yields and winter pasture.

Cost increases due to unprecedented inflation and higher than expected construction costs required the Project to be rebid after receiving just one bid in 2021 that exceeded the project budget. In 2023, the District requested and received additional funding. With that funding the Project was rebid in the summer of 2023 as four separate construction bid packages. The result of that bidding allowed the District to award three of the four construction packages that will result in the completion of a functional reservoir, after receiving favorable concurrence from the WWDC to move forward. The increased funding is being requested to complete the diversion structure and transfer pipeline that will allow stored water to be delivered to some of the reservoir shareholders associated with Shell Canal.

Uncontracted Estimated Level III WWDC Eligible Costs:

Cost of Project Components		
Diversion Structure and Transfer Pipeline	\$ 15,000,000	
Construction Cost (Subtotal #2)		\$15,000,000
Construction Engineering Costs		\$ 1,500,000
Components and Engineering Costs (Subtotal # 3)		\$16,500,000
Contingency (Subtotal #3 x 10%)		\$ 1,650,000
Construction Cost Total (Subtotal #4)		\$18,150,000
Inflation Costs (4% per one year)		\$ 726,000
Total Additional Project Costs		\$18,876,000
Project Costs Contracted to Date		\$67,974,871
Total Estimated Costs (Contracted and Uncontracted)		\$86,850,871
Additional Contingency (Contracted and Uncontracted)		\$ 2,000,000
Total Project Costs		\$88,850,871
Total Project Costs (Rounded)		\$88,850,000
Level III Recommended Funding @ 98.07% Grant:		\$87,134,000
Level III Recommended Funding @ 1.93% Loan:		\$ 1,716,000
Additional Funds Needed:		\$10,850,000

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Middle Piney Reservoir

Program: Dams and Reservoirs

Project Type: Agricultural Irrigation

County: Sublette County

Sponsor: State of Wyoming

Sponsor's Request: Time Extension

Proposed Budget Increase: \$0

WWDO Recommendation: Extend the reversion date from July 1, 2024 to July 1, 2025

Previously Approved Budget: \$16,953,000

WWDC Grant (100%)
Total

\$16,953,000
\$16,953,000

Project Manager: Kaiser

Project Description:

The Project will be substantially complete in the fall of 2023. Some additional cleanup work will be performed in the spring of 2024 to allow potential filling and operation of the dam in the summer of 2024. The timing of the filling will be dependent upon the amount of snowpack and the irrigators needs for water in 2024.

GENERAL/
OTHER

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Sponsor’s Contingency Fund – Account III **Program:** Dams and Reservoirs
Project Type: Multipurpose **County:** Statewide
Sponsor: WWDC **Uncommitted Budget:** \$ 275,000
WWDO Recommendation: Increase Acct. III Funding **Requested Funding:** \$ 10,000,000

Description:

The Account III Sponsor’s Contingency Fund was established to provide supplemental funding for sponsors when appropriated funds for new dam and reservoir construction projects are insufficient to award a contract, as well as on existing projects where construction budgets have been rendered insufficient due to a number of potential factors such as change in conditions, inflation, unexpected increase in material cost, change in materials, and/or increases in the quantities of materials necessary to complete the project. The ability to consider supplemental funding any time during the calendar year allows the WWDC to react quickly and efficiently to project conditions.

The WWDO anticipates increased use of this fund as we are witnessing higher construction bid prices attributed to such things as the COVID-19 pandemic, continued growth in the construction sector, and the complexity of dam construction. There has been unforeseen volatility in global and local economies that has influenced the bidding climate. This volatility and uncertainty will likely continue into the future. The Federal focus on infrastructure and funding for such projects has led to growth in the construction sector. Combined, these factors have led to labor shortages in manufacturing and construction, supply chain delays, limited availability and increased costs of goods, fuel, and equipment. And, in addition, dam construction is complex and heavily reliant on construction labor and materials. Many engineering and scientific disciplines are involved, ranging from hydraulics and hydrology, to geology and geotechnical engineering, to structural and electrical engineering, down to biological sciences. With the many areas comes the potential for changing conditions as construction gets underway, requiring subsequent design modifications, which can lead to cost increases.

Bolstering the Sponsor’s Contingency Funds for Account III will allow the WWDC to effectively deal with issues that arise in a timely manner.

EXISTING LEGISLATION

<u>Purpose</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>
Sponsor’s Inflation	113	2020	III	\$10,000,000
Sponsor’s Inflation	93	2022	III	\$25,000,000
Appropriated to Date (Subtotal #1)				\$35,000,000

PROJECT APPROPRIATIONS

<u>Project</u>	<u>Expended or Encumbered</u>
Middle Piney Reservoir	\$ 2,725,000.00
Leavitt Reservoir Expansion	\$ 32,000,000.00

Expended or Encumbered to Date (Subtotal #2): **\$34,725,000.00**

Uncommitted Funds (Subtotal #3, Subtotal #1 – Subtotal #2): **\$ 275,000.00**

Sponsor’s Contingency Fund Request: **\$10,000,000.00**

LEVEL III
PROJECTS

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Bridger Valley JPB Tank Replacement 2024

Program: Rehabilitation

Project Type: Rural Domestic

County: Uinta

Sponsor: Bridger Valley Joint Powers Board

WWDO Recommendation: Level III

Proposed Budget: \$728,500¹

¹ Project funding is contingent on the Legislature approving a \$7,000,000 transfer of funds from WDA I to WDA II.

WWDC Grant ² (50%)	\$ 728,500
Sponsor ³ (50%)	<u>\$ 728,500</u>
Total	\$ 1,457,000

² Not to exceed 50% of eligible project expenses

³ Sponsor or other funding source

Project Manager: Mitchell

Project Description: Design and construction of a 500,000-gallon water tank and appurtenances necessary to make the Project function in the manner intended.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2021	L-I, Bridger Valley Regional Water Master Plan	\$ 100,000

2. Describe existing water supply using information in the application.

The current supply is 2,100 GPM of raw water out of the Meeks Cabin and Stateline reservoirs through a head gate on the Smiths Fork. The water is treated at the Bridger Valley Joint Powers Board Treatment Plant. The water is then stored in multiple tanks (1-1MG Concrete and 2-0.5MG Metal) before being distributed to the users. The approximate distance from the source to the distribution system is 8,100 ft. The transmission pipeline is constructed out of 14" and 22" HDPE. The pipeline is approximately 18 years old and is in good condition. All water is metered and billed to the users. There currently isn't any federal (EPA) mandates to improve the system.

3. Summarize the request.

The Bridger Valley Joint Powers Board is requesting the construction of a new 500,000-gallon tank (either concrete or steel. Whichever is more cost effective).

4. Summarize the reasons for the request.

The existing tank was identified in the 2021 WWDC Level I Study to be replaced. The existing tank leaks and requires continuous repair.

Estimated Level III WWDC Eligible Costs:

Preparation of Final Designs and Specifications	\$ 102,500	
Site Access Permit Fees (BOR, USFS, etc.)	\$ 0	
Title Opinion	\$ 2,000	
Acquisition of Access and Rights of Way	\$ 0	
Pre-Construction Costs (Subtotal # 1)		\$ 104,500

Cost of Project Components

Mobilization	\$ 51,000
Excavation of Tank Site	\$ 85,000
Site Restoration & Clean Up	\$ 14,000
Tank Supply Piping	\$ 25,000
Tank Footing and Floor	\$ 190,000
Tank Walls	\$ 258,000
Tank Columns	\$ 20,000
Tank Roof	\$ 210,000
Tank Interior Piping	\$ 13,000
Tank Ladder and Access Hatch	\$ 16,000
Tank Vents	\$ 6,000
Tank Overflow Piping	\$ 15,000
Overflow Riprap	\$ 1,000
Tank Perimeter Drain	\$ 9,000
Tank Backfill	\$ 69,000
Untreated Base Course at Access Road	\$ 2,000
Chain Link Fencing	\$ 30,000
Seeding	\$ 1,000
SCADA/Telemetry Control	\$ 10,000

Construction Cost (Subtotal #2)	\$ 1,025,000
Construction Engineering Costs (Subtotal # 2 x 10%)	\$ 102,500
Components and Engineering Costs (Subtotal # 3)	\$ 1,127,500
Contingency (Subtotal #3 x 15%)	\$ 169,125
Construction Cost Total (Subtotal #4)	\$ 1,296,625

Total Project Cost (Subtotal #1 + Subtotal #4)	\$ 1,401,125
Inflation Costs (4% per one year)	\$ 56,045

Total Project Costs \$ 1,457,170

Total Project Costs Rounded \$ 1,457,000

Level III Recommended Funding @ 50% Grant: \$ 728,500

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information

a. Population (2020 Census) 5,395 (Current Estimate) 5,458

b. Does the entity have a comprehensive planning boundary? Yes
If so, what is the estimated additional population that could be served in the future? 6,000

	Pre-Project	Post Project
c. Taps served within the entity boundaries?	643	643
d. Taps outside the entity boundaries?	0	0
e. Names of other water systems served?	Town of Lyman and Town of Mountain View	

2. Water Usage (Potable water system only)

	Pre-Project	Post Project
a. Total number of gallons produced by the water sources annually:	212.9 MG	212.9 MG
b. Gallons used <u>per capita</u> per day:		
Average Day:	118 gal	118 gal
Peak Day:	345 gal	345 gal

3. System capacity (Potable water system only):

	Pre-Project	Post-Project
a. Maximum capacity of the water supply system		
Acre feet per day:	9.21	9.21
Gallons per day:	3 MGD	3 MGD
b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.):	Potential loss of water storage	
c. Increased capacity needed:		
Acre feet per day	0	0
Gallons per day	0	0
d. Estimated system water losses (percentage):	10%	10%

4. Does the entity have an independent raw water irrigation system? No

a. Raw water system capacity (acre feet per day & gallons per day):	0.00
b. Average annual raw water usage (acre feet & gallons):	0.00

5. Rates

	Pre-Project	Post-Project
a. Tap fees:		
Residential:	\$ 1,500	\$ 1,500
Commercial:	\$ 1,500	\$ 1,500

b. Average monthly water bill: \$ 57.00 \$ 57.00

c. Water Rates

See water rates table attached

6. Financial Statement	Pre-Project	Post-Project
Annual revenues generated from water sales:	\$ 1,404,581	\$ 1,404,581
Annual revenues from tap fees:	\$ 13,000	\$ 13,000
Annual revenues from other sources:	\$ <u>0</u>	\$ <u>0</u>
Total annual revenues:	\$ 1,417,581	\$ 1,417,581
Annual budget for operation and maintenance expenses:	\$ 1,175,287	\$ 1,203,016
Annual payments for debt retirement:	\$ 66,296	\$ 66,296
Annual payments to a repair and replacement fund:	\$ 100,000	\$ 100,000
Annual payments for other purposes:	\$ <u>0</u>	\$ <u>0</u>
Total annual payments:	\$ 1,341,583	\$ 1,369,312
Balance in repair and replacement fund:	\$ 1,532,020	\$ 1,532,020
Balance in emergency fund:	\$ 0	\$ 0
Annual cost of water quality testing:	\$ 7,000	\$ 7,000

B. COMPARISON WITH OPERATING CRITERIA

1. Project Priority according to the Criteria? Account II, Priority 4 - Level III rehabilitation of existing water storage tanks
2. Is the project supported by the City Council or County Commission, which has jurisdiction over the project area? Yes
3. Will the project serve at least 15 water taps? Yes Number of taps 643
4. Is the sponsor under any federal (EPA) mandates to improve your system? (eg. Administrative orders, violations, actions taken): No
5. Does anyone in the service area haul water? Yes
6. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they: RUS, SLIB, SRF
7. Is water metered? Yes Are billings based on meter readings? Yes
8. What is monthly water bill for 5,000 gallons? \$51.50 20,000 gallons? \$124.00
9. Theoretical reasonable monthly water bill (\$75,106 (AMHI) x 2.5%/12) \$156.47
10. What water conservation measures are employed by the sponsor? Tiered water rates
11. Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds and emergency funds? Yes
12. Will the project consider regional solutions? No, system is already regional

13. Can the project be delayed or staged? Yes Should it be? No

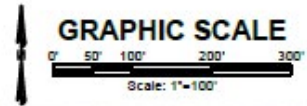
14. Basis for the funding recommendation: The current tank is leaking so a new one is needed. The current water rates are low compared to the reasonable monthly water rate. It is recommended to fund the project with a 50% grant. The Joint Powers Board has 33% of the co-funding on hand and they are applying to the SRF program to acquire the remaining 17% to get the project started.



FORSGREN
Associates Inc.
849 FRONT STREET, STE. 201, EVANSTON, WY 82930
PH: 307.789.6735 FAX: 307.789.6746

DISTRICT BOUNDARIES
-

PROJECT NO:
03-23-0101
DATE:
07/13/2023



FORSGREN
Associates Inc.
 849 FRONT STREET, STE. 201, EVANSTON, WY 82830
 PH: 307.789.6735 FAX: 307.789.6746

BVJPB 0.5MG

PROJECT NO:
 03-23-0101

DATE:
 07/13/2023



RESOLUTION NO 2023-08

**A RESOLUTION OF THE BRIDGER VALLEY JOINT POWERS BOARD
AUTHORIZING A GRANT APPLICATION TO THE WYOMING WATER
DEVELOPMENT COMMISSION FOR FUNDING THE BOARD'S TANK
REPLACEMENT PROJECT**

WHEREAS, the Bridger Valley Joint Powers Board desires to secure funding in order to replace certain tank as part of the Board's water system; and

WHEREAS, the Wyoming Water Development Commission provides funding for the development of such a plan, and;

WHEREAS, the WWDC requires the submission of applications to access grants; and

WHEREAS, the Bridger Valley Joint Powers Board wishes to have a grant for the replacement of certain tank which are part of the Board's Water System; and

WHEREAS, the total cost of the Tank Replacement Project is estimated to be One Million, Four Hundred Two Thousand, Eight Hundred Twenty-Eight Dollars and Twenty-Five Cents (\$1,402,828.25); and

WHEREAS, the Bridger Valley Joint Powers Water Board is requesting funding of sixty-seven percent (67%) of the cost of the project, equaling Nine Hundred Thirty-Nine Thousand, Eight Hundred Ninety-Four Dollars and Ninety-Three Cents (\$939,894.93).

BE IT RESOLVED BY THE GOVERNING BODY OF THE BRIDGER VALLEY JOINT POWERS BOARD:

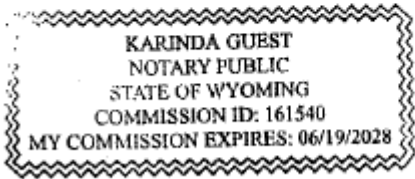
The Chairperson of the Bridger Valley Joint Powers Board, and his agents and assigns, are authorized to make and submit all necessary applications to the Wyoming Water Development Commission and receive Nine Hundred Thirty-Nine Thousand, Eight Hundred Ninety-Four Dollars and Ninety-Three Cents (\$939,894.93) in funding for the Bridger Valley Joint Powers Board Tank Replacement Project, representing sixty-seven percent (67%) of the total One Million, Four Hundred Two Thousand, Eight Hundred Twenty Eight Dollars and Twenty-Five Cents (\$1,402,828.25) project cost.

PASSED, APPROVED AND ADOPTED the 12th day of July, 2019.


CHAIRPERSON or VICE CHAIRPERSON

The foregoing Resolution was acknowledged before me by Owen Petersen on this 12th day of July 2023.

Witness my official hand and seal:



Karinda Guest
 Notarial Officer

FEE SCHEDULE					
COUNTY RETAIL USERS					
	FY20	FY21	FY22	FY23	FY24
SHUT OFF RATE	\$10.00	\$10.00	\$10.00	\$12.00	\$12.00
BASE RATE	\$25.00	\$25.00	\$27.00	\$29.00	\$32.00
CONNECTION FEE	\$1,200.00	\$1,200.00	\$1,200.00	\$1,500.00	\$1,500.00

PER 1000 GALLON RATE					
	FY20	FY21	FY22	FY23	FY24
1 - 10000	\$4.00	\$4.50	\$4.50	\$4.50	\$5.00
10001 - 20000	\$4.50	\$5.00	\$5.00	\$5.00	\$5.50
20001 - 30000	\$5.00	\$5.50	\$5.50	\$5.50	\$6.00
30001 - 40000	\$5.50	\$6.00	\$6.00	\$6.00	\$6.50
40001 +	\$6.00	\$6.50	\$6.50	\$6.50	\$7.00

Based on # of Connections	Percentage	New Connection= \$1500
Lyman- 808	0.39	Meter Pit/Meter=
Mt. View- 634	0.306	\$1420
County- 631	0.304	Total= \$2920

2073

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Dayton Water System Rehabilitation 2024 **Program:** Rehabilitation

Project Type: Municipal

County: Sheridan

Sponsor: Town of Dayton

WWDO Recommendation: Level III

Proposed Budget: \$200,000

WWDC Grant ¹ (50%)	\$ 200,000
<u>Sponsor² (50%)</u>	<u>\$ 200,000</u>
Total	\$ 400,000

¹ Not to exceed 50% of eligible project costs

² Sponsor or other funding source

Project Manager: Mallo

Project Description: The Project proposes to rehabilitate, by replacement, the existing infiltration gallery adjacent to the Tongue River which supplies both raw and domestic water systems for the Town of Dayton.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2022	L-I Dayton Master Plan Study	\$ 167,000

2. Describe existing water supply using information in the application.

The existing water supply consists of an infiltration gallery located adjacent to the Tongue River and a deep groundwater well completed across both the Madison Limestone and the Bighorn Dolomite. Groundwater is utilized when the Tongue River is not usable or too turbid for the water treatment plant. The infiltration gallery is pumped into a raw water system or into the water treatment plant that feeds water into a 128,000-gallon two-tank clearwell. Groundwater bypasses the treatment plant and directly supplies the clearwell tanks. The clearwell system then feeds a booster pump that supplies the Town's domestic water supply.

3. Summarize the request.

The Project is proposed to rehabilitate the Town's water sources, update the source SCADA controls, and replace a section of 10" asbestos cement transmission line.

4. Summarize the reasons for the request.

The existing infiltration gallery has reached the end of its useful life and needs to be replaced using modern methods that will reduce the impacts of river turbidity on the system and allow for better, more efficient infiltration collection from the river. The funding recommendation is based on this request.

The Town also requested funding for the following items. The existing well was drilled in the early 2000s and was treated with acidizing fluid to increase flow. It has since lost some of its gained production and needs to be retreated to restore the lost flow. The Town also wants replace its failing SCADA system and a section of asbestos cement main that has reached the end of its useful life. However, these items were found to be ineligible for WWDC funds. The well has been acidized in the past, and the Town is looking to re-acidize the well which is considered maintenance by the WWDO. WWDC funds currently can only be used for SCADA work specific to the portion of the Project being completed and not system wide replacement. Lastly, the 10" asbestos cement main does not meet the typical WWDO definition of transmission pipelines and are considered to be part of the distribution system.

Estimated Level III WWDC Eligible Costs:

Preparation of Final Designs and Specifications	\$	26,200	
Site Access Permit Fees (BOR, USFS, etc.)	\$	10,000	
Title Opinion	\$	1,000	
Acquisition of Access and Rights of Way	\$	<u>0</u>	
Pre-Construction Costs (Subtotal # 1)			\$ 37,200

Cost of Project Components

Mobilization	\$	23,000
New Source Pumps and Controls	\$	105,000
Source Piping Modifications	\$	14,000
Source Electrical updates	\$	25,000
Demo Existing Source Water Pumps	\$	15,000
Infiltration Gallery Rehabilitation	\$	55,000
Transmission line to WTP Replacement	\$	20,000
Existing In-Ground Pipe Demo	\$	<u>5,000</u>

Construction Cost (Subtotal #2)	\$	262,000
Construction Engineering Costs (Subtotal # 2 x 10%)	\$	26,200
Components and Engineering Costs (Subtotal # 3)	\$	288,200
Contingency (Subtotal #3 x 15%)	\$	43,230
Construction Cost Total (Subtotal #4)	\$	<u>331,430</u>

Total Project Cost (Subtotal #1 + Subtotal #4)	\$	368,630
Inflation Costs (4% per two years)	\$	<u>30,080</u>
Total Project Costs	\$	398,710

Total Project Costs Rounded **\$ 400,000**

Level III Recommended Funding @ 50% Grant: **\$ 200,000**

Ineligible Expenses

Dayton Well #1 Acidizing Maintenance	\$	150,000
SCADA Systems Replacement	\$	363,000
10" AC Water Line and Water Services	\$	<u>400,000</u>

Total Ineligible Project Costs **\$ 913,000**

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information

a. Population (2020 Census) 879 (Current Estimate) 919

b. Does the entity have a comprehensive planning boundary? No
If so, what is the estimated additional population that could be served in the future? N/A

	Pre-Project	Post Project
c. Taps served within the entity boundaries?	404	404
d. Taps outside the entity boundaries?	29	29

e. Names of other water systems served? Eagle Ridge County Subdivision (not a PWS)

2. Water Usage (Potable water system only)

	Pre-Project	Post Project
a. Total number of gallons produced by the water sources annually:	43.8 MG	43.8 MG

b. Gallons used per capita per day:

	Pre-Project	Post Project
Average Day:	123 gal	123 gal
Peak Day:	287 gal	287 gal

3. System capacity (Potable water system only):

a. Maximum capacity of the water supply system

	Pre-Project	Post-Project
Gallons per day:	1.3 MGD	1.3 MGD

b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.): Infiltration gallery, well flow, & WTP

	Well Flow & WTP
--	-----------------

c. Increased capacity needed:		
Acre feet per day	0	0
Gallons per day	0	0

d. Estimated system water losses (percentage): 20% 20%

4. Does the entity have an independent raw water irrigation system? Yes

a. Raw water system capacity (acre feet per day):	6.8 AFD	6.8 AFD
---	---------	---------

b. Average annual raw water usage (acre feet):	390 AF	390 AF
--	--------	--------

5. Rates

	Pre-Project	Post-Project
a. Tap fees:		
Residential:	\$ 877.50	\$ 967.00

Commercial:	\$	877.50	\$	967.00
b. Average monthly water bill:	\$	34.00	\$	34.00

c. Water Rates

Inside Town: \$27/month for first 3K and then \$1 for each 1k gallons after,
 Outside Town: \$32/month for first 3K and then \$1 for each 1k gallons

6. Financial Statement	Pre-Project	Post-Project
Annual revenues generated from water sales:	\$ 209,000	\$ 226,000
Annual revenues from tap fees:	\$ 5000	\$ 5400
Annual revenues from other sources:	\$ 0	\$ 0
Total annual revenues:	\$ 214,000	\$ 231,400
Annual budget for operation and maintenance expenses:	\$ 144,000	\$ 156,000
Annual payments for debt retirement:	\$ 0	\$ 0
Annual payments to a repair and replacement fund:	\$ 0	\$ 0
Annual payments to an emergency fund:	\$ 0	\$ 0
Annual payments for other purposes:	\$ 0	\$ 0
Total annual payments:	\$ 144,000	\$ 156,000
Balance in repair and replacement fund:	\$ 0	\$ 0
Balance in emergency fund:	\$ 0	\$ 2,300
Annual cost of water quality testing:	\$ 3,100	\$ 3,300

B. COMPARISON WITH OPERATING CRITERIA

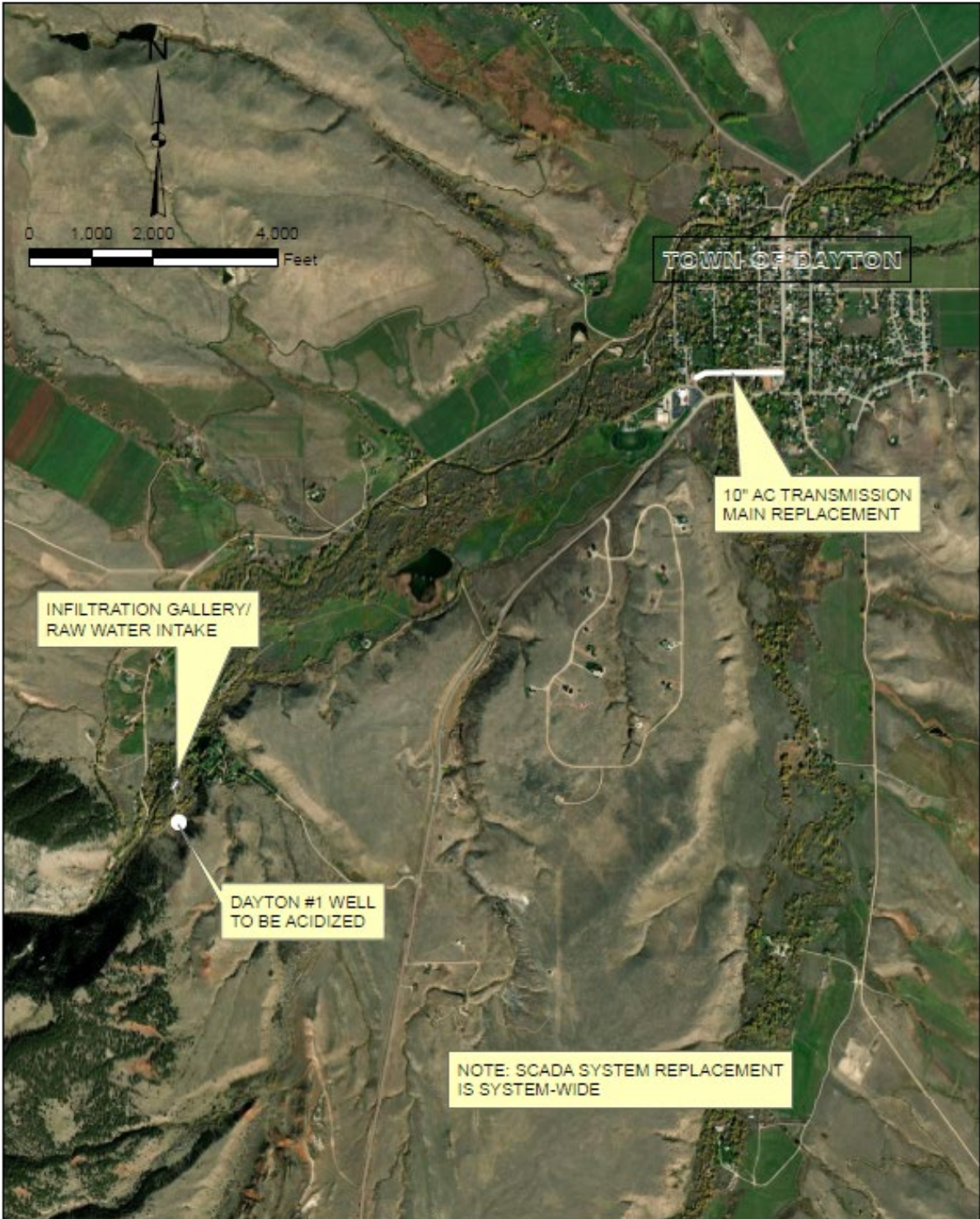
1. Project Priority according to the Criteria? Account II, Priority 1 – Level III rehabilitation of water diversion or control structures
2. Is the project supported by the City Council or County Commission, which has jurisdiction over the project area? Yes.
3. Will the project serve at least 15 water taps? Yes Number of taps 404
4. Is the sponsor under any federal (EPA) mandates to improve your system? (eg. Administrative orders, violations, actions taken): No
5. Does anyone in the service area haul water? No
6. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they: RUS, SRF
7. Is water metered? Yes Are billings based on meter readings? Yes
8. What is monthly water bill for 5,000 gallons? \$29.00 20,000 gallons? \$44.00
9. Theoretical reasonable monthly water bill (\$88,393 (AMHI) x 2.5%/12) \$184.15
10. What water conservation measures are employed by the sponsor? Town operates a separate raw water system for irrigation.
11. Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for

operation, maintenance, debt retirement, replacement funds and emergency funds? Yes

12. Will the project consider regional solutions? No, There are no nearby communities or subdivisions not currently connected.

13. Can the project be delayed or staged? No Should it be? No

14. Basis for the funding recommendation: The Town of Dayton's infiltration gallery collects water off the Tongue River and diverts it to the water treatment plant and to the raw water system on a 34% WTP 66% raw water basis. The infiltration gallery has reached the end of its useful life. The recommendation is for using WWDO funding for the rehabilitation of the infiltration gallery. The infiltration gallery is the Town's primary domestic water source and is critical considering their well's current reduced capacity and its inability to supply the Town's peak demand. If the infiltration gallery's 24" galvanized CMP pipe located adjacent to the river were to collapse then the Town would not be able to meet peak domestic or raw water demands.



TOWN OF DAYTON
LEVEL III FUNDING
APPLICATION

LOCATION OF PROJECT
COMPONENTS

FIG. 1



River Adjacent Infiltration Gallery



Infiltration Wet Well Pumps

RESOLUTION NO. 409

A RESOLUTION AUTHORIZING THE SUBMISSION OF AN APPLICATION TO THE WYOMING WATER DEVELOPMENT COMMISSION FOR LEVEL III FUNDING FOR DESIGN AND CONSTRUCTION OF A WATER SYSTEM IMPROVEMENTS PROJECT FOR THE TOWN OF DAYTON, WYOMING.

WITNESSETH:

WHEREAS, the governing body for the Town of Dayton, Wyoming (Town) desires to make certain improvements to its public water system, specifically improvements to the raw water diversion facilities, restoration of the yield from the Dayton #1 well, replacement of the 10" asbestos cement transmission main located within the Town, and improvements to the supervisory control and data acquisition (SCADA) system; and

WHEREAS, the Wyoming Water Development Commission (WWDC) has completed a Level I study in 2023, with the Town acting as the sponsor for this Level I study, which shows the need for these improvements; and

WHEREAS, the Town recognizes the need for these improvements; and

WHEREAS, these improvements are eligible for Level III design and construction funding through the WWDC.

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BODY FOR THE TOWN that an application be submitted to the WWDC for Level III design and construction funding for the Town's public water system improvements described above and which were identified in the WWDC's 2023 Level I Study.

BE IT FURTHER RESOLVED THAT Cliff Reed, Mayor of the Town, is hereby designated as the Project Administrator for the Town, to act on behalf of the governing body on all matters relating to this funding application.

PASSED, APPROVED AND ADOPTED THIS 16th DAY OF August, 2023.


Cliff Reed

Mayor
Title

ATTEST: 
Signature

Clark Treasurer
Title

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Deaver ID Laterals 2024

Program: Rehabilitation

Project Type: Agricultural Irrigation

County: Big Horn

Sponsor: Deaver Irrigation District

WWDO Recommendation: Level III

Proposed Budget: \$172,000

WWDC Grant ¹	\$ 172,000
<u>Sponsor²</u>	<u>\$ 160,000</u>
Total	\$ 332,000

¹ 100% materials only grant not to exceed \$172,000

² Sponsor's share is all costs (engineering, construction staff and equipment, fuel, etc., ~\$117,000) and materials in excess of \$172,000.

Project Manager: Russell

Project Description: The Project will replace 2 portions of laterals that are failing. The first is the D44-10 lateral. This lateral serves 46 acres. The D44-10 lateral is a combination of concrete ditch with a span of pipe that crosses a drainageway. The ditch has partially washed out and the pipe is corroded and leaking. The entire lateral will be replaced with buried pipe. The second portion of the Project will be replacement of the Lateral D56 chute. This lateral directly serves 103 acres and contributes to the service of 3,179 acres. The chute currently consists of an exposed steel pipe to carry water through a steep grade. The pipe is corroded. The pipe and its concrete supports are failing. The entire chute will be replaced with a buried pipe chute.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2015	Level I, Deaver Master Plan	\$ 162,000
2017	Level III, Flume Replacement/Laterals 2017	\$ 91,000
2018	Level II, Deaver Irrigation District Rehab 2018	\$ 230,000
2019	Level III, Deaver Irrigation District Rehab 2019	\$ 424,000
2020	Level III, Frannie Canal Drop Chute #1 2020	\$ 166,200
2022	Level III, Deaver ID Rehabilitation 2022	\$ 816,810

2. Describe existing water supply using information in the application.

The Deaver Irrigation District has a direct flow water right from the Shoshone River and stored water from Buffalo Bill Reservoir, all delivered through the Frannie Canal. The District currently irrigates 15,454 acres, with 205 individual landowners receiving water.

3. Summarize the request.

The Sponsor is requesting funding in the amount of 100% of eligible project materials costs only.

4. Summarize the reasons for the request.

Existing facilities are failing.

Estimated Level III WWDC Eligible Costs:

Cost of Project Components		
24in Pipe	\$	42,500
15in Pipe	\$	46,200
Pipe Bedding	\$	41,900
Meter Assembly & Manhole	\$	20,000
30in Culvert	\$	8,000
30in Culvert End Sections	\$	4,000
24in Fittings	\$	1,300
15in Slide Gates	\$	2,000
15in Fittings	\$	6,000
Vent Assemblies	\$	3,200
Concrete	\$	1,000
Reinforcing	\$	500
Tracer Wire	\$	<u>3,100</u>
Construction Cost (Subtotal #1)		\$ 179,700
Contingency (Subtotal #1 x 15%)		\$ <u>26,955</u>
Construction Cost Total (Subtotal #2)		\$ 206,655
Inflation Costs (1 year @ 4% per year)		\$ <u>8,266</u>
Total Project Costs		\$ 214,921
Total Project Costs (Rounded)		\$ 215,000
Level III Recommended Funding @ 80% Grant:		\$ 172,000

Ineligible Expenses

Engineering/CMA		\$ 30,000
Labor (wages)		\$ 68,000
Fuel & Equipment		\$ 15,000
Misc. Consumables		\$ <u>4,000</u>
Total Ineligible Project Costs		\$ 117,000

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information.	Pre-Project	Post-Project
a. Total acres are in the District?	53,000	53,000
b. Assessed acres?	15,454	15,454
c. Irrigated acres?	15,454	15,454
d. Average annual water delivery (acre-feet/acre assessed)?	3.88	3.88
e. How many individual landowners receive water?	205	205

f. What type(s) of on-farm irrigation water application is used? Flood, tubes, gated pipe, and center pivots.

g. Briefly describe the main crops and cropping patterns: Sugar beets, corn, barley, beans are rotated; alfalfa, grass hay, and pasture are consistent.

h. Describe the water measuring devices currently in use: Ramp flumes, telemetry, Parshall, weir devices, mag meters, and prop meters.

2. Water Usage	Pre-Project	Post-Project
a. Total water (AF) provided by the system annually:	60,000	60,000
b. Average Day Demand (AF):	530	530
c. Peak Day Demand (AF):	530	530

3. System Capacity:	Pre-Project	Post-Project
a. Maximum capacity of the water supply system (acre feet per day)	600	600
b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.):	Corbett Tunnel Capacity	Same
c. Increased capacity needed (acre feet per day):	0	0
d. Estimated system water losses (percentage):	20%	20%

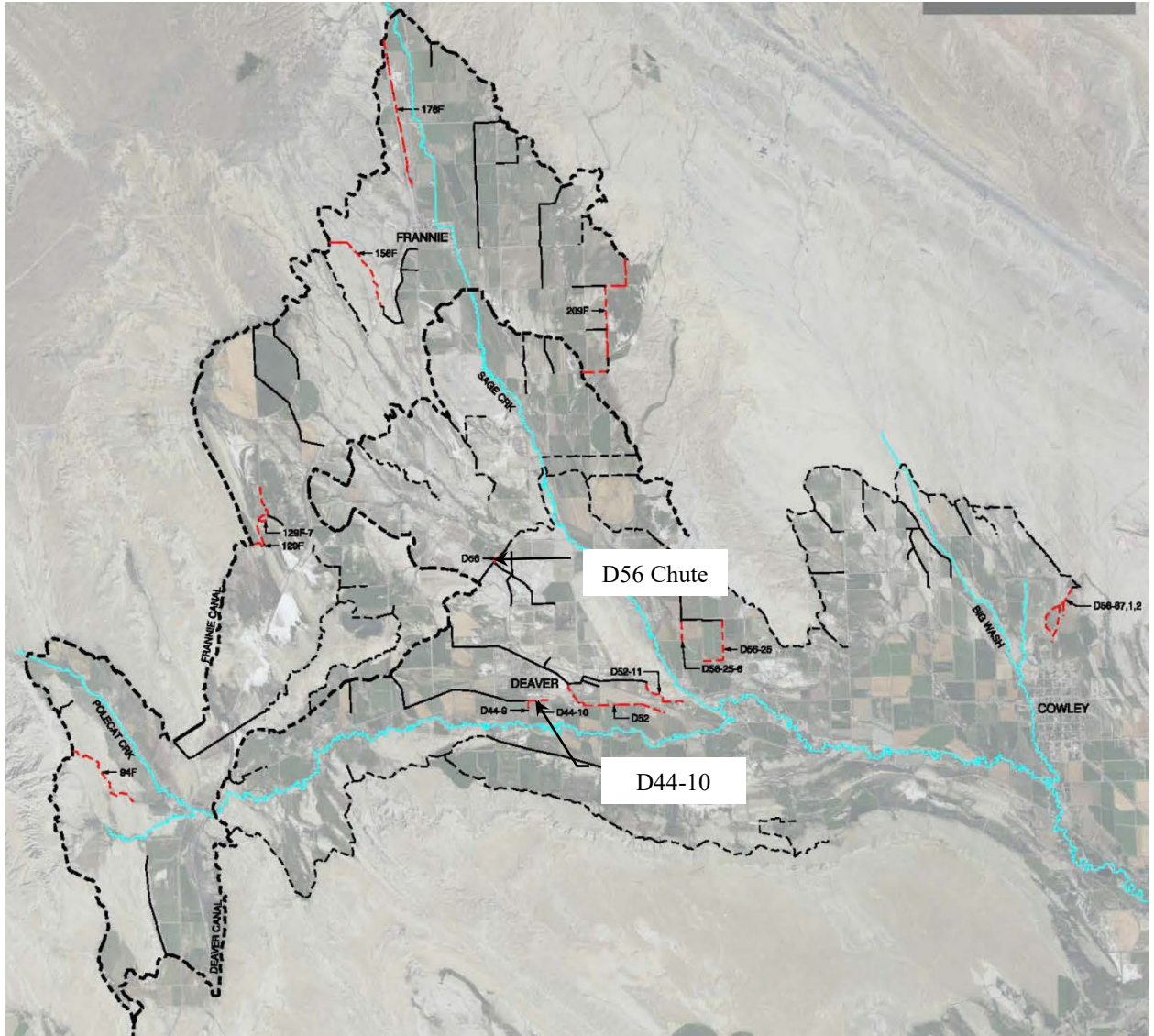
4. District Financing		
a. Is the assessment based on acres, acre-feet delivered, acre-feet of storage space, or other? Irrigable acres.		
b. How is voting authority delegated to water users? Irrigable acres.		
c. What is the per unit amount of the current assessment?	Pre-Project \$33.91	Post-Project \$33.91
d. If there is a basic service charge in addition to assessments, how much is it?	\$200.00	\$200.00

5. Financial Statement	Pre-Project	Post-Project
Annual revenues generated from assessments:	\$ 527,266	\$ 527,266
Annual revenues from other sources:	<u>\$ 112,198</u>	<u>\$ 112,198</u>
Total annual revenues:	\$ 639,464	\$ 639,464
Annual budget for operation and maintenance expenses:	\$ 47,564	\$ 47,564
Annual payments for debt retirement:	\$ 576,352	\$ 576,352
Annual payments to a repair and replacement fund:	\$ 15,548	\$ 15,548
Annual payments to an emergency fund:	\$ 0	\$ 0
Annual payments for other purposes:	<u>\$ 0</u>	<u>\$ 0</u>
Total annual payments:	\$ 634,464	\$ 634,464

Balance in repair and replacement fund:	\$	30,000	\$	30,000
Balance in emergency fund:	\$	93,000	\$	93,000

B. COMPARISON WITH OPERATING CRITERIA

1. Project Priority according to the Criteria? Account II, Priority 2 - Level III rehabilitation of existing irrigation canal
2. Will the project serve at least 2,000 water righted acres? Yes (District-wide) Number of acres 15,454 (District-wide)
3. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they? NRCS, BOR
4. What water conservation measures are employed by the sponsor? Installing additional measuring devices, placing open ditches into pipe, pressuring lines to facilitate sprinklers and pivots, SCADA, and automated gates.
5. Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds and emergency funds? Yes
6. Can the project be delayed or staged? No. Should it be? No. Facilities are leaking and/or otherwise partially failing, District will be able to complete work before next funding cycle, and amount of funding being requested is relatively low.
7. Basis for the funding recommendation: Project meets Operating Criteria for high priority project. The Sponsor has a good record of completing materials-only projects in the past.



Project Location Map



Concrete Ditch Portion of D44-10



Piped Portion of D44-10



D56 Chute



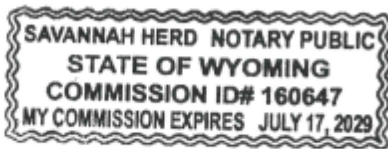
One of 30 Leaks in D56 Chute

RESOLUTION

As per motion and by unanimous vote by the Deaver Irrigation Board of Commissioners at a Regular Board Meeting of the Commissioners of the Deaver Irrigation District held on August 7th, 2023, the Board, by formal resolution, does hereby approve submitting an application to the Wyoming Water Development Commission, to apply for Level III construction funding in the amount of \$145,985.00 for a material's only grant. Through this resolution, the Board of Commissioners of the Deaver Irrigation District sets the following Agricultural Construction Projects funding request: Conversion of open dirt Lateral D44-10 into buried pipe, and replacement of the D56 Chute pipe. Both projects are listed within the Deaver Irrigation District Level 1, 2016 Master Plan Study.

Through this resolution, the Board of Commissioners of the Deaver Irrigation District authorize David Winner, Deaver Irrigation District Board President, to sign all necessary documents for the participation in the purposed program. The Board of Commissioners of the Deaver Irrigation District authorize Jerry Dart, Deaver Irrigation District Manager, to negotiate schedules for work completion and required meetings, order of projects, and funding reconciliation and reporting.

(Seal)



Deaver Irrigation District

A handwritten signature in blue ink that reads "David Winner".

David Winner, Board President

The foregoing was acknowledged before me by, David Winner this 7th day of August, 2023

A handwritten signature in blue ink that reads "Savannah Herd".

Notary Public

July 17, 2029

My commission expires:

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Dry Creek ID Phase V 2024

Program: Rehabilitation

Project Type: Agricultural Irrigation

County: Lincoln

Sponsor: Dry Creek Irrigation District (DCID)

WWDO Recommendation: Level III

Proposed Budget: \$777,000¹

¹ Project funding is contingent on the Legislature approving a \$7,000,000 transfer of funds from WDA I to WDA II.

WWDC Grant ² (50%)	\$ 777,000
<u>Sponsor³ (50%)</u>	<u>\$ 777,000</u>
Total	\$ 1,554,000

² Not to exceed 50% of eligible project costs

³ Sponsor or other funding source

Project Manager: Kaiser

Project Description: The Dry Creek Irrigation District is located in Star Valley just south of Afton, Wyoming. The District services approximately 3,600 acres for 230 landowners. The District is experiencing increasing lateral failures of the steel pipe that has been in the ground for more than 45 years. This Project is associated with replacing pipe for laterals LS-1 and LN-3 in their entirety, and is the fifth phase of pipe replacement for the District, as was recommended in the 2016 Dry Creek Irrigation District Infrastructure Master Plan.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2015	LII, DCID Infrastructure Master Plan	\$ 150,000
2017	LIII, DCID Pipeline Replacement 2017	\$ 670,000
2019	LIII, DCID Rehabilitation 2019	\$ 1,628,000
2020	LIII, DCID Transmission Pipeline Replacement 2020	\$ 1,340,000
2022	LIII, DCID Pipeline Replacement 2022	\$ 1,850,000

2. Describe existing water supply using information in the application.

The Dry Creek Irrigation System is supplied from Dry Creek at a diversion located ¾ of a mile up the Dry Creek canyon from its mouth. Water flows over an intake screen at the structure and into a 36" an asbestos cement transmission line down to a header pipe that runs north and south. Gravity pressurizes the nineteen miles of pipeline. The gravity fed, pressurized laterals have risers approximately every 40-50 feet. Individual irrigators connect to the risers to irrigate acreage along each of the laterals. Available pressure can range from 30-60 psi in the upper parts of the system and 60-100 psi in the lower parts of the system depending on property location and system demand.

3. Summarize the request.

The request is to replace 9,450 linear feet of LS-1 steel pipe and 2,000 linear feet of LN-3 steel pipe.

4. Summarize the reasons for the request.

Since its installation, this system has provided significant benefit for irrigators and instream conditions compared to the former irrigation practice. The system is significantly more efficient than flood irrigation, and provides for more water and a more reliable source for irrigators. It is essential that this system continue to operate to preserve the beneficial use of water and to support local livelihoods.

Estimated Level III WWDC Eligible Costs:

Preparation of Final Designs and Specifications	\$	109,040	
Site Access Permit Fees (BOR, USFS, etc.)	\$	0	
Title Opinion	\$	6,000	
Acquisition of Access and Rights of Way	\$	<u>0</u>	
Pre-Construction Costs (Subtotal # 1)			\$ 115,040
Cost of Project Components			
Mobilization and Traffic Control	\$	64,500	
Pipe	\$	819,000	
Fittings	\$	49,650	
Risers	\$	130,750	
Reclamation	\$	<u>26,500</u>	
Construction Cost (Subtotal #2)			\$ 1,090,400
Construction Engineering Costs (Subtotal # 2 x 10%)			<u>\$ 109,040</u>
Components and Engineering Costs (Subtotal # 3)			\$ 1,199,440
Contingency (Subtotal #3 x 15%)			<u>\$ 179,916</u>
Construction Cost Total (Subtotal #4)			\$ 1,379,356
Total Project Cost (Subtotal #1 + Subtotal #4)			\$ 1,494,396
Inflation Costs (4% per one year)			<u>\$ 59,776</u>
Total Project Costs			\$ 1,554,172
Total Project Costs (Rounded)			\$ 1,554,000
Level III Recommended Funding @ 50% Grant:			\$ 777,000

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information.	Pre-Project	Post-Project
a. Total acres are in the District?	3,642	3,642
b. Assessed acres?	3,525	3,525
c. Irrigated acres?	3,525	3,525
d. Average annual water delivery (acre-feet/acre assessed)?	3	3
e. How many individual landowners receive water?	234	234
f. What type(s) of on-farm irrigation water application is used?	Center Pivot, Side Roll, Hand Lines	
g. Briefly describe the main crops and cropping patterns:	Primary crops are alfalfa, barley & oats. Areas of field grass are mainly used as pasture for cattle and/or horses. Cropping patterns include crop rotation, and rotational following w/ some lawn irrigation.	
h. Describe the water measuring devices currently in use:	Flow meters have been installed on previous phases. Max nozzle size is 3/16 w/ one nozzle per 1.25 acres	
2. Water Usage	Pre-Project	Post-Project
a. Total water (AF) provided by the system annually:	10,300	10,300
b. Average Day Demand (AF):	60	60
c. Peak Day Demand (AF):	80	80
3. System Capacity:	Pre-Project	Post-Project
a. Maximum capacity of the water supply system (acre feet per day)	81	81
b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.):	<p>Pre: Failing water lines are resulting in leakage and pipe failure that results in irrigation lateral down time.</p> <p>Post: This project only addresses a portion of the failing lines. Leaks, breaks of old lines will continue to be the main issue.</p>	
c. Increased capacity needed (acre feet per day):	0	0
d. Estimated system water losses (percentage):	15%	15%

4. District Financing

a. Is the assessment based on acres, acre-feet delivered, acre-feet of storage space, or other?
Other - \$200 flat fee per landowner plus \$20 per acre

b. How is voting authority delegated to water users? Number of Acres

c. What is the per unit amount of the current assessment?	Pre-Project \$20.00	Post-Project \$20.00
---	------------------------	-------------------------

d. If there is a basic service charge in addition to assessments, how much is it?	\$200.00	\$200.00
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5. Financial Statement

	Pre-Project	Post-Project
Annual revenues generated from assessments:	\$ 138,000	\$ 138,000
Annual revenues from other sources:	\$ <u>0</u>	\$ <u>0</u>
Total annual revenues:	\$ 138,000	\$ 138,000

Annual budget for operation and maintenance expenses:	\$ 15,000	\$ 15,000
Annual payments for debt retirement:	\$ 0	\$ 0
Annual payments to a repair and replacement fund:	\$ 9,218	\$ 9,218
Annual payments to an emergency fund:	\$ 10,000	\$ 10,000
Annual payments for other purposes: (Sponsor share of project costs)	\$ <u>100,000</u>	\$ <u>100,000</u>
Total annual payments:	\$ 134,218	\$ 134,218

Balance in repair and replacement fund:	\$ 250,000	\$ 50,000
Balance in emergency fund:	\$ 100,000	\$ 110,000

B. COMPARISON WITH OPERATING CRITERIA

1. Project Priority according to the Criteria? Account II, Priority 2 - Level III rehabilitation of existing irrigation canals

2. Will the project serve at least 2,000 water righted acres? Yes Number of acres 3,525

3. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they? NRCS (EQIP), BOR (WaterSMART)

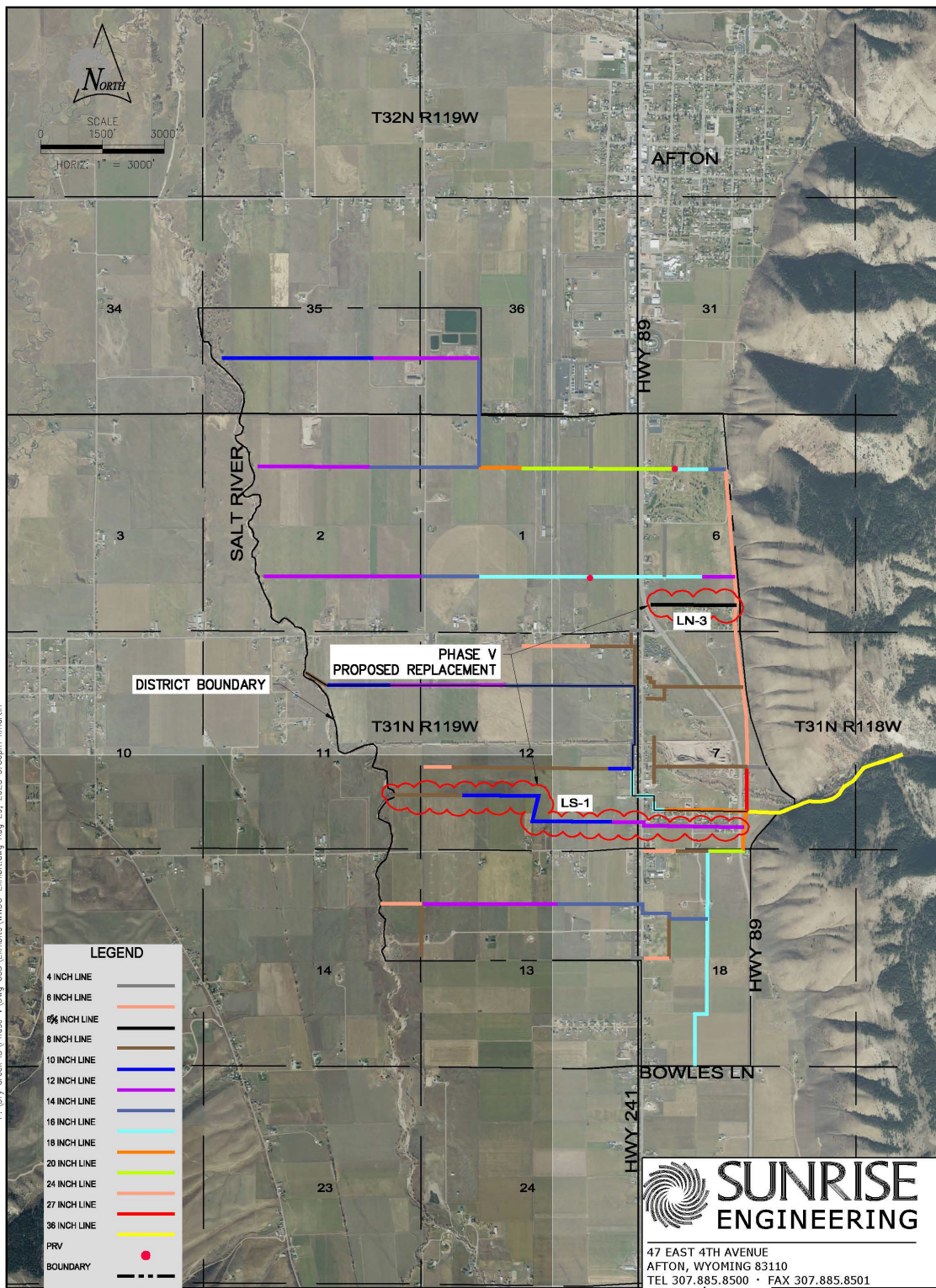
4. What water conservation measures are employed by the sponsor? By maintaining an operating pressure irrigation system, the District avoids inefficient flood irrigation methods

5. Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds and emergency funds? Yes, Current revenues cover operation and maintenance, short term repairs, and emergency funds. During the Level II Study, rates were increased for more investment into replacement costs.

6. Can the project be delayed or staged? Yes. Should it be? No. The District's pipeline is failing throughout, but replacing the entire system would have cost \$14,000,000. This Project is Phase V of the DCID irrigation system pipeline rehabilitation program. This staged approach allows the community to make incremental improvements that can be paid off from annual revenues.

7. Basis for the funding recommendation: Dry Creek Irrigation District is following the plan for pipe replacement as recommended in the 2016 Dry Creek ID Infrastructure Master Plan. Dry Creek has awarded a contract to construct Phase IV in the fall of 2023. Funding Phase V will allow them to continue

with the phased approach to continue the pipe replacement as recommended with at least one more phase after this one.



P:\Dry Creek ID\Phase V\Dig CAD\Exhibit\WADC-Exhibit.dwg Aug 29, 2023 5:56pm kmartin




Example of pipe deterioration – Dry Creek


RESOLUTION

The Board of Directors of Dry Creek Irrigation District hereby resolve that Dry Creek Irrigation District, on August 15, 2023, proceed with application for the Phase V pipe replacement project.

Dated this 18th day of August, 2023



Rollin Gardner, President



Kyle Veigel, Commissioner

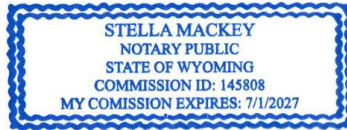


Daniel Erickson, Commissioner

STATE OF WYOMING:

:ss.

COUNTY OF LINCOLN:



Subscribed and sworn to in my presence this 18th day of August, 2023.



Notary Public

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Hanover ID Bighorn River
Flume Replacement 2024

Program: Rehabilitation

Project Type: Agricultural Irrigation

County: Washakie County

Sponsor: Hanover Irrigation District

WWDO Recommendation: Level III

Proposed Budget: \$1,500,000¹

¹ Project funding is contingent on the Legislature approving a \$7,000,000 transfer of funds from WDA I to WDA II.

WWDC Grant ² (50%)	\$ 1,500,000
<u>Sponsor³ (50%)</u>	<u>\$ 1,500,000</u>
Total	\$ 3,000,000

² Not to exceed 50% of eligible project costs

³ Sponsor or other funding source

Project Manager: Mallo

Project Description: The Project will replace the current 100-year-old flume and vehicle/pedestrian bridge, with a steel pipe flume just down river of the existing structure. It will replace the current wood decking on the existing bridge/flume to aid in access for construction and future maintenance by the District. The Project will also replace the existing manual check device with an automated check device to ensure an up-canal water diversion gets the correct controlled flow.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2018	Level I, Hanover ID Master Plan	\$ 290,768.00
2019	Level II, Hanover ID Flume	\$ 63,499.00

2. Describe existing water supply using information in the application.

The Hanover ID serves 13,329 acres and has a 500 CFS direct diversion from the Bighorn River via a gravity head gate. This diversion includes 70,000 acre-feet of reservoir storage from the Boysen Reservoir in Fremont County, which is approximately 50% of its water rights.

3. Summarize the request.

The request is for design, construction, and necessary infrastructure upgrades to provide adequate access to install a new pipe flume down river of the existing flume and then connect it to the existing canal at each end of the new flume. The Project will also replace the existing manual check device with an automated check device to ensure an up-canal water diversion gets the correct controlled flow.

4. Summarize the reasons for the request.

The current 100 year old flume/bridge that carries water over the Bighorn River is aging and would result in a disaster to Worland farmers if it fails. The flume carries water from west of the Bighorn River to east of the river and supplies three other irrigation districts besides the Hanover ID. The Project would replace the flume in the most reasonable and economic manner, by building a steel pipe flume down river of the existing flume while replacing the existing failed wooden decking on the existing structure to maintain access. This option was cheaper and affords the longer construction window than replacing the structure in kind and has less uncertainty and risk than installing a siphon under the river.

Estimated Level III WWDC Eligible Costs:

Preparation of Final Designs and Specifications	\$ 189,400	
Site Access Permit Fees (BOR, USFS, etc.)	\$ 65,500	
Title Opinion	\$ 2,000	
Acquisition of Access and Rights of Way	<u>\$ 13,000</u>	
Pre-Construction Costs (Subtotal # 1)		\$ 269,900
Cost of Project Components		
Steel Pipe Flume	\$ 1,608,000	
Replace Wood Decking	\$ 150,000	
Access Road Improvements	\$ 74,000	
Check Structure (Automated Gate)	<u>\$ 62,000</u>	
Construction Cost (Subtotal #2)		\$ 1,894,000
Construction Engineering Costs (Subtotal # 2 x 10%)		<u>\$ 189,400</u>
Components and Engineering Costs (Subtotal # 3)		\$ 2,083,400
Contingency (Subtotal #3 x 15%)		<u>\$ 312,510</u>
Construction Cost Total (Subtotal #4)		\$ 2,395,910
Total Project Cost (Subtotal #1 + Subtotal #4)		\$ 2,665,810
Inflation Costs (4% per Three year)		<u>\$ 332,864</u>
Total Project Costs		<u>\$ 2,998,674</u>
Total Project Costs (Rounded)		\$ 3,000,000
Level III Recommended Funding @ 50% Grant:		\$ 1,500,000

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information.	Pre-Project	Post-Project
a. Total acres are in the District?	13,329	13,329
b. Assessed acres?	13,329	13,329
c. Irrigated acres?	13,251	13,251
d. Average annual water delivery (acre-feet/acre assessed)?	7	7
e. How many individual landowners receive water?	520	520
f. What type(s) of on-farm irrigation water application is used? Center Pivot, Flood, Hand Line, and Side Roll		
g. Briefly describe the main crops and cropping patterns: Sugar Beets, Malt Barley, Corn, and Alfalfa as primary. Pinto Beans, Alfalfa Seed, Pasture, and Wheat as secondary.		

h. Describe the water measuring devices currently in use: Weirs, Flumes, and head gates throughout the system.

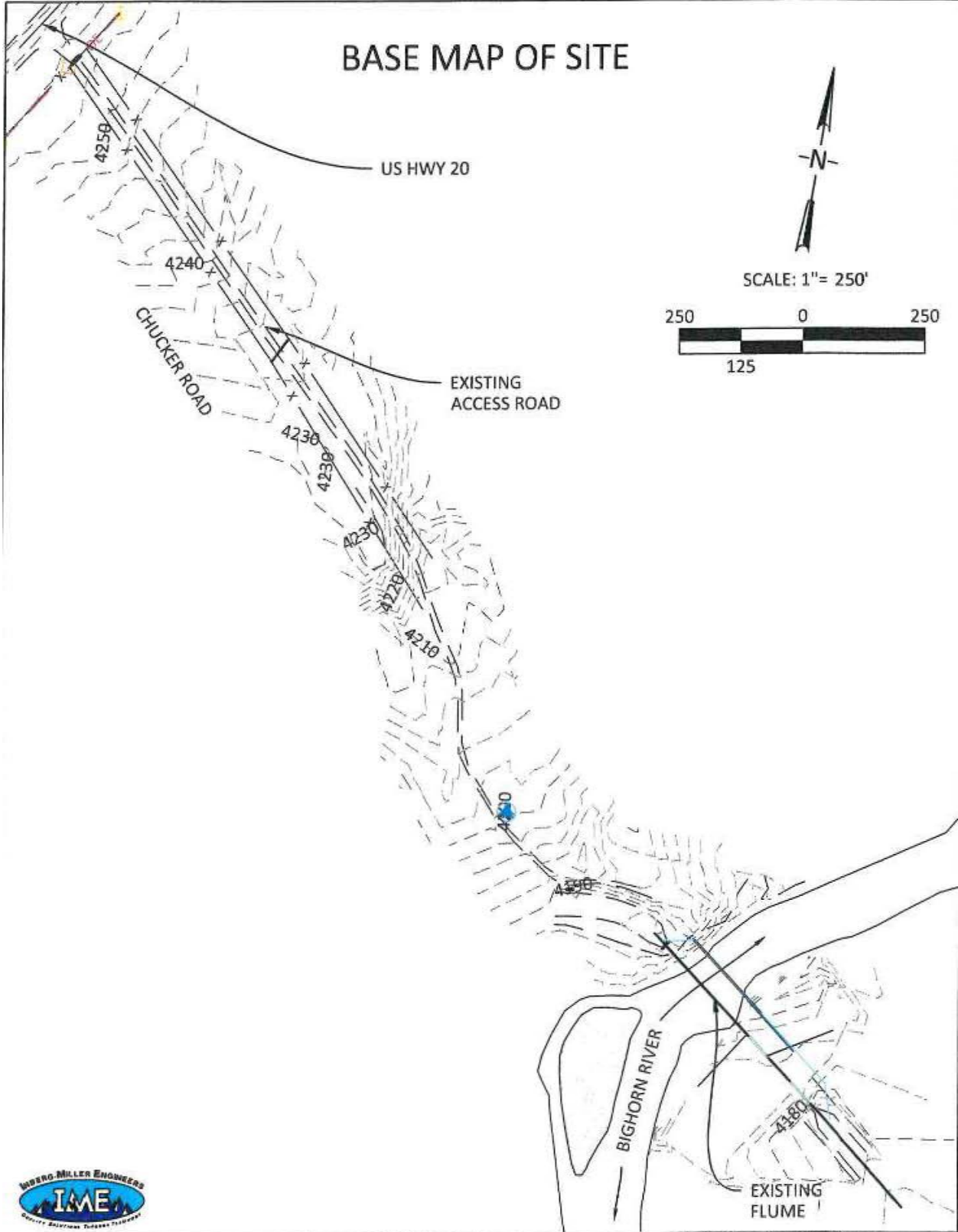
2. Water Usage	Pre-Project	Post-Project
a. Total water (AF) provided by the system annually:	162,000	162,000
b. Average Day Demand (AF):	900	900
c. Peak Day Demand (AF):	1,000	1,000
3. System Capacity:	Pre-Project	Post-Project
a. Maximum capacity of the water supply system (acre feet per day)	1,000	1,000
b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.):	N/A	N/A
c. Increased capacity needed (acre feet per day):	0	0
d. Estimated system water losses (percentage):	15%	14%
4. District Financing		
a. Is the assessment based on acres, acre-feet delivered, acre-feet of storage space, or other? Acres		
b. How is voting authority delegated to water users? Number of Acres		
c. What is the per unit amount of the current assessment?	Pre-Project 18.00	Post-Project 24.42
d. If there is a basic service charge in addition to assessments, how much is it?	N/A	N/A
5. Financial Statement	Pre-Project	Post-Project
Annual revenues generated from assessments:	\$ 239,000	\$ 324,530
Annual revenues from other sources:	\$ 8,900	\$ 8,900
Total annual revenues:	\$ 247,900	\$ 333,430
Annual budget for operation and maintenance expenses:	\$ 211,350	\$ 211,350
Annual payments for debt retirement:	\$ 0	\$ 85,530
Annual payments to a repair and replacement fund:	\$ 200	\$ 200
Annual payments to an emergency fund:	\$ 0	\$ 0
Annual payments for other purposes:	\$ 0	\$ 0
Total annual payments:	\$ 211,550	\$ 297,080
Balance in repair and replacement fund:	\$ 188,000	\$ 188,000
Balance in emergency fund:	\$ 2,220	\$ 2,220

B. COMPARISON WITH OPERATING CRITERIA

1. Project Priority according to the Criteria? Account II, Priority 1 – Level III Rehabilitation of water control structure
2. Will the project serve at least 2,000 water righted acres? Yes Number of acres 13,329
3. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they? Plan to apply for WFPO through NRCS in 2024 and are applying for WaterSMART grant through BOR in 2023.
4. What water conservation measures are employed by the sponsor? Portions of the system are being lined and piped. The District is also starting to automate structures to better manage dispersal of water over the system.
5. Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds and emergency funds? Yes
6. Can the project be delayed or staged? No. Should it be? No, the flume is a critical portion of the system and near failure, with potential catastrophic repercussions to the District.
7. Basis for the funding recommendation: The existing flume/bridge is over 100 years old and serves 2 of the 4 districts in the valley. Failure would result in most, to all of the valley losing irrigation water and directly prevent 20,461 acres for the Hanover and Highland districts downstream of the flume from receiving irrigation water.



BASE MAP OF SITE



INBERG-MILLER ENGINEERS

124 East Main Street | 1120 East C Street | 350 Parsley Boulevard | 193 West Flaming Gorge Way | 804 E Richards St | 1300 East US Hwy 14-16
 Riverton, WY 82501 | Casper, WY 82501 | Cheyenne, WY 82007 | Green River, WY 82905 | Douglas, WY 82633 | Gillette, WY 82716
 307-856-8136 | 307-577-0806 | 307-835-6827 | 307-875-4394 | 307-359-7000 | 307-682-5000

SCALE	HORZ	1"=250'	VERT
DRN. SRH	BK: ----	JOB NO. 20016-RE	
CHK. SMB	PAGE: ----	DATE: 6-27-19	



Overall Picture of the Flume



Leaks from the Flume Joints

RESOLUTION NO. 03-23

Entitled: A RESOLUTION AUTHORIZING APPROVAL TO REQUEST A GRANT FROM THE WYOMING WATER DEVELOPMENT COMMISSION FOR LEVEL III FUNDING FOR A CONSTRUCTION FUNDING FOR THE HANOVER IRRIGATION DISTRICT NEAR WORLAND WYOMING.

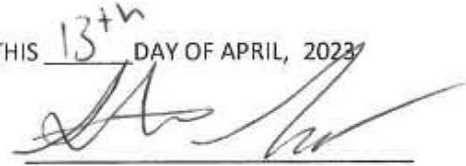
WITNESSETH

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BODY OF THE HANOVER IRRIGATION DISTRICT IN WORLAND WYOMING:

1. The Hanover Irrigation District Board requests Level III Construction Funding grant through the Wyoming Water Development Commission for the Level III Construction Funding of the above mentioned irrigation district.

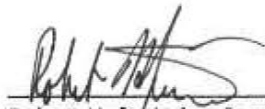
BE IT FURTHER RESOLVED, that Steven Snyder, District President is hereby designated as the authorized representative of the Hanover Irrigation District, to act on behalf of the Governing Body on all matters relating to this Level funding request.

PASSED, APPROVED AND ADOPTED THIS 13th DAY OF APRIL, 2023



Steven Snyder
District President

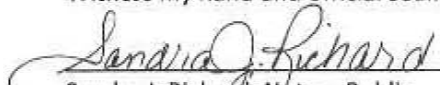
ATTEST:


Robert Hefenieder, Secretary

STATE OF WYOMING)
COUNTY OF WASHAKIE)

The foregoing instrument was acknowledged before me by Steven Snyder and Robert Hefenieder, this 13th day of April, 2023.

Witness my hand and official seal:


Sandra J. Richard, Notary Public



2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Kirby Ditch ID Pipeline Phase II 2024 **Program:** Rehabilitation

Project Type: Agricultural Irrigation **County:** Hot Springs

Sponsor: Kirby Ditch Irrigation District

WWDO Recommendation: Level III **Proposed Budget:** \$1,882,500¹

¹ Project funding is contingent on the Legislature approving a \$7,000,000 transfer of funds from WDA I to WDA II.

WWDC Grant ² (50%)	\$ 1,882,500
<u>Sponsor³ (50%)</u>	<u>\$ 1,882,500</u>
Total	\$ 3,765,000

² Not to exceed 50% of eligible project costs

³ Sponsor or other funding source

Project Manager: Brich

Project Description: The Kirby Ditch Irrigation District is seeking funding to complete the scope of work for the original Kirby Ditch Irrigation District 2020 project, which was reduced due to cost escalations related to COVID. Phase II of the Project includes a pipeline intake structure, converting two segments of open ditch to pipeline, and appurtenances necessary to make the Project function in the manner intended.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2018	L-II, Kirby Ditch Rehabilitation	\$ 100,000
2020	L-III, Kirby Ditch Irrigation District Pipeline	\$ 2,310,000

2. Describe existing water supply using information in the application.

The Kirby Ditch Irrigation District (KDID) has a Bighorn River direct flow diversion of 86 cfs and 3,200 acre-feet of water from Boysen Reservoir under temporary contract.

3. Summarize the request.

This funding request is the second phase of the KDID Pipeline 2020 project, which includes funding requests for a pipeline intake structure, the conversion of two segments of open ditch to pipeline (5,500 LF), and appurtenances necessary to make the Project function in the manner intended.

4. Summarize the reasons for the request.

The original scope of the Kirby Ditch Irrigation District Pipeline 2020 project was to convert 2.6 miles of problematic open ditch to buried pipeline. The lower reach of the Kirby Ditch skirts a steep hillside for approximately ½ mile, and is susceptible to seepage and instability. Steep erosive slopes to the east frequently slough into the ditch reducing capacity by obstructing flow, and increasing the potential of a canal breach. Other issues in the original scope of work include limited access for monitoring and maintenance activities, sedimentation from the adjacent Coal Draw, and seepage issues.

The KDID Pipeline 2020 project cost was affected by land access issues with the Wyoming Office of State Lands, inflation, and supply chain issues related to COVID. It was determined that a phased approach would be the best path forward to construct as much of the original project as possible with the available funds. The scope of the 2020 project was reduced to 1.4 miles of pipeline along the steep

hillside and a failing siphon, which are under contract to be installed in the fall of 2023. Design and land access for Phase II of the project were completed under the 2020 project. The scope of the Phase II project includes an intake structure for the pipeline and two segments of pipeline (5,500 LF), which were originally within the scope of the 2020 project. KDID is applying for other funding assistance, and once that is secure the Phase II project will be ready to be advertised.

Estimated Level III WWDC Eligible Costs:

Preparation of Final Designs and Specifications	\$ 65,000	
Site Access Permit Fees (BOR, USFS, etc.)	\$ 10,000	
Title Opinion	\$ 2,000	
Acquisition of Access and Rights of Way	<u>\$ 0</u>	
Pre-Construction Costs (Subtotal # 1)		\$ 77,000
Cost of Project Components		
Mobilization	\$ 255,000	
Site Preparation and Reclamation	\$ 87,000	
Pipe	\$ 1,960,000	
Fittings	\$ 207,000	
Field Turnout and Delivery Assemblies	\$ 264,000	
Vents, cleanouts and drains	<u>\$ 28,000</u>	
Construction Cost (Subtotal #2)		\$ 2,801,000
Construction Engineering Costs (Subtotal # 2 x 10%)		<u>\$ 280,100</u>
Components and Engineering Costs (Subtotal # 3)		\$ 3,081,100
Contingency (Subtotal #3 x 15%)		<u>\$ 462,165</u>
Construction Cost Total (Subtotal #4)		\$ 3,543,265
Total Project Cost (Subtotal #1 + Subtotal #4)		\$ 3,620,265
Inflation Costs (4% per one year)		<u>\$ 144,811</u>
Total Project Costs		\$ 3,765,076
Total Project Costs (Rounded)		\$ 3,765,000
Level III Recommended Funding @ 50% Grant:		\$ 1,882,500

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information.	Pre-Project	Post-Project
a. Total acres are in the District?	5,454	5,454
b. Assessed acres?	3,322	3,322
c. Irrigated acres?	2,970	3,322
d. Average annual water delivery (acre-feet/acre assessed)?	8	8
e. How many individual landowners receive water?	53	53

f. What type(s) of on-farm irrigation water application is used? Flood, side roll, center pivot

g. Briefly describe the main crops and cropping patterns: Irrigated pasture, grass hay, alfalfa hay, some row crops, beans, barley, corn

h. Describe the water measuring devices currently in use: State Engineer's Office gaging station below the headgate

2. Water Usage	Pre-Project	Post-Project
a. Total water (AF) provided by the system annually:	25,733	25,733
b. Average Day Demand (AF):	141	148
c. Peak Day Demand (AF):	190	200

3. System Capacity:	Pre-Project	Post-Project
a. Maximum capacity of the water supply system (acre feet per day)	210	220
b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.):	failing canal, algae, seepage	algae, seepage
c. Increased capacity needed (acre feet per day):	0	0
d. Estimated system water losses (percentage):	8%	3%

4. District Financing		
a. Is the assessment based on acres, acre-feet delivered, acre-feet of storage space, or other? Acres		
b. How is voting authority delegated to water users? Shares-one acre equals one share		
c. What is the per unit amount of the current assessment?	Pre-Project \$8.50	Post-Project \$27.50
d. If there is a basic service charge in addition to assessments, how much is it?	\$75.00	\$75.00

5. Financial Statement	Pre-Project	Post-Project
Annual revenues generated from assessments:	\$ 33,008	\$ 105,320
Annual revenues from other sources:	\$ 0	\$ 0
Total annual revenues:	\$ 33,008	\$ 105,320
Annual budget for operation and maintenance expenses:	\$ 22,000	\$ 22,000
Annual payments for debt retirement:	\$ 0	\$ 68,884
Annual payments to a repair and replacement fund:	\$ 0	\$ 0
Annual payments to an emergency fund:	\$ 189	\$ 189
Annual payments for other purposes:	\$ 0	\$ 0
Total annual payments:	\$ 22,189	\$ 91,073

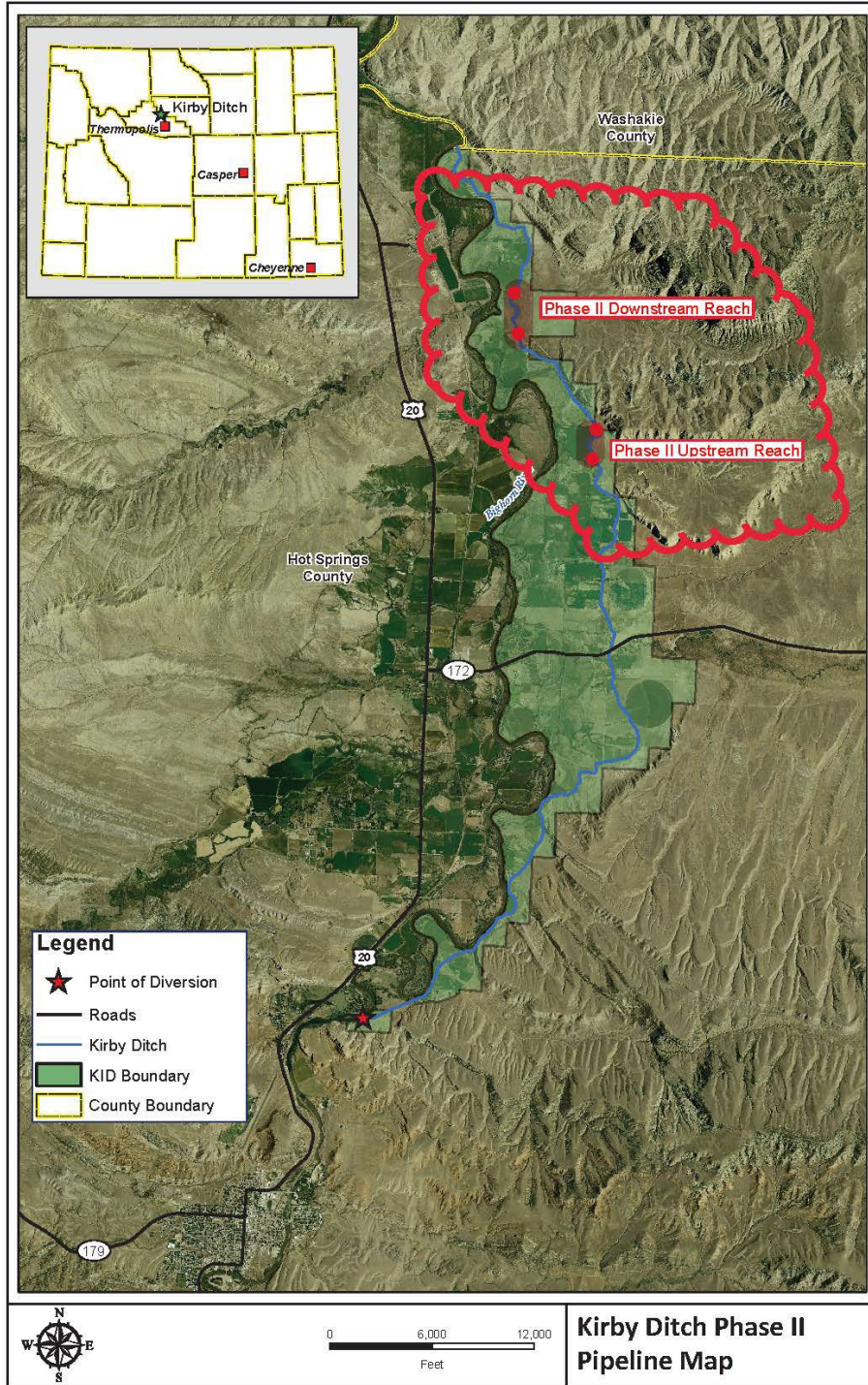
Balance in repair and replacement fund:	\$	20,000	\$	20,000
Balance in emergency fund:	\$	6,671	\$	7,049

B. COMPARISON WITH OPERATING CRITERIA

1. Project Priority according to the Criteria? Account II, Priority 2 - Rehabilitation of existing irrigation canals
2. Will the project serve at least 2,000 water righted acres? Yes Number of acres 5,454
3. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they? Bureau of Reclamation WaterSMART; Natural Resources Conservation Service
EQIP
4. What water conservation measures are employed by the sponsor? Re-profiling the canal, concrete canal lining, center pivots, gated irrigation pipe, and underground transmission pipelines
5. Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds and emergency funds? Yes
6. Can the project be delayed or staged? Yes Should it be? No, Design and land acquisition are complete so the project should be able to be constructed once State and Federal funding is secured. There are two segments of pipeline and an intake structure left to be constructed from the original 2020 project. If the project needs to be staged, the Phase II scope could be reduced to construct one of the pipeline segments.
7. Basis for the funding recommendation: Due to the large volume of Level III Rehabilitation applications in 2024, fund this project at 50% Grant and 50% Sponsor provided.

Project Map

wywdc28 Final Report Ch 1 Introduction.doc



1.2

Anderson Consulting Engineers, Inc.

Project Photos



Kirby Ditch to the left under hillslope



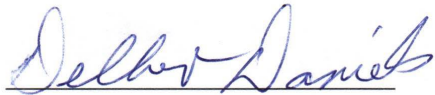
Kirby Ditch in slide prone area

RESOLUTION

The Directors of the Kirby Ditch Irrigation District at their Commissioner's Meeting on August 21, 2023, adopted the following resolutions pertaining to Kirby Ditch Lower Pipeline Project Phase II:

- A. The Board of Directors has reviewed the Wyoming Water Development Commission Level II application and supports the application submission.
- B. The Kirby Ditch Irrigation District will work with Wyoming Water Development Commission to meet established deadlines for the Level II Application.

In witness whereof, the Kirby Ditch Irrigation District has executed this Resolution on the 21th of August, 2023.



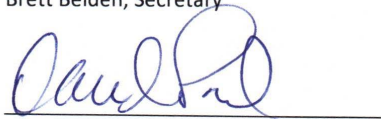
Delbert Daniels, President



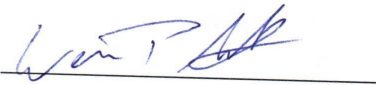
Dee Hillberry, Vice President



Brett Belden, Secretary



Dawn Peil, Treasurer

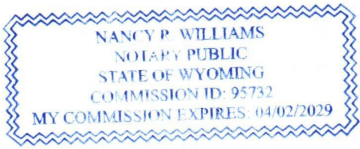


Warren Axtell

STATE OF WYOMING)
) ss.
COUNTY OF HOT SPRINGS)

The foregoing Resolution was acknowledged before me by Delbert Daniels, President; Dee Hillberry, Vice-President; Brett Belden, Secretary; Dawn Pell, Treasurer; and Warren Axtell, as the Directors of the Kirby Ditch Irrigation District, this 30th day of August, 2023.

Witness my hand and official seal.



Nancy R. Williams
Notary Public
My Commission Expires: April 2, 2029

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Laramie Dowlin Diversion
Rehabilitation 2024

Program: Rehabilitation

Project Type: Agricultural Irrigation

County: Albany

Sponsor: City of Laramie

WWDO Recommendation: Level III

Proposed Budget: \$1,137,500¹

¹ Project funding is contingent on the Legislature approving a \$7,000,000 transfer of funds from WDA I to WDA II.

WWDC Grant ² (50%)	\$ 1,137,500
<u>Sponsor³ (50%)</u>	<u>\$ 1,137,500</u>
Total	\$ 2,275,000

² Not to exceed 50% of eligible project costs

³ Sponsor or other funding source

Project Manager: Mallo

Project Description: The City of Laramie is requesting funding to rehabilitate the Dowlin Diversion as evaluated in the Dowlin Diversion Rehabilitation Level II Study completed in 2023. The study determined the slide gates leak, the structure is unsafe and difficult to operate, and that the diversion is a barrier to fish passage on the Laramie River. This Project would rehabilitate the structure, replace the slide gates, and add fish passage to the diversion.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2017	L-I Laramie Water Master Plan	\$ 250,000
2018	L-I Upper Laramie River Watershed Study	\$ 375,000
2023	L- II Dowlin Diversion Rehabilitation	\$ 110,000

2. Describe existing water supply using information in the application.

The Dowlin Diversion consists of a diversion dam and intake structure on the Laramie River. The structure provides irrigation water to approximately 2,527 acres.

3. Summarize the request.

The Project proposes to remove the existing Dowlin Diversion and replace it with an updated diversion with SCADA controlled gates and fish passage.

4. Summarize the reasons for the request.

The existing diversion has reached the end of its useful life, and the manual operated gates are becoming difficult to operate and maintain. The rehabilitation of the diversion will improve efficiency and reliability of irrigation water delivery, provide operation safety, reduce maintenance costs, and provide fish passage.

Estimated Level III WWDC Eligible Costs:

Preparation of Final Designs and Specifications	\$ 147,900	
Site Access Permit Fees (BOR, USFS, etc.)	\$ 2,000	
Title Opinion	\$ 2,000	
Acquisition of Access and Rights of Way	<u>\$ 0</u>	
Pre-Construction Costs (Subtotal # 1)		\$ 151,900
Cost of Project Components		
Mobilization	\$ 110,000	
Dewatering	\$ 75,000	
Earthwork	\$ 132,000	
Diversion	\$ 780,000	
Gates	<u>\$ 382,000</u>	
Construction Cost (Subtotal #2)		\$ 1,479,000
Construction Engineering Costs (Subtotal # 2 x 10%)		<u>\$ 147,900</u>
Components and Engineering Costs (Subtotal # 3)		\$ 1,626,900
Contingency (Subtotal #3 x 15%)		<u>\$ 244,035</u>
Construction Cost Total (Subtotal #4)		\$ 1,870,935
Total Project Cost (Subtotal #1 + Subtotal #4)		\$ 2,022,835
Inflation Costs (4% per three years)		\$ 252,579
Total Project Costs		\$ 2,275,414
Total Project Costs Rounded		\$ 2,275,000
Level III Recommended Funding @ 50% Grant:		\$ 1,137,500

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information.	Pre-Project	Post-Project
a. Total acres are in the District?	2,527	2,527
b. Assessed acres?	0	0
c. Irrigated acres?	2,527	2,527
d. Average annual water delivery (acre-feet/acre assessed)?	0	0
e. How many individual landowners receive water?	2	2
f. What type(s) of on-farm irrigation water application is used? Center Pivot, Flood		
g. Briefly describe the main crops and cropping patterns: Grass Hay and Alfalfa		
h. Describe the water measuring devices currently in use: Teledyne data loggers w/ A/U or ultrasonic sensors, flumes, and weirs		

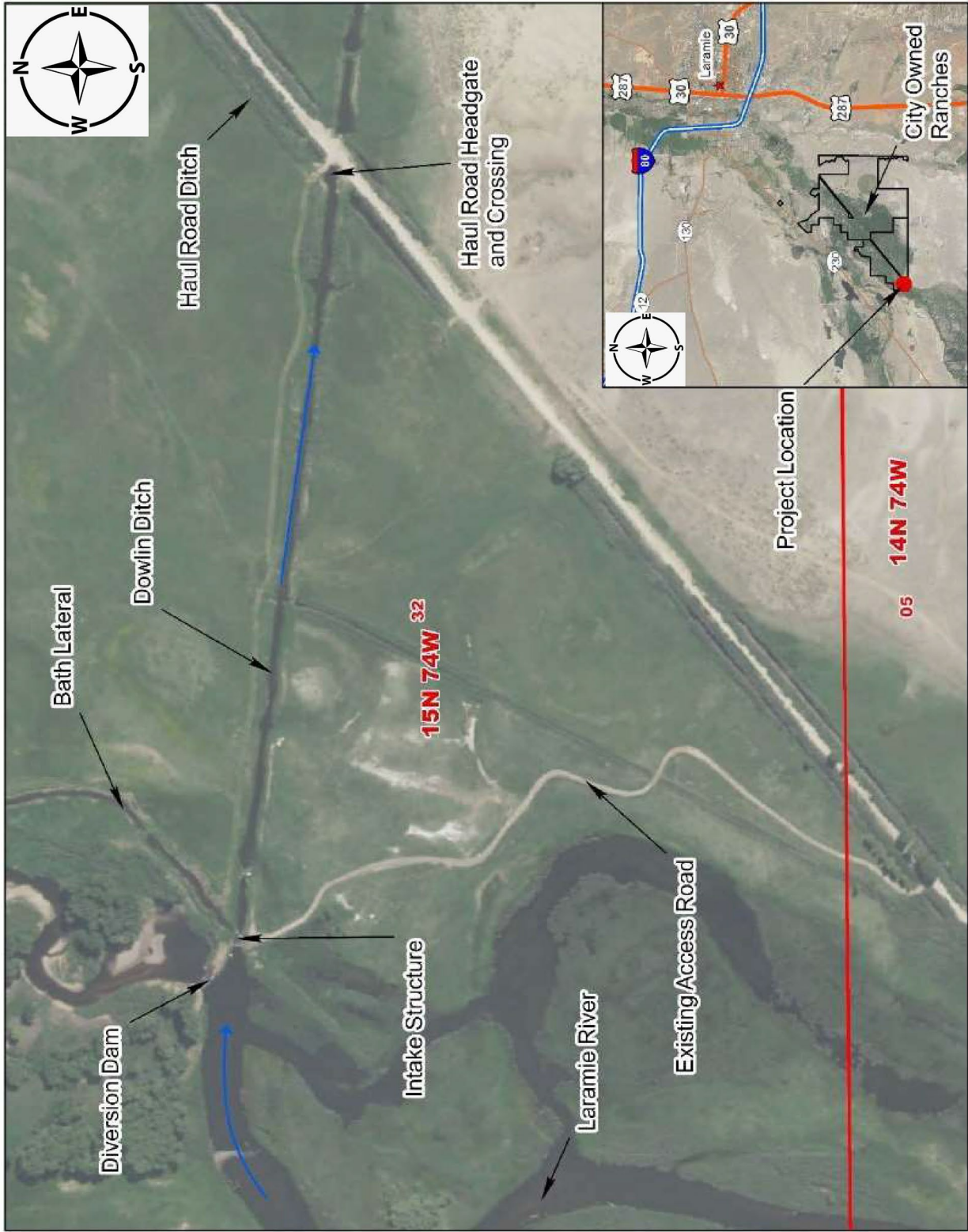
2. Water Usage	Pre-Project	Post-Project
a. Total water (AF) provided by the system annually:	7,200	7,200
b. Average Day Demand (AF):	60	60
c. Peak Day Demand (AF):	72	72
3. System Capacity:	Pre-Project	Post-Project
a. Maximum capacity of the water supply system (acre feet per day)	100	100
b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.):	Diversion	Canals
c. Increased capacity needed (acre feet per day):	0	0
d. Estimated system water losses (percentage):	20%	15%
4. District Financing		
a. Is the assessment based on acres, acre-feet delivered, acre-feet of storage space, or other? Other, this is a City owned property		
b. How is voting authority delegated to water users? City Council		
c. What is the per unit amount of the current assessment?	Pre-Project 0	Post-Project 0
d. If there is a basic service charge in addition to assessments, how much is it?	0	0

5. Financial Statement	Pre-Project	Post-Project
Annual revenues generated from assessments:	\$ 0	\$ 0
Annual revenues from other sources	\$ 100,000	\$ 100,000
Annual funding from City Budget:	<u>\$ 515,850</u>	<u>\$ 515,850</u>
Total annual revenues:	\$ 615,850	\$ 615,850
Annual budget for operation and maintenance expenses:	\$ 615,850	\$ 615,850
Annual payments for debt retirement:	\$ 0	\$ 0
Annual payments to a repair and replacement fund:	\$ 0	\$ 0
Annual payments to an emergency fund:	\$ 0	\$ 0
Annual payments for other purposes:	<u>\$ 0</u>	<u>\$ 0</u>
Total annual payments:	\$ 615,850	\$ 615,850
Balance in repair and replacement fund:	\$ 0	\$ 0
Balance in emergency fund:	\$ 0	\$ 0

B. COMPARISON WITH OPERATING CRITERIA

1. Project Priority according to the Criteria? Account II, Priority 1 – Level III Rehabilitation of water diversion structure
2. Will the project serve at least 2,000 water righted acres? Yes Number of acres 2,527
3. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they? NRCS EQIP, USFWS Fish Passage Program, LWCF, WWNRT, the LRCD Rural Cost Share Program, and BOR WaterSMART Program
4. What water conservation measures are employed by the sponsor? Pivots are being installed to conserve irrigation water.
5. Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds and emergency funds? Yes
6. Can the project be delayed or staged? Yes. Should it be? No. The Diversion structure is failing and delays may cause additional issues.
7. Basis for the funding recommendation: The City currently has two projects they are wrapping up. This project is needed to reduce the potential of future issues. The City has reported that other funding sources are likely to be secured.

Project Map





Dowlin Diversion viewed from upstream



Dowlin Diversion viewed from downstream

**CITY OF LARAMIE, WYOMING
RESOLUTION 2023-63**

**RESOLUTION AUTHORIZING THE SUBMISSION OF AN APPLICATION TO THE
WYOMING WATER DEVELOPMENT COMMISSION (WWDC) FOR LEVEL III
CONSTRUCTION GRANT AND LOAN FUNDING FOR THE DOWLIN DIVERSION
REHABILITATION AND FISH PASSAGE PROJECT**

WHEREAS, the City of Laramie, Wyoming (herein after referred to as "City") adopted the Monolith Ranch Committee Management and Long-Term Goals and Objectives, Resolution 2017-56; and,

WHEREAS, the Goals and Objectives included the preservation and protection of the Laramie River and protecting riparian/wetland areas and irrigated meadows while continuing current ranching activities to realize a revenue return to the City; and,

WHEREAS, the Dowlin Diversion structure on the Laramie River is nearing its useful service life and in poor condition and it is necessary to rehabilitate the diversion dam and intake structure to meet the City's long-term goals of water transfer; and,

WHEREAS, in 2016, the Upper Laramie Watershed Study listed the Dowlin Diversion Dam as a complete barrier to fish passage on the Laramie River; and,

WHEREAS, the Wyoming Game and Fish Department (WGFD) ranked the Dowlin Diversion as one of two structures on the river of highest concern for impeding fish passage; and,

WHEREAS, the City of Laramie values partnership opportunities with other entities; and,

WHEREAS, in partnership with the Wyoming Water Development Commission, the City of Laramie has completed a Level II Study of the Dowlin Diversion structure and identified a preferred alternative for replacing structure that will facilitate ease and safety of use, as well as provide fish passage during most flow rates; and,

WHEREAS, the Level II study has been accepted as complete by the City Council on July 18, 2023; and,

NOW, THEREFORE, THE GOVERNING BODY OF THE CITY OF LARAMIE, WYOMING, DOES HEREBY:

Section 1. Authorize the submission of an application for Level III Construction funding in an amount up to \$2,359,000.00, with a request that the WWDC allocate 50% as a Grant and 50% as a Loan; and,

Section 2. Authorizes the City Manager to act as signatory for the project and to support the ongoing work of staff to identify prospective potential funding partners in an effort to secure additional grants as necessary to fund the project to completion.

PASSED, APPROVED, AND ADOPTED the 15th day of August 2023.



Brian Harrington
Brian Harrington
Mayor and President of the City Council

ATTEST:

Nancy Bartholomew
Nancy Bartholomew, CMC
City Clerk

ACKNOWLEDGEMENT

STATE OF WYOMING)
) SS
COUNTY OF ALBANY)

The foregoing instrument was acknowledged before me by Brian Harrington and Nancy Bartholomew, the Mayor and City Clerk of the City of Laramie, Wyoming, this 15th day of August, 2023.

Witness my hand and official seal.

Nancy A. Oakland-Potter
Notary Public

My Commission expires: May 29, 2028.

NANCY A. OAKLAND-POTTER
Notary Public - State of Wyoming
Commission ID # 161479
My Commission Expires
May 29, 2028

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Lovell Bench Lateral 2024

Program: Rehabilitation

Project Type: Agricultural Irrigation

County: Park and Big Horn

Sponsor: Lovell Irrigation District

WWDO Recommendation: Level III

Proposed Budget: \$1,448,000¹

¹ Project funding is contingent on the Legislature approving a \$7,000,000 transfer of funds from WDA I to WDA II.

WWDC Grant ²	\$ 1,448,000
<u>Sponsor's cost³</u>	<u>\$ 1,442,000</u>
Total	\$ 2,890,000

² 100% materials only grant not to exceed \$1,448,000

³ Sponsor's share is all costs (engineering, construction staff and equipment, fuel, etc., ~\$1,080,000) and materials in excess of \$1,448,000

Project Manager: Verplancke

Project Description: The Bench Lateral Project will consist of converting 5,300 feet of irrigation canal to pipe and will be the fifth phase of enclosing the lateral.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2009	Level III, Ditch to pipe conversion	\$ 432,000
2012	Level III, canal rehabilitation	\$ 299,000
2014	Level III, Ditch to pipe conversion	\$ 889,000
2016	Level I, Master Plan	\$ 165,000
2019	Level III, Ditch to pipe conversion	\$ 1,670,000
2022	Level III, Ditch to pipe conversion	\$ 991,000

2. Describe existing water supply using information in the application.

The Lovell Irrigation District (LID) supplies water to lands on the south side of the Shoshone River near the towns of Byron and Lovell, Wyoming. LID diverts water from the Shoshone River at Mormon Dam into the Elk-Lovell Canal southeast of Powell, Wyoming. The Elk-Lovell Canal is the product of enlargements and extensions of the Roane Canal and Elk Ditch. The upper 12 miles of the canal is shared with the Elk Water Users Association which irrigates approximately 3,800 acres to the west of Coon Creek. LID shares expenses with the Elk Water User Association along this reach of the canal. Downstream (east) of Coon Creek, the Lovell Canal consists of 26 miles of main canal and 7.5 miles of laterals (Bench and Moncur), irrigating roughly 11,200 acres. The majority of the District remains as open ditch with the exception of the Bench Lateral, over 75% of which has been converted to pipeline. Major structures include the Mormon Dam, eight siphons, and four pipe drops. The Bench Lateral irrigates 2,900 acres. The District has no storage reservoirs.

3. Summarize the request.

This Project is the last phase of the Bench Lateral enclosure. This application is for a materials only grant. The Project will enable the Lovell Irrigation District to convert approximately 5,300 LF of the Bench Lateral to pipe. It will allow the Irrigation District to recoup some of the water losses due to

erosion and water seepage, reduce maintenance on the system and have better control of the water.

4. Summarize the reasons for the request.

Piping the Bench Lateral will prevent erosion, reduce seepage, reduce maintenance, and facilitate better control of the water. The sponsor has completed previous projects with the formula of using WWDC grant funds to purchase materials and providing other funding to pay a contractor to construct and install the project. The plan is to repeat the formula with this project.

Estimated Level III WWDC Eligible Costs:

Cost of Project Components

Pipe	\$	995,000
Fittings	\$	25,000
Valves	\$	165,000
Steel	\$	138,000
Concrete	\$	58,500
Bedding material	\$	77,000
Misc.	\$	54,300

Construction Cost (Subtotal #1)	\$ 1,512,800
Contingency (Subtotal #1 x 15%)	\$ <u>226,920</u>
Construction Cost Total (Subtotal #2)	\$ 1,739,720
Inflation Costs (4% per one year)	\$ <u>69,589</u>
Total Project Costs	\$ 1,809,309
Total Project Costs (Rounded)	\$ 1,810,000
Level III Recommended Funding @ 80% Grant:	\$ 1,448,000

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information.	Pre-Project	Post-Project
a. Total acres are in the District?	10,858	10,858
b. Assessed acres?	10,858	10,858
c. Irrigated acres?	9,601	9,601
d. Average annual water delivery (acre-feet/acre assessed)?	13	13
e. How many individual landowners receive water?	266	266
f. What type(s) of on-farm irrigation water application is used? Typically flood irrigation with gated pipe with some center pivot and side roll.		
g. Briefly describe the main crops and cropping patterns: The main crops grown in the District are sugar beets, corn, barley, alfalfa and beans.		

h. Describe the water measuring devices currently in use: Weirs and parshall flumes. A flow meter was installed in the first phase of this project.

2. Water Usage	Pre-Project	Post-Project
a. Total water (AF) provided by the system annually:	141,000	141,000
b. Average Day Demand (AF):	792	792
c. Peak Day Demand (AF):	824	824

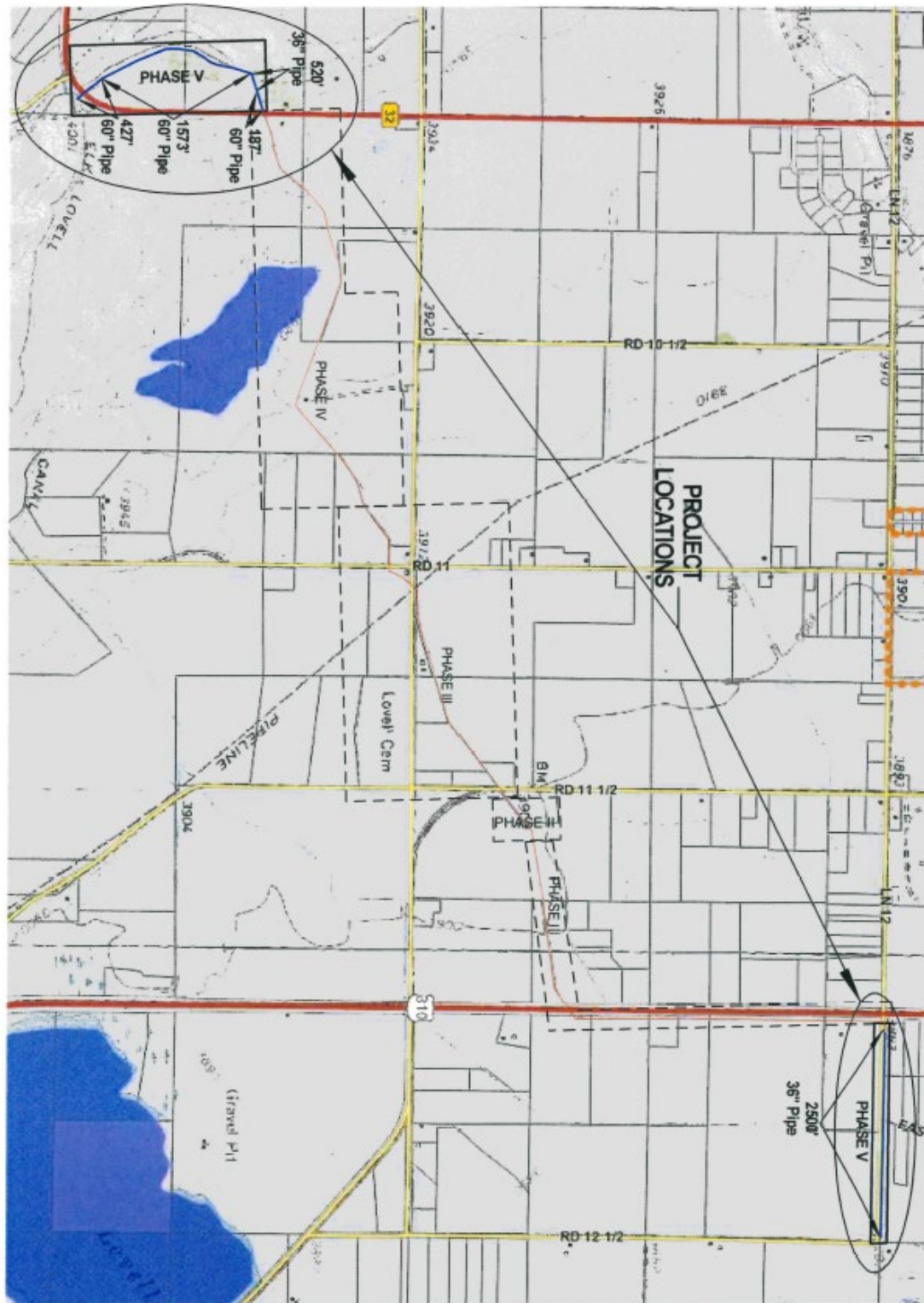
3. System Capacity:	Pre-Project	Post-Project
a. Maximum capacity of the water supply system (acre feet per day)	824	824
b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.): Loss of water due to inefficient canal system structures. While enclosing the lateral will not increase capacity, it will allow the Irrigation District to conserve water and decrease erosion.		
c. Increased capacity needed (acre feet per day):	0	0
d. Estimated system water losses (percentage):	30	0

4. District Financing		
a. Is the assessment based on acres, acre-feet delivered, acre-feet of storage space, or other? Acres		
b. How is voting authority delegated to water users? Number of acres		
c. What is the per unit amount of the current assessment?	Pre-Project 14	Post-Project 14
d. If there is a basic service charge in addition to assessments, how much is it?	0	0

5. Financial Statement	Pre-Project	Post-Project
Annual revenues generated from assessments:	\$ 142,000	\$ 142,000
Annual revenues from other sources:	\$ 0	\$ 0
Total annual revenues:	\$ 142,000	\$ 142,000
Annual budget for operation and maintenance expenses:	\$ 132,000	\$ 132,000
Annual payments for debt retirement:	\$ 0	\$ 0
Annual payments to a repair and replacement fund:	\$ 0	\$ 0
Annual payments to an emergency fund:	\$ 10,000	\$ 10,000
Annual payments for other purposes:	\$ 0	\$ 0
Total annual payments:	\$ 142,000	\$ 142,000
Balance in repair and replacement fund:	\$ 0	\$ 0
Balance in emergency fund:	\$ 26,000	\$ 26,000

B. COMPARISON WITH OPERATING CRITERIA

1. Project Priority according to the Criteria? Account II, Priority 2 – Level III Rehabilitation of existing irrigation canals
2. Will the project serve at least 2,000 water righted acres? Yes Number of acres 10,858
3. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they? USBOR WaterSMART
4. What water conservation measures are employed by the sponsor? Canal lining: some parts of the canal are buried and with funding, the Irrigation District will continue to place pipe and bury the canal waterways.
5. Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds and emergency funds? Yes
6. Can the project be delayed or staged? Yes Should it be? No. If funding is available the Project should move forward
7. Basis for the funding recommendation: The requested project complies with program criteria. The sponsor has successfully completed prior projects. The Sponsor has indicated a willingness to finance its share of the Project.



Sheet No.
1
 of 1

**PRYOR MOUNTAIN
 ENGINEERING**

Pryor Mountain Engineering
 William E. Bridges, P.E.
 PO Box 671
 Cowley, WY 82420
 (307) 548-9913

**LOVELL IRRIGATION DISTRICT
 BENCH LATERAL - PHASE V**
 Lovell, Wyoming

Date: August 24, 2023
 Rev:
 Designed by: WER
 Drawn by: MLC

BENCH DIVERSION STRUCTURE



BENCH DIVERSION - BENCH STOP LOG WALL



Entitled: A RESOLUTION AUTHORIZING SUBMISSION OF A WYOMING WATER DEVELOPMENT GRANT APPLICATION TO THE WYOMING WATER DEVELOPMENT COMMISSION ON BEHALF OF THE GOVERNING BODY FOR THE LOVELL IRRIGATION DISTRICT
(name of applicant)

FOR THE PURPOSE OF (state purpose of project):
ENCLOSING THE LAST PHASE OF THE BENCH LATERAL FOR THE PREVENTION OF EROSION AND WATER LOSS AND TO AID IN EFFICIENT MAINTENANCE AND OPERATION.

WITNESSETH

WHEREAS, the Governing Body for the LOVELL IRRIGATION DISTRICT
(name of applicant)
desires to participate in the WYOMING WATER DEVELOPMENT GRANT program to assist in financing this project;
and


WHEREAS, the Governing Body of the LOVELL IRRIGATION DISTRICT
(name of applicant)
recognizes the need for the project; and

WHEREAS, the WYOMING WATER DEVELOPMENT Grant program requires that certain criteria be met, as described in the Wyoming Water Development Commission's Rules and Regulations governing the program, and to the best of our knowledge this application meets those criteria.

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BODY OF THE
LOVELL IRRIGATION DISTRICT, that a grant application in the amount of \$ 1,663,340.00
(name of applicant)
be submitted to the Wyoming Water Development Commission for consideration to assist in funding the LOVELL IRRIGATION DISTRICT BENCH LATERAL PHASE V REHABILITATION PROJECT
(name of project)

BE IT FURTHER RESOLVED, that BRAD MOODY, PRESIDENT
(name and title of persons)
is hereby designated as the authorized representative of the LOVELL IRRIGATION DISTRICT
(name of applicant)
to act on behalf of the Governing Body on all matters relating to this grant application.

PASSED, APPROVED AND ADOPTED THIS 8TH day of August, 2023.



Brad Moody, President

Attest


Stan Asay, Secretary/Treasurer

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Ranchester Transmission Line 2024 **Program:** Rehabilitation
Project Type: Municipal **County:** Sheridan
Sponsor: Town of Ranchester
WWDO Recommendation: Level III **Proposed Budget:** \$268,600
(Pre-Construction Only)¹

Current Recommendation:

WWDC Grant ² (50%)	\$ 268,600
<u>Sponsor³ (50%)</u>	<u>\$ 268,600</u>
Total	\$ 537,200

Construction Only Recommendation:

WWDC Grant ² (50%)	\$ 2,196,400
<u>Sponsor³ (50%)</u>	<u>\$ 2,196,400</u>
Total	\$ 4,392,800

Funding for Total Project:

WWDC Grant ²	\$ 2,465,000
<u>Sponsor³</u>	<u>\$ 2,465,000</u>
Total	\$ 4,930,000

¹ Pre-Construction costs consist of: Design, Bidding Documents, Access Permits, Easements, and Title Opinion
² Not to exceed 50% of eligible project costs
³ Sponsor or other funding source

Project Manager: Verplancke

Project Description: Installation of dedicated transmission pipelines between the water treatment plant and the tank.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2002	L-I, Ranchester Master Plan	\$ 75,000
2003	L-II, Ranchester Water Supply	\$ 80,000
2005	L-I /II/III, Ranchester Storage Tank	\$ 454,000
2023	L-I, Ranchester Water Master Plan	\$ 128,000

2. Describe existing water supply using information in the application.

The Town of Ranchester’s water system gets its water from the Tongue River. Raw water is pumped from the river to the 1MGD water treatment plant (WTP) where the water is treated. Treated water is then pumped from the WTP to ground-level steel tanks located at a higher elevation north of Town. Once water is in the tanks, it flows by gravity throughout the entire town system. The Town is on one pressure zone, with the hydraulic grade line (HGL) set by the tank elevation.

3. Summarize the request.

This Project is for the replacement of a single aging 12" ductile iron water transmission pipeline with a new dedicated transmission line from the WTP to the tanks and then a separate dedicated transmission line from the tanks back to the distribution system. The Project will also include tank piping and valving, intake pump station and piping, and WTP pump station and piping. Electrical and SCADA directly related to the Project will also need replacement.

4. Summarize the reasons for the request.

This transmission main has failed multiple times in the past year and is approaching the end of its life. The transmission main is in critical need of replacement to ensure water continues to be supplied to residents.

Estimated Level III WWDC Eligible Costs:

Preparation of Final Designs and Specifications	\$ 332,200	
Site Access Permit Fees (BOR, USFS, etc.)	\$ 50,000	
Title Opinion	\$ 20,000	
Acquisition of Access and Rights of Way	<u>\$ 135,000</u>	
Pre-Construction Costs (Subtotal # 1)		\$ 537,200
Cost of Project Components		
Mobilization, Bonds, Insurance	\$ 170,000	
Surveying, Testing, Traffic Control, Temporary Water	\$ 115,000	
Water Main	\$ 1,487,000	
Tank Piping and Valving	\$ 300,000	
Intake Pump Station and Piping	\$ 450,000	
Tank Pump Station and Piping	\$ 600,000	
Electrical	\$ 50,000	
SCADA	<u>\$ 150,000</u>	
Construction Cost (Subtotal #2)		\$ 3,322,000
Construction Engineering Costs (Subtotal # 2 x 10%)		<u>\$ 332,200</u>
Components and Engineering Costs (Subtotal # 3)		\$ 3,654,200
Contingency (Subtotal #3 x 15%)		<u>\$ 548,130</u>
Construction Cost Total (Subtotal #4)		\$ 4,202,330
Total Project Cost (Subtotal #1 + Subtotal #4)		\$ 4,739,530
Inflation Costs (4% per one year)		<u>\$ 189,581</u>
Total Project Costs		\$ 4,929,111
Total Project Costs Rounded		\$ 4,930,000
Level III Recommended Funding @ 50% Grant:		\$ 2,465,000
Ineligible Expenses		
Water Main Distribution Costs		\$ 718,500
Water Service Costs		\$ 119,500
Street Costs		\$ 211,900
Additional Prep of Final Plans/Specs		\$ 104,990
Additional Construction Engineering		<u>\$ 104,990</u>
Total Ineligible Project Costs		\$ 1,259,880

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information

a. Population (2020 Census) 1,064 (Current Estimate) 1,117

b. Does the entity have a comprehensive planning boundary? No
If so, what is the estimated additional population that could be served in the future? NA

	Pre-Project	Post Project
c. Taps served within the entity boundaries?	465	465
d. Taps outside the entity boundaries?	30	30
e. Names of other water systems served?	None	

2. Water Usage (Potable water system only)

a. Total number of gallons produced by the water sources annually:

	Pre-Project	Post Project
	65,232,800	65,232,800

b. Gallons used per capita per day:

	Pre-Project	Post Project
Average Day:	160 gal	160 gal
Peak Day:	424 gal	424 gal

3. System capacity (Potable water system only):

a. Maximum capacity of the water supply system
Gallons per day:

	Pre-Project	Post-Project
	417,600	417,600

b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.):

	Line Breaks/ Outdated Pumping	WTP Capacity
--	----------------------------------	--------------

c. Increased capacity needed:
Gallons per day

	Pre-Project	Post-Project
	1,000,000	1,400,000

d. Estimated system water losses (percentage):

	Pre-Project	Post-Project
	17%	0%

4. Does the entity have an independent raw water irrigation system? No

a. Raw water system capacity (acre feet per day & gallons per day):

	NA
--	----

b. Average annual raw water usage (acre feet & gallons):

	NA
--	----

5. Rates Pre-Project Post-Project

a. Tap fees:		
Residential:	\$ 500	\$ 500
Commercial:	\$ 4,500	\$ 4,500
b. Average monthly water bill:	\$ 35.00	\$ 35.00

c. Water Rates

Pre-project rates for all tiers and categories of use:

Residential Water Rates	
0 - 2,000	\$25.00
2,001 - 10,000	\$0.10 per 100 gallons
10,001 - 30,000	\$0.15 per 100 gallons
30,001 - 75,000	\$0.20 per 100 gallons
OVER 75,000	\$0.55 per 100 gallons
Commercial Water Rates	
0 - 2,000	\$27.00
2,001 - 10,000	\$0.10 per 100 gallons
10,001 - 30,000	\$0.15 per 100 gallons
30,001 - 85,000	\$0.20 per 100 gallons
OVER - 85,000	\$0.55 per 100 gallons

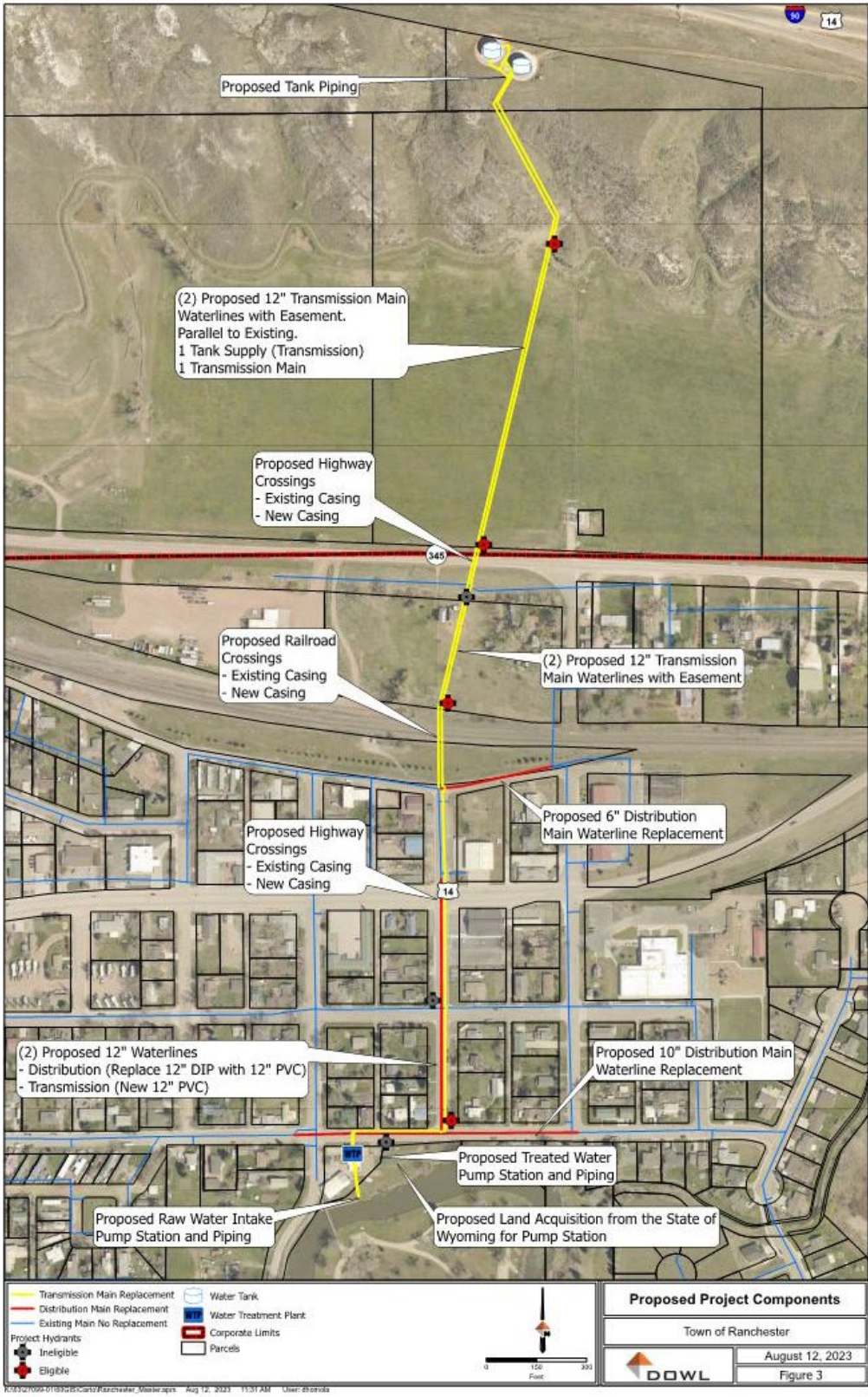
Post-project rates for all tiers and categories of use: No Change

6. Financial Statement Pre-Project Post-Project

Annual revenues generated from water sales:	\$ 397,120	\$ 397,120
Annual revenues from tap fees:	\$ 0	\$ 0
Annual revenues from other sources:	\$ 0	\$ 0
Total annual revenues:	\$ 397,120	\$ 397,120
Annual budget for operation and maintenance expenses:	\$ 239,514	\$ 239,514
Annual payments for debt retirement:	\$ 0	\$ 0
Annual payments to a repair and replacement fund:	\$ 0	\$ 0
Annual payments to an emergency fund:	\$ 0	\$ 0
Annual payments for other purposes:	\$ 94,142	\$ 94,142
Total annual payments:	\$ 333,656	\$ 333,656
Balance in repair and replacement fund:	\$ 487,116	\$ 487,116
Balance in emergency fund:	\$ 290,655	\$ 290,655
Annual cost of water quality testing:	\$ 3,000	\$ 3,000

B. COMPARISON WITH OPERATING CRITERIA

1. Project Priority according to the Criteria? Account II, Priority 3 - Level III Replacement of existing transmission pipelines
2. Is the project supported by the City Council or County Commission, which has jurisdiction over the project area? Yes
3. Will the project serve at least 15 water taps? Yes Number of taps 465
4. Is the sponsor under any federal (EPA) mandates to improve your system? (e.g. Administrative orders, violations, actions taken): No
5. Does anyone in the service area haul water? No
6. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they: RUS, SLIB, SRF
7. Is water metered? Yes Are billings based on meter readings? Yes
8. What is monthly water bill for 5,000 gallons? \$28.00 20,000 gallons? \$48.00
9. Theoretical reasonable monthly water bill (\$60,208 (AMHI) x 2.5%/12) \$125.43
10. What water conservation measures are employed by the sponsor? Yes, tiered rates
11. Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds and emergency funds? Yes
12. Will the project consider regional solutions? No
13. Can the project be delayed or staged? No Should it be? No
14. Basis for the funding recommendation: The Project is needed to address the reliability of the existing main. The project will replace an old ductile iron pipe with PVC. The sponsor has ARPA funds that need to be expended by December 2026.





Resolution 04-2023

A RESOLUTION AUTHORIZING THE SUBMISSION OF AN APPLICATION FROM THE TOWN OF RANCHESTER, WYOMING FOR FUNDING THROUGH THE WYOMING WATER DEVELOPMENT COMMISSION FOR LEVEL III CONSTRUCTION FUNDING.

WITNESSETH:

WHEREAS, the governing body for the Town of Rancheater, Wyoming (Town) owns and operates a public water system, which includes a water treatment plant, storage tank, transmission and distribution system; and

WHEREAS, the Wyoming Water Development Commission (WWDC) has provided funding for the Level I Study for the Town of Rancheater in the year 2023; and

WHEREAS, the Town desires to have the WWDC provide funding for Level III Construction Funding for Critical Infrastructure in order to prevent catastrophic failure of essential water transmission infrastructure while providing redundancy and improving the water supply capacity of the overall water system; and


WHEREAS, the estimated project costs are \$5,998,621 and would represent the WWDC Level III grant request which, if approved, would be funded at 67% of the eligible costs, or \$3,174,933, by the WWDC and \$2,500,000 from ARPA funding and \$323,688 by the Town of Rancheater from CAP tax funding; and

WHEREAS, the WWDC has a process for applying for these funds and this Resolution and accompanying application are part of this process.

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BODY FOR THE TOWN that an application be submitted by the Town of Rancheater to the WWDC for Level III Construction Funding for Critical Infrastructure.

BE IT FURTHER RESOLVED THAT Peter B. Clark, Mayor of the Town of Rancheater, is hereby authorized to commit the Town to a binding contract as it relates to this Level III Construction Funding for Critical Infrastructure.

PASSED, APPROVED AND ADOPTED THIS 5 DAY OF Sept, 2023.

Attest:

Barbara Brackeen-Kepley
Town Clerk




Peter B. Clark
Mayor

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Wheatland Tank Replacement 2024 **Program:** Rehabilitation

Project Type: Municipal **County:** Platte

Sponsor: Town of Wheatland

WWDO Recommendation: Level III-Construction only **Proposed Budget:** \$2,685,500

WWDC Grant ¹ (50%)	\$ 2,685,500
<u>Sponsor² (50%)</u>	<u>\$ 2,685,500</u>
Total	\$ 5,371,000

¹ Not to exceed 50% of eligible project costs

² Sponsor or other funding source

Project Manager: Mitchell

Project Description: This Project will replace one of the Town's 1-million-gallon potable water storage tanks (Black Mountain Tank) with a half million-gallon potable water tank.

1. Describe existing status in the program and previous appropriations.

Prior Legislation

<u>Year</u>	<u>Project</u>	<u>Appropriation</u>
2017	L-III Wheatland Wells 2017	\$ 994,950
2016	L-III Wheatland Pipelines	\$ 522,600
2015	L-III Wheatland No. 7 Well	\$ 502,500

2. Describe existing water supply using information in the application.

The Town of Wheatland's existing water supply consists of eight (8) groundwater wells within the Arikaree Formation aquifer. Flow from the wells is measured at approximately 472 gallons per minute (GPM). Currently, the Town does not have a surface water source.

The Town currently has three (3) standpipe tanks which store and treat (chlorination) approximately 2,900,000 gallons of potable water for supply to the Town's users.

The Town's water users are metered with the exception of approximately 853 million gallons not being metered due to park irrigation and Town facility usage.

3. Summarize the request.

The Town of Wheatland is requesting a total project budget of \$6,267,828 with a 67% grant of \$4,199,445 to replace a 1-million-gallon tank with a 0.5-million-gallon tank.

4. Summarize the reasons for the request.

To reduce water loss due to leakage from the existing 1-million-gallon water tank.

Estimated Level III WWDC Eligible Costs:

Preparation of Final Designs and Specifications (Paid by Sponsor)	\$	0	
Site Access Permit Fees (BOR, USFS, etc.)	\$	0	
Title Opinion	\$	2,000	
Acquisition of Access and Rights of Way	\$	<u>0</u>	
Pre-Construction Costs (Subtotal # 1)			\$ 2,000

Cost of Project Components

Mobilization, Bonds, Insurance	\$	400,000
Earthwork	\$	50,000
Yard Piping	\$	50,000
Reinforced Concrete Foundation	\$	600,000
Structural Backfill	\$	32,000
Steel Tank	\$	2,800,000
Tank Coating	\$	450,000
Fencing	\$	27,000
Base Course	\$	12,000
Manhole	\$	8,000
Overflow/Drain Structure	\$	15,000
SCADA	\$	20,000
Electrical	\$	<u>25,000</u>

Construction Cost (Subtotal #2)	\$	4,489,000
Construction Engineering Costs (Subtotal # 2 x 10%) (Paid by Sponsor)	\$	<u>0</u>
Components and Engineering Costs (Subtotal # 3)	\$	4,489,000
Contingency (Subtotal #3 x 15%)	\$	<u>673,350</u>
Construction Cost Total (Subtotal #4)	\$	5,162,350

Total Project Cost (Subtotal #1 + Subtotal #4)	\$	5,164,350
Inflation Costs (4% per one year)	\$	<u>206,574</u>

Total Project Costs **\$ 5,370,924**

Total Project Costs Rounded **\$ 5,371,000**

Level III Recommended Funding @ 50% Grant: **\$ 2,685,500**

PROJECT INFORMATION:

A. FINANCIAL INFORMATION

1. Service Area Information

a. Population (2020 Census) 3,522 (Current Estimate) 3,584

b. Does the entity have a comprehensive planning boundary? No
If so, what is the estimated additional population that could be served in the future?

	Pre-Project	Post Project
c. Taps served within the entity boundaries?	1,842	1,842
d. Taps outside the entity boundaries?	52	52
e. Names of other water systems served?	None	None

2. Water Usage (Potable water system only)

a. Total number of gallons produced by the water sources annually:

	Pre-Project	Post Project
	389 MG	389 MG

b. Gallons used per capita per day:

	Pre-Project	Post Project
Average Day:	293 gal	293 gal
Peak Day:	870 gal	870 gal

3. System capacity (Potable water system only):

a. Maximum capacity of the water supply system

	Pre-Project	Post-Project
Gallons per day:	1.1 MGD	1.1 MGD

b. What is the factor (bottleneck) limiting the ability to provide water (supply, canals, etc.):

Water leakage and undersized piping

c. Increased capacity needed:

	Pre-Project	Post-Project
Gallons per day	0	0

d. Estimated system water losses (percentage):

	3%	2%
--	----	----

4. Does the entity have an independent raw water irrigation system? No

a. Raw water system capacity (acre feet per day & gallons per day):

	0.00
--	------

b. Average annual raw water usage (acre feet & gallons):

	0.00
--	------

5. Rates	Pre-Project	Post-Project
a. Tap fees:		
Residential:	\$ 1,500	\$ 1,500
Commercial:	\$ 1,500	\$ 1,500
b. Average monthly water bill:		
	\$ 27.00	\$ 40.00
c. Water Rates - See water rates attachment		
6. Financial Statement	Pre-Project	Post-Project
Annual revenues generated from water sales:	\$ 633,814	\$ 1,326,325
Annual revenues from tap fees:	\$ 16,872	\$ 10,000
Annual revenues from other sources:	\$ <u>0</u>	\$ <u>0</u>
Total annual revenues:	\$ 650,686	\$ 1,336,325
Annual budget for operation and maintenance expenses:	\$ 351,155	\$ 787,530
Annual payments for debt retirement:	\$ 0	\$ 0
Annual payments to a repair and replacement fund:	\$ 0	\$ 0
Annual payments to an emergency fund:	\$ 0	\$ 0
Annual payments for other purposes:	\$ <u>0</u>	\$ <u>0</u>
Total annual payments:	\$ 351,155	\$ 787,530
Balance in repair and replacement fund:	\$ 100,477	\$ 100,477
Balance in emergency fund:	\$ 0	\$ 0
Annual cost of water quality testing:	\$ 10,000	\$ 10,000

B. COMPARISON WITH OPERATING CRITERIA

1. Project Priority according to the Criteria? Account II, Priority 4 - Level III Rehabilitation of existing water storage tank
2. Is the project supported by the City Council or County Commission, which has jurisdiction over the project area? Yes
3. Will the project serve at least 15 water taps? Yes Number of taps 1,842
4. Is the sponsor under any federal (EPA) mandates to improve your system? (eg. Administrative orders, violations, actions taken): No
5. Does anyone in the service area haul water? No
6. Is the sponsor eligible for funding from other state or federal programs? Yes
If so, what are they: RUS, SRF
7. Is water metered? Yes Are billings based on meter readings? Yes
8. What is monthly water bill for 5,000 gallons? \$32.50 20,000 gallons? \$39.50
9. Theoretical reasonable monthly water bill (\$58,813 (AMHI) x 2.5%/12) \$122.53
10. What water conservation measures are employed by the sponsor? Tiered water rates

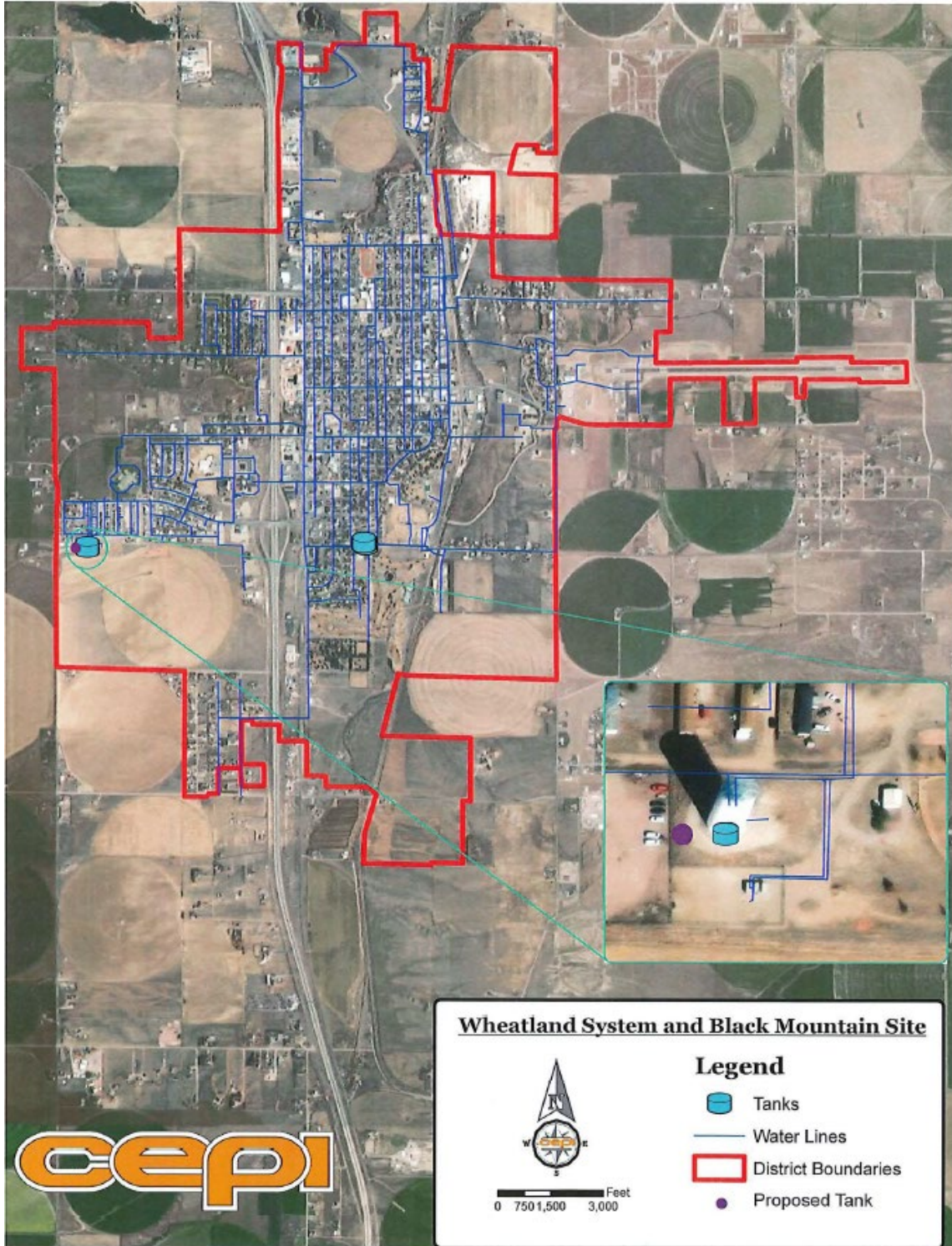
11. Is the operation of the water supply system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds and emergency funds? Yes
12. Will the project consider regional solutions? No, there isn't a regional system near the project
13. Can the project be delayed or staged? Yes Should it be? No, The existing tank is experiencing significant water loss due to leakage. The foundation is also experiencing deterioration.
14. Basis for the funding recommendation:

The current water tank is a 1 million-gallon standpipe tank. It is stated to be 20 years old with significant leakage issues. Maintenance and repairs have been performed throughout the tank's useful life. However, the results of the maintenance and repair have been unfavorable due to continuing leakage and seam ruptures.

The Town is requesting a new 500,000-gallon tank. The new tank volume will be sufficient to supply the maximum daily demand (MDD) for a projected 50 years according to a tech-memo provided to the Town from the project engineer (CEPI).

The Project was competitively bid for engineering services in the summer of 2023. An award was made to complete the design by April of 2024. The existing engineering contract covers all design and construction management services. This recommendation is for construction only. The construction is planned be competitively bid in the summer of 2024.

It is recommended to approve a 50% grant for construction of the project. The Town of Wheatland has secured approximately \$600,000 in funding through ARPA for design and construction administration. They also have funds set aside to contribute to the overall project costs.







ORDINANCE No. 841

AN ORDINANCE REPEALING ORDINANCE #763
PERTAINING TO WATER RATES AND FEES FOR RESIDENTIAL AND
COMMERCIAL USERS IN THE TOWN OF WHEATLAND

BE IT ORDAINED BY THE TOWN COUNCIL OF THE TOWN OF WHEATLAND, WYOMING
THAT ORDINANCE NO. 763 IS HEREBY AMENDED IN WHOLE AS FOLLOWS:

Definitions: The following words and phrases shall have the meaning respectively ascribed to them by this section:

1. Residential – Water services for all properties that are used exclusively for living purposes and their outbuildings, with exception to outbuildings or homes which are master metered or are being used for business purposes.
2. Commercial – Water services for non-residential property and master metered properties in which the property is used for providing a business or service. This shall include a water service provided to a residential property that provides business or services.
3. Large Commercial – Water services for non-residential property or master metered property in which the property is used for providing a business or service and which requires an electrical service greater than 200 amps.
4. Bulk Water shall mean water which is obtained from the Town’s water system and is transported from one location to another.

In the event a dispute arises about the type of customer, the town council shall determine, by a majority vote, whether a place is residential, commercial, or large commercial after receiving information from all interested parties.

Each water user shall pay to the Town the following monthly rates and fees effective October 1, 2023:

1. Residential Water Rates and Fees:	
Service Fee.....	\$2.50 per month
First 10,000 gallons or any portion thereof.....	\$30.00
10,001- 20,000 gallons.....	\$0.70 per thousand
20,001- 40,000 gallons.....	\$0.97 per thousand
40,001- 50,000 gallons.....	\$1.52 per thousand
50,001- 200,000 gallons.....	\$2.20 per thousand
200,001- 700,000 gallons.....	\$2.98 per thousand
700,001- 1,000,000 gallons.....	\$3.38 per thousand
1,000,001+ gallons.....	\$3.80 per thousand
2. Commercial Water Rates and Fees:	
Service Fee.....	\$5.00 per month
First 2,000 gallons or any portion thereof.....	\$30.00

5. Water services outside Town limits shall pay one and one-half (1 1/2) times the household or commercial rates for water users residing within the Town limits as stated in Wheatland Municipal Code 13.15.10.
6. Requests for water meters to be turned off (or on) during regular business hours shall be charged a \$25.00 fee per call (off and then back on is considered one call).
7. Seasonal sprinkler or household (snowbird) meters which are turned on for the season shall be charged a \$25.00 fee per call (on and then back off is one call).
8. Bulk water purchases shall be charged \$25.00 per thousand gallons plus a \$150.00 service fee.
9. Any unauthorized use of a water hydrant will be subject to a \$750 fine.

This ordinance shall become effective on the 1st day of October 2023.

Passed and approved this 13th day of March 2023, on first reading.


Passed and approved this 10th day of April 2023, on second reading.

Passed and approved this 14th day of August 2023, on third and final reading.



Brandon Graves, Mayor

Attest:



Candy Wright Clerk/Treasurer

LEVEL III
PROJECTS
-AMENDMENTS

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Austin-Wall Reservoir
Rehabilitation 2019

Program: Rehabilitation

Project Type: Agricultural Irrigation

County: Uinta

Sponsor: Austin-Wall Irrigation District

Sponsor's Request: Time Extension

Proposed Budget Increase: \$0

WWDO Recommendation: Extend the reversion date from July 1, 2024 to July 1, 2026

Previously Approved Budget: \$ 374,000

WWDC Grant ¹ (67%)	\$ 250,580
<u>Sponsor² (33%)</u>	<u>\$ 123,420</u>
Total	\$ 374,000

¹ Not to exceed 67% of eligible project costs

² Sponsor or other funding

Project Manager: Mallo

Project Description: The existing Wall Reservoir is losing water due to significant seepage. In 2019, the District requested WWDC funds in order to rehabilitate the reservoir to reduce the water loss. They also requested funding for the rehabilitation of the reservoir's outlet works. The total estimated cost for the Project was approximately \$1,340,000. The WWDC only recommended funding for the replacement of the outlet works and suggested pursuing the reservoir lining at a later date.

The District has since received Federal funding for a larger reservoir rehabilitation project that will include replacement of the outlet works as well as sealing off leakage in the existing dam and potentially a dam raise. However, the Federal funding process has greatly slowed the progress of the Project. Therefore, a time extension has been requested. The final design of the Project has not been completed, so final construction costs are not known. The Federal funding includes money for outlet works reconstruction so the final design with those additional funds should ultimately reduce the WWDO's and District's funds needed to complete this Project.

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Eden Valley Irrigation District
System Improvements 2019

Program: Rehabilitation

Project Type: Agriculture Irrigation

County: Sweetwater County

Sponsor: Eden Valley Irrigation and Drainage District

Sponsor's Request: Time Extension

Proposed Budget Increase: \$0

WWDO Recommendation: Extend the reversion
date from June 1, 2024 to June 1, 2026

Previously Approved Budget: \$650,000

WWDC Grant ¹ (54%)	\$ 351,000
<u>Sponsor² (46%)</u>	<u>\$ 299,000</u>
Total	\$ 650,000

¹ Not to exceed 54% of eligible project costs

² Sponsor or other funding

Project Manager: Mitchell

Project Description: This Project includes design and construction of 1,100 feet of canal lining, and a sand trap structure. The Project went out to bid in May of 2022. The low bid received was 65% over the engineer's estimate. As a result, the bids were rejected and the Project was put on hold to determine the best way to move forward.

The Project's 46% co-funding was being provided by a Bureau of Reclamation Water and Efficiency Grant. That specific grant has been terminated. The District has included this Project in another grant package, with several other projects, from the NRCS which will fund up to 75% of the construction cost for this Project. That funding is pending final approval. It is the WWDO's recommendation to provide the requested time extension to allow the District to finalize obtaining additional funding and to finish construction of the Project.

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Interstate Diversion Structure
Rehabilitation 2019

Program: Rehabilitation

Project Type: Agricultural Irrigation

County: Sweetwater

Sponsor: Interstate Irrigation & Reservoir Irrigation District

Sponsor's Request: Time Extension

Proposed Budget Increase: \$0

WWDO Recommendation: Extend the reversion
date from July 1, 2024 to July 1, 2026

Previously Approved Budget: \$420,000

WWDC Grant ¹ (67%)	\$ 281,400
<u>WWDC Loan² (33%)</u>	<u>\$ 138,600</u>
Total	\$ 420,000

¹ Not to exceed 67% of eligible project costs

² 33% loan at 4% interest and a term of 20 years

Project Manager: Sol Brich

Project Description: This Project is to replace the deteriorated Burnt Creek diversion structure with a new concrete structure. The Project has been delayed by efforts to obtain Bureau of Reclamation Basin States Program funding, as well as land access issues. The Basin States Program funding for the diversion and two phases of pipeline projects has been secured, and the District is working to resolve the land access issues. A prescriptive easement has been filed to construct the pipeline in the existing canal bed, and alternative haul routes are being researched. The proposed extended reversion date of July 1, 2026, coincides with the reversion date for the Interstate Irrigation & Reservoir Irrigation District Improvements 2021 project, which will install the first phase of the pipeline, with the intent that these projects be completed in tandem.

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Owl Creek ID System Improvements **Program:** Rehabilitation
Project Type: Agricultural Irrigation **County:** Hot Springs
Sponsor: Owl Creek Irrigation District **Proposed Budget Increase:** \$0
Sponsor's Request: Additional \$1,000,000 in funding and a time extension **Proposed Total Budget:** \$7,040,000

WWDO Recommendation: Request Sponsor's Contingency Funds when Project and additional funds are ready, extend the reversion date from July 1, 2027 to July 1, 2028

	<u>Existing</u>	<u>Recommended Changes</u>	<u>Revised Budget</u>
WWDC Grant ¹	\$ 4,690,000 (67%)	\$ 670,000 (67%)	\$ 5,360,000 (67%)
WWDC Loan ²	\$ 350,000 (5%)	\$ 330,000 (33%)	\$ 680,000 (8%)
Other Funding Source ³	<u>\$ 2,000,000 (28%)</u>	<u>\$ 0 (00%)</u>	<u>\$ 2,000,000 (25%)</u>
Total	\$ 7,040,000 (100%)	\$ 1,000,000 (100%)	\$ 8,040,000 (100%)

¹ Not to Exceed 67% of eligible project costs
² 5% loan at 4% interest and a term of 30 years for \$350,000
³ Sponsor or other funding source

Project Manager: Kaiser

Project Description: The Sponsor has requested additional Level III funding and a time extension to the current funding for irrigation system improvements within the lower area of the Owl Creek Irrigation District (District). The Project includes three grouped projects identified as priorities in the 2021 Level I Master Plan including the Main Pump Station, Re-Lift Station, and Inlet Headgate.

This Project has bid and received one bid that exceeded the current budget. The District should seek to obtain additional funding from other sources, look for value engineering options for the Project and/or request Sponsor's Contingency Funds at time of rebidding, if needed.

RESOLUTION 2023-01

**A RESOLUTION AUTHORIZING THE OWL CREEK IRRIGATION DISTRICT
TO PREPARE, EXECUTE AND SUBMIT A FUNDING AMENDMENT
REQUEST TO THE WYOMING WATER DEVELOPMENT COMMISSION**

WHEREAS, Owl Creek Irrigation District (the "District"), is an irrigation district duly formed and organized under Wyoming Statutes Title 41 Water, Chapter 7, Irrigation Districts, and the District's Board of Directors (the "Board") has been duly elected and qualified; and

WHEREAS, the District has completed final engineering design of the approved Wyoming Water Development Commission (WWDC) Level III Project and has advertised the Project for construction bids. Construction bids are due on October 10, 2023 with a mandatory pre-bid tour being conducted on August 22, 2023; and

WHEREAS, the Board has the legal and institutional capacity to undertake the Project.

NOW THEREFORE, BE IT RESOLVED by the Board of Directors that:

1. The Board approves a funding amendment application to the Wyoming Water Development Commission attached hereto, and
2. The Board hereby authorizes Matt Brown, President of the Owl Creek Irrigation District, to sign the amendment application, and
3. The Board hereby authorizes Paul Ward to serve as the official representative of the Board of Directors in all matters to come before the WWDC related to this Project.

RESOLUTION 2023-01 PASSED, ADOPTED AND APPROVED as of the 15th day of August, 2023.

OWL CREEK IRRIGATION DISTRICT


Matt Brown, President

ATTESTED:


Paul Ward, Board Secretary/Treasurer

2024 RECOMMENDATION-CONSTRUCTION PROJECTS

Project Name: Wind River Inter-Tribal Council
Rehabilitation 2019

Program: Rehabilitation

Project Type: Agricultural Irrigation

County: Fremont – Wind River
Indian Reservation

Sponsor: Northern Arapaho Tribe

Sponsor's Request: Time Extension

Proposed Budget Increase: \$0

WWDO Recommendation: Extend the reversion
date from July 1, 2024 to July 1, 2025

Previously Approved Budget: \$929,000

WWDC Grant ¹ (50%)	\$ 929,000
<u>Sponsor² (50%)</u>	<u>\$ 929,000</u>
Total	\$ 1,858,000

¹ Not to exceed 50% of eligible project costs

² Sponsor or other funding

Project Manager: Verplancke

Project Description: The Wind River irrigation system is operated by the Bureau of Indian Affairs and is in dire need of rehabilitation. Deferred maintenance has been estimated in the range of \$90M in past studies. The Tribes have taken on the task of rehabilitating the irrigation system in phases and this is Phase IV of those projects. The rehabilitation of the system will increase the efficiency of the irrigation project and as a result will allow for a longer and more profitable growing season.

The Office of the Tribal Water Engineer (OTWE) has requested a time extension for the 2019 Wind River Inter-Tribal Council Irrigation Project for the work on the Ray Canal 10-C (check/diversion). This structure was bid in the fall of 2019. Unfortunately, the bids received at the time greatly exceeded the available funding, so it was not awarded. Since then, the OTWE has worked with the Bureau of Indian Affairs to secure additional funding. The OTWE is now ready to move forward with rebidding of the 10-C check/diversion project. However, since the Project is an irrigation structure, it must be constructed outside of the irrigation season. For this reason, the OTWE anticipates construction starting in the fall of 2024. The OTWE has requested a time extension of 1 year for the construction of the 10-C check/diversion structure. No additional funds will be requested from the WWDC.

LEVEL I PROJECTS

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

AGRICULTURAL WATER PROJECTS

Project Name: Big Horn Canal Irrigation District Master Plan

Program: Rehabilitation

Project Type: Agricultural Irrigation Supply

County: Big Horn

Sponsor: Big Horn Canal Irrigation District

WWDO Recommendation: Level I

Proposed Budget: \$289,000

Basis for the Funding Recommendation:

The Big Horn Canal Irrigation District is requesting a master plan to evaluate infrastructure and system operations. The study would inventory and assess their canal system, investigate potential efficiencies, and identify and prioritize capital improvement projects for financial planning. Cost estimates will be produced to include both a total and phased approach to construction and replacement according to a recommended rehabilitation schedule. The ability to pay for the improvements to the system and needed adjusted rate assessments are included as part of the study.

Project Manager: Mabel Jones

I. PROJECT DESCRIPTION

The Big Horn Canal Irrigation District was formed in 1993 and the Big Horn Canal was constructed in the early 1900's. The main stem of the Big Horn Canal is over 60 miles long and extends from south of Worland to Greybull. The District has completed numerous projects since the last level II study and new issues have been identified. The most limiting factor currently in the system is inefficient water deliveries.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Big Horn Canal Rehabilitation Study	II	75	2005	II	\$ 150,000	2006
Big Horn Canal Lining	III	75	2008	II	\$ 500,000	2013
Big Horn Canal Rehabilitation 2009	III	38/68	2009/10	II	\$ 1,180,000	2014
Big Horn Canal Rehabilitation 2012	III	14	2012	II	\$ 1,440,000	2017
Big Horn Canal Wasteway Rehabilitation 2019	III	55	2019	II	\$ 960,000	2024

2. Describe the location of the project:

The Big Horn Canal Irrigation District is located in and around the Town of Basin and Big Horn County, Wyoming within the Big Horn River Basin. The Big Horn Canal Irrigation District serves roughly 23,800 acres within its boundaries.

3. Summarize the request:

The Big Horn Canal Irrigation District is requesting funding for a new Level I study to perform condition assessments on major infrastructure throughout the District. The Big Horn Canal is over 100 years old and also supplies water to the Town of Basin. The study will evaluate existing infrastructure, prioritizing repair and replacement needs, and will include a determination of cost estimates to assist in evaluating financing options and budgets accordingly. The study will also recommend any needed operational changes.

4. Summarize the reasons for the request:

The Big Horn Canal was built in the early 1900's and requires a reconnaissance level study to assess the condition of the canal, similarly aged infrastructure, analysis of operations, efficiency investigations, and financial analysis. This study would evaluate the current condition of infrastructure and provide a plan for the future.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes

A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?

N/A

2. Project Priority According to WWDO Criteria: Acct II - Priority 8: LI Reconnaissance Studies
(Use Attachment III of the operating criteria.)

3. Will the project serve at least 1,000 water righted acres? Yes

A. Number of Acres: 23,800

4. Is the sponsor eligible for funding from other state or federal programs? Yes

A. If so, what are they? BOR, NRCS

5. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system? N/A

6. Can the project be delayed or staged? Yes

A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. Description of Direct Flow Supply

(1) Direct Flow Diversion Right (CFS): 340

(2) Direct Flow Source (Name of River, Stream, etc.): Big Horn River

(3) Type of Diversion (Headgate, Pump, etc.): Headgate

(4) Water Transmission System (Canal, Pipeline, etc.): Canal

B. Description of Stored Water Supply

(1) Name(s) of Storage Facility (Reservoir): Boysen Reservoir

(2) Location: Fremont County, Wyoming

(3) Amount of Stored Water Right (Acre-Feet): 3000

(4) Is any of the stored supply obtained from a federal facility? Yes

a. Percent of Total Supply from Federal Facility: 2%

b. Amount of Stored Supply from Federal Facility (Acre-Feet): 3000

c. Name(s) of Federal Facility: Boysen Reservoir

C. Description of Groundwater Supply

- (1) Number of Wells: N/A
- (2) Primary Supply Aquifer(s) or Formation(s): N/A
- (3) Total Average Production Yield of All Wells (GPM): N/A

D. Water Rights

- (1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

E. System Capacity

- (1) Maximum Capacity of the Water Supply System (Acre-Feet per Day or CFS): 550 CFS
- (2) Increased Capacity Needed (If Known) (Acre-Feet per Day or CFS): 50 CFS

F. Water Usage

- (1) Estimate of Total Water Provided by the System Annually (Acre-Feet per Year): 150,000 AF
- (2) Average Day Demand (Acre-Feet per Day or CFS): 379 CFS
- (3) Maximum Day Demand (Acre-Feet per Day or CFS): 500 CFS

2. Existing Service Area and On-Farm Information

A. Service Area Information

- (1) How many total acres are in the district? 23,800
- (2) How many acres are assessed? 23,800
- (3) How many acres are irrigated? 23,800
- (4) What is the annual water delivery assessed (acre-feet per acre)? 6
- (5) How many individual land owners receive water? 350

B. On-Farm Information

- (1) What is the normal irrigation season (e.g., May 1 – Sept. 30)? April 10-October 10
- (2) What type(s) of on-farm irrigation water applications is used (e.g., center pivot, side roll, flood, etc.)?
Center pivot, gravity flood, side roll
- (3) Briefly describe the main crops and cropping patterns:
Sugar beets, malt barley, corn, beans, alfalfa seed, alfalfa hay, irrigated pasture
- (4) Describe the water measuring devices currently in use:
Rated gauging stations on main canal, Rubicon flume gates, instantaneous flow measurements on turnouts
- (5) Percentage of Farm Turnouts with Measuring Devices: 100%
- (6) Are water deliveries recorded? No
- (7) Estimated System Water Losses (Percentage): 40%
- (8) What water conservation measures are employed by the Sponsor?
Encourage pivot/sprinkler irrigation, surge irrigation

3. Financial Information

A. District Financing

- (1) Is the assessment based on acres, acre-feet delivered, acre-feet of storage, or other (specify)?
Acres
- (2) How is voting authority delegated to water users (e.g., shares, individuals, number of acres, etc.)?

Number of acres

(3) What is the per-unit amount of the current assessment? \$16.75/acre

(4) Is there is a basic service charge or first acre assessment in addition to assessments? If so, specify amount:

Minimum assessment of \$100

B. Financial Statement

(1) Revenues

a. Annual Revenues Generated from Assessments:	\$	390,000
b. Annual Revenues from Other Sources:	\$	7,000
<hr/>		
c. Total Annual Revenues:	\$	397,000

(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$	367,265
b. Annual Payments for Debt Retirement:	\$	158,000*
c. Annual Payments to a Repair and Replacement Fund:	\$	3,000
d. Annual Payments to an Emergency Fund:	\$	0
e. Annual Payments for Other Purposes:	\$	0
<hr/>		
f. Total Annual Payments:	\$	528,265

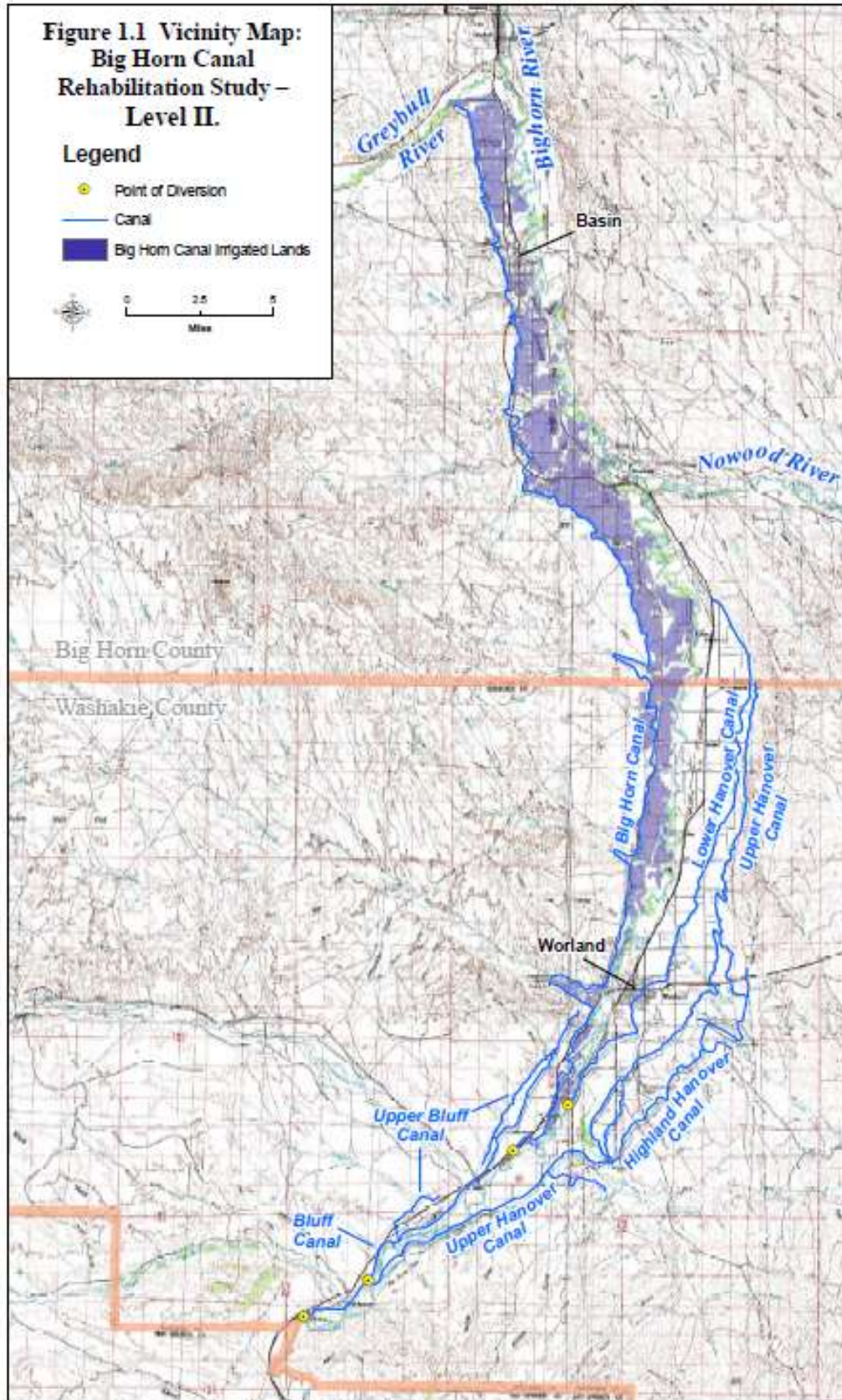
(3) Other

a. Balance in Repair and Replacement Fund:	\$	79,578.19
b. Balance in Emergency Fund:	\$	894,102.60
c. Explanation (If Needed):		

*Current debt retirement budget is in excess of annual requirements.

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes

PROJECT AREA MAP



PHOTOS



RESOLUTION

RESOLUTION

As per motion and unanimous vote by the Board of Commissioners of the Big Horn Canal Irrigation District at the regular Board Meeting of the Board of Commissioners of the Big Horn Canal Irrigation District held on January 19, 2023, the Board of Commissioners by formal resolution, does hereby apply for funding of a Level 1 Reconnaissance Study.

Big Horn Canal Irrigation District


Richard Russell, President

State of Wyoming)
)
County of Big Horn)

Sworn before me this 23rd day of January, 2023



Notary
My Comm. Exp: November 13, 2024



2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

AGRICULTURAL WATER PROJECTS

Project Name: Elk Canal Master Plan

Program: Rehabilitation

Project Type: Agricultural Irrigation Supply

County: Park

Sponsor: Elk Water Users Association

WWDO Recommendation: Do Not Fund

Proposed Budget: \$0

Recommend waiving, for this Level only, the requirement that the Sponsor be a public entity.

Basis for the Funding Recommendation:

The Elk Water Users Association is requesting a master plan to evaluate infrastructure and system operations. The study would inventory and assess the canal system, investigate opportunities to convert open ditch to pipe, and identify and prioritize capital improvement projects for financial planning. Cost estimates will be produced to include both a total and phased approach to construction and replacement according to a recommended rehabilitation schedule. The ability to pay for the improvements to the system and needed adjusted rate assessments are included as part of the study.

Project Manager: Chace Tavelli

I. PROJECT DESCRIPTION

The Elk Water Users Association is currently in the process of forming the Elk Water Users Irrigation District. The Elk Canal is shared between the Elk Water Users Association and Lovell Irrigation District. The upper 12 miles is utilized by the Elk Water Users Association while the lower 26 miles is utilized by the Lovell Irrigation District. The Elk Canal services approximately 3800 acres of Elk Water Users Association lands. The Association is interested in an assessment of operations, infrastructure, and an analysis of open ditch converted to pipe.

1. Existing and Prior Legislation:

No existing or prior legislation related to the Elk Water Users Association.

2. Describe the location of the project:

The Elk Canal is located in and around the Town of Powell and Park County, Wyoming within the Shoshone River Basin.

3. Summarize the request:

The Elk Water Users Association is requesting funding for a new Level I study to analyze operations, assess infrastructure, and determine the feasibility of open ditch converted to pipe. The study will also identify cost estimates, ability to pay, GIS updates, and recommend operational changes. The Study will provide a blueprint for the Association in the prioritization of system rehabilitation needs.

4. Summarize the reasons for the request:

The Elk Water Users Association requires a reconnaissance level study for the entire system. This includes an analysis of operations, condition assessments, open canal conversion to pipeline, and a financial analysis.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? No
 - A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?
Yes, Level I study
2. Project Priority According to WWDO Criteria: Acct II - Priority 8: LI Reconnaissance Studies
(Use Attachment III of the operating criteria.)
3. Will the project serve at least 1,000 water righted acres? Yes
 - A. Number of Acres: 3,800
4. Is the sponsor eligible for funding from other state or federal programs? Yes
 - A. If so, what are they? BOR, NRCS
5. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system?
The Elk Canal provides water for the Elk Water Users Association and the Lovell Irrigation District.
6. Can the project be delayed or staged? Yes
 - A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. Description of Direct Flow Supply

- (1) Direct Flow Diversion Right (CFS): 304
- (2) Direct Flow Source (Name of River, Stream, etc.): Shoshone River
- (3) Type of Diversion (Headgate, Pump, etc.): Diversion dam
- (4) Water Transmission System (Canal, Pipeline, etc.): Canal

B. Description of Stored Water Supply

- (1) Name(s) of Storage Facility (Reservoir): N/A
- (2) Location: N/A
- (3) Amount of Stored Water Right (Acre-Feet): N/A
- (4) Is any of the stored supply obtained from a federal facility? N/A
 - a. Percent of Total Supply from Federal Facility: N/A
 - b. Amount of Stored Supply from Federal Facility (Acre-Feet): N/A
 - c. Name(s) of Federal Facility: N/A

C. Description of Groundwater Supply

- (1) Number of Wells: N/A
- (2) Primary Supply Aquifer(s) or Formation(s): N/A
- (3) Total Average Production Yield of All Wells (GPM): N/A

D. Water Rights

- (1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

E. System Capacity

- (1) Maximum Capacity of the Water Supply System (Acre-Feet per Day or CFS): 350 CFS

(2) Increased Capacity Needed (If Known) (Acre-Feet per Day or CFS): N/A

F. Water Usage

(1) Estimate of Total Water Provided by the System Annually (Acre-Feet per Year): 140,000

(2) Average Day Demand (Acre-Feet per Day or CFS): 300 CFS

(3) Maximum Day Demand (Acre-Feet per Day or CFS): 350 CFS

2. Existing Service Area and On-Farm Information

A. Service Area Information

(1) How many total acres are in the district? 4,138

(2) How many acres are assessed? 3,800

(3) How many acres are irrigated? 3,800

(4) What is the annual water delivery assessed (acre-feet per acre)? 2

(5) How many individual land owners receive water? 27

B. On-Farm Information

(1) What is the normal irrigation season (e.g., May 1 – Sept. 30)? April 15-October 15

(2) What type(s) of on-farm irrigation water applications is used (e.g., center pivot, side roll, flood, etc.)?

Center pivot, side rolls, gated pipe, and cement ditches

(3) Briefly describe the main crops and cropping patterns:

Sugar beets, malt barley, dry beans, seed crops, and 15% irrigated pasture.

(4) Describe the water measuring devices currently in use:

Weir on main canal

(5) Percentage of Farm Turnouts with Measuring Devices: 0%

(6) Are water deliveries recorded? No

(7) Estimated System Water Losses (Percentage): 20%

(8) What water conservation measures are employed by the Sponsor?

Large sections of the canal have been lined.

3. Financial Information

A. District Financing

(1) Is the assessment based on acres, acre-feet delivered, acre-feet of storage, or other (specify)?

Acres

(2) How is voting authority delegated to water users (e.g., shares, individuals, number of acres, etc.)?

Number of acres

(3) What is the per-unit amount of the current assessment? \$6.00

(4) Is there is a basic service charge or first acre assessment in addition to assessments? If so, specify amount:

\$40.00

B. Financial Statement

(1) Revenues

a. Annual Revenues Generated from Assessments:	\$	25,712
b. Annual Revenues from Other Sources:	\$	1,000

c. Total Annual Revenues:	\$	26,712
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(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$	10,000
b. Annual Payments for Debt Retirement:	\$	0
c. Annual Payments to a Repair and Replacement Fund:	\$	5,000
d. Annual Payments to an Emergency Fund:	\$	5,000
e. Annual Payments for Other Purposes:	\$	5,000
f. Total Annual Payments:	\$	25,000

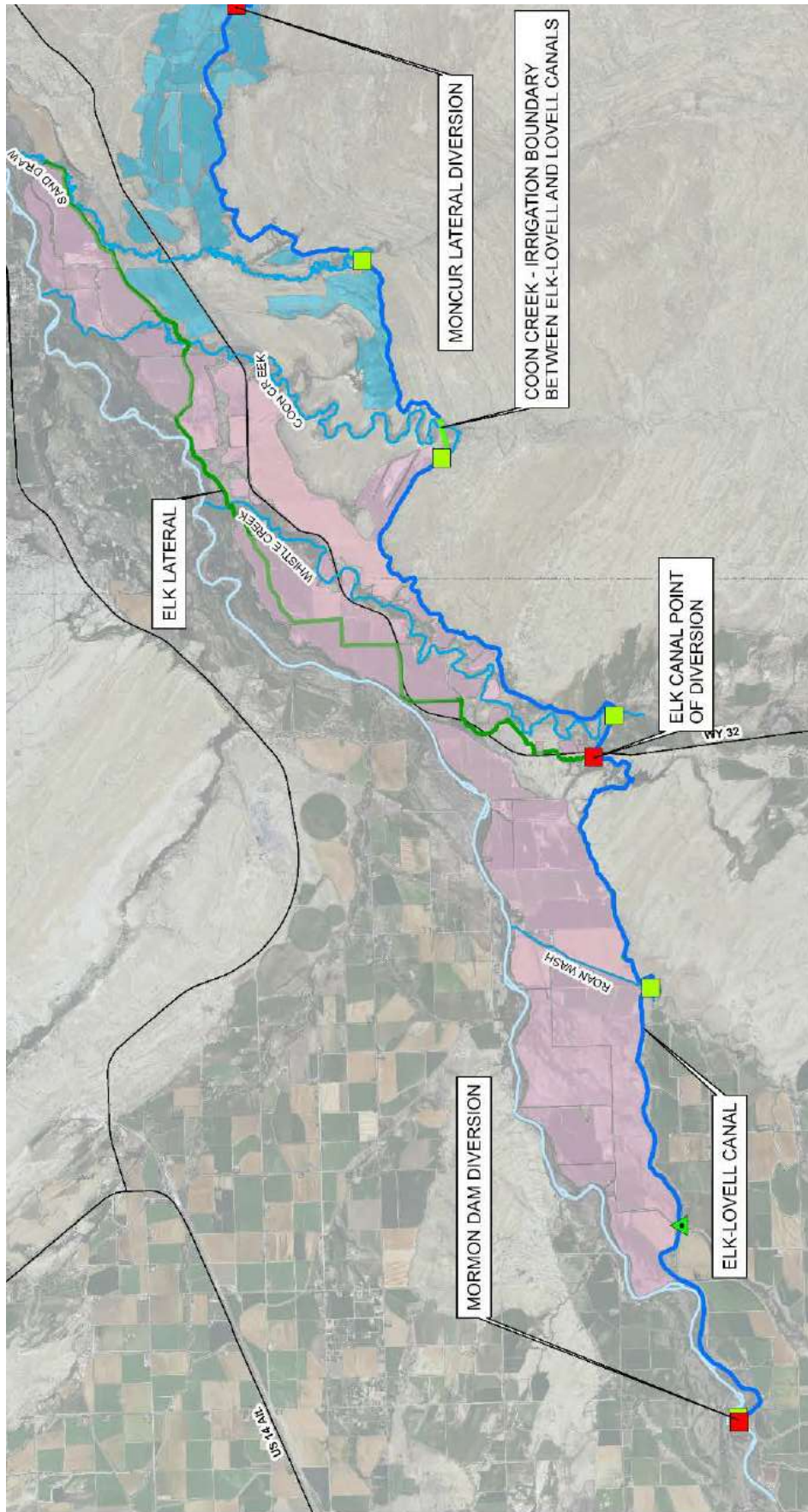
(3) Other

a. Balance in Repair and Replacement Fund:	\$	25,000
b. Balance in Emergency Fund:	\$	50,000
c. Explanation (If Needed):		

N/A

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes

PROJECT AREA MAP



PHOTOS



2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

AGRICULTURAL WATER PROJECTS

Project Name: Horse Creek Conservation District Master Plan

Program: Rehabilitation

Project Type: Agricultural Irrigation Supply

County: Goshen

Sponsor: Horse Creek Conservation District

WWDO Recommendation: Level I

Proposed Budget: \$248,000

Basis for the Funding Recommendation:

The Horse Creek Conservation District is requesting a master plan to evaluate infrastructure and system operations. The study would inventory and assess their canal system and identify and prioritize capital improvement projects for financial planning. Cost estimates will be produced to include both a total and phased approach to construction and replacement according to a recommended rehabilitation schedule. The ability to pay for the improvements to the system and needed adjusted rate assessments are included as part of the study. The District is also requesting an evaluation of the feasibility of replacing the Malcolm Pipeline, as described in the Wyoming Water Development Commission's 1998 Improvement Project for the Horse Creek Conservation District. Since the pipeline was constructed, there have been multiple repairs and the pipeline has become "egg shaped". If this pipeline fails a portion of the system would be inoperable.

Project Manager: Jodie Pavlica

I. PROJECT DESCRIPTION

The Horse Creek Conservation District was formed in 1927 and serves 10,544 acres of irrigated ground. This Level I study will evaluate the canal system, aging infrastructure, the feasibility of replacing the Malcolm Pipeline, and an analysis of operations. This study will include cost estimates and conceptual drawings sufficient to determine feasibility of rehabilitation of the Malcom Pipeline project.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Horse Creek Conservation District Improvements Project	II	82	1998	II	\$ 30,000	2000
Horse Creek Conservation District Rehabilitation	III	38/16	1998/99	II	\$ 246,600	2002

2. Describe the location of the project:

The Horse Creek Conservation District is located in and around the Town of Hawk Springs and Goshen County, Wyoming, within the Platte River Basin.

3. Summarize the request:

The Horse Creek Conservation District is requesting funding for a Level I Study to perform condition assessments on major infrastructure throughout the District and the feasibility of replacing or rehabilitating the Malcolmb Pipeline. This would include analysis of alternative construction methods and materials. The Study will also identify cost estimates, an ability to pay, GIS updates, and recommend operational changes along with providing the District with a blueprint for the prioritization of system rehabilitation needs.

4. Summarize the reasons for the request:

The District’s system requires a reconnaissance level study to assess the condition of the canal, similarly aged infrastructure, analysis of operations, and financial analysis. This study would evaluate the current condition of infrastructure and provide a plan for the future. Specifically, the Malcolmb Pipeline was completed in 2001 and the condition of this pipeline has deteriorated in the last two decades. The shape of the pipeline has been distorted over this time frame and requires attention. Multiple repairs have been performed but the District believes replacement or rehabilitation is the most efficient option moving forward.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes

A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?

N/A

2. Project Priority According to WWDO Criteria: Acct II - Priority 8: LI Reconnaissance Studies
(Use Attachment III of the operating criteria.)

3. Will the project serve at least 1,000 water righted acres? Yes

A. Number of Acres: 10,544

4. Is the sponsor eligible for funding from other state or federal programs? Yes

A. If so, what are they? Federal programs – NRCS, etc.

5. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system?

No and yes, the sponsor is open to regionalization.

6. Can the project be delayed or staged? Yes

A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. Description of Direct Flow Supply

(1) Direct Flow Diversion Right (CFS): N/A

(2) Direct Flow Source (Name of River, Stream, etc.): N/A

(3) Type of Diversion (Headgate, Pump, etc.): N/A

(4) Water Transmission System (Canal, Pipeline, etc.): N/A

B. Description of Stored Water Supply

(1) Name(s) of Storage Facility (Reservoir): Hawk Springs Reservoir and Sinnard Reservoir

(2) Location: Goshen County

(3) Amount of Stored Water Right (Acre-Feet): Hawk Springs: 16,735 Sinnard: 1,359

(4) Is any of the stored supply obtained from a federal facility? No

a. Percent of Total Supply from Federal Facility: N/A

b. Amount of Stored Supply from Federal Facility (Acre-Feet): N/A

c. Name(s) of Federal Facility: N/A

C. Description of Groundwater Supply

- (1) Number of Wells: N/A
- (2) Primary Supply Aquifer(s) or Formation(s): N/A
- (3) Total Average Production Yield of All Wells (GPM): N/A

D. Water Rights

- (1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

E. System Capacity

- (1) Maximum Capacity of the Water Supply System (Acre-Feet per Day or CFS): 80 CFS
- (2) Increased Capacity Needed (If Known) (Acre-Feet per Day or CFS): N/A

F. Water Usage

- (1) Estimate of Total Water Provided by the System Annually (Acre-Feet per Year): 9,500
- (2) Average Day Demand (Acre-Feet per Day or CFS): 62 CFS
- (3) Maximum Day Demand (Acre-Feet per Day or CFS): 75 CFS

2. Existing Service Area and On-Farm Information

A. Service Area Information

- (1) How many total acres are in the district? 22,000
- (2) How many acres are assessed? 10,544
- (3) How many acres are irrigated? 10,544
- (4) What is the annual water delivery assessed (acre-feet per acre)? 1
- (5) How many individual land owners receive water? 84

B. On-Farm Information

- (1) What is the normal irrigation season (e.g., May 1 – Sept. 30)? June 1 to September 30
- (2) What type(s) of on-farm irrigation water applications is used (e.g., center pivot, side roll, flood, etc.)? Center pivot, side roll, gated pipe, and flood irrigation.
- (3) Briefly describe the main crops and cropping patterns: Small grains, alfalfa, and corn
- (4) Describe the water measuring devices currently in use: Flow Meters, rectangular contracted weirs, Cipolletti weirs, and Parshall flumes
- (5) Percentage of Farm Turnouts with Measuring Devices: 100%
- (6) Are water deliveries recorded? Yes
- (7) Estimated System Water Losses (Percentage): 23%
- (8) What water conservation measures are employed by the Sponsor? Maintenance on delivery ditches

3. Financial Information

A. District Financing

- (1) Is the assessment based on acres, acre-feet delivered, acre-feet of storage, or other (specify)? Acres
- (2) How is voting authority delegated to water users (e.g., shares, individuals, number of acres, etc.)?

Shares

(3) What is the per-unit amount of the current assessment? \$29.00

(4) Is there is a basic service charge or first acre assessment in addition to assessments? If so, specify amount:

No

B. Financial Statement

(1) Revenues

a. Annual Revenues Generated from Assessments:	\$ 305,779.77
b. Annual Revenues from Other Sources:	\$ 12,000.00
<hr/>	
c. Total Annual Revenues:	\$ 317,779.77

(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$ 154,538.88
b. Annual Payments for Debt Retirement:	\$ 131,434.52
c. Annual Payments to a Repair and Replacement Fund:	\$ 0
d. Annual Payments to an Emergency Fund:	\$ 0
e. Annual Payments for Other Purposes:	\$ 31,632.39
<hr/>	
f. Total Annual Payments:	\$ 317,605.79

(3) Other

a. Balance in Repair and Replacement Fund:	\$ 136,556.43
b. Balance in Emergency Fund:	\$ 9,745.20
c. Explanation (If Needed):	

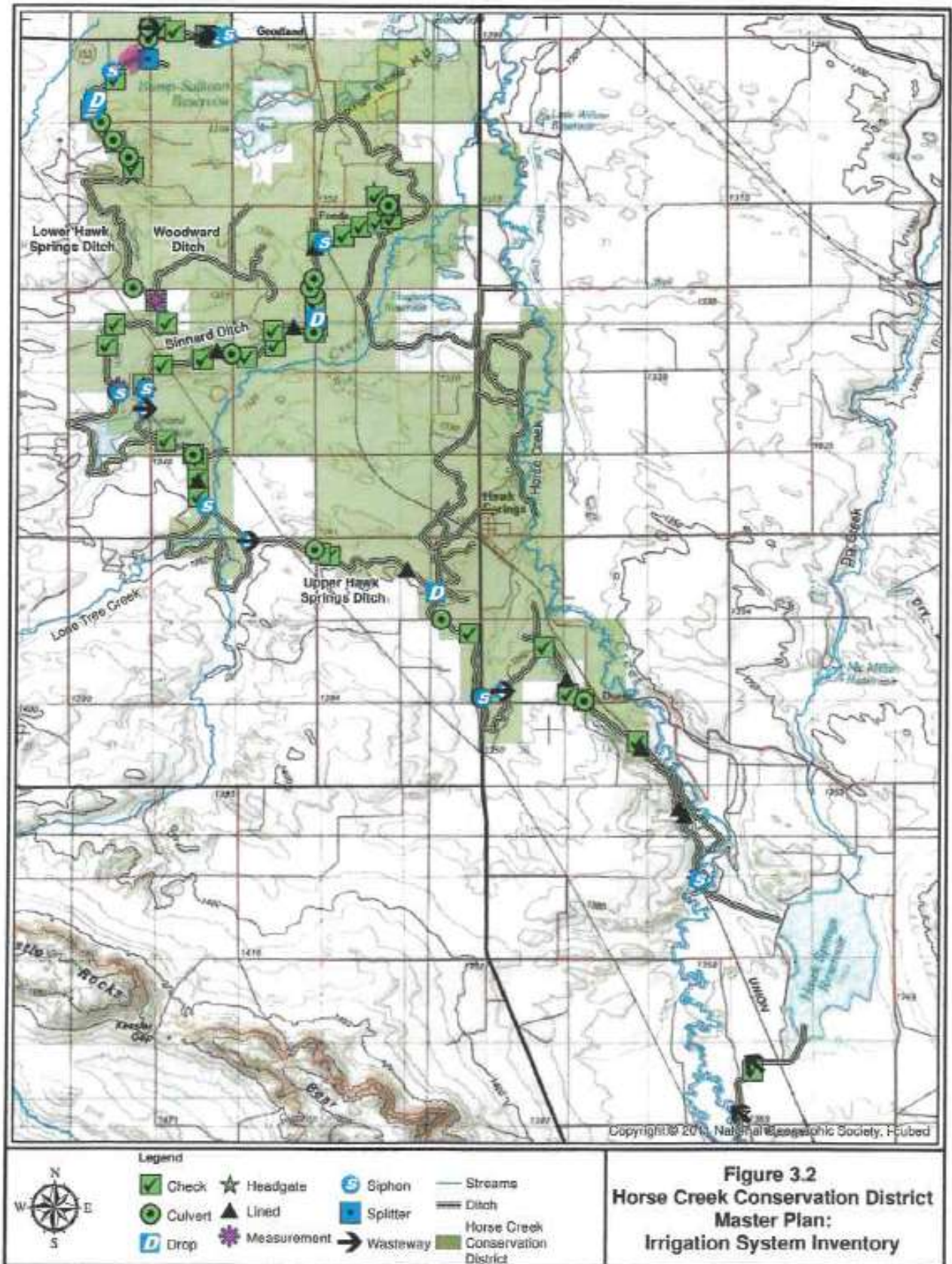
N/A

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes*

a. If not, how is the difference subsidized?

*A revolving operating loan is necessary because of the unknown cashflow caused by assessment payment timing.

PROJECT AREA MAP



Green shaded is the District
Pink shaded is Pipeline location

PHOTOS



**HORSE CREEK
CONSERVATION DISTRICT**

P.O. BOX 68
HAWK SPRINGS, WY 82217

Telephone
(307)532-2540

RESOLUTION

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE HORSE CREEK CONSERVATION DISTRICT, HAWK SPRINGS, GOSHEN COUNTY, WYOMING THAT:

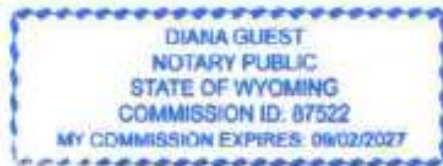
AN APPLICATION FOR WYOMIG WATER DEVELOPMENT COMMISSION AGRICULTURAL WATER PROJECTS SHALL BE COMPLETED AND SUBMITTED REQUESTING FUNDING TO REPLACE THE MALCOLM PIPELINE.

Lon Eisenbarth President HCCD
Lon Eisenbarth, Horse Creek Conservation District President

State of Wyoming
County of Goshen

Signed before me on February 14, 2025 by Lon Eisenbarth

Diana Guest
Notary



My Commission Expires Sept 2 - 2027

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

AGRICULTURAL WATER PROJECTS

Project Name: Midvale Irrigation District Master Plan

Program: Rehabilitation

Project Type: Agricultural Irrigation Supply

County: Fremont

Sponsor: Midvale Irrigation District

WWDO Recommendation: Level I

Proposed Budget: \$409,000

Basis for the Funding Recommendation:

The Midvale Irrigation District is requesting a master plan to fully evaluate the infrastructure of the District's irrigation system. The study would inventory and assess their canal system, investigate conveyance losses, and identify and prioritize capital improvement projects for financial planning. Cost estimates will be produced to include both a total and phased approach to construction and replacement according to a recommended rehabilitation schedule. The ability to pay for the improvements to the system and needed adjusted rate assessments are included as part of the study.

Project Manager: Julie Gondzar

I. PROJECT DESCRIPTION

Midvale Irrigation District has completed a multitude of projects since the Midvale Conservation Program Level II study (2007) was completed. This master plan would evaluate existing infrastructure, prioritizing repair and replacement needs, and determination of cost estimates to assist in evaluating financing options and budget accordingly.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Midvale Rehabilitation 2013	III	141/23	2013/15	II	\$ 381,000	2016/18
Midvale Irrigation District Hydropower	II	74	2014	I	\$ 150,000	2017
Midvale Bull Lake Rehabilitation 2015	III	23	2015	II	\$ 2,653,200	2020
Midvale Sand Butte 2 Lateral	III	55	2016	II	\$ 770,000	2021
Midvale Pilot 27.0 A Lateral 2017	III	75	2017	II	\$ 355,000	2022
Midvale ID Wyoming Canal Phase I 2023	III	180	2023	II	\$ 2,250,000	2028

2. Describe the location of the project:

Midvale Irrigation District is located in and around the Town of Pavillion and Fremont County, Wyoming within the Wind River Basin.

3. Summarize the request:

Midvale Irrigation District is requesting funding for a new Level I study to perform condition assessments on major infrastructure throughout the District. The District is looking to have a complete inventory and assessment on all

major infrastructure within the District. The study will also prioritize identified projects and analyze possible funding mechanisms. Ultimately the study will provide the tools and guidance needed to assist in the planning, rehabilitating, upgrading, and managing of their system.

4. Summarize the reasons for the request:

Midvale Irrigation District’s infrastructure is approximately 100 years old and requires a reconnaissance level study to assess the condition of the canal, similarly aged infrastructure, and financial analysis. This study would evaluate the current condition of infrastructure and provide a prioritized plan for the future.

II. WWDC ELIGIBILITY CONSIDERATIONS

- 1. Is the Sponsor a public entity? Yes
 - A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?
N/A
- 2. Project Priority According to WWDO Criteria: Acct II - Priority 8: LI Reconnaissance Studies
(Use Attachment III of the operating criteria.)
- 3. Will the project serve at least 1,000 water righted acres? Yes
 - A. Number of Acres: 74,000
- 4. Is the sponsor eligible for funding from other state or federal programs? Yes
 - A. If so, what are they? Federal Programs – BOR, NRCS, etc.
- 5. Is the Sponsor currently served by a regionalized water supply system (specify)? Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system? N/A
- 6. Can the project be delayed or staged? Yes
 - A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

- A. Description of Direct Flow Supply
 - (1) Direct Flow Diversion Right (CFS): 2100
 - (2) Direct Flow Source (Name of River, Stream, etc.): Wind River
 - (3) Type of Diversion (Headgate, Pump, etc.): Headgate
 - (4) Water Transmission System (Canal, Pipeline, etc.): Canal and pipeline
- B. Description of Stored Water Supply
 - (1) Name(s) of Storage Facility (Reservoir): Bull Lake
 - (2) Location: Fremont County
 - (3) Amount of Stored Water Right (Acre-Feet): 152,000
 - (4) Is any of the stored supply obtained from a federal facility? Yes
 - a. Percent of Total Supply from Federal Facility: 100%
 - b. Amount of Stored Supply from Federal Facility (Acre-Feet): 152,000
 - c. Name(s) of Federal Facility: Bull Lake
- C. Description of Groundwater Supply
 - (1) Number of Wells: N/A

- (2) Primary Supply Aquifer(s) or Formation(s): N/A
- (3) Total Average Production Yield of All Wells (GPM): N/A

D. Water Rights

- (1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

E. System Capacity

- (1) Maximum Capacity of the Water Supply System (Acre-Feet per Day or CFS): 2200 CFS
- (2) Increased Capacity Needed (If Known) (Acre-Feet per Day or CFS): N/A

F. Water Usage

- (1) Estimate of Total Water Provided by the System Annually (Acre-Feet per Year): 370 KAF
- (2) Average Day Demand (Acre-Feet per Day or CFS): 2057 AF
- (3) Maximum Day Demand (Acre-Feet per Day or CFS): 3635 AF

2. Existing Service Area and On-Farm Information

A. Service Area Information

- (1) How many total acres are in the district? 258,000
- (2) How many acres are assessed? 74,000
- (3) How many acres are irrigated? 74,000
- (4) What is the annual water delivery assessed (acre-feet per acre)? 3
- (5) How many individual land owners receive water? 930

B. On-Farm Information

- (1) What is the normal irrigation season (e.g., May 1 – Sept. 30)? April 15 - October 15
- (2) What type(s) of on-farm irrigation water applications is used (e.g., center pivot, side roll, flood, etc.)?
Flood, center pivots, side rolls, and gated pipe
- (3) Briefly describe the main crops and cropping patterns:
Alfalfa hay, corn, grains, sugar beets, beans, and irrigated pasture
- (4) Describe the water measuring devices currently in use:
Cipolletti weirs, CHO boxes, measured PTO's and flow meters
- (5) Percentage of Farm Turnouts with Measuring Devices: 90%
- (6) Are water deliveries recorded? Yes
- (7) Estimated System Water Losses (Percentage): 35%
- (8) What water conservation measures are employed by the Sponsor?
Canal lining, pipelines, pressurized conveyance systems, sprinkler configuration, and on farm center pivots

3. Financial Information

A. District Financing

- (1) Is the assessment based on acres, acre-feet delivered, acre-feet of storage, or other (specify)?
Acres
- (2) How is voting authority delegated to water users (e.g., shares, individuals, number of acres, etc.)?
Number of acres
- (3) What is the per-unit amount of the current assessment? \$21.75

(4) Is there is a basic service charge or first acre assessment in addition to assessments? If so, specify amount: \$425.00

B. Financial Statement

(1) Revenues

a. Annual Revenues Generated from Assessments:	\$ 2,003,054
b. Annual Revenues from Other Sources:	\$ 660,686
<hr/>	
c. Total Annual Revenues:	\$ 2,663,740

(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$ 2,310,040
b. Annual Payments for Debt Retirement:	\$ 83,690
c. Annual Payments to a Repair and Replacement Fund:	\$ 0
d. Annual Payments to an Emergency Fund:	\$ 0
e. Annual Payments for Other Purposes:	\$ 270,010
<hr/>	
f. Total Annual Payments:	\$ 2,663,740

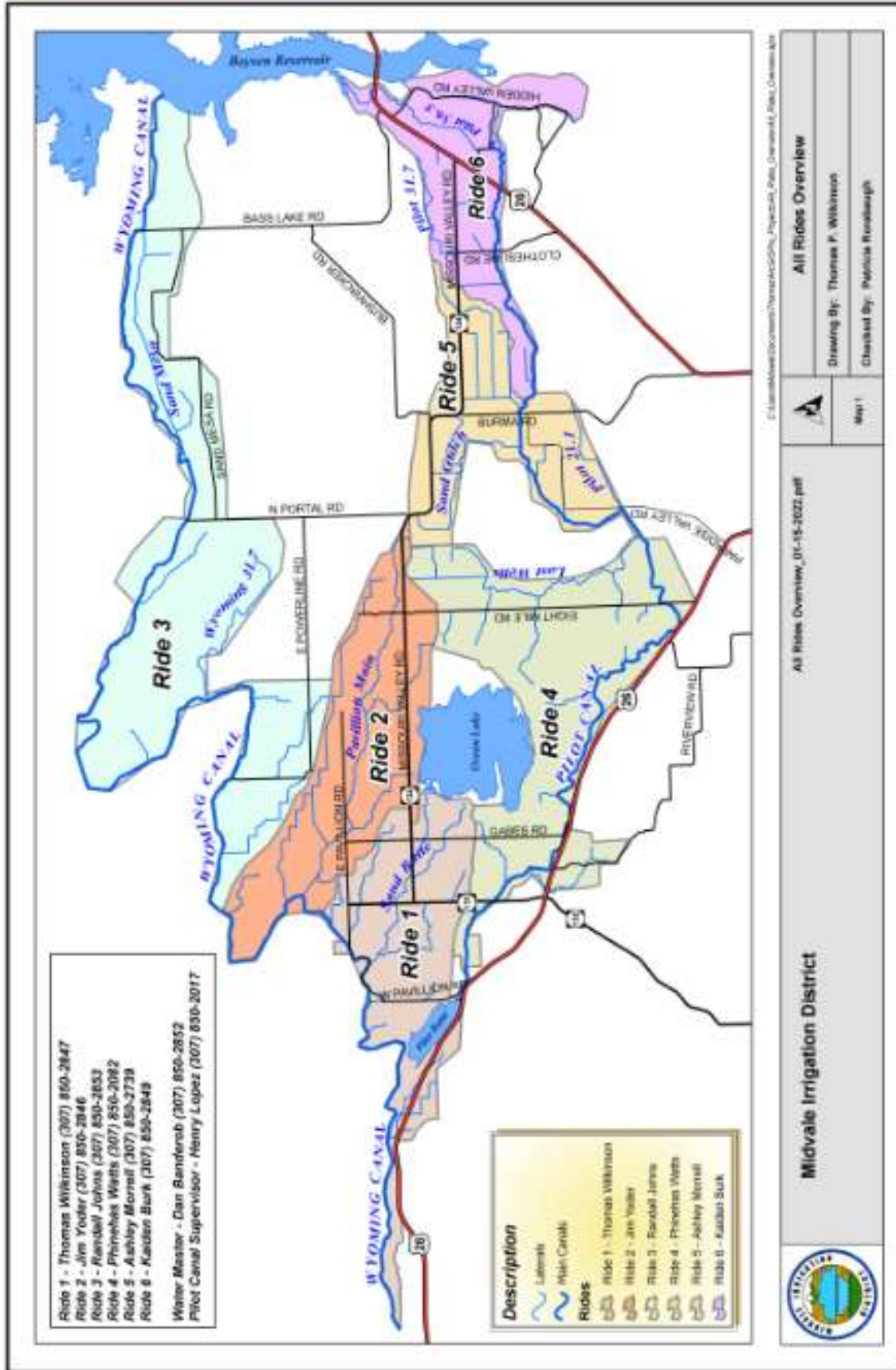
(3) Other

a. Balance in Repair and Replacement Fund:	\$ 200,000
b. Balance in Emergency Fund:	\$ 800,000
c. Explanation (If Needed):	

N/A

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? Yes

PROJECT AREA MAP



PHOTOS



RESOLUTION

**RESOLUTION OF THE BOARD OF COMMISSIONERS
MIDVALE IRRIGATION DISTRICT**

RE: WWDC GRANT FOR MASTER PLAN OF MIDVALE REHABILITATION

The following resolution of the Board of Commissioners of Midvale Irrigation District ("Midvale") was adopted at a regular meeting the Board on December 8, 2022.

WHEREAS, the Board of Commissioners determined that it is necessary and appropriate for Midvale to apply for a grant from the Wyoming Water Development Commission ("WWDC"), for the cost of preparation of a Level I Master Plan, for the gradual repair and rehabilitation of the irrigation facilities managed by Midvale; and,

WHEREAS, the Board of Commissioners' wish to apply to WWDC for funding necessary to prepare a Level I Master Plan, and concurrently pay the associated application fee of \$1,000.00 and a refundable fee of \$3,000.00, to WWDC, in consideration of all the benefits that would inure to Midvale from completion of the Master Plan;

BE IT RESOLVED: Upon motion duly made and seconded, the Board of Commissioners of Midvale Irrigation District, unanimously approved submission of an application to WWDC for the funding necessary to prepare a Level I Master Plan for the repair and rehabilitation of the irrigation facilities managed by Midvale, together with payment of an application fee of \$1,000.00 and a refundable fee of \$3,000.00 to the WWDC.

RESPECTFULLY SUBMITTED,


Garrett Klein, Secretary

READ & APPROVED:


Rich Pingetzer, President

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

AGRICULTURAL WATER PROJECTS

Project Name: Powder River Irrigation District Master Plan

Program: Rehabilitation

Project Type: Agricultural Irrigation Supply

County: Johnson

Sponsor: Powder River Irrigation District

WWDO Recommendation: Level I

Proposed Budget: \$176,000

Basis for the Funding Recommendation:

The Powder River Irrigation District is a WWDC eligible public entity and is requesting funding to develop a Level I Master Plan. A previous inventory of the Sahara Ditch, within the District, was completed over 20 years ago and the District followed up on completing many of the recommended projects. The District is in need of a current, comprehensive inventory of the system, assessment of condition of components and prioritized options for keeping the system operational. This study will include GIS mapping and provide guidance for the District to apply for additional planning and construction funding through WWDC and other programs.

Project Manager: Mabel Jones

I. PROJECT DESCRIPTION

Powder River Irrigation District (District) is proposing to sponsor a Level I Master Plan to evaluate irrigation infrastructure and provide a schedule for improvements with cost estimates.

1. Existing and Prior Legislation:

<u>Project</u>	<u>Level</u>	<u>Chapter</u>	<u>Session</u>	<u>Account</u>	<u>Appropriation</u>	<u>Reversion Year</u>
Sahara Canal Improvements	II	43	1992	II	\$ 75,000	1993
Sahara Diversion Structure	III	28	1992	II	\$ 340,000	1995
Sahara Rehabilitation	III	89	1993	II	\$ 560,000	1996

2. Describe the location of the project:

This project area is within the Powder River Irrigation District and includes agricultural land east of the town of Kaycee, Wyoming extending to the town of Sussex, Wyoming. State Highway 1002 provides access to the area. The District is located in Johnson County, Wyoming. The District provides water for 28 landowners who are irrigating approximately 5300 acres of grass hay, alfalfa, small grains, and pasture.

3. Summarize the request:

The District is requesting a reconnaissance study to determine the current condition and future needs for agricultural water delivery to 28 landowners. The water is supplied via the Sussex Irrigation Canal (also known as the Sahara Ditch) which was constructed starting in 1902. The canal originates at a diversion dam on the Middle Fork Powder River and extends for approximately 15 miles until it pours into Fourmile Creek near Sussex. The Level I study will examine the condition of the irrigation conveyances, siphons, turnouts, and other structures to provide the District with guidance for planning and phasing future rehabilitation and upgrades.

4. Summarize the reasons for the request:

The ditch infrastructure was constructed in the early 1900s and has not had a planning study completed since 1992. The District has been operating under a “repair only when needed” philosophy with little formal maintenance or replacement programs in place. Dedicated funds for these programs do not exist. The District needs itemization and prioritization of actionable projects along with cost estimates to evaluate financing options. This study will provide the District with GIS mapping, assessment of infrastructure condition, and prioritized projects to address water use efficiency and infrastructure repair or replacement. Specific areas of concern include siphons which are reaching the end of their life and challenges with water delivery due to seepage from the canal.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? Yes
 - A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?
N/A
2. Project Priority According to WWDO Criteria: Acct II - Priority 8: LI Reconnaissance Studies
3. Will the project serve at least 1,000 water righted acres? Yes
 - A. Number of Acres: 5116
4. Is the sponsor eligible for funding from other state or federal programs? Yes
 - A. If so, what are they? Potentially NRCS, Bureau of Reclamation
5. Is the Sponsor currently served by a regionalized water supply system (specify)? No Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system? The District would consider regional solutions to meet the purpose and need of the water supply system.
6. Can the project be delayed or staged? Yes
 - A. Should it be? No

III. PERTINENT INFORMATION

1. Existing Water Supply System

- A. Description of Direct Flow Supply
 - (1) Direct Flow Diversion Right (CFS): 73 cfs
 - (2) Direct Flow Source (Name of River, Stream, etc.): Middle Fork Powder River
 - (3) Type of Diversion (Headgate, Pump, etc.): Headgate
 - (4) Water Transmission System (Canal, Pipeline, etc.): Canal
- B. Description of Stored Water Supply
 - (1) Name(s) of Storage Facility (Reservoir): N/A
 - (2) Location: N/A
 - (3) Amount of Stored Water Right (Acre-Feet): N/A
 - (4) Is any of the stored supply obtained from a federal facility? N/A
 - a. Percent of Total Supply from Federal Facility: N/A
 - b. Amount of Stored Supply from Federal Facility (Acre-Feet): N/A
 - c. Name(s) of Federal Facility: N/A
- C. Description of Groundwater Supply
 - (1) Number of Wells: N/A

- (2) Primary Supply Aquifer(s) or Formation(s): N/A
- (3) Total Average Production Yield of All Wells (GPM): N/A

D. Water Rights

- (1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

E. System Capacity

- (1) Maximum Capacity of the Water Supply System (Acre-Feet per Day or CFS): 76 CFS
- (2) Increased Capacity Needed (If Known) (Acre-Feet per Day or CFS): Unknown

F. Water Usage

- (1) Estimate of Total Water Provided by the System Annually (Acre-Feet per Year): 22,606 Acre-Feet
- (2) Average Day Demand (Acre-Feet per Day or CFS): unknown
- (3) Maximum Day Demand (Acre-Feet per Day or CFS): unknown

2. Existing Service Area and On-Farm Information

A. Service Area Information

- (1) How many total acres are in the district? 5,650
- (2) How many acres are assessed? 5,116
- (3) How many acres are irrigated? 5,346
- (4) What is the annual water delivery assessed (acre-feet per acre)? \$6.50 Per Acre
- (5) How many individual land owners receive water? 28

B. On-Farm Information

- (1) What is the normal irrigation season (e.g., May 1 – Sept. 30)? April 15 to October 15
- (2) What type(s) of on-farm irrigation water applications is used (e.g., center pivot, side roll, flood, etc.)? Flood, Center Pivot, Side Roll, Gated Pipe
- (3) Briefly describe the main crops and cropping patterns:
Alfalfa, grass and grain crops
- (4) Describe the water measuring devices currently in use:
Rectangular weir at the diversion structure
- (5) Percentage of Farm Turnouts with Measuring Devices: 0%
- (6) Are water deliveries recorded? No
- (7) Estimated System Water Losses (Percentage): 20-30%
- (8) What water conservation measures are employed by the Sponsor? Water is regulated by the District during low flow periods. The District has an ongoing project in cooperation with Johnson County Weed & Pest to remove Russian olive along the canal. An additional conservation project, in cooperation with NRCS, is hardening the 15 Mile Draw overflow to reduce erosion.

3. Financial Information

A. District Financing

- (1) Is the assessment based on acres, acre-feet delivered, acre-feet of storage, or other (specify)?
Acres
- (2) How is voting authority delegated to water users (e.g., shares, individuals, number of acres, etc.)?
Number of Acres

(3) What is the per-unit amount of the current assessment? \$6.50 per acre

(4) Is there a basic service charge or first acre assessment in addition to assessments? No If so, specify amount: N/A

B. Financial Statement

(1) Revenues

a. Annual Revenues Generated from Assessments:	\$ 33,253.22
b. Annual Revenues from Other Sources:	\$ 0
<hr/>	
c. Total Annual Revenues:	\$ 33,253.22

(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$ Varies*
b. Annual Payments for Debt Retirement:	\$ 22,735.57
c. Annual Payments to a Repair and Replacement Fund:	\$ N/A
d. Annual Payments to an Emergency Fund:	\$ None
e. Annual Payments for Other Purposes:	\$ N/A
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f. Total Annual Payments:	\$ Varies*

(3) Other

a. Balance in Repair and Replacement Fund:	\$ N/A
b. Balance in Emergency Fund:	\$ N/A

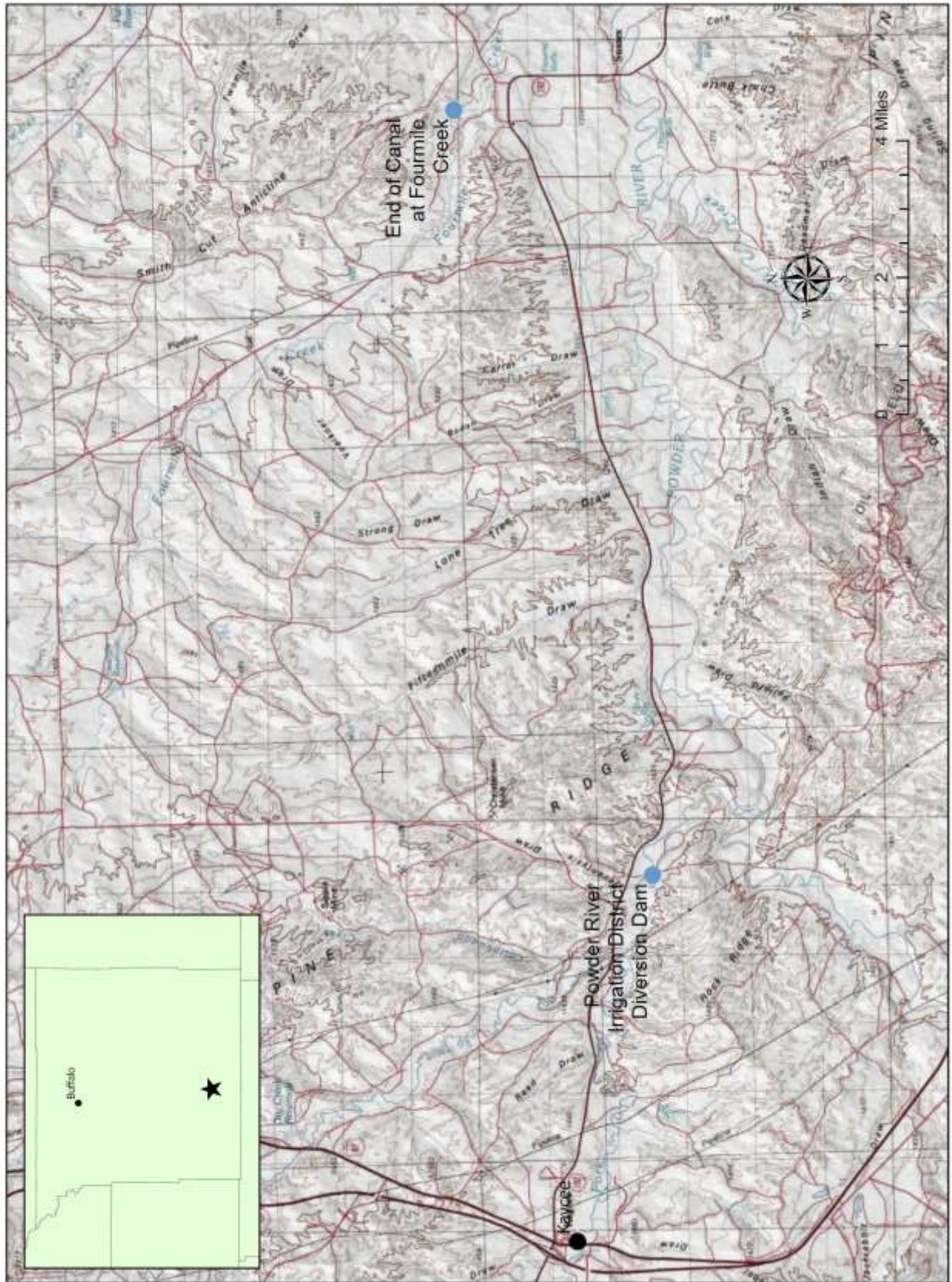
c. Explanation (If Needed): *The annual budget for Operations and Maintenance is up to \$23,600. On an annual basis the district does not generally spend this amount unless there are emergencies.

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.? No

a. If not, how is the difference subsidized?

The District is self-supporting for everything but replacement/emergency funds which are supplemented with grants and loans.

Powder River Irrigation District Level I Study Project Area



Powder River Irrigation District LI Study-Site Visit Photos



Middle Fork Powder River diversion dam and headgate (left) to Sussex Irrigation Canal. These structures were constructed in 1994 and are reported by the District be in good condition.



Siphon extending canal under South Fork Powder River was also constructed in 1994 and is reported to be in good condition. The Sussex Irrigation Canal has four siphons.



Seepage is common along the canal and water loss is estimated to be significant. Getting water to the end of the canal, where some of the larger irrigated lands are present, is challenging.



Fifteen Mile Draw Siphon is a welded steel siphon which was likely constructed in 1962 to replace a flume crossing the draw. This siphon was identified by the District as being in poor condition with the steel being paper thin in places. The siphon inlet structures are shown **below**.



RESOLUTION

POWDER RIVER IRRIGATION DISTRICT

MAY 23, 2022

The Powder River Irrigation District Board members met at the home of Jane Carr on May 23, 2022.

President Dale Koch called the meeting to order at 7:05 PM. Members present were Pete Meike, Fred and Jane Carr, John Kinchen and Dick Gould, and Talbot Koch. Also present was Don Meike, and Kevin Lund, Joe Kinchen, Markus Koch, Ben and Nancy Schiffer.

The minutes from the last annual meeting on May 20, 2021 was read. Pete Meike moved to accept the minutes as read. John Kinchen seconded. As there were no corrections, the minutes stand approved as read.

Dick Gould gave a Treasurer report. As of April 30, 2022 we had \$35,619.84 in the checking account and as of June 30, 2021 we had \$62,823.16 in the WYO-STAR account. Dick Gould said that the Powder River Irrigation District only had to pay the Powder River Conservation District \$851.95 for phase one at 15 mile. Pete Meike moved to accept the Treasurer report as read. John Kinchen seconded. As there were no corrections, the Treasurer's report stands approved as read.

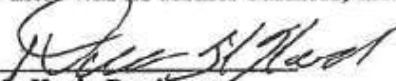
John Kinchen made a motion to keep the assessments the same as last year, \$6.50 per acre with \$2.00 of the \$6.50 going to the sinking fund. Dick Gould seconded. All in favor. Motion carried.

Dale Koch called for nominations for President. Fred Carr nominated Talbot Koch. Talbot Koch nominated Fred Carr for Vice Presidents. Dick Gould seconded. Nominations ceased. Dick Gould will remain as Treasurer and Jane Carr as Secretary. All in favor. Motion carried.

Kevin Lund gave a report on 15 mile and phase two plans are done. We are still looking for funding.

Ben Schiffer gave a report to do a level one master study on the Sussex Irrigation Ditch. We can apply for a grant from the Wyoming Water Development Commission in Cheyenne that would pay 2/3rd and we could get a loan for the other 1/3rd. Applications for this master study is due March 1, 2023. This study would cover everything from seeps in the ditch to repairs. The application fee would be \$3000.00. After the study then we can do level two as the next step. Which is to make plans and level three would be the construction part. Dick Gould moved to file and submit the application for a Master Study on the Sussex Irrigation Ditch. Kevin Seconded. Ben will start the process of filling out the application and present it to everyone before the annual meeting of the Sussex Irrigation Company in December 2022.

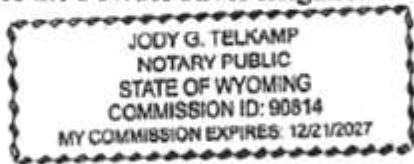
As there was no further business, the meeting adjourned at 7:45 PM.


Dale Koch, President


Jane Carr, Secretary

State of Wyoming
County of Johnson

This instrument was acknowledged before me on January 10, 2027 by Dale Koch
and Jane Carr as
officers of the Powder River Irrigation District.



Jody G. Telkamp
Notary

My commission expires: 12.21.27

2024 WATER DEVELOPMENT PROGRAM RECOMMENDATION

AGRICULTURAL WATER PROJECTS

Project Name: Strawberry Canal Master Plan

Program: New Development

Project Type: Agricultural Irrigation Supply

County: Lincoln

Sponsor: Strawberry Canal Company

WWDO Recommendation: Do Not Fund

Proposed Budget: \$0

Recommend waiving, for this Level only, the requirement that the Sponsor be a public entity.

Basis for the Funding Recommendation:

The Sponsor is eligible for a Planning Program irrigation system master plan based on the WWDC Operating Criteria allowing the requirement to be a public entity to be waived for Level I studies. The Sponsor has initiated the process to become an Irrigation District (see Page 9 of recommendation for meeting minutes related to District formation). This study will inventory and evaluate the current condition of the irrigation system and identify deficiencies and provide a schedule for improvements with cost estimates.

Project Manager: Mabel Jones

I. PROJECT DESCRIPTION

The Strawberry Canal Company (Company) is proposing to sponsor a Level I Master Plan to evaluate irrigation infrastructure, identify deficiencies and provide a schedule for improvements with cost estimates.

1. Existing and Prior Legislation:

The project Sponsor has not received funding for prior WWDO projects.

2. Describe the location of the project:

The project area encompasses approximately 6000 acres in the Middle Star Valley adjacent to and encompassing the towns of Thayne and Bedford respectively. The project area includes two pipeline companies and ditch networks providing water to approximately 372 landowners. State Highway 89 provides access to the area. The source streams are Strawberry Creek and Willow Creek.

3. Summarize the request:

The Strawberry Canal Company is requesting funding to develop a Level I Master Plan. This plan will include options for the Company to pursue to become a public entity. A comprehensive inventory of the system, assessment of condition of components and prioritized options are needed to keep the system operational. This study will include GIS mapping, water rights research and provide guidance to apply for additional planning and construction funding through WWDC and other programs.

4. Summarize the reasons for the request:

The area represented by the Company is served by infrastructure which is decaying. Accessibility to water varies greatly throughout the system due to headgate and pipeline condition. New housing construction in the area is also presenting challenges for water delivery. The Company has concerns that the lack of long-term rehabilitation

planning in combination with the loss of local institutional knowledge will impact access to water and agricultural production in the area.

II. WWDC ELIGIBILITY CONSIDERATIONS

1. Is the Sponsor a public entity? No
 - A. If not, is the recommendation for a Level I study or Level I or II study for a dam and reservoir project?
No
2. Project Priority According to WWDO Criteria: Acct II - Priority 8: LI Reconnaissance Studies
(Use Attachment III of the operating criteria.)
3. Will the project serve at least 1,000 water righted acres? Yes
 - A. Number of Acres: Unsure; water rights assessment will be part of this study.
4. Is the sponsor eligible for funding from other state or federal programs? Yes
 - A. If so, what are they? Some landowners have received NRCS funds.
5. Is the Sponsor currently served by a regionalized water supply system (specify)? No Or will the Sponsor consider regional solutions to the purpose and needs of its water supply system? Possibly
6. Can the project be delayed or staged? Yes
 - A. Should it be? It is not recommended that the project be delayed or staged. Star Valley is currently undergoing change and experiencing pressure due to growth and land sales given the desirability of the area. A timely study identifying rehabilitation needs is important to maintain current agricultural operations and to respond to growth.

III. PERTINENT INFORMATION

1. Existing Water Supply System

A. Description of Direct Flow Supply

- (1) Direct Flow Diversion Right (CFS): Unknown, this will be included in work tasks.
- (2) Direct Flow Source (Name of River, Stream, etc.): Strawberry and Willow Creeks
- (3) Type of Diversion (Headgate, Pump, etc.): Headgate
- (4) Water Transmission System (Canal, Pipeline, etc.): Canal, pipelines, ditches

B. Description of Stored Water Supply

- (1) Name(s) of Storage Facility (Reservoir): N/A
- (2) Location: N/A
- (3) Amount of Stored Water Right (Acre-Feet): N/A
- (4) Is any of the stored supply obtained from a federal facility? No
 - a. Percent of Total Supply from Federal Facility: N/A
 - b. Amount of Stored Supply from Federal Facility (Acre-Feet): N/A
 - c. Name(s) of Federal Facility: N/A

C. Description of Groundwater Supply

- (1) Number of Wells: N/A
- (2) Primary Supply Aquifer(s) or Formation(s): N/A
- (3) Total Average Production Yield of All Wells (GPM): N/A

D. Water Rights

(1) For the water source supply (or supplies) described above, does the Sponsor possess valid and/or adjudicated water rights? Yes

E. System Capacity

(1) Maximum Capacity of the Water Supply System (Acre-Feet per Day or CFS): Unknown

(2) Increased Capacity Needed (If Known) (Acre-Feet per Day or CFS): Unknown

F. Water Usage

(1) Estimate of Total Water Provided by the System Annually (Acre-Feet per Year): Unknown

(2) Average Day Demand (Acre-Feet per Day or CFS): Unknown

(3) Maximum Day Demand (Acre-Feet per Day or CFS): Unknown

2. Existing Service Area and On-Farm Information

A. Service Area Information

(1) How many total acres are in the district? 6280

(2) How many acres are assessed? 5945

(3) How many acres are irrigated? Unsure

(4) What is the annual water delivery assessed (acre-feet per acre)? Per acre

(5) How many individual land owners receive water? 372

B. On-Farm Information

(1) What is the normal irrigation season (e.g., May 1 – Sept. 30)? May 1-September 30

(2) What type(s) of on-farm irrigation water applications is used (e.g., center pivot, side roll, flood, etc.)?

Pivots, wheel lines, handlines, flood irrigation

(3) Briefly describe the main crops and cropping patterns:

Alfalfa, grass, barley, oats

(4) Describe the water measuring devices currently in use: N/A

(5) Percentage of Farm Turnouts with Measuring Devices: 0

(6) Are water deliveries recorded? No

(7) Estimated System Water Losses (Percentage): Unknown

(8) What water conservation measures are employed by the Sponsor? Monitoring use and repairing conveyance leaks

3. Financial Information

A. District Financing

(1) Is the assessment based on acres, acre-feet delivered, acre-feet of storage, or other (specify)?

Acres

(2) How is voting authority delegated to water users (e.g., shares, individuals, number of acres, etc.)?

Number of Acres

(3) What is the per-unit amount of the current assessment?

Assessment zone	Pipeline Assessment/Acre	General Ditch Assessment/Acre	Total Assessment/Acre
Zero Assessment zone (no water)	N/A	N/A	\$0.00
General ditch assessment	na	\$1.50	\$1.50
Miller Pipeline company	\$10.00	\$1.50	\$11.50
Upper Strawberry Canal Company (under 10 acres)	\$7.25	\$1.50	\$8.75
Upper Strawberry Canal Company (over 10 acres)	\$14.50	\$1.50	\$16.00

(4) Is there is a basic service charge or first acre assessment in addition to assessments? If so, specify amount:

Assessment zone	Service Charge
Zero Assessment zone (no water)	N/A
General ditch assessment	\$25.00
Miller Pipeline company	\$100.00
Upper Strawberry Canal Company (under 10 acres)	\$25.00
Upper Strawberry Canal Company (over 10 acres)	\$25.00

B. Financial Statement

(1) Revenues

a. Annual Revenues Generated from Assessments:	\$ 33,042.28
b. Annual Revenues from Other Sources:	\$ 0
c. Total Annual Revenues:	\$ 33,042.28

(2) Expenditures

a. Annual Budget for Operation and Maintenance Expenses:	\$ 11,000.00
b. Annual Payments for Debt Retirement:	\$ 0
c. Annual Payments to a Repair and Replacement Fund:	\$ 0
d. Annual Payments to an Emergency Fund:	\$ 0
e. Annual Payments for Other Purposes:	\$ 0
f. Total Annual Payments:	\$ 11,000.00

(3) Other

a. Balance in Repair and Replacement Fund:	\$ 57,635.53
b. Balance in Emergency Fund:	\$ *
c. Explanation (If Needed):	

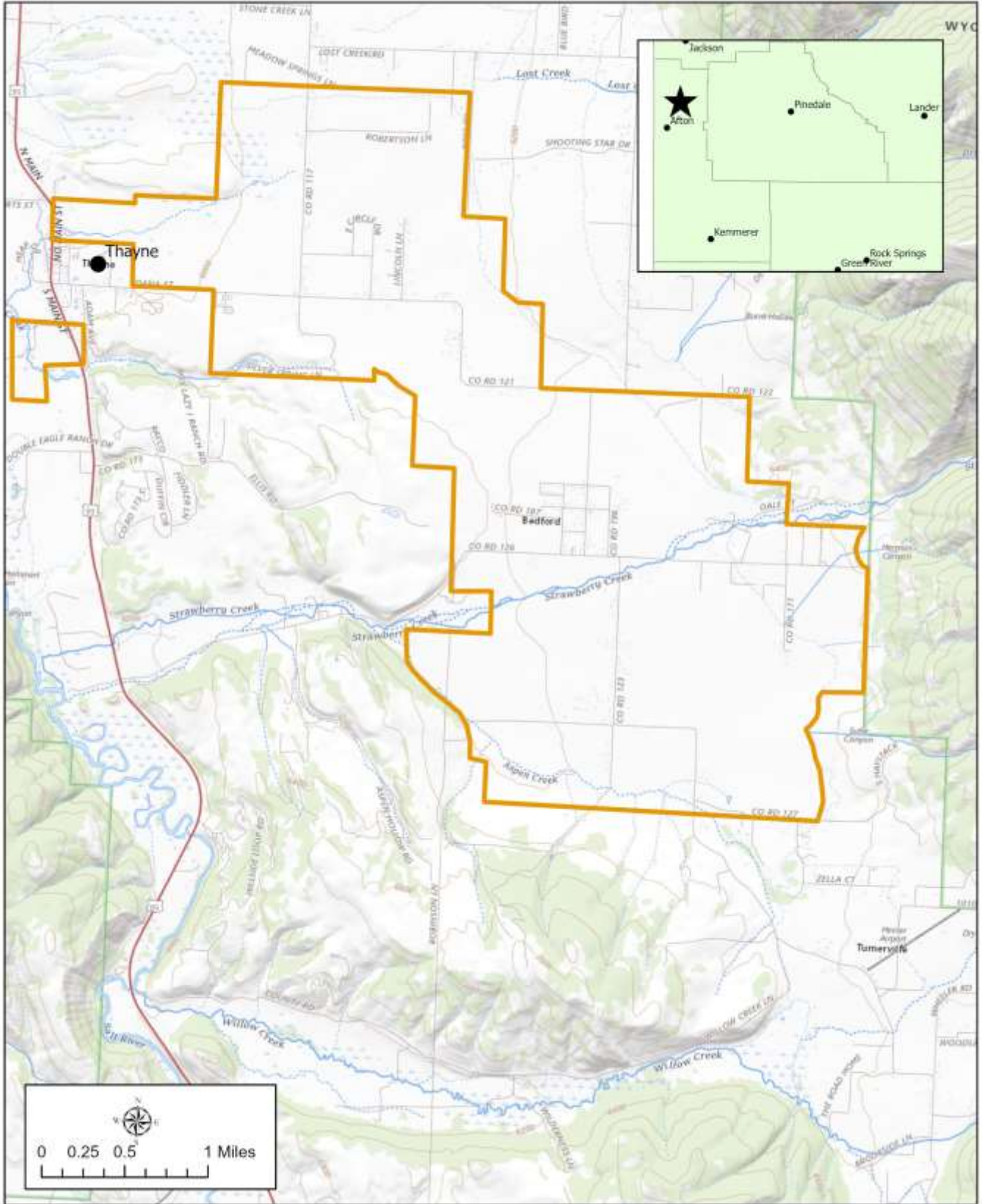
*Emergency Fund and Repair and Replacement Fund are combined.

(4) Is the operation of the water system self-supporting in terms of revenues offsetting costs for operation, maintenance, debt retirement, replacement funds, emergency funds, etc.?

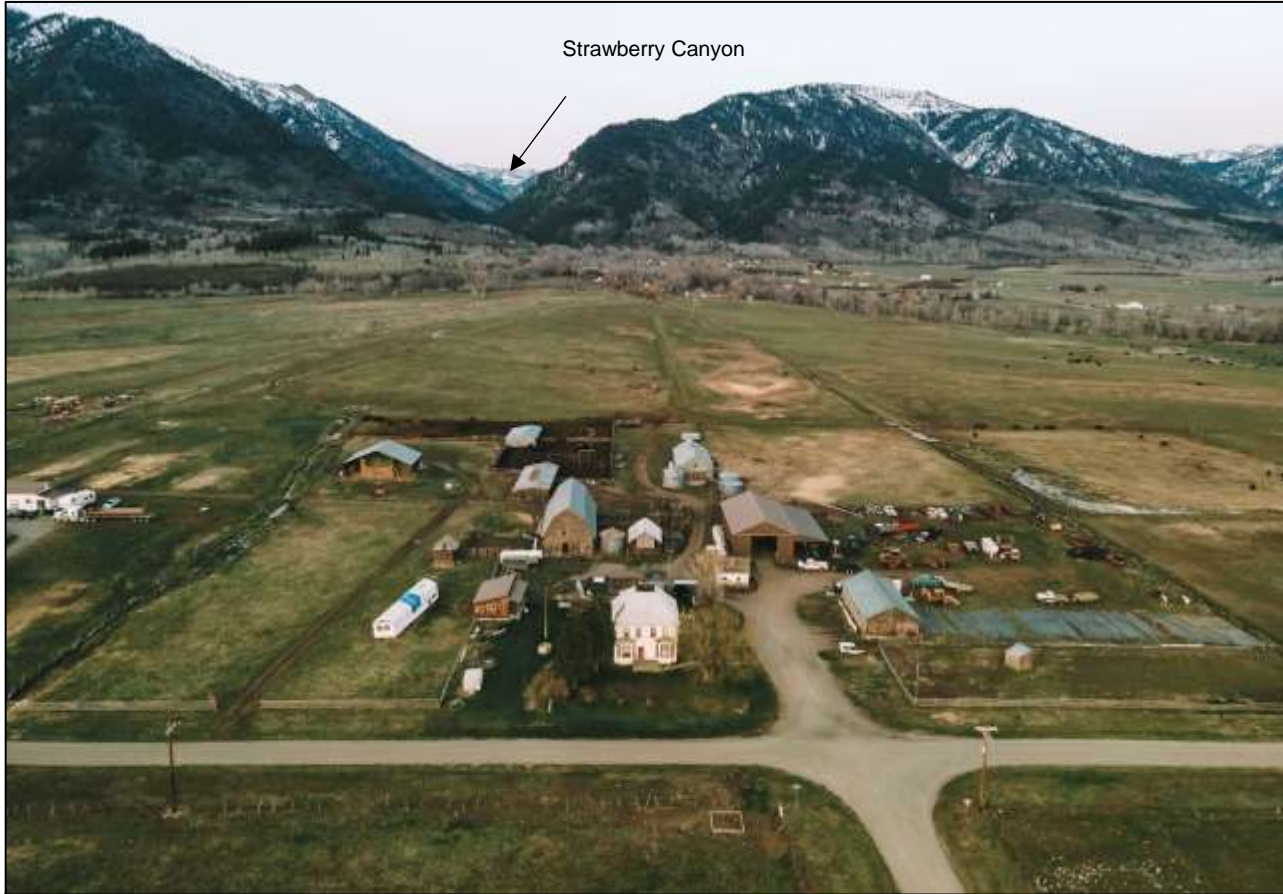
Currently self-supporting but unable to support near future repairs without financial assistance.

a. If not, how is the difference subsidized? N/A

Strawberry Canal Company Approximate Boundaries



PHOTOS (All photos courtesy of Strawberry Canal Company)



Central Bedford Area. Strawberry Canyon is at the center of the image. Strawberry Creek on the east side of the project area (along with Willow Creek to the south) provide source water for irrigators. .



Bedford Area. Photo taken from the east.



Examples of Leakage on Main Conveyance Pipeline. All repairs are completed by Upper Strawberry Canal Company.

RESOLUTION

Strawberry Canal Company

RESOLUTION

SUPPORT OF LEVEL I APPLICATION TO WYOMING WATER DEVELOPMENT COMMISSION

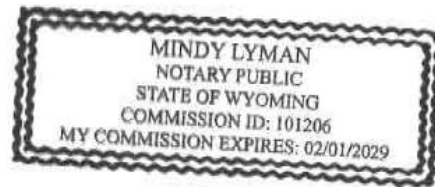
Whereas it is the Strawberry Canal Company Board's obligation to provide irrigation water to the members of the Strawberry Canal company area; and Whereas the Strawberry Canal Company Board intends to become a district; and Whereas, the Strawberry Canal Company Board, believes time is of the essence; Therefore, be it Resolved, the Strawberry Canal Company board of directors fully supports the Level 1 Application to Wyoming Water Development Office for funding a planning study.

Signed 2-23-23 (date)

Jullie Olenlager
President Jullie Olenlager, Strawberry Canal Company

Jen Downing
Secretary Jen Downing, Strawberry Canal Company

Mindy Lyman



MEETING MINUTES

Minutes for Strawberry Canal Company meeting held on 2/22/23 at 7:00PM

Members in attendance: Jullie Olenlager, Roger Preston, Lauren Preston, Evan Heiner, Carter Downing, Jen Downing

The first order of business was that we determined that Jullie Olenlager as president has the authority to commit Upper Strawberry Canal Company to a binding contract with the Wyoming Water Development Commission to pursue Level one funding. Our hope is that level one funding will help with our long term goals of becoming a district, repairing aging infrastructure, and better understanding the existing infrastructure and water rights of our company.

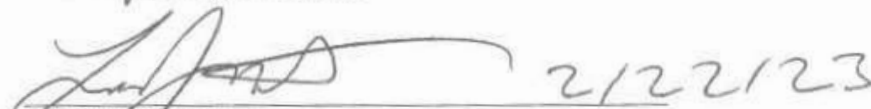
The second order of business is that we decided that Jullie Olenlager and Jen Downing will have the right to sign the resolution for support of Level one application on the behalf of the entire board, as it is impractical at this time for the whole board to be present before the notary.

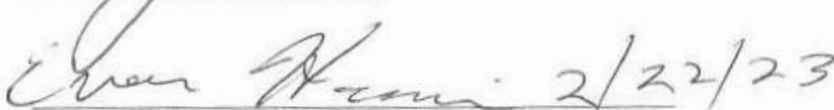
The third order of business is that all members were shown a copy of potential bylaws that would likely represent our structure once we become a district, and approved it as a working document with the understanding that it will take significant further adjustment, but is a fair representation of our intentions as a company which intends to become a district.

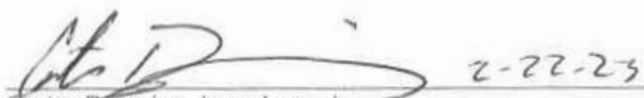
The fourth order of business is that all members were presented with maps of the company and they are correct to the best of our knowledge.


Jullie Olenlager, President


Roger Preston, Vice President


Lauren Preston, board member


Evan Heiner, board member


Carter Downing, board member


Jen Downing, Secretary