2018
LEGISLATIVE REPORT

Dull Knife Reservoir Spillway Rehabilitation

WYOMING
WATER DEVELOPMENT
COMMISSION

2018 LEGISLATIVE REPORT
WYOMING WATER DEVELOPMENT PROGRAM

Wyoming Water Development Commission (029)
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December 2018

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WYOMING WATER DEVELOPMENT PROGRAM

CHAPTER 1 - WYOMING WATER DEVELOPMENT PROGRAM

I. Introduction

A. Vision

We envision a Wyoming where people can develop the skills needed to seize the opportunities to live their individual dreams; a Wyoming where people enjoy an environment free from contaminants and secure from harm; a Wyoming where people can attain a quality standard of living; and a Wyoming where people can enjoy the benefits of our bountiful resources and natural beauty.

B. Philosophy

The Wyoming Water Development Program was founded on the sound philosophy of utilizing a portion of the income the state receives from the development and use of its non-renewable resources, such as coal, oil and gas, to develop and manage a renewable resource, water. One way in which water resource management is achieved is by evaluating development and rehabilitation strategies, and selecting the best alternatives for constructing new or rehabilitating existing infrastructure. In this manner, the Wyoming Water Development Program will ensure the delivery of water to Wyoming citizens in an economical and environmentally responsible manner. Sound water planning and use will preserve Wyoming's water entitlements and will promote the effective and efficient use of the state's water resources.

C. Contribution to Wyoming Quality of Life

This agency contributes to the quality of life by addressing the water resources needs of our citizens through the construction of new water supply projects and the rehabilitation of existing water supply projects. As a result, Wyoming's water resources are managed, developed, and maintained for the enjoyment and beneficial use of current and future generations of Wyoming. The Wyoming Water Development Program benefits the entire population, as well as all visitors to the state, by providing and maintaining adequate water supplies and planning for future needs.

II. Duties and Responsibilities

Each year precipitation events and runoff generate an average of 15 million acre-feet of surface water within the State of Wyoming. An additional 2 million acre-feet of stream flow originates from other states. Wyoming is entitled, under the various interstate river compacts and court decrees, to use or consume approximately 6 million acre-feet per year. Presently, the state uses 3 million acre-feet of surface water per year. Therefore, approximately 3 million acre-feet of surface water remains available for Wyoming's future use. Of this available water, approximately 2.5 million acre-feet is in the Wind/Big Horn River Basin.

Water availability is a key ingredient for development of a stable Wyoming economy. Implementation of water management opportunities provides short-term economic benefits to the state in the form of jobs, increased material and equipment sales, improved recreational and hunting and fishing opportunities, and other indirect benefits to local and state economies.

A. Water Resource Development

In 1977, the revenue sources that fund the New Development Program were established. In 1982, the Governor proposed and the legislature implemented the framework for the present Water Development Program. In 1983, the revenue streams that fund the Rehabilitation Program were established. Since 1983 the program's water resource management activities have evolved to the following:

1. New Development Program

The New Development Program provides planning services and construction funds for the infrastructure necessary to supply unused and/or unappropriated water to meet the present and

future needs of Wyoming and its citizens. Water supply and storage facilities such as small dams, diversion structures, groundwater wells and transmission pipelines are eligible for assistance under the New Development Program. The New Development Program is dedicated to the efficient and timely management of water resources, consistent with state policy, Wyoming water laws, and the desires of the citizens of the state. The criteria for scheduling new development projects is based on the general philosophy that effective beneficial use of Wyoming's water will ensure its preservation for use by Wyoming residents.

A project sponsor may be a municipality, irrigation district, or other approved assessment district who is a major beneficiary of the project. Sponsors request project specific technical and financial assistance from the Wyoming Water Development Commission (WWDC) through the application process. If the Commission approves the application, the project is assigned a study level. If the project is determined to be technically and economically feasible and comports with program funding criteria, the Commission may recommend that construction funding be appropriated by the legislature. The project sponsor must be willing and capable of financially supporting a percentage of the project development costs plus all operation and maintenance costs. The actual loan/grant mix is based on WWDC funding criteria.

2. Rehabilitation Program

The Rehabilitation Program provides funding assistance for the improvement of water projects completed and in use for at least fifteen (15) years. Improvements to ensure dam safety, rehabilitate existing facilities, decrease operation and maintenance costs, promote water conservation, or provide a more efficient means of using existing water supplies may be funded by the Rehabilitation Program. The program ensures that existing water supplies and supply systems remain effective and viable.

Rehabilitation projects are initiated by an application from a project sponsor. If the application is deemed feasible and approved, the project is assigned a study level and may proceed through construction. The project sponsor must be willing and capable of financially supporting all operation and maintenance costs as well as a percentage of the project rehabilitation costs. The actual loan/grant mix is based on WWDC funding criteria.

3. Dam and Reservoir Program

In 2005, the legislature authorized funding for a new program within the Wyoming Water Development Office. The purpose of the program is to concentrate on the identification, evaluation, permitting, and construction of new dams with a storage capacity of 2,000 acre-feet or more and proposed expansions of existing dams of 1,000 acre-feet or more.

The Dam and Reservoir Division, within the Wyoming Water Development Office, administers this program. The division also serves to assist the Director in the management of the state's water investments.

B. Water Resource Management and Planning

1. Water Investment Management

The Wyoming Water Development Office (WWDO), through the Commission, manages the state's water investments. Water Investment Management accounts were established by W.S. 99-99-1001 to ensure the state's operation, maintenance, replacement, mitigation, and contract obligations are met in an effective and timely manner for each designated facility. The WWDO markets the water made available by these investments to industries, municipalities, and irrigators. Any revenues received from these investments are deposited into the respective account. The background, history, and a detailed transaction activity of each account is available upon request to the WWDO. A summary of the state's water investments follows:

Account	Wyoming's Storage (Acre-Feet)	6/30/2018 Account Balance	Balance
Fontenelle Reservoir	120,000	3,263,463	Increasing
Buffalo Bill Dam	187,940	23,086,571	Increasing
Palisades Reservoir	33,000	468,696	Increasing
Miscellaneous Water Investment	5,000	11,485	Decreasing
High Savery Reservoir	22,433	1,175,231	Stable
Pathfinder Modification	53,493	9,447,605	Increasing
Glendo Reservoir	10,600	903,623	Increasing
Keyhole Reservoir	0	0.00	N/A
Lake DeSmet Reservoir/ Healy Reservoir	62,199 / 5,140	2,000,000	Stable

These accounts contain the funds necessary to sustain the corresponding dams and reservoirs. A sizeable amount of funds is needed to ensure contingencies are managed when required. All of the dams and reservoirs for which the state has an obligation are high-hazard facilities. In addition, aging dams and reservoirs may have increased obligations. Thus, it is critical to have the financial resources necessary to adequately maintain these reservoirs thereby ensuring the continued benefits of these dams and reservoirs. Per statute, the Buffalo Bill Dam account may be used to meet the obligations for any of the other accounts.

On August 17, 2018, the WWDC reviewed the financial status and projections for each of the seven reservoir water investment management accounts. The conclusion and recommendation was that there are excess funds in one account, the Buffalo Bill Dam account. The following is a brief summary of activity for FY 2018 of each account:

Fontenelle Reservoir Account

In the past the Fontenelle Reservoir account received transfers from the Buffalo Bill Dam account to fund loan payments to the Bureau of Reclamation for water. One of the loans was recently paid in full. As such, the Fontenelle Reservoir account is now increasing. There is a current project, Fontenelle Dam & Outworks Infrastructure Completion, analyzing the feasibility of making an additional 80,796 acre-feet of currently inactive capacity usable. The Fontenelle Reservoir account with assistance from the Buffalo Bill Dam account may be a source of funding for the infrastructure needed to utilize the additional storage.

Buffalo Bill Dam Account

The Buffalo Bill Dam account receives annual payments from the Western Area Power Administration as the State of Wyoming funded the upgrade to the hydropower plant. The repayment of this obligation will be complete in 2030. The WWDC is recommending to the Legislature one transfer from this account due to excess funds. The recommendation is per W.S. 99-99-1001(c) to transfer $5,500,000 to WDA I in FY 2019.

Palisades Reservoir Account

The recent revenue gains in this account are the result of replacement water obligations of groundwater irrigators in eastern Idaho and the availability of water to sell in the WY account.

Miscellaneous Water Investment Account

In recent years, the Miscellaneous Water Investment account has received two transfers from the Buffalo Bill account to fund the state's share of operation and maintenance costs for storage of water in Seminoe Reservoir.

High Savery Reservoir Account
The High Savery Dam and Reservoir is owned and operated by the State of Wyoming and requires daily monitoring. The account is currently stable.

Pathfinder Modification Account
The increase in revenue is due to water sales to municipalities and the Platte River Recovery Implementation Program. Currently there is no statutory provision to move excess funds from the Pathfinder Modification Account.

Glendo Reservoir Account
The Glendo Reservoir account is slowly increasing as investment income earned within the account has been slightly above the operation and maintenance costs and water purchase costs. Currently there is no statutory provision to move excess funds from the Pathfinder Modification Account.

Keyhole Reservoir Account
This account was never setup because Wyoming does not lease or own any space in the reservoir.

Lake DeSmet Reservoir Account
Since the purchase of the Lake DeSmet Reservoir water asset and Healy Reservoir on June 26, 2018, the WWDO has been assessing these facilities. A Level II study will be presented to the 2019 Legislature to evaluate the feasibility of using Lake DeSmet water to replace out of priority diversions by Wyoming water users during a Montana call and to evaluate the feasibility of constructing a low level outlet at Healy Reservoir to save electricity and pump maintenance. The revenue into the account consists of water sales and investment income. The expenditures are related to operation and maintenance of irrigation pumps, valves, diversion gates, water releases, etc. Thus far the account is stable.

Per Session Law 2006, Chapter 99, Section 6, the Platte River Basin Endangered Species account was created to fund the state of Wyoming's participation in the Platte River Recovery Implementation Program (PRRIP). An initial appropriation of six million dollars ($6,000,000) from Water Development Account I funded Wyoming's share of 3.21%. The state of Colorado's share is 12.82% and the Bureau of Reclamation's share is 83.97%. In Session Law 2018, Chapter 94, Section 7, an additional three million one hundred thousand dollars ($3,100,000) was appropriated to the account to fund the state of Wyoming's participation in a thirteen (13) year extension of the first increment of the Platte River Recovery Implementation Program (PRRIP). A summary of Wyoming's investment for the PRRIP follows:

Account	**Wyoming's Storage (Acre-Feet)**	**6/30/2018 Account Balance**	**Balance**
Platte River Basin Endangered Species	0	8,032,356	Decreasing

In addition, the WWDC collects payments against outstanding project loans and monitors potential water sales from completed projects in which the state retained limited partnerships.

2. Instream Flow
The Water Development Commission has two roles relative to the instream flow law: one is assigned by statute; the other comes with serving as the water planning and development agency for the state.

a. W.S. 41-3-1004 assigns the Commission the responsibility to prepare feasibility reports for all instream flow permit applications. The reports are hydrological analyses of the water availability in the reach of the stream to which the applications apply. The analyses also quantify existing water rights above and within these stream segments. If an application for an instream flow water right is approved by the State Engineer, the Commission becomes the permit holder of the subsequent water right.

b. As the water planning and development agency, the Commission will also review the instream flow requests to ensure that they do not conflict with future potential water development opportunities.

As of October 1, 2018, a total of 142 instream flow filings exist with the State of Wyoming. Each of these filings represents a separate instream flow segment. Out of these, 18 are in the preliminary application stage, 74 are currently permitted by the State Engineer's Office (SEO), 44 have been fully adjudicated, 5 represent an adjudicated SEO Board of Control petition, and 1 has been withdrawn. As of this date, the Water Development Office has completed a total of 51 hydrologic feasibility reports which have been submitted to the SEO. An additional report is scheduled for completion by January, 2019. New reports may be started in 2019 pending advancement of instream flow water rights applications from Wyoming Game and Fish Department. Effective July 1, 2018, the cost of instream flow feasibility studies moved from the Water Development Commission to the Game and Fish Commission.

3. Water Related Research

Pursuant to W.S.41-2-125, The Commission participates in research projects relative to contemporary water resource issues that are not necessarily project specific but that may influence water resource management in Wyoming. Many research projects gather information that is useful in addressing permitting issues, environmental problems, etc.

The Commission has developed working relationships with the University of Wyoming's Office of Water Program, State Engineer's Office, and the U.S. Geological Survey to fund and conduct research on such water related issues as algae treatment strategies, measurement of consumption use on irrigated lands, hydro-climatic analyses, and impacts of the bark beetle on the runoff.

4. Basin Wide Planning

The WWDC develops and updates basin-wide plans that identify water supply issues and water development opportunities. Planning studies have been completed for the Bear River Basin, Green River Basin, Northeastern Wyoming (Little Missouri, Belle Fourche, Cheyenne, and Niobrara River Basins), Powder/Tongue River Basins, Wind/Big Horn River Basin, Snake/Salt River Basins, and the Platte River Basin. In addition, the Wyoming Framework Water Plan was completed, which provides a statewide perspective of water resources.

5. Groundwater Grant Program

The 1981 Session of the Wyoming Legislature enacted W.S. 41-2-119 which authorized the Groundwater Grant Program. These funds are utilized for feasibility studies and exploration programs to evaluate the potential use of underground water. Municipalities, water and sewer districts, and service and improvement district areas are eligible to receive up to $400,000 in state funds as a grant but are required to provide 25% of total project costs in local matching funds. To date, $7,800,000 have been appropriated from Water Development Account I to the Program. Applications for Ground Water Grant funds are accepted anytime throughout the calendar year for consideration by the Commission.

6. Small Water Project Program

During the 2003 session, the legislature removed the pilot status of the program and authorized funding for the construction and rehabilitation of "small water projects" throughout the state. Water Development Program funding is limited to fifty percent (50%) of the actual project costs or a maximum grant of thirty-five thousand dollars ($35,000) per project, whichever is less. The WWDC was given the responsibility for developing program criteria and the authority to fund these small water projects. To date, $4,850,000 have been appropriated for the new development small water project program and $2,650,000 have been appropriated for the rehabilitation small water project program. New applications are due each January 1st and are reviewed by the Commission during its March meeting.

III. Program Funding

A. Water Development Account I

The New Development Program is funded by Water Development Account I [W.S. 41-2-124(a)(i)] which has received direct appropriations from the general fund, receives revenues from the severance tax distribution account, and receives the accrued interest on the account's unspent balance. Legislative approval must be granted prior to allocating water development account funds to a particular project. Income from the tax and interest and payments for outstanding loans ranges from $23,000,000 to $30,000,000 per year. The WWDC is committed to phase or delay projects to ensure its recommendations do not exceed available revenue in the account.

Water Development Account I also funds the following:

1. Agency budget-The agency budget for the Wyoming Water Development Office (WWDO) is $7,966,528 for the 2019-2020 biennium.

2. Starting in FY 2018, Water Development Account I funds are being used to fund Board of Control operations within the State Engineer's Office agency budget. This new funding obligation equates to $13,410,021 per biennium.

3. Water Resource Data System-The WWDO funds the UW Water Resource Data System through the agency budget at a cost of approximately $636,190 per biennium.

4. Water Related Research-The Wyoming Water Development Program invests approximately $340,000 per year on non-project specific water related research.

6. UW Office of Water Programs-The WWDC provides $175,000 per biennium to assist in the financing of the UW Office of Water Programs.

7. Basin Wide Planning-The Wyoming Water Development Program has expended over $7,000,000 on the basin wide planning. All of the planning studies for the seven major drainage basins have been completed. When warranted, the WWDO continues to update and expand these plans at an approximate cost of $250,000 per basin.

8. Groundwater Grant Program-The legislature, at the request of the WWDC, has appropriated $7,800,000 for the program, which serves to finance groundwater exploration studies for cities, towns, improvement and service districts, and water and sewer districts.

9. Small Water Projects Program-The legislature has invested $4,850,000 in the new development component of the program.

10. DWSRF-By enacting W.S. 16-1-301, the legislature authorized the use of water development account I funds to meet federal matching grant requirements. The federal capitalization grant and the state's matching share are used to finance a "drinking water state revolving loan fund" (DWSRF) program. The DWSRF program may be used to fund improvements to water treatment systems and address other Safe Drinking Water Act compliance issues. This program is not included in the annual omnibus water bill or agency budget. Water Development program funds (approximately $1,062,315 per biennium) are appropriated by statute to match 10% of the federal capitalization grant.

11. Other-The Wyoming Legislature has periodically appropriated funds from the water development accounts to fund the operation of state government, special projects, and litigation. Examples include $656,008 per biennium to the state Department of Agriculture for TMDL programs, $102,953 per biennium to the State Engineer's Office for the endangered fish recovery program in the Colorado River Basin, and $35,002 per biennium to the Attorney General's Office to fund its support of the Board of Control Division within the State Engineer's Office.

B. Water Development Account II

The Rehabilitation Program is funded by Water Development Account II [W.S. 41-2-124(a)(ii)] which receives revenues from the severance tax distribution account and the interest accrued on the account's unspent balance. Legislative approval must be granted prior to allocating water development account funds to a particular project. Income from the tax and interest and payments for outstanding loans is approximately $6,000,000 per year. The WWDC is committed to phase or delay projects to ensure its recommendations do not result in overruns of the account.

Water Development Account II also funds the following:

1. Small Water Projects Program-The legislature has invested $2,650,000 in the rehabilitation component of the program.

2. Other-As of June 2018, over $15,500,000 has been expended from Water Development Account II for non-project purposes.

C. Water Development Account III

The 2005 Legislature created Water Development Account III, appropriated $10,000,000 from the Budget Reserve Account, and transferred $54,070,000 from Water Development Account I to Water Development Account III. In addition, the account receives revenues from the severance tax distribution account and the interest accrued on the account's unspent balance. Legislative approval must be granted prior to allocating water development account funds to a particular project. Income from the tax and interest is approximately $4,000,000 per year. In FY 2016, the Governor recommended and the Legislature approved a $10,000,000 diversion from this account to supplement the General Fund.

IV. Program Operations

The State Engineer's Office of Water Planning Program originally staffed the Interdepartmental Water Conference, which was the predecessor to the Wyoming Water Development Commission and Office. In 1979, the Wyoming Water Development Commission (WWDC) was formed and an independent staff was developed. The Commission was created to streamline the administration of the program and make it more effective.

The statutory authority for the Wyoming Water Development Program is vested with the ten-member Wyoming Water Development Commission, which meets five to seven times per year. The program is administered through the Wyoming Water Development Office (WWDO), which includes a director and 24 staff members. Over the past five years, the commission and staff have overseen and administered expenditures averaging over $40 million dollars per year.

The Wyoming Legislature has periodically increased the responsibilities of the WWDC and WWDO. In 1986, the administration of the construction of water development projects was transferred from the Department of Economic Planning and Development (DEPAD) to the WWDC. Also in 1986, the legislature assigned the WWDC responsibilities with respect to the instream flow law. In 1991, the management of the state's water investments was transferred from the Economic Development and Stabilization Board to the WWDC. In 1992, the WWDO was legislatively created with the director appointed by the Governor.

The Wyoming Water Development Office encompasses four Divisions: Planning, Dam and Reservoir, Construction, and Administration. Each division has an administrator who reports to the Director of the Agency. The Director is responsible for the operation of the entire program, serves as the contact with the WWDC, Governor, and Legislature, and performs special assignments for the Governor.

Individual project administration is the priority of the WWDO. It is interesting to note that the number of projects within the program determines the staff workload, as opposed to the level of the appropriations. Administering a small project can be more time consuming than working on a larger project. The WWDC will continue to use up-to-date technology to reduce administrative costs and to produce state-of-the-art plans and projects.

The WWDC contracts with private sector consultants for the preparation of river basin plans and project technical studies, such as Level I Reconnaissance Studies and Level II Feasibility Studies. Further, the WWDC contracts with the project sponsors who serve as the lead entity during the Level III Construction process. The project sponsors use private sector consultants for preparation of project plans and specifications. They are also required to solicit bids or proposals from private contractors for project construction.

While the statutes pertaining to the Wyoming Water Development Program provide guidance and the framework for the program, they were intentionally meant to be very broad. The Wyoming Water Development Commission is responsible for developing the priorities, guidelines, and criteria for the program. The "Operating Criteria of the Wyoming Water Development Program" was developed by the WWDC in consultation with the Legislative Select Water Committee. The criteria are reviewed on an annual basis to ensure it directs the program in an efficient and effective manner, and continues to address the needs of Wyoming in a manner consistent with available program resources.

V. Program Evolution

The following is a breakdown of total program expenditures from 1980 to June 2018:

	Percentage (%) of Total Expenditures		
Sector	WD Account No. I	WD Account No. II	WD Account No. III*
Multi-purpose	10.9	4.4	40.7
Agriculture	9.6	48.4	55.1
Municipal	50.5	39.3	4.2
Special Districts	6.3	2.0	-
Legal	3.3	4.0	-
Non-Project	19.4	1.9	-

*Excludes the Gillette Madison Pipeline project expenditure of $16,415,000 as the funds were repaid to Account III.

Based on the program's history and projections into the future, the following conclusions can be made relative to the next five years:

A. The agricultural industry is presently concentrating on preserving what they have, rather than developing new supplies. The WWDC will continue to assist irrigation districts replace and repair their existing infrastructure in a phased approach, commensurate with each district's master plan and available WWDC and sponsor funding. The agricultural projects that rely on federal storage projects can expect financial impacts caused by mandates relating to dam safety, water conservation, endangered species, and environmental protection. The WWDC will need to assist districts to address these issues.

B. Municipalities must not only be concerned with the quantity of water they can supply for culinary, irrigation, and fire flow purposes, but must ensure that their water quality meets ever-changing EPA requirements. Further, as urban populations increase, the amount of water communities must supply for public health and welfare purposes must also increase. Municipalities need enough good quality water to meet their existing demands and the demands of the increasing number of subdivisions presently outside their corporate limits, as well as enough water to ensure future economic growth. The Wyoming Water Development Program has been responsive to the needs of Wyoming communities for the past 35 years, and while major municipal water supply projects have been funded, demands on the program for municipal purposes will continue for the next five years and beyond. The WWDC will continue to look at opportunities to develop and improve upon regional water supply systems.

C. Special districts that provide domestic water are faced with the same EPA requirements as municipalities. As a result, the Water Development Program is receiving an increasing number of requests for funding assistance from special districts. Wyoming's relatively weak subdivision laws are partially to blame for this problem. Subdivisions served by shallow wells sometimes experience water quality problems caused by septic and leach field systems. The long-term solution is to improve the municipal water supply systems so they can be supportive in solving the problems of the surrounding subdivisions. In the short term, it is apparent that the Wyoming Water Development Program will be receiving additional requests for funding assistance from special districts. However, the Water Development Program may not have sufficient resources to address all of the problems of the special districts. Therefore, those districts that are connecting to existing water supply systems will likely be looked upon more favorably by the WWDC than those wishing to develop independent supplies.

D. Reservoir water storage has and continues to be an important tool for Wyoming to protect and utilize its precious water resources for the benefit of its citizens. As such, it will continue to be a significant element of the Water Development Program. Numerous projects to construct new storage reservoirs, enlarge existing facilities, and rehabilitate aging dam infrastructure have been completed by the program since its inception. The Buffalo Municipal project (Tie Hack Dam and Reservoir), Sheridan's Twin Lakes Enlargement, the Little Snake River Valley Dam and Reservoir project (High Savery), the Greybull Valley Irrigation District's Roach Gulch project and the Pathfinder Reservoir Modification project are the most recent new storage or enlargement projects.

There are reasons the number of storage projects in the Water Development Program are fewer than other projects. The first and foremost reason is cost. It is very difficult for a project sponsor to afford a storage facility even with the most favorable financing terms available. Second, the federal permitting process is more costly, time consuming, and restrictive than it was in 1982. For example, in 1985, the federal 404 permit for the Sulphur Creek Dam was obtained in nine months, at a cost of approximately $50,000. In 1996, after three and one-half years, the Town of Buffalo received the federal 404 Permit for Tie Hack Dam and Reservoir, a smaller and less complex project than the Sulphur Creek Dam. The actual costs related to permit acquisition were approximately $650,000. New federal requirements for wetlands mitigation, criteria involving purpose and need, and alternative analyses are the major reasons for the increased costs. The costs to secure the federal permits for the High Savery Dam exceeded $2,000,000 and took approximately 15 years to complete.

In response to these problems, the Dam and Reservoir Division was implemented to encourage local community sponsors to partner with the WWDC to construct new and enlarge existing storage facilities. The WWDC and Legislative Select Water Oversight Committee has developed more flexible funding criteria for dam and reservoir projects to make projects more affordable to sponsors. In order for a dam and reservoir project to be successful, communities need to be engaged, and a defensible purpose and need has to exist for the storage. Furthermore, the ancillary benefits of reservoirs need to be explored and implemented to maximize public benefit and allow for an affordable project.

The Dam and Reservoir Division, together with local community sponsors, multidisciplinary consulting teams and various other agencies, are engaged in a number of reservoir storage studies throughout the State. Considering the complexity of reservoir planning and construction, the Division takes a systematic approach in its evaluations. Through a planning process where each succeeding level of study adds and refines information, the Division strives to work with communities to identify unique needs and opportunities; understand watershed hydrology to determine water demand and availability; investigate the sciences at hand to address site feasibility, project benefit/impact and regulatory requirements; and ultimately design and construct reservoir storage. Governor Meads' Water Strategy, specifically Initiative #6, "Ten in Ten" project has placed additional emphasis on building new storage projects to support Wyoming's future needs.

E. In summary, the Wyoming Water Development Program adapted to meet the changing needs of the State of Wyoming and its citizens. However, the program continues to serve its founding principle: The effective and efficient use of water will preserve Wyoming's water for Wyoming's future.

At the same time, projects funded with appropriations from the water development accounts provide direct and indirect economic benefits throughout the state. As of July 1, 2018, there are projects with appropriations in excess of $450M in the construction phase of the Wyoming Water Development Program.

LEGISLATIVE PROGRAM

CHAPTER 2 - LEGISLATIVE PROGRAM

I. Program Development Process

The Wyoming Water Development Commission (WWDC) utilizes the following process to generate funding recommendations for legislative consideration.

A. New Applications - The deadline for Level I and II project applications is the first of March. Upon receipt, new applications and supporting documentation are reviewed, and project sites are visited.

B. Existing Projects - Applications for Level III projects must be submitted on or before the first of September. Project reports are reviewed to determine whether the projects warrant advancement in the program.

C. Preliminary Recommendations - A joint meeting of the WWDC and Select Water Committee is held in November of each year. The Director of the Water Development Office offers funding recommendations for new and existing projects. The project sponsors are afforded the opportunity to address the WWDC and answer questions. The WWDC develops its preliminary funding recommendations. The Select Water Committee attends this meeting in preparation for its ultimate review and approval of the WWDC's final recommendations.

D. Public Meetings/Hearings - If a proposed Level I Reconnaissance Study or Level II Feasibility Study is of particular concern or controversy, the WWDC may solicit public input at a public meeting prior to finalizing its project recommendation. The Commission holds formal public hearings on all Level II studies.

E. Coordination with the Governor - The preliminary funding recommendations and a financial report addressing impacts to the water development accounts are presented to the Governor. The Governor may provide input throughout the recommendation process.

F. The Water Development Office in consultation with the Legislative Service Office drafts the preliminary "Omnibus" Planning and Construction bills using the WWDC preliminary recommendations from their November meeting. Level I and II projects are placed in the Omnibus Planning bill and Level III projects are placed in the Omnibus Construction bill.

G. Final Recommendations - The WWDC meets in December or early January to finalize its recommendations for new applications and existing projects. Sponsors and interested parties are afforded the opportunity to express their views. The final recommendations of WWDC are contained in the preliminary "Omnibus" Planning and Construction bills.

H. Select Water Committee - The committee is comprised of six (6) senators and six (6) representatives. It provides legislative oversight for the program and reviews and approves the funding recommendations developed by the WWDC. The committee's approval comes in the form of its willingness to sponsor the "Omnibus" Planning and Construction bills. The Select Water Committee meets to review and discuss the draft bills prior to the legislative session.

I. Legislative Process - The legislature must authorize the allocation of funds from the water development accounts to particular projects. This approval is solicited through the "Omnibus" Planning and Construction Bills, sponsored by the Select Water Committee.

II. 2019 Preliminary Funding Recommendations:

Summary-2019 Omnibus Water Bill-Planning Preliminary Recommendations

Level I Projects-New Development	**County**	**WDA I**	**WDA II**	**WDA III**
Crook County Rural Water Supply Plan	Crook	$ 370,000		
Evanston Water Master Plan	Uinta	$ 126,000		
River Basin Planning – Streamstats Phases III and IV	Statewide	$ 631,000		
Salt Creek-Edgerton-Midwest Master Plan	Natrona	$ 160,000		
Torrington Water Master Plan	Goshen	$ 174,000		
UW Water Research Program	Statewide	$ 350,511		
Subtotal		$1,811,511		

Level II Projects-New Development	**County**	**WDA I**	**WDA II**	**WDA III**
Lake DeSmet/Healy Reservoir Utilization	Johnson/Sheridan	$268,000		
Subtotal		$268,000		

Level I Projects-Rehabilitation	**County**	**WDA I**	**WDA II**	**WDA III**
Bluff/Upper Bluff Irrigation Districts Master Plan	Washakie		$123,000*	
Subtotal			$123,000	

Level II Projects-Rehabilitation	**County**	**WDA I**	**WDA II**	**WDA III**
Boulder Irrigation District Rehabilitation	Sublette		$171,000*	
LaPrele Irrigation District Rehabilitation	Converse		$290,000*	
Subtotal			$461,000	

Level II Projects-Dams and Reservoirs	**County**	**WDA I**	**WDA II**	**WDA III**
Greybull Valley Irrigation District Storage Enlargement, Phase II	Park/Big Horn			$ 300,000
New Fork Lake Dam Enlargement, Phase III	Sublette			$1,500,000
Subtotal				$1,800,000
General		**WDA I**	**WDA II**	**WDA III**
Groundwater Grant Program	Statewide	$2,000,000		
Subtotal		$2,000,000		

2019 Omnibus Water Bill-Planning Preliminary Total	**$4,079,511**	**$584,000**	**$1,800,000**

Summary-2019 Omnibus Water Bill-Construction Preliminary Recommendations

Level III Projects-New Development	County	WDA I	WDA II	WDA III
Buffalo Wells & Transmission 2019	Johnson	$ 1,238,160		
Clearmont Well Connection 2019	Sheridan	$ 328,970		
Etna Storage Tank 2019	Lincoln	$ 1,001,650		
GR/RS/SC JPWB Pump Station 2019	Sweetwater	$ 7,497,300		
Lander Storage Tanks and Pump Station 2019	Fremont	$ 227,800		
Northwest Rural Water System Improvements 2019	Park	$ 1,055,250		
Rolling Hills Well No. 7 Connection 2019	Converse	$ 273,360		
Weather Modification - Medicine Bow Mountains 2019-2020	Albany/Carbon/ Converse/Laramie	$ 589,000		
Weather Modification Wind River Mountains 2019-2020	Fremont/Sublette	$ 235,000		
Subtotal		$12,446,490		

Level III Projects-Rehabilitation	County	WDA I	WDA II	WDA III
Austin-Wall Reservoir Rehabilitation 2019	Uinta		$ 374,000*	
Big Horn Canal Wasteway Rehabilitation 2019	Big Horn		$ 960,000	
Bluff/Upper Bluff System Improvements 2019	Washakie		$ 291,000	
Cody Canal Rehabilitation 2019	Park		$ 344,000	
Deaver Irrigation District Rehabilitation 2019	Big Horn/Park		$ 424,000	
Dry Creek Irrigation District Rehabilitation 2019	Lincoln		$1,628,000*	
Eden Valley Irrigation District System Improvements 2019	Sweetwater		$ 351,000*	
Interstate Diversion Structure Rehabilitation 2019	Sweetwater		$ 420,000	
Lakeview Carter Creek Siphon/Spillway 2019	Park		$ 351,000	
Lovell Moncur Lateral Rehabilitation 2019	Big Horn/Park		$1,670,000	
Midvale Irrigation District Rehabilitation 2019	Fremont		$ 559,000	
Shoshone Irrigation District Rehabilitation 2019	Park		$ 181,000	
Wheatland Irrigation District Tunnel Dam Rehabilitation 2019	Platte		$ 388,000	
Wind River Inter-Tribal Council Rehabilitation 2019	Fremont		$ 929,000	
Subtotal			$8,870,000	

Summary-2019 Omnibus Water Bill-Construction Preliminary Recommendations Continued

Amendments to Prior Appropriations	County	WDA I	WDA II	WDA III
Casper Zone 3 Improvements	Natrona	Time extension to 7/1/2020		
Cokeville Tri-Diversion Structure	Lincoln		$ 120,935	
Eden Valley Farson Lateral Rehabilitation	Sweetwater		$ 910,000	
Gillette Regional Extensions Phase IV 2018	Campbell	($ 296,810)		
Gillette Regional Extensions 2017	Campbell	Remove Legislative Amendment		
Middle Piney Reservoir (Contingencies & Reservoir Account)	Fremont			$2,060,000
Piney & Cruse Canal Piping	Sheridan	Time extension to 7/1/2022		
Small Water Projects - New Development	Statewide	$2,000,000		
Small Water Projects - Rehabilitation	Statewide		$ 700,000	
Sponsor's Contingency Fund - New Development	Statewide	$1,000,000		
Sponsor's Contingency Fund - Rehabilitation	Statewide		$ 700,000	
Subtotal		$2,703,190	$2,430,935	$2,060,000
2019 Omnibus Water Bill-Construction Preliminary Total		**$15,149,680**	**$11,300,935**	**$2,060,000**

*The six projects above will be recommended for funding if a transfer is approved by the Wyoming Water Development Commission, Select Water Committee, and the full Legislature. The transfer is recommended from the Buffalo Bill Reservoir Account to be redirected from WDA I to WDA II.

III. Financial Status Reports

The following three (3) tables depict the calculations used to estimate the available funds in each account for the 2019-20 Legislative Session.

Water Development Account I
Preliminary Fiscal Projections as of 8/1/2018

Cash Balance 6/30/17		129,092,689
FY18 Revenues		
Taxes	19,297,500	
Interest	2,485,711	
Loans/Interest	5,675,308	
Other	342,378	
Total Revenues		27,800,897
FY18 Expenditures		
Total Expenditures		(44,702,432)
Cash Balance 6/30/18		112,191,154
Outstanding Commitments 7/1/18		
Active Appropriations	(180,301,066)	
Expenditures Paid	68,135,487	
Total Commitments 7/1/18		(112,165,579)
Total Uncommitted Balance 7/1/18		25,575
FY19 Anticipated Revenues		
Taxes	19,300,000	
Interest	2,000,000	
Other	1,800,000	
Total FY19 Anticipated Revenues		23,100,000
FY20 Anticipated Revenues		
Taxes	19,300,000	
Interest	2,000,000	
Other	1,800,000	
Total FY20 Anticipated Revenues		23,100,000
Subtotal Anticipated Revenues		46,200,000
Balance Available for Appropriation		46,225,575

Water Development Account II
Preliminary Fiscal Projections as of 8/1/2018

Cash Balance 6/30/17		28,827,754
FY18 Revenues		
Taxes	3,255,000	
Interest	586,238	
Loans/Interest	1,433,155	
Total Revenues		5,274,393
FY18 Expenditures		
Total Expenditures		(5,679,806)
Cash Balance 6/30/18		28,422,341
Outstanding Commitments 7/1/18		
Active Appropriations	(45,220,201)	
Expenditures Paid	16,561,136	
Total Commitments 7/1/18		(28,659,065)
Total Uncommitted Balance 7/1/18		(236,724)
FY19 Anticipated Revenues		
Taxes	3,255,000	
Interest	400,000	
Other	1,000,000	
Total FY19 Anticipated Revenues		4,655,000
FY20 Anticipated Revenues		
Taxes	3,255,000	
Interest	400,000	
Other	1,000,000	
Total FY20 Anticipated Revenues		4,655,000
Subtotal Anticipated Revenues		9,310,000
Balance Available for Appropriation		9,073,276

Water Development Account III
Preliminary Fiscal Projections as of 8/1/2018

Cash Balance 6/30/17		172,518,624
FY18 Revenues		
Taxes	775,000	
Interest	3,521,816	
Total Revenues		4,296,816
FY18 Expenditures		
Total Expenditures		(3,382,025)
Cash Balance 6/30/18		173,433,415
Outstanding Commitments 7/1/18		
Active Appropriations	(129,947,026)	
Expenditures Paid	7,361,886	
Total Commitments 7/1/18		(122,585,140)
Total Uncommitted Balance 7/1/18		50,848,275
FY19 Anticipated Revenues		
Taxes	775,000	
Interest	2,200,000	
Total FY19 Anticipated Revenues		2,975,000
FY20 Anticipated Revenues		
Taxes	775,000	
Interest	2,200,000	
Total FY20 Anticipated Revenues		2,975,000
Subtotal Anticipated Revenues		5,950,000
Balance Available for Appropriation		56,798,275

IV. Anticipated Remaining Funding after the 2019 Session

The Wyoming Water Development Commission (WWDC) bases its funding recommendations on the anticipated income into each water development account that will be available each biennium and with the knowledge that requests for funding will likely exceed available funds. Therefore, the WWDC will phase construction funding requests or deny funding to projects to ensure the account balances will not be exceeded and there will be sufficient funding for upcoming legislative sessions. The following table attempts to depict the funding available to each account after the 2019 Session by predicting the anticipated demands placed on those accounts during the 2019 Session.

Water Development Account I

Available 2019 Session		$46,225,575
2019 Omnibus Water Bills		
Planning	$ 4,079,511	
Construction	$15,149,680	
Deduct: Omnibus Water Bills		$19,229,191
Subtotal		$26,996,384
Add: Anticipated 2019 Reversions		$ 1,000,000
Anticipated Remaining after 2019 Session		**$27,996,384**

Water Development Account II

Available 2019 Session		$ 9,073,276
Add: Anticipated Transfer from Buffalo Bill		$ 5,500,000
2019 Omnibus Water Bills		
Planning	$ 584,000	
Construction	$11,300,935	
Deduct: Omnibus Water Bills		$11,884,935
Subtotal		$ 2,688,341
Add: Anticipated 2019 Reversions		$ 1,000,000
Anticipated Remaining after 2019 Session		**$ 3,688,341**

Water Development Account III

Available 2019 Session		$56,798,275
2019 Omnibus Water Bills		
Planning	$1,800,000	
Construction	$2,060,000	
Deduct: Omnibus Water Bills		$ 3,860,000
Add: Anticipated 2019 Reversions		$ 0
Anticipated Remaining after 2019 Session		**$52,938,275**

The following table attempts to predict funding requests for the 2020 or later Legislative Sessions:

Water Development Account I

Potential Projects		
Basin Planning	250,000	
Buffalo System Improvements	100,000	
Casper - Poplar Street Zone II	1,100,000	
CWRWS - Westwinds Rd Transmission Line	5,500,000	
Cheyenne Belvoir Well Field	10,000,000	
Cheyenne Round Top Tank	20,000,000	
Evanston System Improvements	3,000,000	
Gillette Regional Extensions	25,000,000	
GR/RS/SC JPWB Wind River Zone Phase II	5,000,000	
GR/RS/SC JPWB Pump Station and Transmission Line	10,000,000	
Hanna Transmission	250,000	
Sheridan System Improvements	5,000,000	
Star Valley Ranch Tank	1,000,000	
Thermopolis System Improvements	700,000	
Torrington System Improvements	1,000,000	
Grand Total WDA I		**$ 87,900,000**

Water Development Account II

Phased Projects-Priorities		
Austin-Wall Reservoir Rehabilitation	1,000,000	
Big Horn Canal Siphon	3,000,000	
Casper Alcova Irrigation District	500,000	
Cody Canal Irrigation District	500,000	
Deaver Irrigation District	500,000	
Dry Creek Irrigation District	1,300,000	
Eden Valley Irrigation and Drainage District	10,000,000	
Goshen Irrigation District	750,000	
Heart Mountain Irrigation District	500,000	
Interstate Irrigation and Reservoir Rehabilitation	6,000,000	
Midvale Irrigation District	1,000,000	
Shoshone Irrigation District	500,000	
Sidon Irrigation District	500,000	
Wheatland Irrigation District	5,000,000	
Wind River Irrigation Rehabilitation	25,000,000	
Total Phased Projects		$56,050,000
Other Potential Projects		
Casper - Storage Tank Rehabilitation	6,000,000	
Casper - Ridgecrest Zone 2/3 Transmission Line	1,450,000	
CWRWS - Salt Creek Pump Station	1,500,000	
Hanover Irrigation District Flume	2,300,000	
Silver Lake Dam Rehabilitation	3,500,000	
Total Other Potential Projects		$14,750,000
Grand Total WDA II		**$70,800,000**

Water Development Account III

There are four (4) dam and reservoir projects funded for construction and nine (9) additional projects in the planning phase under consideration.

Clear Creek Storage	110,000,000	
Cheyenne Municipal Storage	15,000,000	
Greybull Valley Storage Enlargement	60,000,000	
Meadowlark Lake Enlargement	18,000,000	
Meeks Cabin Enlargement	35,000,000	
New Fork Enlargement	15,000,000	
Stateline Reservoir Enlargement	8,000,000	
West Fork Reservoir	69,000,000	
Wind River Storage (Two sites)	120,000,000	
Grand Total WDA III		**$450,000,000**

ACTIVE PROJECT REPORTS

CHAPTER 3 – ACTIVE PROJECTS

1. PROJECT: Alkali Creek Reservoir

LEVEL: III
SPONSOR: Nowood River Watershed Improvement District
LOCATION: Big Horn County
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	III	$ 300,000	2010
Level II	32	2010	III	$ 250,000	2016
Level II	57	2012	III	$ 350,000	2016
Level II	74	2014	III	$ 225,000	2017
Level II	168	2015	III	$ 4,000,000	2021
Level III	75	2017	III	$ 35,000,000	2025

PROJECT INFORMATION:

The Nowood River Watershed Improvement District (District) is interested in constructing Alkali Creek Reservoir to provide late season supplemental irrigation water to the Nowood River Valley, tributary to the Big Horn River. The Alkali Creek Reservoir was identified as the preferred storage alternative to address shortages through previous Level II feasibility studies. The proposed reservoir, located off-channel, will be filled with flows from Paint Rock and Medicine Lodge Creeks through expansion of the existing Anita and Anita Supplemental Ditches. The reservoir will have a total capacity of approximately 8,000 acre-feet, of which 6,000 acre-feet will serve as a supplemental irrigation supply, leaving a 2,000 acre-foot minimum pool for habitat, fishing and recreational use.

The proposed expansion lies partially on lands managed by the Worland Bureau of Land Management (BLM) and involves Waters of the United States, therefore requiring a BLM issued Right of Way permit and a United States Army Corps of Engineers 404 permit. The NEPA process is being followed and an Environmental Impact Statement (EIS) is being prepared by the BLM, as the lead federal agency, to disclose the impacts and analyze a range of alternatives for Alkali Creek Reservoir in order to fully meet Federal requirements. Based on information gathered through previous WWDC analysis, a positive Record of Decision is anticipated. The expanded reservoir, appurtenances, and borrow areas also involve private lands which will require negotiation and execution of easements and land purchases.

Once completed, the District will own, operate, and maintain Alkali Creek Reservoir for the life of the project to reduce irrigation shortages and provide a more reliable water supply to irrigated lands in the Nowood River Valley. In regards to secondary benefits, the reservoir will have public access and as stated, a minimum (environmental/recreation) pool which will provide fisheries, wildlife, and recreational uses. Diversions out of Paint Rock and Medicine Lodge Creeks during spring runoff will have some flood control benefits, plus 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.

2. PROJECT: Arapahoe Pipeline and Tank

LEVEL: III
SPONSOR: Northern Arapaho Tribe
LOCATION: Fremont County, Wind River Indian Reservation
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	85	2007	I	$ 125,000	2008
Level II	66	2009	I	$ 500,000	2010
Level III	23	2015	I	$ 1,926,920	2020*

*67% grant

PROJECT INFORMATION:

The 2010 WWDC Level II Study identified a deficit in source supply/storage and inefficient transmission/distribution on the populated eastern portion of the Wind River Reservation. The study provided recommendations and cost estimates for thirteen (13) separate improvements to the system to rectify the shortfalls. A new source supply well was drilled as part of the 2010 Level II Study and has been recently connected to the system, thereby completing three (3) of the recommended improvements. The 2014 applicant requested funding of two additional distinct components:

1) State HWY 138/Rendezvous Road and Wind River Casino Pipeline Loop – Consisting of approximately 9,000 feet of 10" and 12" PVC Transmission Water Line
2) A 300,000 gallon Storage Tank and Transmission Line – Tank located above and southeast of the Beaver Creek housing complex, with installation of 8,050 feet of 10" PVC Transmission Water Line.

The Level II study was undertaken at a time when casino-related development was on the upswing and associated impact demands on the local water system (commercial & residential) would occur in a short time. A new source supply well was drilled as part of the Level II Study and has been connected to the system. The present strain on the growing system related to deficits in transmission/storage/distribution prompted the Level III funding application from the Northern Arapaho Tribe. The design is complete for both components but the sponsor is awaiting matching funding from the USDA-RD.

3. PROJECT: Arapahoe Water Supply 2016

LEVEL: III
SPONSOR: Northern Arapaho Tribal Business Council
LOCATION: Fremont County (Wind River Indian Reservation)
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	85	2007	I	$ 125,000	2008
Level II	66	2009	I	$ 500,000	2010
Level III	55	2016	I	$ 2,247,850	2021*

*67% grant

PROJECT INFORMATION:

The 2010 WWDC Level II Study identified a deficit in source supply/storage and inefficient transmission/distribution on the populated eastern portion of the Wind River Reservation. The study provided recommendations and cost estimates for thirteen (13) separate improvements to the system to rectify the shortfalls. The applicant received funding for three additional transmission pipelines projects:

1) Upgrade and install a new Transmission main along Left Hand Ditch Road from the existing 1 MG Tank to 17 Mile Road.
2) Install a new Transmission main along 17 Mile Road between Goes In-Lodge Road to Highway 789. This will connect between two of the systems transmission mains.
3) Install a new Transmission main along Left Hand Ditch Road from 17 Mile Road south to the Arapahoe School and Industrial Park.

The transmission main that feeds the system is critically undersized to deliver the needed demands in the system. The line is a 6" asbestos cement line installed in the 1960's. Upgrading to the 12" PVC line will allow the Utility to meet the required Tank-to-System delivery needs. The entire water supply for Beaver Creek Housing and the Wind River Casino commercial area is fed by the single transmission line extending from 17 -Mile Road. If a line break occurs in those two miles of line, there is no way to get water to this area. This has happened on occasion, leaving the area dependent on only the 60,000 gallons of storage in the Beaver Creek Tank. This situation presents an unacceptable public safety and health risk. The new transmission line will alleviate this problem. The Arapahoe School and Industrial Park (ASIP) area of the system is operated as a separate stand-alone system serving the ASIP and a small number of residences. Tying this and the primary Arapahoe system together will make it possible to feed the ASIP and residents from the main system and its 1 MG tank.

The IHS has funding in place for project No.1 as listed above in an amount of $814,000.00. The IHS has also approved using the funding in combination with the WWDC funding across all three projects to complete the design of each project. This still allows enough funding to bid and construct Project 1. The engineer has been selected and design has been started on all three projects.

4. PROJECT: Austin-Wall Canal Rehabilitation Project (Phase I)

LEVEL: III
SPONSOR: Austin-Wall Irrigation District
LOCATION: Uinta
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	II	$ 110,000	2010
Level II	32	2010	II	$ 388,680	2012
Level III	141	2013	II	$ 150,000	2018*
Level III	100	2014	III	$ 1,000,000	2018**
Level III	23	2015	III	$ 1,600,000	2018***

*50% Grant. This appropriation replaced by 2014 appropriation
**50% Grant. This appropriation replaced by 2015 appropriation
***50.9% Grant, 3.4% Loan

PROJECT INFORMATION:

The Uinta County Conservation District, Austin Reservoir and Canal Company, and the Wall Development Company requested a Level I study of the Austin Reservoir and canal system and the Wall Canal irrigation system. The Level I study was completed in 2009. The study verified the two canal systems are experiencing significant water losses. The Wall Dam, which stores approximately 870 acre-feet, is also leaking and the outlet structure is in need of replacement.

In 2011, the Level II study was completed, and included a geotechnical drilling program and analyses of the existing dam. The study also refined recommendations related to improving both the Austin and Wall canal systems. An application for funding from the U.S. Bureau of Reclamation's Salinity Control Program (SCP) was prepared and submitted. An SCP construction funding request of $6,000,000 was approved. The total cost to rehabilitate both canals was estimated to be $18,000,000. Therefore, the District requested $12,000,000 from the WWDC Rehabilitation Program. Since there are only 6,000 acres within the District, the requested funding from the WWDC would exceed two times the Program's previous investment per acre on similar projects. The substantial request would impair the WWDC's capability to invest in other needed projects.

Because of the budget impact to the Rehabilitation Program account, the WWDC requested the District focus on a new study to identify those leaking sections within the individual canal systems where water leakage is a major problem. Upon reviewing the results of this requested study, the WWDC would then consider a reduced funding request to repair those areas where major leakage was identified. Results from this newest study located several canal sections where major leakage was occurring. The District then requested $1,600,000 from WWDC for construction funding for the repair of those leaking canal sections. The requested funding was spread out over three consecutive years of appropriations. WWDC funding was proposed to match $1,350,000 SCP funding. The proposed funding schedule request included:

- 2013: $150,000 for design and permitting
- 2014: $850,000 for construction (Phase I)
- 2015: $600,000 for construction (Phase I)

In 2013, the WWDC recommended this project advance to Level III status in the Rehabilitation Program with an appropriation of $150,000 for design and permitting. The financing plan provides a 50% grant, which would be matched with a 50% SCP grant. In 2014, the first phase of construction funding was appropriated for $850,000. In 2015, an additional $600,000 was added to the project.

The Austin-Wall rehabilitation project was completed in 2017 and closed out in 2018.

5. PROJECT: Basin Planning: Environmental and Recreational Use Study

LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Big Horn, Carbon, Fremont, Hot Springs, Lincoln, Natrona, Park, Sublette, Sweetwater, Uinta, and Washakie Counties
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	38	2016	I	$ 100,000	2019

PROJECT INFORMATION:

In 2010, the Wyoming Water Development Commission requested a study to develop a more robust and consistent methodology for defining environmental and recreational water uses for the River Basin Planning program. The study identified that available data sources needed to be defined and analyzed in a way that would assess their interactions with traditional water uses throughout the State of Wyoming.

Harvey Economics completed the study in 2012, with a report and handbook being produced to identify a consistent viewpoint and accounting process for environmental and recreational water demands and to help guide river basin planning efforts in moving forward. The methodologies developed in the handbook were then used in the 2012 update of the Snake/Salt River Basin Plan and the 2016 update of the Platte River Basin Plan. This methodology is also currently being used in the update of the Powder/Tongue and Northeast River Basin Plans. Funding appropriated in 2016 allowed for the completion of the environmental and recreational use analysis with this same methodology in the three river basin plans that have not yet had this work completed (Bear, Green, and Wind/Bighorn Basins). This study ensures that the environmental and recreational use data which is developed in the river basin plans is consistent across the state.

In each of the Basin reports, environmental uses were broken down into state and federal uses. Environmental water use in the Basins is demonstrated through permitted and protected resources and areas where environmental resources have been identified as important. State environmental uses include instream flow filings, Wyoming Game and Fish crucial habitat priority areas, designated crucial stream corridors, key non-game wildlife areas, enhancement areas, combined priority habitats, and

wildlife management areas. Federal environmental uses include wild and scenic river corridors, designated wilderness areas and wilderness study areas, U.S. Fish and Wildlife Service listed species, critical species habitat, wetlands, national wildlife refuges, and Bureau of Land Management areas of critical environmental concern.

Recreational uses in the Basins include fishing, waterfowl hunting, boating, whitewater rafting, camping, hiking, general sightseeing (such as bird watching) and a variety of other passive and active recreation activities. Recreation activities associated with water use are fairly concentrated in each of the Basins and often occurs on land specifically identified for public access, such as U.S. Forest Service land, state parks, and federal refuges. Multiple reservoirs in the Basins provide recreation opportunities.

All of the potential environmental and recreational uses identified in each of the Basin reports were evaluated and categorized as protected, complementary, or competing. Protected water uses are uses which are both recognized and protected in some way from incursions by traditional water uses. Complementary water uses are uses that exist without explicit protection, but exist and will continue to exist typically by virtue of their location. Competing water uses are those environmental or recreational water uses which are in a location where other traditional water use diverters may constrain or eliminate the environmental or recreational use at any point in time.

A number of factors were considered to categorize the environmental and recreational uses including location in the Basin, land use and ownership, and existing permits, among other factors. The location and magnitude of diversions were specifically evaluated to determine the use categories.

As a part of these reports, three models were developed (protection, environmental and recreation) to further the analysis of environmental and recreational uses in the Basins. These models are available as part of the report and can be accessed online. Three separate reports were drafted for each of the basins. Final draft presentations/open houses were then held in the Wind/Bighorn, Green River, and Bear River Basins.

6. **PROJECT:** **Beaver Creek Watershed Study**

LEVEL: I
SPONSORS: Weston County Natural Resource District
LOCATION: Weston County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	65	2017	I	$ 1,087,500	2020*

* The 2017 Wyoming State Legislature authorized a “block appropriation” for one or more of seven watershed studies for which applications had been received and for which the Commission was instructed to establish a prioritized list. This study was one of four prioritized and approved for funding by the Commission with a project specific budget of $271,875.

PROJECT INFORMATION:

The Weston County Natural Resource District (NRD) requested a watershed study to evaluate current watershed function, irrigation diversion/conveyance systems, 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 were also of interest. This study provides baseline information from which the District can pursue implementation of management practices that address the natural resource issues within the drainage.

The Beaver Creek watershed, located primarily in Weston County, covers approximately 760,029 acres. Land ownership in the watershed is predominately private (~ 74%), federal (~ 15%), and state (~8%). The Beaver Creek watershed includes the primary stream system of Beaver Creek, Stockade Beaver Creek, Parmalee Creek, Bear Creek, Salt Creek, Sweetwater Creek, Freshwater Creek, Oil Creek, West Plum Creek, Big Plum Creek, and Skull Creek. Spencer (LAK) Reservoir and Klodt are storage facilities located in the watershed and are privately owned reservoirs used for irrigation.

This study developed an inventory and description of the watershed to include basic physical science information such as geology, hydrology, soils, climate, plant communities, wildlife habitat, and geomorphic characterization of the stream systems. This information was incorporated into development, rehabilitation, and management plans complete with cost estimates for potential future project activities.

During the course of the project, conservation district board members, landowners, stakeholders, and representatives from state, local and federal agencies were involved in 6 public meetings and multiple site visits. Key issues in the watershed were identified and discussed. Site visits were conducted to evaluate the project and propose development concepts.

As a result, an evaluation of varied systems resulted in 74 individual watershed improvement projects. These projects include:

- 40 livestock/wildlife water improvement projects totaling over $2.2 million
- 17 water supply/storage improvement projects totaling over $1 million
- 10 irrigation system improvement projects totaling over $380,000
- 7 other management practice improvements totaling over $200,000. These types of projects address habitat restoration, erosion control and repair, oil well abandonment and revegetation issues.

A final draft report presentation was held at the Weston County Natural Resource District office in Newcastle on October 16, 2018.

7. PROJECT **Bedford Water Supply Master Plan**

LEVEL: I
SPONSOR: Greater Bedford Water & Sewer District
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	113-7	1986	I	$ 25,000	1989
Level III	4	1988	I	$ 1,050,000	1993
Level III	268	1989	I	$ 250,000	1994
Level III	118/121	2004/07	I	$ 835,000	2009/12
Level I	94	2018	I	$ 100,000	2021

PROJECT INFORMATION:
The Bedford water system storage tank, located in Strawberry [Creek] Canyon, is near capacity according to DEQ Chapter 12 rules. The District would like to explore options to increase storage in the existing steel tank (i.e. add a ring) or construct a second tank at another location. Currently, the "Big Spring" is the primary source for the system. Also, the portion of the District upstream of the Strawberry Canyon PRV (see map) can only be supplied from the spring. The Bedford No. 1 well cannot pump water upstream of the PRV. The District would be interested in exploring additional water supply options as EPA regulations of springs continue to be more stringent. The District is seeking a study containing

master plan components (GIS, Hydraulic Modeling, Leak Detection, Rate Study) and feasibility evaluations of storage, current/additional supply, and potential regional supply solutions. The study is underway and scheduled for completion July, 2019.

8. PROJECT: Big Horn Canal Underway

LEVEL: III
SPONSOR: Big Horn Canal Irrigation District
LOCATION: Big Horn and Washakie Counties
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	II	$ 150,000	2006
Level III	23	2015	II	$ 175,000	2020*
Level III	105	2006	II	$ 30,150	2025**

*67% grant, 33% loan
**2017 Sponsor's Contingency Fund, 67% grant

PROJECT INFORMATION:
The Big Horn Canal Irrigation District's main canal (Big Horn Canal) extends from the Big Horn River south of Worland to the Greybull River near Greybull. Roughly two miles below the Big Horn Canal headgate is a structure that protects the canal by conveying the water flowing in Lester Gulch under the Big Horn Canal to the Big Horn River. Records indicate this underway was constructed in 1937 utilizing a collaborative funding effort between several parties and is now in need of replacement. The Legislature authorized Level III funding to construct a replacement underway.

Project construction began in the fall of 2017 with completion occurring in the spring of 2018. The contractor will address leaks and warranty issues in the fall of 2018. This project is anticipated to close out in the spring of 2019.

9. PROJECT: Big Horn Regional Southern Water Supply

LEVEL: II
SPONSOR: Big Horn Regional Joint Powers Board (BHRJPB)
LOCATION: Hot Springs County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	36/86/7	2000/01/02	I	$ 1,505,000	2005
Level II	75/66	2005/09	I	$ 1,750,000	2012
Level III	8/118/121/4	2002/04/07/12	I	$ 23,838,600	2017
Level I	74	2014	I	$ 135,000	2017
Level II	65	2017	I	$ 180,000	2020

PROJECT INFORMATION:
In late 2015, the BHRJPB began to be engaged in a dialog with a group of Hot Springs County public water supply users (South Thermopolis Water & Sewer District, Owl Creek Water District, Black Mountain Users, and Town of East Thermopolis) who presently receive supplies from the Town of Thermopolis water treatment plant that diverts and treats water from the Big Horn River. The Hot Springs County users are seeking alternative means of source supply for long-term reliability and cost-effectiveness as has been successfully demonstrated by the Big Horn Regional Project (BHRJPB is 100% ground water source-supplied from artesian Madison aquifer wells) and other similar regional drinking-

water projects in the State. The feasibility study produced a final report in October, 2018 that spelled out multiple opportunities for Hot Springs County entities to operate with alternative source supplies.

10. **PROJECT:** **Big Laramie River Oasis Ditch Diversion Rehabilitation**
LEVEL: II
SPONSOR: Laramie Valley Municipal Irrigation District
LOCATION: Albany County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	168	2015	I	$ 375,000	2018
Level II	94	2018	II	$ 95,000	2021

PROJECT INFORMATION:
The Laramie Valley Municipal Irrigation District requested Level II funding to study their District's sole diversion structure and headgate. The diversion dam is made up of a rock weir and a large concrete structure. The rock weir is difficult to maintain and is starting to fall into a state of disrepair; both the weir and the concrete structure are in need of evaluation for structural integrity and functionality and potential fish passage. The diversion dam causes sediment deposition as well. The headgate structure consists of three gates with three culverts that convey the water into the twenty-one mile long ditch that irrigates 9,321 acres. Failure and/or problems with the structures would mean the District could not irrigate causing extreme financial hardship for the irrigators.

The Laramie River can experience fairly dramatic changes in flow throughout a 24-hour period from warming and cooling in the headwater's area. These fluctuations make it difficult to maintain the allotted diversion amount and causes water level fluctuations in the ditch. The district's board members are responsible for operating the system and in some cases have several miles of travel to make adjustments to the headgate. To help alleviate this problem, the study will investigate automation and SCADA options. The district owns the infrastructure and is made up of thirteen individual land owners. The study has commenced with the scoping meeting being held July 16, 2018. The study will be ongoing with a final report expected August, 2019.

11. **PROJECT:** **Big Sandy Reservoir Enlargement**
LEVEL: III
SPONSOR: Eden Valley Irrigation and Drainage District
LOCATION: Sublette and Sweetwater Counties
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	III	$ 100,000	2014
Level II	1	2011	III	$ 300,000	2017
Level II	168	2015	III	$ 2,000,000	2018
Level III	75	2017	III	$ 8,400,000	2023

PROJECT INFORMATION:
Big Sandy Reservoir is a major storage facility of the Eden Project. The reservoir provides storage for irrigation, flood control, recreation, and fish and wildlife benefits. The reservoir stores 39,700 acre-feet of water under Permit No. 947 Res., with a priority date of November 9, 1906, and has a surface area of approximately 2,510 acres at water surface elevation 6757.5. The Eden Valley Irrigation and Drainage District (District) is interested in enlarging Big Sandy Reservoir to provide additional supplemental water and to ensure more consistent delivery of the project water supply to District members. The owner of Big

Sandy Dam and Reservoir is the United States Department of the Interior, Bureau of Reclamation (Reclamation). The District contracts with Reclamation to operate the facility.

A feasibility analysis of the Big Sandy Enlargement has determined there to be no fatal flaws in the project. Furthermore, the WWDC has worked with Reclamation, through a Technical Service Agreement (TSA), to evaluate a 5' spillway raise at Big Sandy Dam. Task orders within the TSA have included project management, hydrologic analysis, bathymetric survey, preliminary design and risk analysis, a value planning study, and appraisal level alternatives. Reclamation has determined a preferred alternative to maintain at least a "risk neutral" condition for the Big Sandy facility while providing the benefit of additional storage with a reservoir enlargement. 30% designs have been completed for the preferred alternative which consists of a spillway crest raise, dam abutment toe drain, outlet works filter diaphragm, dike seepage cutoff wall and slope protection, and feeder canal headworks. Additional modification to the Big Sandy Feeder Canal is also being planned to allow for operational flexibility, a key component for maximizing storage and providing for adaptive management of wetlands.

Reclamation is completing an Environmental Assessment (EA), and final design work is progressing. It is anticipated by Reclamation that construction could start in the fall of 2019. Reclamation has approved the project for the Upper Colorado River Basin Fund Memorandum of Agreement (MOA). The MOA provides funding through a percentage of collected hydropower revenues generated by Colorado River Storage Projects (CRSP) for participating projects within the Upper Colorado River Basin. Once completed, the Big Sandy Reservoir Enlargement, estimated at approximately 13,500 acre-feet, will aid in firming up the Eden Project by ensuring consistent delivery of project water supply and providing additional carryover storage for more consistent and earlier spring start-up. In addition, the project will provide drought resilience, mitigate hydrologic deficiency, and ease operations during high flow events by protecting the dam structure and downstream features.

12. **PROJECT:** **Big Sandy Watershed Study**

LEVEL: I
SPONSOR: Sublette County Conservation District
LOCATION: Sublette, Sweetwater and Fremont Counties
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	94	2018	I	$ 275,000	2021

PROJECT INFORMATION:

The Sublette County Conservation District and the Sweetwater County Conservation District requested a watershed study to evaluate current watershed function, irrigation diversion/conveyance systems, and upland livestock/wildlife water management and rehabilitation opportunities. The study is also expected to provide a comprehensive water rights GIS database tool and in-depth designs for independent projects. This study will provide baseline data from which the District can pursue the implementation of management practices that address the natural resource issues within the watershed. The completion of this watershed study will also put the District in a position to leverage Small Water Project Program funding to address specific watershed conditions while providing benefit for wildlife, livestock and the environment.

The Big Sandy watershed includes the following sub-watersheds: Upper Big Sandy River, Little Sandy Creek, Pacific Creek, Lower Big Sandy River, Bone Draw and Sublettes Flat. A majority of the project area is located within the Sublette County Conservation District, but small parts extend into Sweetwater and Fremont Counties. This Level I Watershed Study will be ongoing and is scheduled for completion October, 2019.

13. PROJECT: Big Wind River Storage Study, Phase II

LEVEL: II
SPONSOR: Eastern Shoshone and Northern Arapahoe Tribes
LOCATION: Fremont County
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	36	2000	I	$ 200,000	2002
Level II	74	2014	III	$ 350,000	2017
Level II	65	2017	III	$ 475,000	2022

PROJECT INFORMATION:

Irrigation shortages have long been documented in the Wind River Basin upstream of Boysen Reservoir. In a 1965 report, prepared by Bishop and Spurlock, it was concluded that the system hydrology was incapable of meeting the entire irrigation demand in the upper Wind River Basin (the Big Wind and Little Wind River drainages above Boysen Reservoir). These shortages could be offset by constructing dam and reservoir projects in both drainages that would store spring runoff which could then be used by irrigators in either the Little Wind and/or Big Wind River drainage. These shortages were reaffirmed by Short Elliot Hendrickson Inc. (SEH) in the "Upper Wind River Storage Project – Level I Study", which was prepared for the Wyoming Water Development Commission in 2001.

During the 2014 Budget Session, the Eastern Shoshone and Northern Arapaho Tribes applied for, and received, funding to conduct a Level II, Phase I Storage Feasibility Study that would build on the 2001 Level I study. The Phase I study analyzed irrigation water shortages and water availability to store under a present day water right as well as alternatives for constructing new or enlarging existing dams and reservoirs to offset documented irrigation shortages. Constructing new, or enlarging existing storage, will require issuance of a permit to appropriate water from the Wyoming State Engineer's Office and must take into consideration the implications related to the Big Horn General Adjudication.

Building off of previously completed work and additional data collected under this study, approximately 80 different storage alternatives were analyzed against one another. Taking into consideration criteria such as hydrology, technical feasibility, environmental impacts, estimated costs, and Tribal concurrence, the alternatives were screened. Alternatives were ranked by score and top alternatives were analyzed in greater detail.

In summary, based on the Level II, Phase I investigation, it was concluded that seasonal irrigation water shortages in the Big Wind River watershed exist, additional water is available for a new storage appropriation, and storage alternatives are feasible. Further analysis was then recommended to refine project knowledge.

During the 2017 General Session, the Sponsor applied for, and received, funding to continue to analyze the feasibility of the development of additional surface water storage under a Level II, Phase II Study. The current Phase II analysis being conducted includes the following key components:

- Hydrologic Model Refinement
- In-Depth Geological/Geotechnical Analysis and Field Investigation
- Wetlands Delineation and Other Aquatic Resources Investigation
- Cultural Resource Surveys
- Economic Analysis Refinement

The overarching objective of the Phase II analysis is to continue to develop project knowledge by leveraging decades of work to develop a preferred alternative for recommendation for a Level II, Phase III (permitting and final design) funding request. The final report is expected in 2020.

14. **PROJECT:** **Bitter Creek/East Flaming Gorge Watershed Study**
LEVEL: I
SPONSOR: Sweetwater County Conservation District
LOCATION: Sweetwater County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	65	2017	I	$ 1,087,500	2020*

*The 2017 Wyoming State Legislature authorized a "block appropriation" for one or more of seven watershed studies for which applications had been received and for which the Commission was instructed to establish a prioritized list. This study was one of four prioritized and approved for funding by the Commission with a project specific budget of $271,875.

PROJECT INFORMATION:
The Sweetwater County Conservation District requested a watershed study to evaluate current watershed function, water availability and the hydrology/hydrogeology in the Bitter Creek, Killpecker, and Flaming Gorge (eastern portion) watersheds. The District is interested in enhancing watershed processes and repairing or developing new water supplies for livestock. Understanding the condition of rangeland, wetlands, and riparian areas within the drainage will help with erosion and water quality issues on bacteria and Chloride listed Bitter Creek. Water projects that can be packaged into a watershed improvement plan is of interest to the conservation district and its partners. This information would provide baseline data from which the District can pursue implementation of management practices that address the natural resource issues within the drainage. This Study is now in progress, on schedule, and will be completed late 2018. A draft results presentation was held in Rock Springs, WY on October 2, 2018.

15. **PROJECT:** **Broken Wheel Ranch Water Supply 2017**
LEVEL: III
SPONSOR: Broken Wheel Ranch Improvement and Service District
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	168	2015	I	$ 100,000	2018
Level III	75	2017	I	$ 613,050	2022*

*67% grant

PROJECT INFORMATION:
The Broken Wheel Ranch Improvement and Service District is located in northwestern Lincoln County and the Salt River Basin, about five miles south of the Town of Alpine. The sponsor's public water system serves a population of approximately 50 people through 20 taps. The system is supplied with groundwater from one approximately 302-foot deep well. The permitted yield of the well is 15 gpm. The sponsor's water system includes two (2) concrete tanks, totaling 10,532 gallons (about 5,000 gallons for each tank). Since the beginning of September 2016, the sole supply well has been nearly dry. The Sponsor has been forced to purchase and haul multiple loads of drinking water from the Town of Alpine to maintain water supply to the residents. Late in 2016, the well yield declined to approximately one gpm but showed some improvement in 2017.

The Level III construction project was authorized by the Legislature during the 2017 session with a 67% grant from WWDC Account I. The remaining project funding was sought from the Drinking Water SRF and USDA Rural Development. Work is ongoing to secure land rights for construction and long-term operation and maintenance of the project, which consists of a new alluvial well, a pump and controls to operate the well, a pipeline from the well to the storage tanks, and one additional storage tank. Design has begun with a well drilling contract to follow. Once the new well is determined to be a satisfactory supply source, a construction contract for the remaining project components will be bid. Construction of the project has been delayed while the district searches for a well location.

16. **PROJECT:** **Buffalo Groundwater Supply**
LEVEL: II
SPONSOR: City of Buffalo
LOCATION: Johnson County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	$ 600,000	2009
Level I	74	2014	I	$ 190,000	2017
Level II	65	2017	I	$ 180,000	2020

PROJECT INFORMATION:
In 2016, the City of Buffalo requested a Level II study to determine the feasibility of developing a Madison Aquifer groundwater supply for the City from an existing 3,809-foot deep well located approximately 15 miles south of the City. The project area is located from the City and extends to the mouth of Crazy Woman Creek, along the eastern flank of the Bighorn Mountains.

The City currently relies on surface water from Clear Creek for its sole drinking water supply. A back-up groundwater supply is desirable for supply during potential future droughts or during any quality or quantity problems with the current surface water system. This Level II feasibility study was approved to investigate and evaluate the quantity and quality of water available from the well as a potential groundwater supply for the City of Buffalo and the feasibility of connecting the well to the City's water supply system.

The study commenced in June, 2017 and an Interim Draft Report of the Preliminary Analysis of Groundwater Alternatives were submitted for review to present the initial findings of the groundwater study. Of the five groundwater alternatives presented in this report, the City of Buffalo selected the Alluvial Aquifer along Clear Creek as their desired option. This Level II study is now complete with the final report, executive summary, and project deliverables submitted in September, 2018. A public hearing on the project was held October 25, 2018 in Buffalo, WY.

17. **PROJECT:** **Buffalo Main Street Pipeline**
LEVEL: III
SPONSOR: City of Buffalo
LOCATION: Johnson County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	74	2014	I	$ 190,000	2017
Level III	55	2016	I	$ 154,100	2021*

* 67% grant

PROJECT INFORMATION:
The July 2015, Level I Buffalo Master Plan recommended this Level III construction project and the City listed this project as their number one priority. The Buffalo Main Street Pipeline is designed to construct a high-pressure pipeline of 12-inch PVC pipe from the South Tank to feed a specific pressure zone within the City of Buffalo's water system. The Main Street Pipeline will need to be coordinated with WYDOT.

In 2016, the Sponsor secured the services of an Engineer and initiated the design phase. The project completed the engineering phase, secured the necessary permits and easements in 2017. The project was bid and constructed during 2018. The project is complete and is functioning as intended. The project is in the closeout phase.

18. PROJECT: Buffalo Tank Valve

LEVEL: III
SPONSOR: City of Buffalo
LOCATION: Johnson County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	74	2014	I	$ 190,000	2017
Level III	55	2016	I	$ 117,250	2021*

67% grant

PROJECT INFORMATION:
The July 2015, Level I Buffalo Master Plan recommended this Level III construction project and the City listed this project as their number two priority. The Buffalo Tank Valve project is for the design and construction of a water-level control valve system on the South Tank of the City's water system.

In 2016, the Sponsor secured the services of an Engineer and initiated the design phase. The project completed the engineering phase, secured the necessary permits and easements in 2017. The project was bid and constructed during 2018. The project is complete and is functioning as intended. The project is in the closeout phase.

19. PROJECT: Cambria Tank

LEVEL: III
SPONSORS: Cambria Improvement & Service District
LOCATION: Weston County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$ 100,000	2010
Level II	1	2011	I	$ 125,000	2014
Level III	23	2015	I	$ 626,450	2020*

*67% grant

PROJECT INFORMATION:
The Cambria Improvement & Service District is located in Weston County north of the City of Newcastle. The District, formed in 1984, obtained a water supply from Newcastle under a contract limited to 50 gallons per minute. The supply system was constructed in 1986 and consisted of approximately 2.5 miles of 6-inch transmission pipeline, two pump stations, and two storage tanks with 86,000-gallon capacity. The District has a demand of 72,000 gallons per day to serve an estimated population of 188 through 75 taps. Cambria presently does not have capacity within the existing system for fire suppression. The

District is anticipating additional demand on their delivery and storage infrastructure due to growth and pass-through supply to the Sweetwater ISD. The Level II study was completed in 2012.

The District has secured their final easement as well as additional funding. The project has been designed, permitted, bid and construction will start in the fall of 2018.

20. PROJECT: Casper Alcova Irrigation District Underdrain 2018

LEVEL: III
SPONSOR: Casper Alcova Irrigation District
LOCATION: Natrona
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	II	$ 200,000	2008
Level I	121	2018	II	$ 416,740	2023*

67% grant

PROJECT INFORMATION:
The project is to replace a four-barrel box culvert underdrain. The existing underdrain concrete is in poor condition; with reinforcing steel visible in places, and leakage into the drain from the main canal concrete structure that passes over the cross drain. The remainder of the main canal structure serves as a check structure and a wasteway to dump the canal down the drainage in case of emergency. The check portion of the structure is sound and will remain in place. The wasteway is integral to the underway and will be removed and replaced with a new wasteway that will dump water into the cross drainage at a location near the outlet of the underway. The underdrain replacement is estimated to be a 9 foot x 3 foot reinforced concrete box culvert. The wasteway replacement will have canal gates to control water flow into four 60-inch diameter pipes to carry excess canal water to the drainage below. Failure of the existing structure could cause severe damage to the Casper Canal and jeopardize water delivery to approximately 21,210 acres, which represents a high percentage of the sponsor's service acreage. The Bureau of Reclamation has also noted the deficiencies of the existing structure. This structure is listed as #8 in the overall priority list of facilities needing attention and #7 in the structures to be rehabilitated in the Level II Study completed in 2008. The District is in the process of selecting a consulting engineer for the project.

21. PROJECT: Casper Alcova Rehabilitation 2015

LEVEL: III
SPONSOR: Casper Alcova Irrigation District
LOCATION: Natrona County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	II	$ 200,000	2008
Level III	23	2015	II	$ 187,600	2020*
Level III	55	2016	II	$ 369,840	2021*

* 67% grant

PROJECT INFORMATION:
The Casper Alcova Irrigation District (CAID) received funding authorization to replace segments of Laterals with buried pipeline. The sponsor received 67% grant funding from WWDC to match with its own funds to construct the project. The project is expected to close out by the end of 2018 or the spring of 2019.

22. **PROJECT:** **Casper Alcova Underdrain 2016**
LEVEL: III
SPONSOR: Casper Alcova Irrigation District
LOCATION: Natrona County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	II	$ 200,000	2008
Level III	55	2016	II	$ 369,840	2021*

* 67% grant

PROJECT INFORMATION:
Subsequent to the Casper Alcova Irrigation District (CAID) Master Plan and GIS study, the CAID requested funding to replace a double barrel box culvert underdrain on the main canal (Casper Canal). The sponsor requested 67% grant funding from WWDC to match with its own funds to publically bid and contract the work with a contractor for construction of the project. The funding will finance eligible project costs including design, construction engineering, land rights, permitting, and construction. The major project components were completed prior to the 2018 irrigation season. The sponsor anticipates completing the project in late 2018 or early 2019.

23. **PROJECT:** **Casper CY Booster Station Replacement 2017**
LEVEL: III
SPONSOR: City of Casper
LOCATION: Natrona County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	118	2004	I	$ 452,500	2008*
Level I	75	2005	I	$ 200,000	2007
Level III	121	2007	I	$ 3,200,000	2012*
Level III	68	2010	I	$ 663,300	2015**
Level III	14	2012	I	$ 1,541,000	2017**
Level III	141	2013	I	$ 487,559	2018**
Level III	100	2014	I	$ 3,685,000	2019*
Level III	23	2015	I	$ 1,728,600	2020**
Level III	75	2017	II	$ 852,910	2022**

*67% grant, 33% loan
**67% grant

PROJECT INFORMATION:
Casper's water supply comes from 29 shallow alluvial wells located along the North Platte River. The wells are 30 – 40 feet deep and have an average yield of 567 GPM for a total of 16,425 GPM supplied by all wells. The City of Casper water system also has an intake structure that yields 42 cfs. (18,850 GPM) from the North Platte River. In 2017, the Legislature appropriated $852,910 in grant funding to replace an existing 63-year-old pump station. The pump station supplies water to approximately 8,000 metered taps.

The design and permitting of the project is nearing completion and the project is anticipated to bid in the winter of 2018/2019 with planned construction in 2019.

24. **PROJECT:** **Casper Zone II 2015**
LEVEL: III
SPONSOR: City of Casper
LOCATION: Natrona County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2005	I	$ 200,000	2007
Level III	121	2007	I	$ 3,200,000	2012*
Level III	68	2010	I	$ 663,300	2015**
Level III	14	2012	I	$ 1,541,000	2017**
Level III	23	2015	I	$ 1,728,600	2020**

*67% grant, 33% loan
**67% grant

PROJECT INFORMATION:
Casper's water supply comes from 29 shallow alluvial wells located along the North Platte River. The wells are 30 – 40 feet deep and have an average yield of 567 GPM for a total of 16,425 GPM supplied by all wells. The City of Casper water system also has an intake structure that yields 42 cfs. (18,850 GPM) from the North Platte River. In 2015, the Legislature appropriated $1,728,600 grant funding for the project.

The project involves installing additional 12 inch PVC pipeline on the western side of Casper to provide redundancy and backup to the existing system. The need for the pipeline was identified in the 2006 Casper Master Plan. The City has hired an engineering consultant and the project is currently designed and permitted and is waiting on a Title Opinion before going out for bid. The project is anticipated to go to construction in 2019.

25. **PROJECT:** **Casper Zone 3 Improvements**
LEVEL: III
SPONSOR: City of Casper
LOCATION: Natrona County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2005	I	$ 200,000	2007
Level III	14	2012	I	$ 1,541,000	2017*
Level III	100	2014	I	$ 3,685,000	2019**

*67% grant, 33% loan
*67% grant only

PROJECT INFORMATION:
Casper's water supply comes from 29 shallow alluvial wells located along the North Platte River. The wells are 30 – 40 feet deep and have an average yield of 567 GPM for a total of 16,425 GPM supplied by all wells. The City of Casper water system also has an intake structure that yields 42 cfs. (18,850 GPM) from the North Platte River. This project is part of Casper's efforts to systematically improve its water supply system in accordance with the 2006 Level I Casper Water Master Plan. This project involves adding a new booster pump station, a new 400,000 gallon water storage tank and approximately 19,700 feet of 16-inch pipe to provide additional capacity to the system as well as redundancy to the eastern portion of the service area. The booster station, tank and pipeline construction were specifically identified

in the master plan. The majority of the construction is complete. The tank is currently being painted and should be complete the spring of 2019.

26. **PROJECT:** **Central Wyoming Regional Elevated Tank**
LEVEL: III
SPONSOR: Central Wyoming Regional Water System JPB
LOCATION: Natrona County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2005	I	$ 200,000	2007
Level III	100	2014	II	$ 1,648,200	2019*

*67% grant

PROJECT INFORMATION:
The Central Wyoming Regional Water System (Regional) was formed in 1993 for the purpose of providing a centralized water supply/treatment and transmission system to the central Wyoming area. Financing from the Wyoming Water Development Commission and a loan from the Permanent Mineral Trust fund was used for construction of a water treatment plant, well fields and regional transmission pipelines which were completed in 2001. The Regional System obtains its water through a series of wells constructed in the North Platte River alluvium.

This project is part of the Casper area's efforts to systematically improve its water supply system in accordance with the 2006 Level I Casper Water Master Plan. This project involves construction of a new water storage tank to replace a 35 year old water storage tank at higher elevation to provide proper water pressure as recommended in the 2006 Water Master Plan. The project is currently in construction and nearing completion. The project should close out in the winter or spring of 2019.

27. **PROJECT:** **Cheyenne Municipal Storage**
LEVEL: II
SPONSOR: Cheyenne Board of Public Utilities
LOCATION: Carbon, Albany, and Laramie Counties
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
I	74	1993	I	$ 250,000	1994
III	89	1993	II	$ 6,500,000	1999
III	206	1995	II	$ 6,000,000	1999
II	8	1995	II	$ 250,000	1996
III	59	1996	II	$ 1,200,000	1999
III	45	1997	II	$ 80,000	2000
III	96	2000	I	$ 11,000,000	2004
III	2	2001	II	$ 70,000	2005
II	7	2002	I	$ 60,000	2004
III	88	2002	II	$ 680,000	2007
III	69	2003	I	$ 2,000,000	2007
III	69	2003	I	$ 5,000,000	2008
III	114	2005	I	$ 1,000,000	2007
II	99	2006	I	$ 450,000	2008
III	75	2008	II	$ 670,000	2013
III	63	2011	I	$ 14,029,800	2016

III	141	2013	I	$	4,261,200	2018
III	100	2014	I	$	1,206,000	2019
III	55	2016	I	$	10,720,000	2019
II	94	2018	III	$	330,000	2023

PROJECT INFORMATION:
During the 2018 Budget Session, the City of Cheyenne – Board of Public Utilities (BOPU), a regional supplier to an estimated 75,000 people in the City of Cheyenne, the South Cheyenne Water and Sewer District, and F.E. Warren Air Force Base, received funding to conduct a Level II study to evaluate options to enlarge the capacity of its raw water storage system.

The BOPU utilizes a complex system that includes trans-basin diversions, water-right exchanges, reservoirs, pipelines, and other infrastructure that spans across Albany, Carbon, and Laramie counties in southeast Wyoming. Ultimately, the water supply is gravity fed from the Snowy Range in Albany County to Granite Springs and Crystal Lake Reservoirs in Laramie County and on to the Sherard Water Treatment Plant west of Cheyenne. In the 2013 Cheyenne Water and Wastewater Master Plan, population and land use projections for 10, 20, and 50 year planning horizons were developed. The additional projected total annual demand for the 50 year projection equates to approximately 16,081 acre-feet per year. The Master Plan concluded that additional source water supplies would be required to meet the demand projections, and recommendations included investigation into storing additional surface water.

Additional surface water storage alternatives that will be analyzed will include raising the existing dams at Granite Springs, Crystal Lake, and Rob Roy Reservoirs. Other alternatives that have been recommended for further evaluation in past studies, conducted on behalf of BOPU, include additional pipelines to connect raw water, and/or other existing storage facilities, to their water treatment plant, and dredging of sediment that has accumulated in the reservoirs, affecting actual storage capacity.

The study will build upon existing work created by and for BOPU, and will include an analysis of the Purpose and Need of the project, hydrology, a range of alternatives, and permitting considerations. Field reconnaissance will also be conducted to investigate and confirm site conditions at the various alternatives analyzed. This project is underway and on schedule with a final report expected by the end of 2019.

28. PROJECT: Cheyenne Southern Pipeline - Phase III

LEVEL: III
SPONSOR: City of Cheyenne – Board of Public Utilities
LOCATION: Laramie County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	100	2014	I	$ 1,206,000	2019*
Level III	55	2016	I	$ 10,720,000	2019†

* 67% grant only for design
† 67% grant for construction. The 2014 appropriation of $1,206,000 was increased by $9,514,000 to $10,720,000.

PROJECT INFORMATION:
In 2003, the City of Cheyenne completed a Water and Wastewater Master Plan to outline system improvements that are needed for reliable and adequate water services for 10 to 50 years in the future (2012 through 2052). The master plan also provided a 10-year capital improvement and financing plan. Included in the recommended improvements was the need to construct a Southern Water Transmission Line (42”/40”) from the storage reservoirs at the Sherard Water Treatment plant west of Cheyenne on Happy Jack Road to and across areas on the southern portion of Cheyenne.

Under Phase I of the Southern Water Transmission Project, the Cheyenne Board of Public Utilities (BOPU) extended a 42 - inch line from the Sherard Water Treatment Plant 13,200 feet eastward along Happy Jack Road to the intersection of Happy Jack Road with Round Top Road with financing provided by a loan from the Wyoming Drinking Water State Revolving Loan Program.

Under Phase II of the Southern Water Transmission Project, the BOPU is constructed 11.5 miles of transmission main ranging in size from 42 - inch to 12 - inch. The route of the Phase II extends 3 miles south from the end of the Phase I project, then approximately 4 miles east crossing Interstate I-25 ending at Walterscheid Blvd. Water lines also extend 2.5 miles north on Parsley Blvd. and 2 miles north on Walterscheid Blvd. to Fox Farm Rd. Extensions along Parsley and Walterscheid Boulevards also connect the Southern Water Transmission Main into the City's water system near the downtown. This project also includes a pump station in order to improve flows from the pipeline because the current hydraulic grade line is insufficient to fill the existing water storage tank that serves the developable area.

Phase III of the Southern Water Transmission Project includes construction of 6.1 miles of water main ranging in size from 36 – inch to 12 – inch. Phase III will begin where the Phase II pipeline ends, continue east along the Wallick Road alignment as a 36 – inch pipeline. The proposed pipeline will cross U.S. 85, run past the LCCC campus and then turn north as 16 – inch pipeline, connecting back into the existing water system near I-80. The pipelines are complete and BOPU is working to complete the installation of large water meters in the newly constructed PRV vaults. This work will be completed by June of 2019.

29. **PROJECT:** **Clear Creek Storage**

LEVEL: II
SPONSOR: Lake DeSmet Conservation District
LOCATION: Johnson and Sheridan Counties
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	III	$ 300,000	2011
Level II	1	2011	III	$ 250,000	2014
Level II	66	2013	III	$ 350,000	2016
Level II	168	2015	III	$ 700,000	2021

PROJECT INFORMATION:
The Clear Creek watershed, located in northwest Johnson County and extending into southeast Sheridan County, is approximately 738,312 acres with land ownership divided among federal, private, and state. The watershed includes one primary river system, the main stem of Clear Creek, and its tributaries including French Creek, Rock Creek, Shell Creek, Piney Creek, Boxelder Creek and Buffalo Creek.

Landowners within the Clear Creek watershed are concerned about water storage and the need to improve irrigation systems and water efficiencies within the drainage. The Lake DeSmet Conservation District (LDCD) conducted a Rapid Watershed Assessment (RWA) for the Clear Creek drainage in 2007, and water quality/quantity was identified as the largest issue, followed by water availability and conservation. Requests were made to both LDCD and Sheridan County Conservation District (SCCD) to partner with the Wyoming Water Development Commission to conduct a Level I Watershed Study. In addition, several irrigation interests expressed the need for assistance with evaluating irrigation infrastructure.

Several public meetings were held in 2008 to inform the community of the WWDC's watershed study process. Based on the positive response, the decision was made by LDCD and SCCD to co-sponsor a WWDC funded study of the Clear Creek Watershed. The study kicked off in July of 2009 as a comprehensive assessment of the watershed's condition, needs and opportunities. The study provided a detailed evaluation of the watershed and incorporated available technical information describing

conditions and assessments of the watershed. The project consisted of field investigations, development of a Geographic Information System (GIS), development of a prioritized list of potential water development and system rehabilitation projects, preliminary cost estimates, permitting requirements and funding opportunities. The watershed study was completed in early 2011. The storage component of this study identified evident water shortages and potential water development opportunities.

At the request of the Lake DeSmet Conservation District, a Level II Storage Feasibility Study was initiated in mid-2011 to further explore storage opportunities identified in the Clear Creek Watershed Study. The objective has been to develop and/or expand current water storage in the Clear Creek Watershed to collect the excess spring runoff and allow for controlled, consistent releases, thus providing agricultural benefits through improved management and late season irrigation, potential municipal benefits through supply and reduction of channel erosion and flooding in area communities, as well as environmental and recreational benefits through the enhancement of fisheries and wildlife habitat. The Level II study focused primarily on hydrologic analysis, need for supplemental water, and site investigations to determine the most viable and least environmentally damaging storage locations. Completion of a StateMod Hydrologic model of the entire Clear Creek Watershed has given understanding of where irrigation shortages are located, where water is legally available to store with a present day water right and how incorporation of new storage can reduce shortages within the watershed. The model also accounts for Lake DeSmet and its many water rights, possibilities of its utilization in reducing shortages and its possible impacts to other reservoir yields evaluated.

Results of the Level II Storage Feasibility Study allowed WWDC to identify the Bull Creek Reservoir concept as the preferred alternative. The Bull Creek Reservoir concept had the potential for multiple uses and benefits, not just supplemental irrigation. The Reservoir could be located off-channel on the ephemeral Bull Creek drainage, approximately 5 miles south of the City of Buffalo (City), and would be filled by a pipeline out of Clear Creek. In addition to reducing irrigation shortages on lands both south of Buffalo and on lower French Creek, there was the potential for municipal water to be stored in the reservoir for the City, as well as for storage water to be used to supplement Clear Creek stream flows through town during dry periods, having a positive impact on fisheries and tourism. Furthermore, there could be a minimum pool in the reservoir for public recreation and fisheries, water conservation through consolidation of irrigation ditches, flood control, potential for increased flow in North Fork Clear Creek, as well as direct and indirect economic benefits to the community.

During the 2013 General Session, the Lake DeSmet Conservation District requested and received additional funding for a Level II, Phase II Storage Feasibility Study to continue to refine data on the storage opportunities analyzed in the Clear Creek Storage, Level II Study. Significant effort was placed on engaging the parties potentially affected and/or benefited by the Bull Creek Reservoir concept. Feedback from the conversations was very positive and plans were to continue the discussion so as to develop the partnerships necessary to bring a project to fruition. Work also focused on hydrologic model refinement, geotechnical and environmental investigations, and economics to further determine the feasibility of the preferred alternative. Geotechnical investigation of the Bull Creek Reservoir site took place in 2014. Results showed a strong foundation to safely build an embankment on, however uncontrolled seepage rates appeared to be high through the bed of the reservoir pool area and surrounding ridges because of bedrock that is predominantly uncemented sandstone. Foundation treatments to control seepage are common and geotechnical engineers analyzed mitigation measures to reduce seepage and increase storage efficiency at the Bull Creek site. Consequently, the overall cost associated with construction of the project increased.

With the information from the subsurface geotechnical investigation and at the recommendation of the WWDO, the Lake DeSmet Conservation District requested and received additional funding during the 2015 General Session to continue the Level II, Phase II Storage Feasibility Study to further consider the Bull Creek Reservoir site and alternatives to said site. The WWDO and District's intent was to avoid overlooking any feasible alternatives that could be constructed at a lesser cost. Shortly after funding

became available, private lands came up for sale higher in the Bull Creek drainage which was previously unavailable for consideration of a reservoir site, but exhibited better geologic conditions. Through coordination and discussions with various agencies and non-governmental organizations, the Office of State Lands and Investment Board of Land Commissioners began analyzing the property and eventually made a decision to complete a land exchange to acquire the property, as it fit very well with their trust land management objectives. The negotiation of the land exchange opened the door on an Upper Bull Creek reservoir alternative.

A geotechnical investigation of the Upper Bull Creek site was ultimately allowed to take place in the spring of 2016. Results were positive and a geologic data report was completed on the materials laboratory testing. Foundation treatment and embankment design were initiated. Furthermore, an aquatic resource inventory was completed for the site. The project appears to be feasible and a draft report of Level II information is being compiled. A draft results presentation will be held and feedback from stakeholders will be gathered. If feedback is favorable, additional work in preparation for permitting and final design could include further field work, operation and maintenance plans, beneficiary/stakeholder meetings, and land appraisals and negotiations.

It should be noted that a single storage project cannot alleviate all shortages within the Clear Creek Watershed and that other storage alternatives may need to be advanced in the future to address these shortages.

30. PROJECT: Clearmont Test Well Study

LEVEL: II
SPONSOR: Town of Clearmont
LOCATION: Sheridan County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	85	2007	I	$ 75,000	2009
Level II	168	2015	I	$ 750,000	2018

PROJECT INFORMATION:

In 2008, a Level I study was completed to determine the impacts of coal bed methane (CBM) development on the Town of Clearmont's two water supply wells. The two wells are constructed into the Wasatch/Fort Union aquifer system. With both wells operating, the Town has a sufficient water supply. However, if Well No. 2 becomes inoperable, the Town would not be able to meet its water supply demands. As a result, one of the recommendations of the Level I Study was to apply to the WWDC for a Level II feasibility study to conduct a well siting study and construct a test/production well to replace Well No. 1.

A test/production well (Clearmont Well No. 3) was completed to a depth of 1,626 feet in April 2016. The well penetrated into the Fort Union Formation. The well yields 100 gpm of water with similar, but slightly lower quality water than the two existing Town wells. From July to August 2017, a second, shallow, test well (Clearmont Alluvial Well) was completed to 70 feet deep into the alluvial deposits. The alluvial test well yielded 15 gpm of non-potable water (~7,620 milligrams per liter, TDS).

The Town decided to pursue a Level III construction project to purchase the new well and connect the well to the Town's system. A public hearing on the project was held June 26, 2018 in Clearmont, WY. This Level II study is now complete with the final report, executive summary, and project deliverables also submitted June, 2018.

31. **PROJECT:** **Cody Canal Laterals**
LEVEL: II
SPONSOR: Cody Canal Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	II	$ 250,000	2006
Level III	121	2007	II	$ 125,000	2012
Level II	85	2007	I	$ 75,000	2008
Level III	75	2008	II	$ 1,250,000	2012
Level II	33	2008	II	$ 200,000	2010
Level III	63	2011	II	$ 50,000	2016
Level III	63	2011	II	$ 223,000	2016
Level III	41	2013	II	$ 144,000	2018
Level III	65	2017	II	$ 180,000	2020

PROJECT INFORMATION:
The Cody Canal Irrigation District has faced many challenges as formerly irrigated lands are being converted to housing and other developments. There are several open ditch laterals running through and around the Town of Cody that provide Cody's raw water supply to yards and parks, and supply pastures and agricultural operations. With continued development it has become a challenge to maintain open ditches in urban areas, and public safety is a concern as there are children playing in the laterals. The potential for piping laterals to improve safety also has a water conservation element important to the District. The District asked for a Level II Feasibility study to analyze the feasibility of piping the laterals throughout their system.

The draft results presentation was September 13, 2018. The study identified multiple projects for converting open ditch to pipeline. The final deliverables were received mid-October, 2018 and the project is now completed.

32. **PROJECT:** **Cody Tank 2017**
LEVEL: III
SPONSOR: City of Cody
LOCATION: Park County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$ 100,000	2009
Level III	75	2017	I	$ 2,412,000	2022*

*67% grant

PROJECT INFORMATION:
In 2008, the City of Cody received WWDC funding to complete a master plan study. The master plan study was completed in 2009. The study provided infrastructure outline and recommendations for the City to pursue. The City has pursued several infrastructure upgrades on their own, partnered with WWDC and is currently looking to partner with WWDC on a new storage tank located on Beacon Hill in Cody, WY. The tank project was identified in the master plan study.

In 2017, the Sponsor received grant funds from the New Development program in the amount of $2,412,000. This amount is for a 67% grant of the project eligible costs. The Sponsor will provide the

remaining project funds. During 2017, the Sponsor secured the services of an engineer and initiated the design process. In 2018, the engineer completed project surveying, site location, and is working towards completing the project design. The engineer and Sponsor are working to secure the necessary easements and permits for the project. The project is anticipated to go to bid in late 2018 or early 2019.

33. **PROJECT:** **Cokeville Tri-Diversion Structure**
LEVEL: III
SPONSOR: Cokeville Watershed Improvement District
LOCATION: Lincoln County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	9	1995	II	$ 50,000	1996
Level III	59	1996	II	$ 160,000	1998
Level II	74	2014	II	$ 100,000	2016
Level III	55	2016	II	$ 400,000	2021*

*67% grant, 33% Loan

PROJECT INFORMATION:
The Cokeville Tri-Diversion Structure was built in the early 1960's. A Level II study and report for the Cokeville Tri-Diversion Structure was funded by the WWDC in 1995. A construction appropriation was approved by the WWDC in 1996 and the sponsor used $17,919 for repair of the diversion structure. Two of the three canals (Spring Creek and Middle Channel) receiving water from the diversion flow through the Town of Cokeville. Although the District does not currently own the actual structure, the District has operated and maintained the structure for many years, and they are taking steps to acquire ownership of the facility.

Funding was appropriated in 2014 for a Level II study to obtain plans for engineering designs and construction cost estimates for the Tri-Diversion Structure. The District hopes to use these designs to perform repairs due to the poor condition and inefficiency of the existing diversion structure. The final report for the 2014 Level II study was completed in 2015.

In 2016, the Legislature appropriated funding for the design and construction to rehabilitate the existing structure. The appropriation included $268,000 in grant funding and $132,000 in loan funding. Currently, the District obtained grant funding from Wyoming Wildlife and Natural Resource Trust Fund in order to reduce the debt they would acquire due to the loan portion of funding awarded through the WWDC.

The Cokeville Watershed Improvement District was able to secure additional grant funding through the Wyoming Wildlife and Natural Resource Trust Fund. After the District secured additional grant funding, the District submitted a 2018 funding request to the Wyoming Water Development Commission to complete the project rather than proceed with a phased approach. The funding request was presented to the Wyoming Water Development Commission for their consideration at the 2018 November commission meeting.

34. **PROJECT:** **Cottonwood Irrigation District Pipeline Replacement 2018**
LEVEL: III
SPONSOR: Cottonwood Irrigation District
LOCATION: Lincoln
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	38	2016	II	$ 165,000	2018
Level I	121	2018	II	$ 834,000	2023*

67% grant, 33% loan

PROJECT INFORMATION:

This project is to replace some of the districts existing steel irrigation transmission lines on Laterals 22 and 24 with PVC or HDPE pipe. The existing transmission pipelines are approximately 45 years old and are experiencing corrosion and pitting due to aggressive soils. These steel pipelines experience significant corrosion breaks every year and require a significant amount of time for the district to repair the lines. Replacement of the steel transmission pipelines will eliminate water loss, due the pipeline breaks, and improve overall irrigation efficiency.

The district has hired the project engineer and the engineer has initiated the project design. This project is currently under design and the engineer held the ten percent review meeting in October 2018.

35. PROJECT: Cowley Tank 2017

LEVEL: III
SPONSOR: Town of Cowley
LOCATION: Big Horn County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	75	2008	I	$ 1,366,800	2013
Level III	141	2013	I	$ 554,023	2018
Level I	168	2015	I	$ 135,000	2018
Level III	75	2017	I	$ 3,155,700*	2022*

*67% grant

PROJECT INFORMATION:

As recommended and prioritized in the 2016 master plan, this project includes the installation of a new 500,000 gallon elevated water tank with associated 2,300 feet of water transmission line, valves, and connections to replace the current, inadequate 200,000 gallon tank and replacing existing asbestos-cement water lines. The project also entails installation of a chlorination unit for disinfection and backflow prevention on four taps along the town's transmission line before the chlorination unit.

This project is currently in design with construction anticipated in 2019.

36. PROJECT: Deaver Irrigation District Flume Replacement/Laterals 2017

LEVEL: III
SPONSOR: Deaver Irrigation District
LOCATION: Park and Bighorn Counties
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	168	2015	II	$ 162,000	2018
Level III	75	2017	II	$ 91,000	2022*

* 100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
The Deaver Irrigation District Master Plan was completed in the fall of 2016. The sponsor received authorization from the 2017 Legislature for a materials only project consisting of three of the smaller high priority projects identified in the Master Plan.

The D-23 flume was constructed in the 1960's and serves approximately 372 acres. The wood in the D-23 flume structure has deteriorated, and the steel channel that carries the water is severely corroded. In many places, the steel liner is only sealed by the poly liner that was installed in the 1990's. The district plans to replace the flume with an inverted siphon. Design of this structure has begun with construction anticipated to be complete prior to the 2018 irrigation season.

The remaining two project components are Laterals D44 – 9 & 10. Conversion of the D44 lateral from open canal to pipe began in the 1980's. The project was completed up to turnout box #9. The district plans to replace the box with a new spillway main box, two attached weir boxes to serve the two turnouts and place the remaining 2,000 feet of open lateral into buried pipe. This would fully complete the D44 lateral.

The project was closed out in August 2018.

37. PROJECT: Deaver Irrigation District Rehabilitation 2018

LEVEL: III
SPONSOR: Deaver Irrigation District
LOCATION: Park and Bighorn Counties
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	168	2015	II	$ 162,000	2018
Level III	75	2017	II	$ 91,000	2022*
Level III	121	2018	II	$ 230,000	2023*

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
The Deaver Irrigation District Master Plan was completed in the fall of 2016. The sponsor received authorization from the 2018 Legislature for a materials only project to replace the failing Marchant flume and approximately 5,300 feet of open ditch with a new 2,100 foot siphon.

The procurement documents and Bureau of Land Management permitting are complete and the District plans to advertise for materials in the fall of 2018 with construction occurring in 2018 and 2019.

38. PROJECT: Deaver Transmission Pipeline

LEVEL: III
SPONSOR: Town of Deaver
LOCATION: Big Horn County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	74	2014	I	$ 125,000	2017
Level III	55	2016	I	$ 770,500	2021*
Level III	105	2006	I	$ 313,200	2025**

* 67% grant
** 2017 Sponsor's Contingency Fund, 67% grant

PROJECT INFORMATION:
Transmission line replacement is identified as the highest priority in the recommendations developed in the Master Plan financed by the WWDC and completed in 2015. The Sponsor received Level III funding for a water transmission pipeline project that serves approximately 120 potable water taps. The WWDC appropriation was a 67% grant. The sponsor is providing $1,320 with the remainder of project funding being $378,180 in loan funds coming from the Drinking Water State Revolving Fund. The total project budget is $1,150,000.

The project is in construction anticipated in the summer of 2018. Completion of this project will result in reduced pipeline maintenance, more reliability in delivering water, and increased fire flow.

The project is expected to close out by the end of 2018.

39. PROJECT: Douglas Box Elder Spring

LEVEL: III
SPONSOR: City of Douglas
LOCATION: Converse County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$ 200,000	2010
Level III	63	2011	I	$ 1,487,400	2016*
Level III	55	2016	I	$ 9,447,000	2019**
Level III	121	2018	I	$ 0	2021***

*67% grant
** The 2011 appropriation of $1,487,400 was increased by $7,959,600 to $9,447,000 and the reversion date extended to from July 1, 2016 to July 1, 2019.
*** The 2011 appropriation reversion date extended from July 1, 2019 to July 1, 2021.

PROJECT INFORMATION:
The City of Douglas has three water sources to meet its potable water demands and a recently completed water treatment plant. The City is experiencing significant growth which is projected to continue in the immediate future when considering coal, oil & gas, uranium, wind energy, and pipeline corridor industries active in Converse County. In order to address the current and projected growth and meet the needs of the community, the city requested and received a Level I master plan in 2009. The master plan was completed in October 2010 and concluded the City's priority should be to replace the Box Elder Spring House and the aging 16-mile pipeline from the spring to the City of Douglas.

In 2011, the City of Douglas received a Level III – Phase I New Development project with an appropriation of $1,487,400 (67% grant). The City used their general funds and/or water funds for the remaining 33% of project costs. The appropriation was for the design of the entire project and funds to construct the spring house. The spring house project is completed.

In 2016, the Legislature approved New Development Level III – Phase II funding with an appropriation of $7,959,600. The financing plan includes a 67% grant to be used for construction and construction management activities related to the transmission pipeline from the Little Box Elder Spring to the City's current water system. The sponsor will be responsible for obtaining the remaining 33% funding. The Transmission pipeline design and permitting is complete. Bidding for the project will take place in the fall of 2018 with construction planned to start in the spring of 2019.

40. **PROJECT:** **Douglas Test Well Study**

LEVEL: II
SPONSOR: City of Douglas
LOCATION: Converse County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$ 200,000	2012
Level III	63/55	2011/16	I	$ 9,447,000	2019
Level II	65	2017	I	$ 1,205,000	2020

PROJECT INFORMATION:

The City of Douglas has three water sources to meet its potable water demands including a 2007-2008 renovation of the water treatment plant on the North Platte River. The City has experienced significant growth in Coal, Oil & Gas, Uranium, Wind Turbine, and Pipeline corridor industries active and with future development potential in Converse County. Currently, summer demands are equal to the combined yields of the Little Boxelder Spring and the Sheep Mountain No. 1 Well. Extended periods of elevated turbidity in the North Platte River result in the inability to effectively operate the water treatment plant to meet maximum day demands, therefore a supplemental ground water supply source would provide certainty in meeting high demand periods.

A well siting exercise has been completed and negotiations are in effect with landowners to acquire temporary and permanent easements for test drilling and pipeline/power alignments. The project will be ongoing during 2019.

41. **PROJECT:** **Dry Creek Irrigation District Pipeline Replacement 2017**

LEVEL: Level III
SPONSOR: Dry Creek Irrigation District
LOCATION: Lincoln County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	168	2015	II	$ 150,000	2018
Level III	75	2017	II	$ 670,000	2022*

67% grant, 33% loan

PROJECT INFORMATION:

The Dry Creek Irrigation System was installed in the 1970s and has functioned well but is now showing indications of failure in the steel pipelines. Inspection and condition assessment completed as part of the Master Planning effort suggests all of the 19 miles of steel pipelines are experiencing significant corrosion. It is recommended that all steel lines be replaced. Because this would be too expensive for the District to replace all of the pipelines at once, the master planning included prioritization of pipeline segments so that the District could accomplish a phased replacement based on affordability of rates.

This project will replace 5,455 linear feet of 16” and 14” pipeline with new HDPE DR 13.5 pipe. The project begins at the connection between LN-5 and LN-5b and terminate 5,455 feet to the west at the Salt River. This alignment crosses Allred Road (Co Rd 135). At the crossing, it is anticipated that the new pipe will be installed through the existing steel pipe to minimize the cost of asphalt replacement. The project includes an end of the line drain to allow discharge to the Salt River and drainage of the pipeline

into an adjacent gravel drain area. The project was advertised for construction in July 2018. Construction began in August 2018 and was completed in September 2018. Close out documents are being processed and the project is anticipated to close out by November 2018.

42. PROJECT: Dull Knife Reservoir Spillway Rehabilitation

LEVEL: III
SPONSOR: Dull Knife Irrigation District
LOCATION: Johnson County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	23	2015	II	$ 1,715,000	2020*
Level III	105	2006	II	$ 73,850	2025**

*35% grant
**2017 Sponsor's Contingency Fund, 35% grant

PROJECT INFORMATION:
The main portion of the project relates to rehabilitating and improving the spillway for the Dull Knife Reservoir. Additional work will be completed to upgrade the water release structure and raise the dam crest to meet current dam safety water freeboard requirements.

During the design phase, it was discovered that the main dam structure did not meet current stability requirements. Additional earthen material will need to be added to the toe of the dam to meet current standards. This work was not anticipated during the preliminary design work for the project.

Bids were received on June 8, 2017 and the low bid significantly exceeded the project budget. The District and their engineer subsequently negotiated with the contractor to address the dam safety items. Following negotiations with the contractor, the District requested WWDC Sponsor's Contingency Funds to cover the final negotiated costs of the dam safety items. At the August 23, 2017 commission meeting, the WWDC approved the additional requested funding from the Sponsor's Contingency Funds. The project is in construction and is anticipated to be complete in the fall of 2018 or the spring/summer of 2019.

43. PROJECT: Eastern Shoshone Boulder Flats Well Field

LEVEL: III
SPONSOR: Eastern Shoshone Tribe & Shoshone Utilities Organization (SUO)
LOCATION: Fremont County, Wind River Indian Reservation (WRIR)
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	1	2011	I	$ 275,000	2014
Level III	100	2014	I	$ 804,000	2019*

* 67% grant only

PROJECT INFORMATION:
Based on the findings of the WWDC 2013 Level II study, a new well field was identified as a feasible supplemental source for Boulder Flats. The study also recommends that booster pumps on the Fort Washakie-Boulder Flats pipeline should be replaced and upgraded from twin 7½ hp to twin 15 hp pumps to better serve existing and future demands. Both aspects will address impact demands foreseen with development of the Shoshone Rose casino complex, a commercial enterprise located within Boulder Flats on the WRIR along US HWY 287. The project is complete and will be closed out this winter.

44. PROJECT: Eden Valley Farson Lateral Rehabilitation

LEVEL: III
SPONSOR: Eden Valley Irrigation and Drainage District
LOCATION: Sweetwater County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	141	2013	II	$ 233,500	2018*
Level III	23	2015	II	$ 2,366,000	2020*†
Level III	55	2016	II	$ 0	2020**

*50% grant

† The 2013 appropriation of $233,500 was increased by $2,132,500 to $2,366,000 and the reversion date extended from July 1, 2018 to July 1, 2020.

**Added "construction engineering and construction" language.

PROJECT INFORMATION:

This project consists of the lining of approximately 6,600 feet of the unlined Farson Canal and replacing approximately 14,000 feet of existing earth laterals with pipe. Piping improvements will reduce evaporative and seepage losses, reduce operation and maintenance (O&M) costs, conserve water resources and reduce approximately 1,685 tons of salt per year, which the Farson Lateral contributes to the Colorado River Basin**.**

In 2013, the Legislature authorized an appropriation of $233,500, which is 50% of the engineering design, permitting, NEPA analysis and cultural resources evaluation. The proposed financing plan provides a 50% grant with the Sponsor seeking a Colorado River Basin Salinity Control Program (SCP) grant for the remaining 50% of project costs. Total construction costs of the project are estimated at $4,732,000. In 2013, the SCP retracted project funding due to federal budget sequestration. In 2015, the Legislature authorized an appropriation of $2,366,000 contingent upon approval of a supplemental budget request, which was approved.

In 2016, the Sponsor secured its matching fund money through the Wyoming Basin States Salinity program. The Sponsor has selected an Engineer and the design process has been initiated. The project connects to a construction project that is being designed by Reclamation. Reclamation's project was delayed due to a delay in procurement services. In 2018, EVIDD received project bids in excess of available project funding. EVIDD has submitted a request to WWDC for additional project funding.

45. PROJECT: Eden Valley Rehabilitation 2009

LEVEL: III
SPONSOR: Eden Valley Irrigation and Drainage District
LOCATION: Sweetwater County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	38	2009	II	$ 6,580,000	2014*
Level III	141	2013	II	$ 1,327,000	2018**

*50% grant

**55.07% grant; the 2009 appropriation of $6,580,000 was increased to $7,907,000 and the reversion date extended to 2018.

PROJECT INFORMATION:

In 2009, the Eden Valley Irrigation and Drainage District (EVIDD) secured funding with WWDC and the Bureau of Reclamation Salinity Control Program (SCP) to convert three laterals within their district from

open ditch to pipe (Phase I). This first phase of an overall project intended to reduce the salt load to the Colorado River Basin by approximately 6,600 tons annually. Lateral seepage, estimated to be as high as 50%, was contributing to the salt loading issue. Phase I construction commenced in fall 2007, and was completed in spring 2010.

During 2009 and 2010, Phase II was implemented utilizing an American Recovery and Reinvestment Act (Federal Stimulus) grant to replace open ditch lateral M-1 with HDPE pipe.

During 2008, EVIDD secured additional funding (Phase III) from the SCP in the amount of $6,580,000 to replace four existing earth lined laterals with approximately 95,000 lineal feet of pipe. Phase III funding is a SCP grant (50%) matched by WWDC funding. Phase III includes installation of new turnout structures, lateral diversion structures with trash cleaning capabilities, and a Supervisory Control and Data Acquisition (SCADA) system to control and monitor flows at the diversion headgates. A consulting engineer was hired in 2009 to perform design, bidding, and construction management of Phase III lateral work with construction that followed during irrigation off-seasons in 2009, 2010, 2011, and 2012. A construction contract for Lateral E-13 was awarded in November 2009 with work completed in November 2010. A contract for Laterals E-7 and E-8 was awarded in December 2010 and was completed in November 2011. The upper half of the final lateral (West Side Lateral) was bid and contracted in late 2011 with a completion date of early spring 2012. In 2011, HDPE and PVC pipe resins costs increased by 25%. The construction of the lower half of the West Side Lateral was not feasible due to WWDC budget constraints. Pipe leakage of the upper West Side Lateral resulted in temporary repairs, which sufficed to provide irrigation flows through the summer of 2012. In October 2012, final repairs, in addition to hydrostatic testing, were completed on the upper West Side Lateral. Repairs on portions of the upper West Side Lateral were completed in fall 2013. Phase III will be considered complete when the new pipeline delivers water for a complete irrigation season without leakage.

During 2012, the WWDC recommended an additional appropriation of $1,327,000 for the Eden Valley Rehabilitation 2009 Project. The proposed financing plan provided a 55.07% grant with the sponsor responsible for the remainder of project costs. A grant for the remaining 44.93% was secured with the SCP. The project was substantially completed in 2014. The project has been completed, closed out and remaining funds were reverted in 2018.

46. **PROJECT:** **Ethete Water Supply**

LEVEL: III
SPONSOR: Northern Arapaho Tribal Business Council
LOCATION: Fremont County, Wind River Indian Reservation
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	I	$ 700,000	2006
Level II	99	2006	I	$ 605,000	2009
Level III	121	2007	I	$ 3,200,000	2012*
Level II	33	2008	I	$ 685,000	2010
Level III	68	2010	I	$ 2,000,000	2015**
Level III	23	2015	I	$ 0	2018***
Level III	121	2018	I	$ 0	2021†

*2008 reverted back to WWDC
**50% grant, 50% sponsor
***Time extension only
† Time extension only

PROJECT INFORMATION:
The Ethete area water system (operated by Northern Arapaho Utilities) relies solely upon highly variable (in both quantity and quality) surface water diverted from the Little Wind River. Low flows, due to irrigation demands in the summer and natural low flows in the winter often leave Arapaho Utilities unable to divert enough water to meet domestic water needs. High turbidities during runoff and after the South Fork II fire (June 2002) have also caused significant operational problems, which reinforces the need for a reliable ground water source.

In 2004, WWDC funding was acquired to investigate the feasibility of developing available groundwater resources, drill test wells at locations identified in the feasibility study, and develop a master plan for Northern Arapaho Utilities to prioritize needed infrastructure improvements. Additional funding was requested in 2006 to drill a Madison formation well.

In 2007, the WWDC recommended the project be continued in the New Development Program at Level III with an appropriation of $3,200,000. The legislature approved the appropriation at 67% grant and 33% loan. The proposed Level III project included construction, pipeline, materials, and appurtenances necessary for incorporation of the Level II test well into the existing NAU water supply system that serves the community of Ethete and the surrounding area. Upon completion of the Madison well on Sage Creek Anticline in March 2007, it was determined that flows and water quality would not meet the minimum requirements for the sponsor's needs and the well was subsequently plugged and abandoned. In 2008, Level III funds were reverted and the WWDC and NAU began consideration of other options.

Secondary source supply exploration was deemed feasible from two additional aquifer systems. The Wind River Formation is the source supply to the City of Riverton, Town of Shoshoni, and the community of Arapahoe, and therefore held promise in its proximity to Ethete. The other alternative was the broad alluvial sand/gravel sequence identified in the valley of the Little Wind River. Test drilling of the Wind River Formation was completed in late 2008 and test drilling of Little Wind River alluvial deposits occurred in summer of 2009. Adverse water quality conditions (high radionuclides – Ra 226 + Ra 228) precluded development of the Wind River Formation aquifer, but adequate water quantity and quality conditions were discovered in the alluvial well test wells just north of the Fremont County District 21 Elementary/Middle School in the valley of the Little Wind River.

In 2010, the legislature approved Level III funding for the development of an alluvial well field and transmission pipeline to the existing Ethete water treatment plant.

Late in 2013, the Northern Arapaho was able to provide a positive audit to Rural Development (USDA) in order to obtain the remaining funds for the project.

The sponsor has completed the design and the construction of several smaller portions of the project. The high service pumps at the water treatment plant were completed late 2017. The Ethete Leak Detection investigation and a report has been completed and presented to the Sponsor in 2017. In late 2018, the sponsor will complete the water tank rehabilitation. The sponsor has also completed in 2017 a non-WWDC project to provide water meters and backflow preventers.

The design for the well field and drilling has been completed and as soon as easement issues are resolved, the well field can be constructed. The well field transmission cannot be designed until the well field is constructed.

47. **PROJECT:** **Fontenelle Dam & Outworks Infrastructure Completion**
LEVEL: II
SPONSOR: State of Wyoming
LOCATION: Lincoln and Sweetwater Counties
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	38	2016	I	$ 200,000	2019
Level II	94	2018	I	$ 750,000	2021

PROJECT INFORMATION:

Fontenelle Dam, located on the Green River in Southwest Wyoming, is a 139 foot tall dam with a total capacity of 345,360 acre-feet. Originally constructed as part of the U.S. Bureau of Reclamation's Seedskadee Project, the facility regulates Green River flows and stores water that is currently used for power generation, fish and wildlife, and recreation. Irrigation, municipal, and industrial are also permitted uses, but are not currently exercised.

From Leading the Charge, Wyoming Water Strategy, Governor Mathew H. Mead, 2015, Water Development Initiatives:

Capacity to store and beneficially use water is a protection to the state, municipalities, business, and individuals. It makes use in the future possible. An accessible pool of stored water provides assurance that commitments can be met to deliver water to other states as agreed to by compact.

Fontenelle Dam has 346,000 acre-feet of storage. Two factors limit the utility of the structure to realize its capacity to maximize beneficial use: lack of armoring to protect the lower interior dam face and lack of requisite infrastructure to utilize stored water. Completion of the dam and updating of infrastructure could potentially allow from 100,000 to 200,000 acre-feet of usable storage to be accessed on the Upper Green, without noticeable change to the environmental footprint of the development. This initiative will state the planning, permitting, and collaborative agreements necessary to realize the full potential of this asset.

This project, which was approved by the Legislature during the 2016 Budget Session, is analyzing the feasibility of making the 80,796 acre-feet of currently inactive capacity usable. The State of Wyoming is also currently considering options for leasing the remainder of the active capacity (139,000 acre-feet) that is available for contract from the U.S. Bureau of Reclamation (Reclamation). A separate effort will investigate this contracting opportunity. In order to address the practicality of making the inactive pool available for use, the project is investigating the feasibility associated with adding riprap, or other armoring, to the dam face from the current elevation (approximately 6,460') to the top of the dead pool (approximately 6,408'). Furthermore, the project is identifying potential environmental impacts that would result from project implementation. The project is considering construction sequencing, potential power generation impacts, functionality of the existing outlet works, permitting, and interagency coordination.

While the Water Strategy does not define a particular future use for the additional active storage, there may be a variety of potential uses that could benefit the State of Wyoming. One option is to utilize the storage to mitigate a Colorado River curtailment scenario and, perhaps, offset a curtailment of consumptive use in Wyoming. Another potential future use of the water would be for the water to be used as "system water" to avoid a potential curtailment order on the Colorado River system.

A key component of the project is interagency coordination. Representatives from Reclamation, Wyoming State Engineer's Office, U.S. Fish and Wildlife Service, Wyoming Game and Fish Department, U.S. Bureau of Land Management, and Trout Unlimited have been included in meetings to facilitate project development and ensure collaboration. This project is underway with a final report expected by the end of 2018.

During the 2018 Budget Session, the State requested and received an additional $750,000 for Risk Verification, NEPA, and final design. This effort is not currently underway, with negotiations and

discussion taking place with Reclamation to finalize the details of the effort. Once finalized, Reclamation could complete the work as a Task Order under the existing Technical Service Agreement 15-WC-40-559.

48. **PROJECT:** **Gillette Madison Pipeline**
LEVEL: III
SPONSOR**:** City of Gillette
LOCATION: Campbell County
PROGRAM: Special Legislation

EXISTING AND PRIOR LEGISLATION:

Session	Chapter	Grant (67%) Appropriation	Account	Loan (33%) Appropriation	Account	Total
2009	103	$ 11,222,500	Budget Reserve	$ 5,527,500	Permanent Mineral Trust	$ 16,750,000
2010	115	$ 16,415,000	WDA III	$ 8,085,000	Permanent Mineral Trust	$ 24,500,000
2011	61	$ 6,960,430	General Fund			
	61	$ 25,402,070	AML	$ 15,939,739	Permanent Mineral Trust	$ 48,302,239
2012	26	$ 6,975,000	General Fund			
	27	$ 23,025,000	AML	$ 14,776,119	Permanent Mineral Trust	$ 44,776,119
2013	156	$ 30,000,000	AML	$ 0*		$ 30,000,000
2014	26	$ 13,385,995	AML	$ 0*		
	26	$ 12,406,005	SIPA	$ 0*		$ 25,792,000
2015	142	$ 0		$ 0		$ 0**
TOTAL		$145,792,000		$ 44,328,358		$ 190,120,358

*33% funding from the Campbell County Capital Facilities Tax
**Time extension only (2017)
† Time extension from July 1, 2017 to July 1, 2020

PROJECT INFORMATION:
This project will provide water regionally to the City of Gillette and to approximately forty-three districts in Campbell County. Water for the regional system is supplied from five Madison wells located north of Moorcroft, WY. The major components of the Gillette Madison Water Supply include of the following:

1. Approximately 50 miles of transmission pipeline ranging in size from 36-inch to 42-inch diameter
2. Power transmission system upgrades and booster pump station near Rozet
3. New electrical system, disinfection facility and storage tanks at the Pine Ridge well field site
4. Transmission system that will serve the design year 2040 population of 57,562 for the Gillette Regional Area and provide an additional 16,000-gpm (23 MGD) to the regional water system.
5. New Madison Formation Well Field with five (5) initial new wells capable of producing 1,400-gpm each and ultimately, 12 new wells to be developed over the next thirty years as water demands increase.

6. Treated water storage tanks in Campbell County and transmission pipeline stub-outs to accommodate future regional extensions to serve existing and future demands for over 40 recognized water districts and subdivisions not currently receiving city water.

The City of Gillette completed a Level I study that included conceptual pipeline designs and budget-level cost estimates to connect regional customers not currently served by the City of Gillette. The Level I study estimated extension design and construction costs at $60 million to extend water service to regional customers.

The City of Gillette and Campbell County Elected Officials executed a Joint Powers Agreement (JPA) and held a special election on May 3, 2011 to secure a capital facilities tax for the project. The residents of Campbell County passed the capital facilities tax by a vote of 3,554 to 721. In October 2014, the JPA Water Rates Panel established wholesale water rates for the regional system.

The City of Gillette has completed construction of the two Madison formation test wells. Pipeline Segment 3, approximately 5 miles of 36-inch pipe, and Pipeline Segment 4a, approximately 10 miles of 42-inch pipe, was completed in July 2014. Construction of Contract - 4b, c, d & f, approximately 22 miles of 42-inch pipeline between the Moorcroft and the Donkey Creek Pump Station, is complete. Additionally, the Pine Ridge Disinfection Facility, Donkey Creek Pump Station, and Pine Ridge storage tank are complete. Contract 4e – approximately 11 miles of 42-inch pipeline between Moorcroft and the Pine Ridge Disinfection Facility and the Madison Formation production wells is substantially complete.

Projects currently under construction include Contract 4a – three new Madison production wells, Contract 4e - Well field electrical distribution system, Contract 2b – Well field piping, pumps and equipment and Contact 8 – 18-inch blending pipeline between Pump Station No. 1 and WYODAK.

The City is waiting for Discharge Permits from the Wyoming DEQ. Discharge permits are required for the city to flush water from the well field transmission pipelines used for pressure testing and disinfecting. Additionally, the city is awaiting a permit to pump test wells M13, M14 and M15.

The City of Gillette anticipates completion of all ongoing construction projects in 2019.

49. **PROJECT:** **Gillette Regional Extensions**

LEVEL: III
SPONSOR: City of Gillette
LOCATION: Campbell County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	88	2008	I	$ 350,000	2011
Level II	57	2012	I	$ 500,000	2015
Level III	14	2012	I	$ 703,500	2017*
Level III	141	2013	I	$ 6,197,500	2018**
Level III	100	2014	I	$ 6,432,000	2018†

*67% grant only.

**The 2012 appropriation of $703,500 was increased by $5,494,000 to $6,197,500 and the reversion date was changed from July 1, 2017 to July 1, 2018.

† The 2014 total appropriation of $6,197,500 was increased by $234,500 to $6,432,000.

PROJECT INFORMATION:

The Level I Gillette Regional Master Plan was completed in 2010. The plan identified three (3) necessary components of the regional water project.

1. The Gillette Madison Pipeline Project serves as the mainframe water supply infrastructure that provides water to the service area, which includes the City of Gillette and surrounding rural water districts.
2. The Gillette Regional Extensions provide the pipeline extensions from the mainframe water supply system needed to serve the rural water districts.
3. The Gillette Regional Connections provide the infrastructure needed for the direct connections of the rural water districts to the extensions.

The 2010 Level I study estimated the extensions projects at approximately $60M. The 2012 Level II appropriation evaluated Antelope Valley I&SD, Bennor Estates I&SD, Freedom Hills I&SD and the South Fork Estates I&SD water systems.

The City of Gillette, in consultation with Campbell County, prioritized the extensions based on the water supply needs of the rural districts and the interest of those districts to connect to the regional system. The highest priority, Priority I, projects identified in the Gillette Regional Master Plan included constructing three (3) extensions to serve eight (8) rural water districts including Antelope Valley business Park Improvement & Service District, Antelope Valley Improvement & Service District, Pinnacle Heights Improvement & Service District, Bennor Estates Improvement & Service District, Overbrook Improvement & Service District, Rafter D Homeowner's Association, Spring Hill Ranch Improvement & Service District and Cook Road Water District.

In 2012, the Legislature appropriated funding for the Gillette Regional Extensions project. The $703,500 appropriation included a budget for the project design, permitting and land acquisition.

In 2013, the Legislature appropriated an additional $5,494,000 to construct the project.

In 2013, the City of Gillette requested additional Level III funding to design and construct the Force Road Joint Powers Board connection to the Regional System. In 2014, the Legislature approved the request and appropriated $234,500 to the Gillette Regional Extensions project to facilitate construction of the Force Road connection to the regional water system. Completion of the Gillette Regional Extension project occurred in June 2018.

50. **PROJECT:** **Gillette Regional Extensions – Phase II**
LEVEL: III
SPONSOR: City of Gillette
LOCATION: Campbell County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	88	2008	I	$ 350,000	2011
Level III	55	2016	I	$ 562,800	2021*
Level III	75	2017	I	$ 2,237,800	2021†

*67% grant only.
†67% grant only. The 2016 appropriation of $562,800 was increased by $1,675,000 to $2,237,800

PROJECT INFORMATION:
The Level I Gillette Regional Master Plan was completed in 2010. The master plan identified three (3) necessary components of the regional water project.

1. The Gillette Madison Pipeline Project serves as the mainframe water supply infrastructure that provides water to the service area, which includes the City of Gillette and surrounding rural water districts.

2. The Gillette Regional Extensions provide the pipeline extensions from the mainframe water supply system needed to serve the rural water districts.
3. The Gillette Regional Connections provide the infrastructure needed for the direct connections of the rural water districts to the extensions.

The 2010 Level I study estimated the total cost of the extensions projects at approximately $60M.

In 2016, the Legislature appropriated $562,800 for the Gillette Regional Extensions – Phase II project. This project represents the second Gillette regional extensions project funded by the Legislature. The 2016 appropriation is for the project design, permitting and land acquisition to connect the Eight Mile Improvement & Service District, Stone Gates Estates and Rocky Road to the regional water supply system.

In 2017, the Legislature appropriated an additional $1,675,000 to the project for construction.

This Gillette Regional Extension Phase II project is currently in the design phase, the City of Gillette anticipates bidding the project in 2018.

51. PROJECT: Gillette Regional Extensions 2017

LEVEL: III
SPONSOR: City of Gillette
LOCATION: Campbell County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	88	2008	I	$ 350,000	2011
Level II	57	2012	I	$ 500,000	2015
Level III	75	2017	I	$ 361,800	2022*
Level III	121	2018	I	$ 2,391,900	2022†

*67% grant only.
† 67% grant only. The 2017 appropriation of $361,800 was increased by $2,030,100 to $2,391,900.

PROJECT INFORMATION:
The Level I Gillette Regional Master Plan was completed in 2010. The plan identified three (3) necessary components of the regional water project.

1. The Gillette Madison Pipeline Project serves as the mainframe water supply infrastructure that provides water to the service area, which includes the City of Gillette and surrounding rural water districts.
2. The Gillette Regional Extensions provide the pipeline extensions from the mainframe water supply system needed to serve the rural water districts.
3. The Gillette Regional Connections provide the infrastructure needed for the direct connections of the rural water districts to the extensions.

The 2008 Level I study estimated the total cost of the extensions projects at approximately $60M. The 2012 Level II appropriation evaluated Antelope Valley I&SD, Bennor Estates I&SD, Freedom Hills I&SD and the South Fork Estates I&SD water systems.

In 2017, the Legislature appropriated $361,800 for the Gillette Regional Extension 2017 project. This project represents the third Gillette regional extensions project funded by the Legislature. The 2017 appropriation is for project design, permitting and land acquisition for the Meadow Springs Improvement

and Service District, American Road Water and Sewer District, Freedom Hills Improvement and Service District and the Crestview Improvement and Service District.

In 2018, the Legislature appropriated an additional $2,030,100 to the project for construction. The City of Gillette has not signed their WWDC Gillette Regional Extensions 2017 Project Agreement Amendment, citing concerns over language in the amendment that the city will supply water to 200 taps in Crook County and to livestock.

52. PROJECT: Gillette Regional Extensions Phase IV - 2018

LEVEL: III
SPONSOR: City of Gillette
LOCATION: Campbell County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	88	2008	I	$ 350,000	2011
Level II	38	2016	II	$ 65,000	2019*
Level II	38	2016	II	$ 130,000	2019**
Level III	121	2018	III	$ 1,809,000	2023***

*Bucksin Extension Master Plan / Gillette Regional
** Fox Ridge Extension Master Plan / Gillette Regional
***67% grant

PROJECT INFORMATION:
The Level I Gillette Regional Master Plan was completed in 2010. The plan identified three (3) necessary components of the regional water project.

1. The Gillette Madison Pipeline Project serves as the mainframe water supply infrastructure that provides water to the service area, which includes the City of Gillette and surrounding rural water districts.
2. The Gillette Regional Extensions provide the pipeline extensions from the mainframe water supply system needed to serve the rural water districts.
3. The Gillette Regional Connections provide the infrastructure needed for the direct connections of the rural water districts to the extensions.

The Level I study estimated the total cost of the extensions projects at approximately $60M. The 2016 Level II studies evaluated the Buckskin Improvement and Service District and Fox Ridge Improvement and Service District's water systems. Recommendations from the Level II studies included connecting to the Gillette Regional Water Supply system.

In 2018, the Legislature appropriated $1,809,000 for the Gillette Regional Extensions Phase IV – 2018 project. This project represents the fourth Gillette regional extensions project funded by the Legislature. The 2018 appropriation is for project design, permitting, land acquisition and construction for the Fox Ridge Improvement and Service District, Buckskin Improvement and Service District and Rozette Ranchettes Improvement and Service District.

The City of Gillette has not signed their WWDC Gillette Regional Extensions Phase IV – 2018 Project Agreement Amendment, citing concerns over language in the amendment that the city will supply water to 200 taps in Crook County and to livestock.

53. PROJECT: Glendo Reservoir Full Utilization Project

LEVEL: II
SPONSOR: State of Wyoming
LOCATION: Platte County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	38	2016	I	$ 300,000	2019
Level II	94	2018	I	$ 750,000	2021

PROJECT INFORMATION:

Glendo Dam and Reservoir is located on the North Platte River in eastern Wyoming and is a 190 foot tall dam with a total of 1,092,290 acre-feet of storage capacity, owned by the U.S. Department of the Interior Bureau of Reclamation (Reclamation). The original project was authorized as part of the Flood Control Act of December 22, 1944 Public Law 534. However, due to controversy over the project details, construction did not begin until 1954 and was completed in 1958. Approximately half of the available storage is reserved for flood control and surcharge; only being used if there is a minor or major flood event, respectively. Currently, any water stored in the flood control pool is released downstream as soon as the flood risk subsides.

From Leading the Charge, Wyoming Water Strategy, Governor Mathew H. Mead, 2015, Water Development Initiatives:

> *Glendo Reservoir has a total capacity of 800,000 acre-feet. Capacity is divided between a 525,000 acre-foot "active operations" pool managed by the Bureau of Reclamation, and a 275,000 acre-foot "flood control" pool managed by the Army Corps of Engineers (Corps). The flood control capacity is only used to store high inflow events that the Corps believes might cause a flood in Wyoming or Nebraska. The Corps allows the flood control space to be filled only until the flood risk subsides, then evacuates the space as quickly as possible. In 57 years of operation, the spillway on Glendo Dam has never been used.*
>
> *This initiative will seek federal authorization to re-purpose a portion of the flood control space and use that water for operational purposes, thereby extending and more efficiently using water during good runoff years. The re-purposed space would be the first water to be used and the full 275,000 acre-feet of flood control space would still be available by October 1st of every year.*

In 2016, an appropriation for $300,000 was granted by the Legislature to complete a Level II Feasibility study in response to the Governor's water strategy initiative. The study has coordinated with Reclamation, Army Corps of Engineers (Corps), Nebraska Department of Natural Resources, Wyoming State Engineer's Office (SEO), Wyoming State Parks, Historic Sites and Trails (SPHS), U.S. Fish and Wildlife Service (USFWS), and Wyoming Game and Fish Department (WGFD) on the details of the water strategy and is designed to develop a proposed level of flood retention and anticipated operational modifications to the Glendo Water Control Manual.

Field work and meetings with SPHS were conducted in the fall of 2017 to determine incremental impacts to the State Park's operation and infrastructure. The general public has been made aware of the project and initial feedback was received through public meetings. A reservoir modeling strategy has been developed for the project to determine limiting factors and acceptable levels of risk for managing agencies. Meetings have been held with the agencies listed above, as well as extensive coordination with Reclamation and the Corps, to guide the modeling strategy and ensure proper understanding of existing operations. A screening level environmental analysis evaluated project impacts, benefits, and any permits that would be required. Multiple flood pool depth scenarios were analyzed in the tasks above to develop

a proposed depth that would minimize impacts to State Parks facilities and operations, and optimize the benefits that could be realized from re-timing the release of natural flood flows in the North Platte River system. This resulted in a flood pool depth of six feet as the recommended scenario in the draft report which was delivered to the Water Development Office in August of 2018. The draft report also presents a benefit-cost analysis for the proposed scenario and a summary of next steps to implement the proposed scenario. A public meeting is planned for late November 2018 to present the results of the study. A final report is expected by the end of 2018.

The Corps has stated they will need to conduct their own scientific analysis of the proposed changes from the WWDC Level II study and complete NEPA requirements. In 2018, $750,000 was appropriated to conduct a Water Control Plan Modification Study (WCPMS) to address the Corps needs. The study would require a Memorandum of Agreement between the Corps and the WWDC. The Corps recently expressed uncertainty as to their authority to conduct a WCPMS for Glendo due to their lack of authority to change operations at Glendo for any other purpose than flood control and navigation. Considering the intent of the project is to re-time flood pool releases, and not re-purpose flood control space, as was originally stated in the Wyoming Water Strategy, there is optimism that the Corps does have the authority. Once the WWDC Level II report is finalized, the WWDO will continue to coordinate with the Federal agencies on next steps for the project.

54. **PROJECT:** **Glenrock Transmission Pipeline 2017**
LEVEL: III
SPONSOR: Town of Glenrock
LOCATION: Converse
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$ 150,000	2010
Level III	100	2014	I	$ 381,900	2019*
Level III	75	2017	I	$ 254,600	2022*

*67% Grant.

PROJECT INFORMATION:
The Town is supplied with water from four wells ranging in depth from 250 to 1,200 feet. The primary water supply aquifer is the Casper/Madison formations. The approximate yield of the Town's four wells is 3,650-gpm. The Town has three steel storage tanks in the following sizes: 300,000, 750,000 and 1,000,000 gallons. The water transmission pipeline material varies from PVC, DIP, and CIP and ranges in age from newly replaced to ~ 60 years old.

In 2009, the Town of Glenrock received a Level I Master Plan Study. The Master Plan identified several future projects for the Town of Glenrock including the Town's presently identified project.

The identified Level III project is for the design and construction of a 12-inch PVC transmission pipeline. This pipeline will replace an aging/failing waterline infrastructure. The Town has taken a systematic approach to annually replace and improve the Town's aging water and sewer infrastructure. This T15 transmission pipeline project was identified in the Glenrock Master Plan Level I study. Additionally, the Town's upcoming water and sewer line project coincides with this identified transmission line. This project will replace a portion of the T15 line. The phased approach is due to the Town's systematic infrastructure replacement and the available funds to cover the ineligible items (storm sewer, sanitary sewer, curb and gutter, etc.). The Town has the necessary funds available for the eligible and non-eligible items.

In 2014, the Town received a Level III New Development project with an appropriation of $381,900 (67% grant). The Town secured the services of the Engineer and initiated the design and easement documentation/acquisition process for the project, and in 2015, the project was successfully bid and awarded. The project construction took place during the summer of 2015 and progressed in a timely manner. The project has reached final completion and was finalized in 2016.

In the fall of 2016, the Town requested additional funding to extend the transmission main that was identified in the Level I Master Plan and constructed in 2014. The purpose of the extension is to provide a reliable water source to the northern portion of the Town.

The Town received 2017 appropriation in the amount of $254,600 to continue the construction of the T15 transmission pipeline identified in the Glenrock Master Plan Level I study. The design was completed prior to appropriation and paid for using Town funds. Construction of the project began in summer 2017 and was completed in 2018.

The Wyoming Water Development Office received a closeout letter from the Town in August 2018.

55. PROJECT: Glenrock Transmission Pipeline 2018

LEVEL: III
SPONSOR: Town of Glenrock
LOCATION: Converse
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$ 150,000	2010
Level III	100	2014	I	$ 381,900	2019*
Level III	75	2017	I	$ 254,600	2022*
Level III	121	2018	I	$ 525,950	2023*

*67% grant.

PROJECT INFORMATION:

The Town is supplied with water from four wells ranging in depth from 250 to 1,200 feet. The primary water supply aquifer is the Casper/Madison formations. The approximate yield of the Town's four wells is 3,650-gpm. The Town has three steel storage tanks in the following sizes: 300,000, 750,000 and 1,000,000 gallons. The water transmission pipeline material varies from PVC, DIP, and CIP and ranges in age from newly replaced to ~ 60 years old.

In 2009, the Town of Glenrock received a Level I Master Plan Study. The Master Plan identified several future projects for the Town of Glenrock including the Town's presently identified project.

The identified Level III project is for the design and construction of a 12-inch PVC transmission pipeline. This pipeline will replace an aging/failing waterline infrastructure. The Town has taken a systematic approach to annually replace and improve the Town's aging water and sewer infrastructure. This T15 transmission pipeline project was identified in the Glenrock Master Plan Level I study. Additionally, the Town's upcoming water and sewer line project coincides with this identified transmission line. This project will replace a portion of the T15 line. The phased approach is due to the Town's systematic infrastructure replacement and the available funds to cover the ineligible items (storm sewer, sanitary sewer, curb and gutter, etc.). The Town has the necessary funds available for the eligible and non-eligible items.

In 2014, the Town received a Level III New Development project with an appropriation of $381,900 (67% grant). The Town secured the services of the Engineer and initiated the design and easement

documentation/acquisition process for the project, and in 2015, the project was successfully bid and awarded. The project construction took place during the summer of 2015 and progressed in a timely manner. The project has reached final completion and was finalized in 2016.

In the fall of 2016, the Town requested additional funding to extend the transmission main that was identified in the Level I Master Plan and constructed in 2014. The purpose of the extension is to provide a reliable water source to the northern portion of the Town.

The Town received 2017 appropriation for $254,600 to continue the construction of the T15 transmission pipeline identified in the Glenrock Master Plan Level I study. The design was completed prior to appropriation and construction began in the summer 2017.

The Glenrock Transmission Pipeline 2018 project is expected to begin design towards the end of 2018 or spring of 2019.

56. **PROJECT:** **Goose Creek Watershed Study**

LEVEL: I
SPONSOR: Sheridan County Conservation District
LOCATION: Sheridan and Johnson Counties
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	38	2016	I	$ 375,000	2019

PROJECT INFORMATION:

The Sheridan County Conservation District requested a watershed study to evaluate current watershed function, current condition of wetlands and riparian areas within the drainage, and to develop a geomorphic classification of rivers and streams. This information will provide baseline data from which the District can pursue implementation of management practices that address the natural resource issues within the drainage. Surface water storage including enlargement of existing water storage facilities, irrigation diversion/conveyance systems, upland livestock/wildlife water management and rehabilitation plans are also of interest.

The Goose Creek watershed, located primarily in Sheridan County, covers approximately 265,766 acres. Land ownership in the watershed is private (~54%), federal (~44%) and state (~3.5%). The Goose Creek Watershed includes the subwatersheds of Goose Creek, Little Goose Creek and Big Goose Creek. There are approximately 380 miles of perennial streams which include the primary tributaries of Soldier Creek, Beaver Creek, Park Creek, Rapid Creek, McCormick Creek, Kruse Creek, Jackson Creek and Sackett Creek. Bighorn Reservoir, Park Reservoir, Cross Creek Reservoir, Dome Lake and Sawmill Lakes are storage facilities located in the watershed as well as numerous smaller surface water impoundments used for irrigation and stock water.

This study developed an inventory and description of the watershed to include basic physical science information such as geology, hydrology, soils, climate, plant communities, wildlife habitat, and geomorphic characterization of the stream systems. This information was incorporated into development, rehabilitation, and management plans complete with cost estimates for potential future project activities.

During the course of the project, conservation district board members, landowners, stakeholders, and representatives from state, local and federal agencies were involved in 3 public meetings and multiple site visits. Key issues in the watershed were identified and discussed. Site visits were conducted to evaluate the project and propose development concepts.

As a result, an evaluation of varied systems resulted in 89 individual watershed improvement projects. These projects include:

- 70 irrigation system infrastructure rehabilitation and improvements projects totaling over $5 million
- 5 surface water storage projects
- 9 upland water development projects totaling over $275,000
- 5 fisheries mitigation projects totaling over $1 million

A final draft report presentation was held at the Sheridan County Fulmer Public Library in Sheridan on December 18, 2017.

57. PROJECT: Goshen Irrigation District-Guernsey Spillway Rehabilitation

LEVEL: III
SPONSOR: Goshen Irrigation District
LOCATION: Goshen County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	23	2015	II	$ 449,570	2020*

*67% grant

PROJECT INFORMATION:
The Bureau of Reclamation has determined that the Guernsey Dam Spillway Gate is in need of rehabilitation. The Bureau has commissioned a project and has requested that irrigation districts with water interests in the reservoir pay for a share of the rehabilitation. The Bureau is managing the design and construction processes and is funding 50% of the rehabilitation costs. The remaining costs are to be pro-rated amongst the entities who own water shares within the reservoir.

WWDC recommended a 67% grant for GID's portion of the eligible costs for a total of $449,570. Those funds were appropriated in 2015. The 33% matching funds are from a Bureau of Reclamation loan. The District will make one payment to the Bureau of Reclamation at the end of the project. The project is complete; however, the Bureau of Reclamation has not submitted closeout documentation or the final pay request.

58. PROJECT: Goshen Irrigation District Rehabilitation 2013

LEVEL: III
SPONSOR: Goshen Irrigation District
LOCATION: Goshen County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	$ 225,000	2008
Level III	38	2009	II	$ 1,200,000	2014*
Level III	63	2011	II	$ 1,100,000	2016*
Level III	141	2013	II	$ 1,400,000	2018*

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:

Goshen Irrigation District (GID) was formed in 1936 and serves 52,484 acres with a conveyance system from the Whalen Diversion Dam above Ft. Laramie to the Nebraska Stateline. Their water rights include diversions from the North Platte River and storage water from Pathfinder Dam. The district has identified major problems in their district and, with the help of the WWDC, has upgraded portions of their system.

The Level I master plan, funded in 2006 and completed in 2008, identified and prioritized five major areas of rehabilitation need: pipelines, automation, liners, structures and a re-regulation reservoir. The total cost of these items is $89,364,443 in 2008 dollars.

In 2009, the District received a materials only grant of $1,200,000 to complete the Springer Main, Table Mountain and Horse Creek lateral ditch to pipeline rehabilitation. Construction of the Springer Main was completed in 2010. The Table Mountain Lateral construction was completed in-early 2011 and the Horse Creek lateral was completed in-late 2011. These projects are working as intended and the project appropriation has been closed out.

The District identified the remaining portion of the Table Mountain Lateral and Check Structure 45.1 as its next rehabilitation project. In 2011, the District received Level III funding as a materials only grant for $1,100,000 for the remaining portion of the Table Mountain Lateral and Check Structure 45.1. Construction for these projects took place during 2012 and 2013. The projects were completed in 2013. These projects are working as intended and the project appropriation has been closed out.

In 2013, the District received $1,400,000 in grant funds to finance 100% of invoiced materials for three project components. These projects include: Main Canal Lateral 45.1, East Springer Main Lateral 7.0, and Tunnel No. 1 outlet floor. Both lateral projects are open ditches that will be replaced with buried pipelines. The reinforced concrete floor of the outlet of Tunnel No. 1 has eroded over time and is breaking up in places. The floor of Tunnel No. 1 were removed and replaced with new reinforced concrete.

During 2013, the District was able to design, acquire the necessary easements and successfully bid the Main Canal Lateral 45.1 and Tunnel No. 1. Construction on Main Canal Lateral 45.1 has progressed accordingly and was completed in 2014. Construction for Tunnel No. 1 began in-early 2014 and was completed before the beginning of the 2014 irrigation season.

During 2014, the District determined it needed to address the 29.4 asbestos cement pipeline due to severe deterioration. The pipeline deterioration has impacted water delivery and experiences severe seepage loss. The District also needed to address debris build up on Lateral 83.6. The District was able to design, and successfully bid and award the 29.4 Pipeline replacement and the 83.6 Lateral Debris screen. The 83.6 Lateral Debris screen will assist in maintenance for the District, reduce lateral blockages and improve water flows on the Table Mountain Lateral. Construction for these projects began in-late 2014 and was completed before the 2015 irrigation season.

During 2015, the District determined it needed to replace check structure 49.5 due to its failing foundation and headwall. The project was successfully designed, bid and awarded. The project was constructed during 2015-2016. A small portion of concrete work will be completed when the 2016 irrigation season is concluded.

In 2016, the District pursued lateral 35.4 pipeline replacement due to excessive pipeline leaks. The leaks impact local farmers and leave a large portion of land unable to be farmed. The Project has been bid, awarded and construction has been completed.

The project has been completed, closed out and remaining funds were reverted in 2018.

59. PROJECT: Goshen Irrigation District Rehabilitation 2017

LEVEL: III
SPONSOR: Goshen Irrigation District
LOCATION: Goshen County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	$ 225,000	2008
Level III	38	2009	II	$ 1,200,000	2014*
Level III	63	2011	II	$ 1,100,000	2016*
Level III	141	2013	II	1,400,000	2018*
Level III	75	2017	II	$ 214,000	2022*

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
Goshen Irrigation District (GID) was formed in 1936 and serves 52,484 acres with a conveyance system from the Whalen Diversion Dam above Ft. Laramie to the Nebraska Stateline. Their water rights include diversions from the North Platte River and storage water from Pathfinder Dam. The district has identified major problems in their district and, with the help of the WWDC, has upgraded portions of their system.

The Level I master plan, funded in 2006 and completed in 2008, identified and prioritized five major areas of rehabilitation need: pipelines, automation, liners, structures and a re-regulation reservoir. The total cost of these items is $89,364,443 in 2008 dollars.

In 2017, GID received grant funds from the Rehabilitation program in the amount of $214,000. This amount is for a 100% materials only grant of the project eligible costs. GID will cover all expenses for engineering and project construction. The funding request is to replace two buried tile pipeline laterals, 6.7 and 45.1, with PVC pipe.

During 2017, GID secured the services of engineer, designed the project and successfully bid the project. The project was bid, awarded and completed in 2018. The project is approaching the closeout phase.

60. PROJECT: Goshen Irrigation District Check Structure 2018

LEVEL: III
SPONSOR: Goshen Irrigation District
LOCATION: Goshen County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	$ 225,000	2008
Level III	38	2009	II	$ 1,200,000	2014*
Level III	63	2011	II	$ 1,100,000	2016*
Level III	141	2013	II	$ 1,400,000	2018*
Level III	75	2017	II	$ 214,000	2022*
Level III	121	2018	II	$ 468,330	2023**

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.
*67% grant only

PROJECT INFORMATION:
Goshen Irrigation District (GID) was formed in 1936 and serves 52,484 acres with a conveyance system from the Whalen Diversion Dam above Ft. Laramie to the Nebraska Stateline. Their water rights include

diversions from the North Platte River and storage water from Pathfinder Dam. The district has identified major problems in their district and, with the help of the WWDC, has upgraded portions of their system.

The Level I master plan, funded in 2006 and completed in 2008, identified and prioritized five major areas of rehabilitation need: pipelines, automation, liners, structures and a re-regulation reservoir. The total cost of these items is $89,364,443 in 2008 dollars.

In 2018, GID received grant funds from the Rehabilitation program in the amount of $468,330. This amount is for a 67% grant of the project eligible costs. GID will cover the remaining 33% of project expenses. The funding request is to replace check structure 83.6 with an automated check structure.

61. **PROJECT:** **GR-RS-SC JPWB Pump Station & Transmission**
LEVEL: II
SPONSOR: GR-RS-SC Joint Powers Water Board
LOCATION: Sweetwater County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2005	I	$ 250,000	2007
Level I	85	2007	I	$ 220,000	2010
Level II	66	2009	I	$ 350,000	2011
Level III-I	63	2011	I	$ 900,000	2016
Level III-II	14	2012	I	$ 8,282,000*	2017
Level II	168	2015	I	$ 125,000	2018
Level II	65	2017	I	$ 180,000	2020
Level II	94	2018	I	$ 180,000	2021

*50.5% grant

PROJECT INFORMATION:
In 2017, the Green River-Rock Springs-Sweetwater County Joint Powers Water Board (GR-RS-SC JPWB) requested WWDC-funding for a Level II feasibility study to investigate providing supplemental and redundant pumping capacity from the Green River Water Treatment Facility (WTF) into the transmission lines that serve Green River and Rock Springs. The existing pump station is a single point of potential failure in the transmission systems. The need for these improvements have been identified in Task 6 of the 2009 WWDC GR-RS-SC JPWB Water System Master Plan (Phase 2), Final Report, January 2009.

The 2009 Master Plan contemplated simply replacing the existing pumps with higher capacity pumps. With the anticipated completion of the redundant transmission line to Rock Springs, the existing pump station becomes the "weak-link" in the transmission system. Additionally, the existing pump station cannot be operated with the stand-by generator, thus making it more vulnerable to interruptions in pumping. The JPWB would like to investigate an additional pump station, with dedicated transmission connections, that would add the needed capacity and also provide redundancy provided elsewhere in the system. This Level II study commenced in June 2018 and is currently progressing. The final report on the project is expected July, 2019.

62. **PROJECT:** **GR/RS/SC Raw Water Reservoir**
LEVEL: III
SPONSOR: Green River/Rock Springs/Sweetwater County Joint Powers Water Board
LOCATION: Sweetwater County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2005	I	$ 250,000	2007
Level I	85	2007	I	$ 220,000	2010
Level II	66	2009	I	$ 350,000	2011
Level III-I	63	2011	I	$ 900,000	2016*
Level III-II	14	2012	I	$ 8,282,000	2017**
Level III	75	2017	I	$ 0	2018***
Level III	121	2018	I	$ 0	2020****

*50.5% grant, 24.5% loan. This appropriation was replaced by the 2012 appropriation.
**50.5% grant
***Extend the reversion date from July 1, 2017 to July 1, 2018
**** Extend the reversion date from July 1, 2018 to July 1, 2020

PROJECT INFORMATION:
In 2005 and 2007, the legislature appropriated $250,000 and $220,000, respectively, for the Green River-Rock Springs-Sweetwater County Master Plan. The master plan identified the need for a raw water management study. In 2009, the legislature appropriated $350,000 to complete the GR-RS-SC JPB Water Supplies Level II study that identified a reservoir site and developed a cost estimate to build the reservoir.

It was determined that the reservoir would provide two benefits to the system. One is for raw water storage that replaces the need for additional finished water storage, which would cost approximately $58M, and the second is to act as a settling basin to remove sediment, which will benefit the efficiency of the Water Treatment Plant (WTP).

Construction of the project started in 2015 and completion was anticipated in 2016; however during the reservoir leak test in October 2016, settlement was observed along some of the reservoir embankments. The Joint Powers Board has hired a third party to investigate the cause of the embankment settlement and to provide repair recommendations. The Joint Powers Board is in the process of settling with the contractor and the engineer. The Joint Powers Board has informed the Wyoming Water Development Office that they will move forward with the settlement repairs as well as repairs related to other issues once the settlements with the original contractor and Engineer are complete.

63. PROJECT: GR-RS-SC JPWB Wind River Zone Study

LEVEL: II
SPONSOR: GR-RS-SC Joint Powers Water Board
LOCATION: Sweetwater County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2005	I	$ 250,000	2007
Level I	85	2007	I	$ 220,000	2010
Level II	66	2009	I	$ 350,000	2011
Level III-I	63	2011	I	$ 900,000	2016
Level III-II	14	2012	I	$ 8,282,000*	2017
Level II	168	2015	I	$ 125,000	2018
Level II	65	2017	I	$ 180,000	2020

*50.5% grant

PROJECT INFORMATION:
In 2016, the Green River-Rock Springs-Sweetwater County Joint Powers Water Board (GR-RS-SC JPWB) requested WWDC-funding for a Level II Feasibility Study for investigating supplemental and redundant transmission/pumping capacity for the Wind River Zone in the City of Rock Springs. All supply to the northern portions of the City must travel through and be supplied by the Wind River Zone.

The need for these improvements was identified in Task 6 of the 2009 WWDC GR-RS-SC JPWB Water System Master Plan (Phase 2) Final Report. This Level II study developed conceptual designs, cost estimates, and provided a financing/funding analysis for Level III construction for supplemental and redundant transmission/pumping and associated components. The study concluded that the Wind River Zone Pump Station was currently operating near or at capacity and that a new pumping station and additional transmission pipelines were needed to supply water to the Zone in the City of Rock Springs and the area to the north. The Level II final report, executive summary, and project deliverables were submitted in July 2018 and a public hearing was held October 22, 2018 in Rock Springs. The study is now completed.

64. PROJECT: Greybull River Watershed Study

LEVEL: I
SPONSOR: South Big Horn Conservation District and Meeteetse Conservation District
LOCATION: Big Horn and Park Counties
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	65	2017	I	$ 1,087,500	2020*

* The 2017 Wyoming State Legislature authorized a "block appropriation" for one or more of seven watershed studies for which applications had been received and for which the Commission was instructed to establish a prioritized list. This study was one of four prioritized and approved for funding by the Commission with a project specific budget of $271,875.

PROJECT INFORMATION:
The South Big Horn Conservation District and the Meeteetse Conservation District requested a watershed study to evaluate current watershed function, irrigation diversion/conveyance systems, upland livestock/wildlife water management, and rehabilitation opportunities. Other interest include surface water storage involving potential enlargement and/or rehabilitation of existing water storage facilities, current condition of wetlands and riparian areas within the drainage, and geomorphic classification. This information would provide baseline information from which the districts can pursue implementation of best management practices that address the natural resource issues within the drainage. The South Big Horn Conservation District and the Meeteetse Conservation District have seen interest from landowners in the WWDC Small Water Project Program (SWPP). However, both districts indicated that there are multiple factors for consideration in this watershed study that go beyond the SWPP, including river migration, flooding and floodplain morphology, streamflow hydrology, wildlife, recreation, improved water quality, and economy. The districts feel it is important to pursue a Greybull River Level I Watershed Study to gain an understanding of the small water project needs within the defined study area and to bring all of the watershed information together. This study encompasses the entire Greybull River Watershed along with the adjoining Dry Creek Watershed.

This project was initiated with a Notice to Proceed issued on June 28, 2017. Work performed in 2018 by the consultant included fulfillment of all contracted tasks up to the delivery of the final report and all project deliverables. Presentations of draft results were conducted on September 26 and 27, 2018. This project is on schedule and on budget with the final reports expected by November 16, 2018, respectively.

65. **PROJECT:** **Greybull Transmission Pipeline**
LEVEL: III
SPONSOR: Town of Greybull
LOCATION: Big Horn County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	74	2014	I	$ 200,000	2017
Level III	55	2016	I	$ 824,100	2021*

* 67% grant

PROJECT INFORMATION:
The Town of Greybull and Big Horn County are advancing the transfer of a 650,000-gallon fire suppression storage tank, located at the airport, to the Town's control and use as additional municipal potable storage. The project funding is for construction of a 1.4-mile transmission pipeline connection from town to the tank. The County tank was constructed in 2008 for fire suppression at the airport but can serve that function as well as be effective storage for Greybull potable water and fire flow needs. The tank can also serve as future replacement storage for the Town's aging (50+ yrs.) 1MG East Tank. The Level II feasibility study of the tank transfer recommended this new 12" transmission line to connect the Town with the airport tank.

In 2016, the Legislature appropriated $824,100 as 67% grant funding for this project. The sponsor has secured the balance of project funding from USDA Rural Utility Service for the $1,277,000 project. The project was completed in 2018.

66. **PROJECT:** **Greybull Valley Irrigation District Storage Enlargement**
LEVEL: II
SPONSOR: Greybull Valley Irrigation District
LOCATION: Park and Bighorn Counties
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	28	1994	I	$ 3,000,000	2000
Level III	59	1996	I	$ 37,000,000	2000
Level II	7	2002	I	$ 60,000	2004
Level III	88	2002/2005	I	$ -7,942,542	2010
Level II	85	2007	II	$ 100,000	2008
Level III	121	2007	I	$ 476,000	2014
Level II	33	2008	II	$ 100,000	2008
Level II	33	2008	II	$ 150,000	2010
Level III	38	2009	II	$ 300,000	2014
Level III	63	2011	II	$ 3,600,000	2015
Level II	57	2012	I	$ 85,000	2014
Level III	14	2012	I	$ -326,000	2014
Level I	66	2013	I	$ 350,000	2015
Level II	168	2015	III	$ 300,000	2018
Level II	65	2017	III	$ 500,000	2022

PROJECT INFORMATION:
The Greybull Valley Irrigation District (GVID), located in Park and Bighorn Counties along the Greybull and Wood Rivers, applied for, and received, funding during the 2015 General Session to investigate the

possibility of increasing storage capacity to provide additional supplemental water supply for agricultural irrigation operations. Through the early 1990's, feasibility studies investigated storage sites that would provide a target of 30,000 acre-feet of water to be used as supplemental irrigation supply within the District. Several sites, including enlargements of both Upper and Lower Sunshine Reservoirs, were considered during these studies with Roach Gulch Reservoir ultimately being constructed in the early 2000's. Considering the recent Reservoir construction, justifying the need for additional storage was at the forefront of the Level II, Phase I Storage Feasibility Study.

The Level II, Phase I investigation was completed in 2017 and revealed that seasonal irrigation water shortages remain in the Greybull River watershed, additional water is available for a new storage appropriation, and feasible storage alternatives exist. The report further recommended that, an enlargement to the existing Lower Sunshine Dam is the most feasible and least environmentally damaging alternative and recommended further, more in-depth, investigation of the proposed site to refine project knowledge.

During the 2017 General Session, the GVID applied for, and received, funding to continue the investigation. A level II, Phase II analysis was initiated in early 2017 and key components of the study include the following:

- Hydrologic Model Refinement
- In-Depth Geological/Geotechnical Analysis and Field Investigation
- Wetlands Delineation and Other Aquatic Resources Investigation
- Cultural Resource Surveys
- Economic Analysis Refinement

The bulk of the Phase II work is completed and the draft report is currently being assembled. Additional geotechnical analysis has been recommended for the 2019 field season that will help refine designs and cost estimates for a Level II, Phase III funding application. The final report is expected in 2019.

67. PROJECT: Groundwater Studies

LEVEL: N/A
SPONSOR: State of Wyoming
LOCATION: Statewide
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
GW Grants	8	1981	I	$ 3,000,000	N/A
GW Grants	7	2002	I	$ 1,500,000	N/A
GW Grants	75	2005	I	$ 1,000,000	N/A
GW Grants	33	2008	I	$ 500,000	N/A
GW Grants	57	2012	I	$ 800,000	N/A

PROJECT INFORMATION:
In 1981, the Legislature appropriated $3,000,000 to be granted to incorporated municipalities for the purpose of groundwater exploration. Grants were limited to $200,000 and a 10% match was required. In 1984, an additional $1,000,000 was appropriated and the local share was increased to 25%. Since inception, over 40 communities have benefited from this program.

During the drought in early to mid-2000's, it became apparent that additional funding would be beneficial to assist municipalities and special districts addressing shortages in their drinking water supply. In 2002, an additional $1,500,000 was appropriated for the program; the grant amount was raised to a maximum

of $400,000 per entity; and the program was expanded to include water, water and sewer, and service and improvement districts. Subsequently, the WWDC recommended and the legislature approved additional program funds of $1,000,000, $500,000, and $800,000 in 2005, 2008, and 2012, respectively to service projects in the program.

CURRENT SPONSOR & ACTIVE/OBLIGATED FUNDS
Town of Big Piney (Municipal PWS Well): $162,750
Town of Guernsey (Golf Course PWS Well): $75,375

68. PROJECT: Hanover ID Bighorn Flume Replacement

LEVEL: II
SPONSOR: Hanover Irrigation District
LOCATION: Washakie County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	123	1990	I	$ 60,000	1993
Level III	79	1990	II	$ 600,000	1995
Level III	231	1991	II	$ 1,200,000	1996
Level III	69	2003	II	$ 87,000	2008
Level I	38/65	2016/17	II	$ 295,000	2020
Level II	94	2018	II	$ 65,000	2021

PROJECT INFORMATION:
The Bighorn Flume Bridge was identified as a top rehabilitation priority in the Hanover Irrigation District Master Plan (Phase I) as it is currently impeding canal maintenance operations and the flume has significant maintenance issues. The flume is upstream of Worland, moving water from the west side of the Big Horn River to the east side. Numerous concrete piers are in need of repair or replacement. Given the costs of repairs and replacements needed for safety and functionality, the WWDC and the District would like to explore the possibility of replacing the Flume Bridge under this Level II study. With repairs and maintenance, the potential of extending the useful life into the future an additional 25 years can be expected. However, replacement of the existing flume is preferable. An effective design that the District can afford is the subject of this study which will be ongoing with a final report expected during the summer of 2019.

69. PROJECT: Hanover Irrigation District Cottonwood Spill/Check Replacement 2018

LEVEL: III
SPONSOR: Hanover Irrigation District
LOCATION: Washakie County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	79	1990	II	$ 600,000	1995
Level III	231	1991	II	$ 1,200,000	1996
Level III	69	2003	II	$ 87,000	2007*
Level I	38	2016	II	$ 175,000	2018
Level III	121	2018	II	$ 414,000	2023†

50% grant / 50% loan
†67% grant / 33% loan

PROJECT INFORMATION:
Hanover Irrigation District (HID) is located in the Big Horn Basin near Worland, WY. HID has direct flow rights from the Big Horn River and secondary supply rights from Boysen Reservoir. There are 13,000 acres and 520 landowners served by HID between the towns of Kirby and Worland. The Hanover Canal serves as a carrier canal for other irrigation districts after consolidation efforts by USDI-BOR. The expanded service area of the Hanover Canal encompasses the Bluff Irrigation District, Upper Bluff Irrigation District, and Highland Hanover Irrigation District.

In 2018, HID received grant funds from the Rehabilitation program in the amount of $414,000. This amount is for a 67% grant and 33% loan for the project eligible costs. The funding is to replace the Cottonwood Spill and check structures. The HID is seeking to hire an engineering consultant to design and perform construction management services.

70. PROJECT: Hanover Irrigation District Master Plan, Phase I & II

LEVEL: I
SPONSOR: Hanover/Highland Hanover Irrigation District
LOCATION: Washakie County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	123	1990	I	$ 60,000	1993
Level III	79	1990	II	$ 600,000	1995
Level III	231	1991	II	$ 1,200,000	1996
Level III	69	2003	II	$ 87,000	2008
Level I	38/65	2016/17	II	$ 295,000	2020

PROJECT INFORMATION:
The Hanover and Highland Hanover Irrigation Districts are located in the Big Horn Basin near Worland, Washakie County, Wyoming. The Districts share diversion and conveyance facilities and both have direct flow rights from the Big Horn River and secondary supply rights from Boysen Reservoir. There are some 20,000 acres and 625 land owners served by the Districts between the towns of Kirby and Manderson.

This project will inventory and assess their transmission system, investigate conveyance losses, and identify and prioritize capital improvement projects for financial planning. Cost estimates include both a total and phased approach to construction and replacement according to a recommended rehabilitation schedule. Identification of funding assistance and an analysis of the ability to pay for the improvements to the system are part of the study. Phase I of the project is complete. The results of the Hanover Irrigation District Master Plan include $16.9 million in identified projects. The Highland Hanover Irrigation District Master Plan (Phase II) was completed in the fall of 2018 and identified approximately $7 million in additional projects.

71. PROJECT: Heart Mountain Irrigation District Rehabilitation 2017

LEVEL: III
SPONSOR: Heart Mountain Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	168	2015	II	$ 110,000	2018
Level III	75	2017	II	$ 410,000	2022*

*100 percent grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
For this project, the Heart Mountain Irrigation District requested 100 percent Level III grant funding to finance the purchase of invoiced materials to convert an open ditch to pipe (Lateral H41), construction of check structures and of turnouts required for the Alkali Creek Pick-Up and the North Alkali Creek Pick-Up conveyance features.

Lateral H41 is currently an open ditch with a measuring weir at the head end and at each turnout. This lateral currently delivers 6 cfs to the two turnouts. The length of the lateral is about 1,435 feet and is in sandy soils. There are evaporative losses as well as seepage losses along this ditch. HMID is replacing the open channel lateral in buried pipe with flow meters at each turnout which will conserve water after completion. The district constructed this section of canal section during the winter of 2017-2018.

The Alkali Creek Pick-Up conveyance carries approximately 30 to 50 cfs during irrigation season. The structure diverts water from Alkali Creek where it is conveyed to the lower end of Lateral R15 to supplement those irrigators along the lateral. The length of pipe needed to transmit the water from Alkali Creek Pick-Up to Lateral R15 is approximately 5,300 feet.

The North Alkali Creek Pick-Up conveyance carries approximately 10 to 30 cfs during the irrigation season to Lateral R41 to supplement those irrigators along the lateral. The length of pipe needed to transmit the water from North Alkali Creek Pick-Up to Lateral R41 is approximately 3,250 feet.

Funding from WWDC for this project is for a materials only grant, and the sponsor is funding the engineering, land rights, and permits, and is providing labor, equipment, and other resources necessary for construction of the project. This project was completed in 2018.

72. PROJECT: Heart Mountain Irrigation District Rattlesnake Liner Replacement

LEVEL: III
SPONSOR: Heart Mountain Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	168	2015	II	$ 110,000	2018
Level III	75	2017	II	$ 410,000	2022*
Level III	121	2018	II	$ 2,700,000	2023**

* 100 percent grant for invoiced materials. The sponsor is responsible for all other project costs.
** 67 percent grant, 33% loan, this will be a Construction Manager at Risk (CMR) Project.

PROJECT INFORMATION:
For this project, the Heart Mountain Irrigation District requested 67 percent Level III grant and loan funding to finance the relining of the Heart Mountain Canal, the lined section of the canal is called the Rattlesnake Liner. The canal carries 800-900 cfs of water from the Buffalo Bill Reservoir to the irrigators. The district is in the process of securing the remaining 33% funding from other sources. It is anticipated that the design process will start in 2019.

73. PROJECT: High Meadow Ranch Well, Tank, and Pipeline 2017

LEVEL: III
SPONSOR: High Meadow Ranch Water District
LOCATION: Sublette County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2013	I	$ 175,000	2016
Level II	168	2015	I	$ 500,000	2018
Level III	75	2017	I	$1,991,910	2022

PROJECT INFORMATION:

The High Meadow Ranch development is located eight miles southeast of Pinedale off U.S. Highway 191 and the water system serves 232 taps. Their water is supplied from two wells completed in the Wasatch Formation aquifer. The distribution system consists primarily of 4" diameter PVC pipe with an average age of 38 years. The Sponsor has struggled in recent years to maintain reliability within the water system and at times residents have had to haul water. The Level I Master Plan included a complete analysis of the system to identify deficiencies and the development of a long-term system plan. Study components included additional source capacity, water storage, and a distribution system evaluation. The Level II study, completed in late 2016, included test drilling of a new production well. This Level III project includes connecting the new well to the existing system, a storage tank, back-up power supply, and a transmission pipeline to connect the two operating systems of the district. Design is complete and the project should begin construction during the winter of 2018-2019.

74. PROJECT: Hill Irrigation District - Guernsey Spillway Rehabilitation

LEVEL: III
SPONSOR: Hill Irrigation District
LOCATION: Goshen County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	23	2015	II	$ 36,850	2020

PROJECT INFORMATION:

The Bureau of Reclamation has determined that the Guernsey Dam Spillway Gate is in need of rehabilitation. The Bureau has commissioned a project and has requested that irrigation districts with water interests in the reservoir pay for a share of the rehabilitation. The Bureau is managing the design and construction processes and is funding 50% of the rehabilitation costs. The remaining costs are to be pro-rated amongst the entities who own water shares within the reservoir.

WWDC recommended a 67% grant for HID's portion of the eligible costs for a total of $36,850. Those funds were appropriated in 2015. The 33% matching funds are from Bureau of Reclamation loan. The District will make one payment to the Bureau of Reclamation at the end of the project. The project is complete; however, the Bureau of Reclamation has not submitted closeout documentation or the final pay request.

75. PROJECT: Hog Island Water Master Plan

LEVEL: I
SPONSOR: Hog Island Improvement & Service District
LOCATION: Teton County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I *	46	1997	I	$ 250,000	2000
Level I **	75	2005	I	$ 75,000	2008
Level I	65	2017	I	$ 165,000	2020

*Teton County Water Master Plan
**Hoback Junction Water Supply

PROJECT INFORMATION:
The Hog Island area is a collection of housing subdivisions, segregated tract home-sites, pasture land, a large mobile-home park, and the location of the local WYDOT offices and maintenance shop. A new elementary school (Munger Elementary) is under construction on property just south of WYDOT. The sponsor is requested a Level I study to develop concepts for a new rural public water supply system. The recent (2012) Jackson/Teton County Comprehensive Plan deemed Hog Island as a "complete neighborhood" however no community-wide water/sewer utilities exist. Existing drinking water supplies in the area consist of shallow domestic wells that have poor production and poor water quality if bedrock-sourced. The Evans Mobile-Home Park has a system supplied by three wells on the bank of the Snake River that are likely in communication with the streamflow. Formation of an Improvement & Service District by the sponsor in January 2017 is largely based on replacing existing drinking water supplies with a safe, reliable municipal-like system.

A final report was produced by the study in October, 2018 that provided the sponsor with opportunities and alternatives for developing a ground water source supply and building a rural public water supply system. Unfortunately, on July 3, 2018, the Teton County Board of Commissioners dissolved the Hog Island Improvement & Service District based on a petition produced by a majority of district residents that formed in opposition to the local utility initiative.

76. PROJECT: Horse Creek Watershed Study

LEVEL: I
SPONSOR: South Goshen Conservation District
LOCATION: Albany, Goshen, Laramie, Platte
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	94	2018	I	$ 284,000	2021

PROJECT INFORMATION:
The South Goshen Conservation District requested a watershed study in 2016 to evaluate current watershed condition and function. Following a one-year postponement by the WWDC and consistent with 2017 Wyoming Session Laws, the 2018 Wyoming State Legislature approved funding for this watershed study. Wetland and riparian areas within the drainage will be analyzed, an investigation of stock water needs across the basin will be completed, a geomorphic classification of the rivers and streams will be provided, and a hydro-geologically based groundwater resource utilization and recharge analysis will be developed. The District would also like to look at making improvements to surface and groundwater irrigation systems within the watershed. This study will provide baseline data from which the District can pursue implementation of management practices that address the natural resource issues within the drainage. The District also anticipates that this study will identify opportunities to improve stock watering infrastructure, improve irrigation efficiencies, and provide management opportunities to aid with water resource utilization.

The project is currently underway and project scoping meetings have been held and outreach to local landowners has begun. At this time the project is on time and on budget with an anticipated completion date of December 2019.

77. PROJECT: Indian Paintbrush Water Supply

LEVEL III
SPONSOR Indian Paintbrush Water District
LOCATION Teton County
PROGRAM New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	57	2012	I	$ 375,000	2014
Level II	74	2014	I	$ 200,000	2014
Level III	23	2015	I	$ 616,400	2020*

*67% grant

PROJECT INFORMATION:

The Indian Paintbrush Water District is a recently formed (Aug. 2010) entity composed of adjacent residential subdivisions and segregated tracts in Teton County that share a public water supply system installed in the early 1970's. The District occupies approximately 240 acres in Section 33, T41N, R117W in the Flat Creek drainage (trib. Snake River) and is 1¼ miles south of Wilson on the Fall Creek road. The District sought WWDC Level II funds as a new applicant in 2012 to make improvements on an aging system that has inherent deficiencies in serving the present users. The principal source supply well is experiencing declines in production; storage is undersized and decrepit; and there is suspected significant leakage in the distribution system, all contributing to inadequate year-round supply problems. The WWDC study included an analysis of water supply alternatives, leak detection, storage component alternatives, and a follow-up feasibility study to the District-funded 2009 master plan to guide the district in operations and suggesting a best-fit water rate structure to meet the costs for upgrades and O&M. Phase I of the WWDC Level II study, begun in 2012, determined that the District required additional ground water source supply beyond that provided by the two existing wells. The 2013 exploration drilling program advanced in complex geologic terrain to seek maximum aquifer potential and succeeded with a test borehole that was significantly deeper than the district's supply wells. In Spring 2014, a production-size well was drilled and completed at the test drilling site.

In 2015, the District received Level III funding to connect the well completed under the Level II study. Level III work included installing a well pump, well drop pipe, well electrical supply, 50,000-gallon storage tank, chlorination facility and a power generator. The project is completed.

78. PROJECT: Jamestown/Rio Vista Water Supply

LEVEL: III
SPONSOR: Jamestown-Rio Vista Water and Sewer District
LOCATION: Sweetwater County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	33	2008	I	$ 75,000	2010
Level III	23	2015	I	$ 4,288,000	2020*

*67% grant

PROJECT INFORMATION:
The 2008 Legislature appropriated $75,000 to complete a Level II study to review the existing water supply system including the intake structure, treatment facility, and storage tank. As part of the study, the District also requested an analysis of expanding their system so they could serve additional water users within their boundaries. Out of several alternatives considered, the preferred alternative from this study recommended that Jamestown obtain treated water from the GR-RS-SC JPB, and build a new tank to facilitate the delivery of the treated water to the district.

In 2015, the District requested funds to connect to the Green River-Rock Springs-Sweetwater County Joint Powers Water Board (JPWB) as a new source supply. A new transmission line from the JPWB connection will be constructed and connected to the existing District system. Another section of transmission pipeline will also be constructed on the west side of the existing system that will go under the river and provide water to areas that are within the District, but have not had access to the water system in the past. The project will also construct a new 600,000-gallon storage tank. In 2014, WWDC recommended a 67% grant for $4,288,000, which was appropriated by the 2015 Legislature. Construction of this project was completed in the fall of 2018. The district is in the process of making final payment to the contractor and closing out the project.

79. PROJECT: Kemmerer Transmission Pipeline 2016

LEVEL: III
SPONSOR: Kemmerer-Diamondville Joint Powers Water Board
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$ 100,000	2010
Level II	32	2010	I	$ 100,000	2011
Level III	55	2016	I	$ 1,172,500	2021*

*67% grant

PROJECT INFORMATION:
The 2008 Legislature appropriated $100,000 to complete a Level I Master Plan for the Kemmerer/Diamondville JPB. The Master Plan identified several deficiencies and necessary upgrades for further analysis, design, and cost estimates in a Level II study. The Sponsor requested and received funding for a Level II study during the 2010 Legislature. The final Level II report recommended an 18" redundant transmission pipeline between the Hams Fork River, the Union Pacific Rail Road Tracks and U.S. Highway 30. In 2015, it was recommended that the project be awarded Level III funding for $1,172,500. The recommended funding was approved in the 2016 Budget Session. Project agreements and documents were signed in June of 2016. In August 2018, the project was bid and awarded. Construction began in September 2018 and is expected to be completed by the fall of 2019.

80. PROJECT: Kirby Ditch Rehabilitation

LEVEL: II
SPONSOR: Kirby Ditch Irrigation District
LOCATION: Hot Springs County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	85	2007	II	$ 200,000	2008
Level III	63	2011	II	$ 420,000	2016
Level II	65	2017	II	$ 100,000	2020

PROJECT INFORMATION:
The Kirby Ditch flows through a slide area, and this part of the ditch is often being shut down, due to slides, putting irrigators out of water and suffering crop loss. The current Level II Feasibility study considered options to remedy the slide issue. Additionally, there is a diversion on the upper end of the ditch where the land owner is required to check the ditch to raise the water level enough to get water in his ditch. This backs up water creating algae issues, increased seepage, and affects measuring the water in Kirby Ditch. The study investigated options to improve or move this diversion. An additional alternative was identified during the study to develop alternatives for converting the ditch to pipe from just below the slide area to the terminus of the district.

The draft results presentation was September 21, 2018. The study identified multiple alternatives for converting open ditch to pipeline, and multiple options at the upper end of the ditch to improve the measurement of the flow in the ditch. It was found that there is no alternative for the checked diversion at the upper end of the ditch to remedy the backing up of water. The district plans to assess their options and proceed with a Level III application in 2019. The final project deliverables were received at the end of October, 2018 and the project is now completed.

81. PROJECT: Lake DeSmet Facilities Acquisition

LEVEL: II
SPONSOR: State of Wyoming
LOCATION: Johnson County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	115	2018	I	$ 4,500,000	2021

PROJECT INFORMATION:
Lake DeSmet and the associated north and south dams are owned by Johnson County. Sasol Synfuels owned water right permits for 62,199 AF of storage out of a total reservoir capacity of 234,987 AF and Sasol paid a proportionate share of reservoir operation and maintenance to Johnson County. In February 2016, Sasol listed their Lake DeSmet water assets and the M&M Ranch for sale. The M&M Ranch holdings included 9,986 acres of deeded land, 2,122 acres of state leases, 280 acres of BLM leases, associated mineral rights, and direct flow water rights. The original list price was $21,000,000 which was then reduced to $18,900,000. A Sasol representative approached the State about purchasing the following Lake DeSmet water assets from Sasol.

Water Assets

- Three storage water right permits in Lake DeSmet totaling 62,199 AF
  - -Permit 7533R with a priority date of 8-16-39 and a volume of 11,640 AF. It should be noted that this is a pre-Yellowstone River Compact water right.
  - -Permit 7289R with a priority date of 4-15-57 and a volume of 36,834 AF
  - -Permit 7290R with a priority date of 10-14-57 and a volume of 13,725 AF
- Reservoir supply permits to supply water to Lake DeSmet from Rock Creek, French Creek, and Clear Creek (Permits 22930, 22929, and 22928 respectively)
- Clear Creek diversion dam (8729R - diverts water into Healy Reservoir)
- Healy Reservoir with a storage volume of 5,140 AF (7289R)
- Clear Creek water supply system consisting of 6.7 miles of 66” diameter pipeline and pumping facilities located at Healy Reservoir
- Inlet/outlet structure located on the south dike of Lake DeSmet

After thorough inspection and due diligence, the WWDC and Legislature determined the project to be a good investment for the State of Wyoming. The assets were acquired for the State of Wyoming, by and

through the WWDC, in June of 2018 for $2.5M. Furthermore, $2M was deposited into the Lake DeSmet Reservoir account created by W.S. 99-99-1001 (a) (ix). The WWDO, with oversight from the commission, now manages the assets for the benefit of water users in the State.

82. **PROJECT:** **Lance Creek Well Connection**

LEVEL: III
SPONSOR: Lance Creek Water and Sewer District
LOCATION: Niobrara County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$ 100,000	2010
Level II	1	2011	I	$ 260,000	2012
Level II	Agency Budget- 900 Series		I	$ 32,500	2012
Level III	141	2013	I	$ 170,000	2018*

67% grant, 33% loan

PROJECT INFORMATION:
The U.S. Environmental Protection Agency (USEPA) issued an administrative order to the Lance Creek Water and Sewer District (Sponsor) for exceeding the maximum contaminant level (MCL) for arsenic. The Sponsor requested a Level II study to conduct a groundwater feasibility study to determine if a replacement well could be constructed into the Lower Cretaceous Inyan Kara Group ("Dakota"). The objectives of the new water supply well was to have sufficient water quantity and meet primary drinking water standards for arsenic, radium, and gross alpha.

During 2012, the Level II Study evaluated the feasibility of constructing a test well with different screened intervals into the Inyan Kara Group ("Dakota") to provide water supply meeting drinking water standards. Unfortunately, the first two test wells constructed near the District's State #1 Well also indicated arsenic levels exceeding the MCL and were not acceptable for use. A third test well was constructed as an offset of the District's State #2 Well and resulted in good quality water that meets primary drinking water standards for arsenic, radium, and gross alpha. An additional $32,500 was added in 2012 to the Level II study to conduct a full seven-day pumping test of the third test well.

In 2013, District received a 67% grant / 33% loan funding appropriation from the New Development program for $170,000. Since the Level III appropriation, the District has not made any forward progress with the project. The project agreements and accompanying documents have not been signed to date. The WWDC project agreement reversion date was July 1, 2018. The District has informed the Wyoming Water Development Office they have no intention of advancing the project. The project was closed out in 2018 due to the project reaching its reversion date. A District request to extend the reversion date was never received by the Wyoming Water Development Commission.

83. **PROJECT:** **Lander Test Well Study**

LEVEL: II
SPONSOR: City of Lander
LOCATION: Fremont County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	8	1995	I	$ 100,000	1996
Level II	46/81	1997/99	I	$ 283,710	1998/2000
Level II	125/75	2002/05	I	$1,005,000	2004/07
Level I	33/32	2008/11	I	$ 185,000	2009/11
Level III	14	2012	I	$3,068,000	2017*
Level III	55	2016	I	$2,070,970	2021**
Level II	94	2018	I	$2,340,000	2021

* 50% grant
**67% grant

PROJECT INFORMATION:

The City of Lander currently only has one source of useable potable water supply which is from the Middle Fork of the Popo Agie River. At certain times of the year there is high potential for the City of Lander to face deficits in meeting their current demands based on both water supply and not having the most senior territorial water rights. Also, the City of Lander cannot do maintenance on the water treatment plant or intake infrastructure and supply water to their customers at the same time. The City of Lander also believes that they are nearing ultimate capacity of their current supply and need additional supply to allow for future demand. Finding an alternate potable water supply is of high priority of the city. Test drilling in 1999 and 2004-2006 revealed potential production from the Tensleep Formation, Madison Limestone, Flathead, and alluvial aquifers and represents an opportunity for supplemental water supply.

The feasibility study that began in July 2018 is tasked with evaluating the portfolio of existing City source supplies and potential for expansion and/or efficient yield increases. Additional groundwater source supply opportunities and any test drilling in this project will be based on benchmark supply goals developed with City input. The study will be ongoing in 2019.

84. PROJECT: Lander Transmission Pipeline 2016

LEVEL: III
SPONSOR: City of Lander
LOCATION: Fremont County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$ 100,000	2009
Level I	32	2011	I	$ 85,000	2011
Level III	14	2012	I	$ 3,068,000	2017*
Level III	55	2016	I	$ 2,070,970	2021**

* 50% grant
**67% grant

PROJECT DESCRIPTION:

The City of Lander diverts its water from the Middle Fork Popo Agie River. From the water treatment plant, below the diversion, water flows by gravity to a 4MG storage tank, thence to town and three other storage tanks (Ellis tank, Mager tank, and Rodeo tank) that serve separate pressure zones. The project combines several improvements discussed in the WWDC Level I study completed in October 2011. The project includes the following improvements: 1) Mager Zone transmission line, 2) high pressure feed from Overlook Terrace Dillon PRV, 3) Clubhouse – Dillon isolation to Mount Hope transmission line, 4) Industrial Park transmission, 5) Mount Hope transmission, 6) Pump House demolition, 7) Mager Tank

feed, and 8) tank meters and SCADA. The WWDC project agreement is signed and the City is selecting an engineer. Design should start in the winter of 2018-2019.

85. **PROJECT:** **LaPrele Irrigation District Master Plan**
LEVEL: I
SPONSOR: LaPrele Irrigation District
LOCATION: Converse County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	25	1984	II	$ 1,500,000	1989
Level II	65	2017	II	$ 190,000	2020

PROJECT INFORMATION:
The LaPrele Irrigation District's supply system is made up of 3 reservoirs, siphons, tunnels and open ditch canals. The District requested funding for a Level I Study to inventory and assess their storage and transmission system, investigate conveyance losses, and identify and prioritize capital improvement projects for financial planning. The draft results presentation was September 10, 2018. The study identified multiple projects for improving infrastructure, decreasing ditch seepage losses, and adding SCADA to the system. The LaPrele Reservoir spillway was evaluated; the aging diversion headgates and leaking canals were assessed; the study produced a GIS to assist in the management of the system and recommend needed operational changes. Cost estimates were produced to include both a total and phased approach to construction and replacement according to a recommended rehabilitation schedule. Additionally, the study identified rock slabs, near the dam, that could break free from the canyon walls and potentially roll into the dam. The final project deliverables were received mid-October, 2018. The study is now completed.

86. **PROJECT:** **Laramie North Side Tank**
LEVEL: III
SPONSOR: City of Laramie
LOCATION: Albany
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2014	III	$ 1,200,000	2019*
Level I	100	2017	III	$ 8,107,000	2020†

*67% grant, 33% loan
† 67% grant only. Changed the reversion date from July 1, 2019 to July 1, 2020. The 2017 appropriation of $1,200,000 was increased by $6,907,000 to $8,107,000.

PROJECT INFORMATION:
In 2013, the City of Laramie submitted a Level III funding application based on a feasibility study prepared by the city. The feasibility study provided water system recommendations to address anticipated growth on the north side of Laramie. Recommendations in the feasibility study included construction of a Zone 3 water storage tank, a pump station and transmission pipeline to supply water from Pressure Zone 1 to the Pressure Zone 3 water storage tank and rezoning areas in Pressure Zone 1 to increase system pressure. The project will also provide increased fire flow capabilities to the north end of Laramie.

In 2014, the Legislature appropriated $1,200,000 for the design of the pumping facility, transmission pipelines and water storage tank. In 2017, the Legislature provided construction funding to the project

with an additional appropriation of $6,907,000. This project is currently in the design phase with construction anticipated to begin in 2019.

87. PROJECT: Leavitt Reservoir Expansion

LEVEL: III
SPONSOR: Shell Valley Watershed Improvement District
LOCATION: Big Horn County
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	III	$ 300,000	2010
Level II	32	2010	III	$ 250,000	2016
Level II	57	2012	III	$ 350,000	2016
Level II	66	2013	III	$ 150,000	2016
Level II	74	2014	III	$ 150,000	2016
Level II	168	2015	III	$ 4,500,000	2021
Level III	75	2017	III	$ 41,000,000	2025

PROJECT INFORMATION:

The Shell Valley Watershed Improvement District (District) is interested in expanding Leavitt Reservoir to provide additional supplemental irrigation water to the Beaver Creek and Shell Creek drainages, tributary to the Big Horn River. The Leavitt Reservoir Expansion was identified as the preferred storage alternative to address shortages through previous Level II feasibility studies. The proposed 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 minimum pool for habitat, fishing and recreational use.

The proposed expansion lies partially on lands managed by the Cody Bureau of Land Management (BLM) and involves Waters of the United States, therefore requiring a BLM issued Right of Way permit and a United States Army Corps of Engineers 404 permit. The NEPA process is being followed and an Environmental Impact Statement (EIS) is being prepared by the BLM, as the lead federal agency, to disclose the impacts and analyze a range of alternatives for the Leavitt Reservoir Expansion in order to fully meet Federal requirements. Based on information gathered through previous WWDC analysis, a positive Record of Decision is anticipated. The expanded reservoir, appurtenances, and borrow areas also involve private lands which will require negotiation and execution of easements and land purchases.

Once completed, the District will own, operate, and maintain the expanded Leavitt Reservoir for the life of the project to reduce irrigation shortages and provide a more reliable water supply to irrigated lands in the Shell Valley. In regards to secondary benefits, the reservoir will continue to have public access and as stated, a minimum (environmental/recreation) pool which will provide 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. Furthermore, the proposed supply diversion for the reservoir expansion will be approximately one stream mile below the existing reservoir diversion, thus providing additional fish habitat.

88. **PROJECT:** **LeClair Irrigation District Rehabilitation 2017**
LEVEL: III
SPONSOR: LeClair Irrigation District
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	II	$ 50,000	2004
Level II	75	2005	II	$ 250,000	2006
Level III	69	2003	II	$ 565,000	2012
Level I	168	2015	II	$ 175,000	2018
Level III	55	2016	II	$ 760,000	2021†
Level III	75	2017	II	$ 1,753,000	2022†

†67% grant, 33% loan

PROJECT INFORMATION:
Since the completion of the LeClair Irrigation District master plan, an urgent need has arisen within the District. Seepage at the lower end of the canal has been a problem for years, but was recently exacerbated by some routine canal maintenance, which removed the earthen seal from the bottom of the canal. Seepage following the maintenance in this section of canal has been shown to account for approximately 50% of flows, making it hard to deliver water below this area.

Similarly, seepage through the Cemetery section of the canal near the district office has also been a problem for years. The Mountain View Cemetery board applied to the WWDC for a Level II study in 2014 to look at lining this section of the canal. The WWDC decided instead of conducting a separate study for the Cemetery District to include the seepage analysis in the LeClair Irrigation District Master Plan, which was proposed to run simultaneously. The Cemetery District has been saving money to pay for their portion of the canal lining and is planning to contribute $222,090 (13% of the total project cost) for project expenses. The project design has been completed and construction is underway and should be completed by the spring of 2019.

89. **PROJECT:** **Little Snake River Valley Municipal Water Supply**
LEVEL: II
SPONSOR: Towns of Dixon and Baggs
LOCATION: Carbon
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	38	1991	I	$ 35,000	1994
Level II	74	1993	I	$ 150,000	1996
Level III	28	1994	II	$ 215,000	1999
Level II	85	2007	I	$ 75,000	2010
Level I	231	1991	I	$ 400,000	1994
GW Grant	82	1998	I	$ 150,000	2001
Level II	36	2000	I	$ 50,000	2003
Level III	2	2001	II	$ 92,000	2006
Level II	94	2018	I	$ 135,000	2021

PROJECT INFORMATION:
The Towns of Dixon and Baggs filed a joint application requesting a Level II Study to investigate the potential for a regional system in the Little Snake River Valley and an identification of what upgrades are necessary for their existing water treatment plants. The potential regional service area would encompass unincorporated Savery, the towns of Dixon, and Baggs, and potential rural users. Currently both Dixon and Baggs have separate systems that include infiltration galleries under the Little Snake River (in their respective towns), water treatment plants, and storage. The Little Snake River has issues with water quality at times as well as volume. Additionally, the Environmental Protection Agency's changes to drinking water standards has forced both Towns to upgrade their plants with costly equipment. Source supply concerns, costs for maintaining the two treatment plants, and serving new and future users are the impetus for this study. This study will consider several regionalization alternatives as well as identify what upgrades to the existing water treatment plants would be necessary in the event that upgrading is a cheaper alternative for the residents than a regional system. A new source of supply, in the Savery Creek area, will be explored which will make water available to the Savery area and upper end of the valley. Another alternative to be examined would be to upsize, and upgrade, one of the existing treatment plants to supply a smaller regional system. The study commenced during the summer of 2018 and will be ongoing with a final report expected August, 2019.

90. PROJECT: Little Wind River Storage

LEVEL: II
SPONSOR: Eastern Shoshone and Northern Arapahoe Tribes
LOCATION: Fremont County
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	36	2000	I	$ 200,000	2002
Level II	74	2014	III	$ 350,000	2017
Level II	65	2017	III	$ 475,000	2022

PROJECT INFORMATION:
Irrigation shortages have long been documented in the Wind River Basin upstream of Boysen Reservoir. In a 1965 report, prepared by Bishop and Spurlock, it was concluded that the system hydrology was incapable of meeting the entire irrigation demand in the upper Wind River Basin (the Big Wind and Little Wind River drainages above Boysen Reservoir). These shortages could be offset by constructing dam and reservoir projects in both drainages that would store spring runoff which could then be used by irrigators in either the Little Wind and/or Big Wind River drainage. These shortages were reaffirmed by Short Elliot Hendrickson Inc. (SEH) in the "Upper Wind River Storage Project – Level I Study", which was prepared for the Wyoming Water Development Commission in 2001.

During the 2014 Budget Session, the Eastern Shoshone and Northern Arapaho Tribes applied for, and received, funding to conduct a Level II, Phase I Storage Feasibility Study that would build on the 2001 Level I study. The Phase I study analyzed irrigation water shortages and water availability to store under a present day water right as well as alternatives for constructing new or enlarging existing dams and reservoirs to offset documented irrigation shortages. Constructing new, or enlarging existing storage, will require issuance of a permit to appropriate water from the Wyoming State Engineer's Office and must take into consideration the implications related to the Big Horn General Adjudication.

Building off of previously completed work and additional data collected under this study, approximately 40 different storage alternatives were analyzed against one another. Taking into consideration criteria such as hydrology, technical feasibility, environmental impacts, estimated costs, and Tribal concurrence, the alternatives were screened. Alternatives were ranked by score and top alternatives were analyzed in greater detail.

In summary, based on the Level II, Phase I investigation, it was concluded that seasonal irrigation water shortages in the Little Wind River watershed exist, additional water is available for a new storage appropriation, and storage alternatives are feasible. Further analysis was then recommended to refine project knowledge.

During the 2017 General Session, the Sponsor applied for, and received, funding to continue to analyze the feasibility of the development of additional surface water storage under a Level II, Phase II Study. The current Phase II analysis being conducted includes the following key components:

- Hydrologic Model Refinement
- In-Depth Geological/Geotechnical Analysis and Field Investigation
- Wetlands Delineation and Other Aquatic Resources Investigation
- Cultural Resource Surveys
- Economic Analysis Refinement

The overarching objective of the Phase II analysis is to continue to develop project knowledge by leveraging decades of work to develop a preferred alternative for recommendation for a Level II, Phase III (permitting and final design) funding request. The final report is expected in 2020.

91. PROJECT: Lovell Tank/Zone 2 Improvements

LEVEL: III
SPONSOR: Town of Lovell
LOCATION: Big Horn County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	57	2012	I	$ 110,000	2014
Level III	23	2015	I	$ 2,401,950	2020*
Level III	55	2016	I	$ 2,700,100	2020*†

*67% grant
† The 2015 appropriation of $2,401,950 was increased by $298,150 to $2,700,100.

PROJECT INFORMATION:
The Level I study identified that there is no storage for the Town's upper pressure zone. The upper pressure zone includes the community's hospital, nursing home, and a significant residential area. The pressure zone is supplied by an old variable speed pump station that is approaching the end of its useful life. The pump station has frequently stopped working resulting in loss of pressure to the upper pressure zone users. In 2014, the Sponsor pursued a Level III request to build a new storage tank, a new pump station, and connecting pipe to improve water supply and pressure to Zone 2 in their water system.

In 2015, the Sponsor received a 67% grant funding appropriation from the New Development program in the amount of $2,401,950. The Sponsor secured the services of an engineer and initiated the design process. During the initial design process, tank locations previously identified were no longer available for the Project. The Sponsor and Engineer determined that placing the tank on Sponsor owned property would be the ideal solution. The new tank location is further way than the original site and added additional costs to the project.

During 2016, the Sponsor received an additional $298,150 in funding from the WWDC for the additional length of transmission pipeline. The Project went to bid and was successfully awarded in 2017. The Sponsor, Engineer and Contractor have completed and finalized the project. The project is approaching the closeout phase.

92. PROJECT: Lower Clear Creek Irrigation District Leiter Ditch Rehabilitation 2016

LEVEL: III
SPONSOR: Lower Clear Creek Irrigation District
LOCATION: Johnson and Sheridan Counties
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	74	2014	II	$ 100,000	2017
Level III	55	2016	II	$ 1,310,000	2021*

*67% grant, 33% loan

PROJECT INFORMATION:

The Leiter Ditch is a primary permitted conveyance facility that delivers water from a diversion structure on Piney Creek to the District's storage accounts in Lake DeSmet. The existing ditch and structures cannot safely convey more than approximately 50 cfs of the District's 500 cfs diversion right. In addition to reduced capacity, other issues involving the Leiter Ditch include erosion of unstable canal banks, blockage of return flows to Piney Creek from contributing watershed above the ditch, seepage allowing saturation to an adjacent private lands, and possible threats to roadways including I-90 and Piney Creek Road. This project aims to increase the capacity of the Leiter Ditch to 200 cfs through rehabilitation efforts that primarily include installation of piped sections, canal reshaping and facilities additions and improvements to existing structures. This Level III project follows the recommendations made in the Level II Leiter Ditch Rehabilitation Study that was completed September 2015.

In August 2018, the construction portion of the project was bid. Construction will begin in October 2018 and is expected to be complete in the fall of 2019.

93. PROJECT: Lower Laramie River Watershed Study

LEVEL: I
SPONSOR: Platte County Resource District
LOCATION: Platte, Goshen, Albany, and Laramie County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	94	2018	I	$ 290,000	2021

PROJECT INFORMATION:

The Platte County Resource District requested a watershed study in 2016 to evaluate current watershed function, irrigation diversion/conveyance systems, and upland livestock/wildlife water management and rehabilitation opportunities. Following a one-year postponement by the WWDC and consistent with 2017 Wyoming Session Laws, the 2018 Wyoming State Legislature approved funding for this watershed study.

The Lower Laramie River watershed, located in Platte, Goshen, Albany, and Laramie County, covers approximately 1,500,000 acres. The watershed includes the primary stream system of the Laramie River and numerous tributaries. Flooding in 2015-2016 on Sybille Creek and Laramie River has resulted in significant stream erosion problems and severely impacted diversion structures. 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 Study is on schedule and will be completed fall of 2019.

94. **PROJECT:** **Lower Nowood Rural Water Supply**
LEVEL: III
SPONSOR: Lower Nowood Improvement and Service District
LOCATION: Washakie County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	1	2011	I	$ 70,000	2012
Level II	66	2013	I	$ 75,000	2014
Level III	23	2015	I	$ 1,423,750	2020*
Level III	55	2016	I	$ 1,696,900	2020**

* 67% grant
** 67% grant. The 2015 appropriation of $1,423,750 was increased by $273,150 to $1,696,900.

PROJECT INFORMATION:
Many of the homeowners on the Lower Nowood Road, North of Ten Sleep, haul their drinking water. Water quality analyses on shallow wells in the area have tested too high in total dissolved solids to be considered potable. In 2011, residents requested a Level I study to consider their options for a good quality drinking water supply and a reliable water system.

A consultant was hired to complete the water supply analysis. Special attention was given to the potential for a regional water supply option. The final report was delivered in the fall of 2012 with recommendations to pursue a Level II Study.
In the fall of 2014, the Level II Study was completed. The Level II Study recommended the district pursue a water supply connection from the Town of Ten Sleep, through the South Circle Subdivision, and that the district apply for grant funding from the Water Development Commission for the eligible project components.

In 2015, the Sponsor received a 67% grant funding appropriation from the New Development program for $1,423,750. The Wyoming Legislature also required that the Director of the Water Development Commission review and approve the water service agreements between the Sponsor, South Circle Improvement and Service Districts and the Town of Ten Sleep. Unfortunately, an acceptable water service agreement was not attainable between the Sponsor and the Town of Ten Sleep. The District obtained 33% matching funds through Rural Development in April 2017. Since the matching funds were appropriated, the project has entered the design phase. Construction is expected to begin in 2019.

95. **PROJECT:** **Lusk Water Supply Study**
LEVEL: II
SPONSOR: Town of Lusk
LOCATION: Niobrara County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2013	I	$ 200,000	2016
Level II	38	2016	I	$ 175,000	2019

PROJECT INFORMATION:
The Town of Lusk public water system serves the Town and adjacent area, including the Wyoming Women's Center. The system is supplied with groundwater from four (4) existing production wells completed into the Arikaree Formation. The combined yield of the four wells is approximately 1,800 gpm.

The Town's system includes three (3) storage tanks with a total combined capacity of 1,061,000 gallons. The system serves a population of approximately 1,560 people through 771 taps.

The Level II water supply/quality feasibility study was requested by the Town of Lusk to address the September 2014 U.S. EPA Notice Of Violation (NOV) and Administrative Order (AO) for all four of the Town's wells, which have all exceeded the MCL for adjusted gross alpha on occasion. The September 2014 EPA NOV/AO directed the town to develop and submit a compliance plan to resolve the violations.

The primary conclusion of the Lusk Level II study is that a substantial underestimation of uranium radioactivity was the source of apparent exceedances of the EPA Maximum Contaminant Level (MCL) for adjusted gross alpha activity. The Town of Lusk EPA compliance issues have been resolved without operational changes or additional construction. The present four-well system is more than capable of meeting the Town's water supply needs and based on all available water-quality data, the water system is, and always has been, In full compliance with EPA water-quality standards.

The Level II study investigated several methods for the Town to comply with EPA water standards, including various well operations, water blending, well constructions, and potential water treatments. However, after the EPA was presented with the results of additional water-quality sampling of wells conducted in 2017 and more rigorous laboratory analyses and radioactivity interpretations; the EPA informed the Town on January 28, 2018, that the Administrative Order has been closed and the requirements of the Order have been completed. In addition, the Level II study identified that the existing Lusk Well #1 needed to be replaced with a new well and some storage tank deficiencies needed upgrading, re-piping, and modification.

In November 2017, the WWDC recommended funding of the Level III construction project, Lusk Water System Improvements 2018, and the project appropriation was included in the 2018 Omnibus Water Bill – Construction. A public hearing on the project was held December 7, 2017 in Lusk, WY. This Level II study is now complete with the final report, executive summary, and project deliverables submitted in July, 2018.

96. **PROJECT:** **Lusk Water System Improvements 2018**

LEVEL: II
SPONSOR: Town of Lusk
LOCATION: Niobrara County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2013	I	$ 200,000	2016
Level II	38	2016	I	$ 175,000	2019
Level III	121	2018	I	$ 546,050	2023*

*67% Grant

PROJECT INFORMATION:

The Town of Lusk is located in east-central Wyoming in Niobrara County. The Town of Lusk public water system serves the town and adjacent area, including the Wyoming Women's Center. The system is supplied with groundwater from four existing production wells completed into the Arikaree Formation. The total combined yield of the four (4) wells is approximately 1,800 gpm. The town's system includes three (3) storage tanks with a total combined capacity of 1,061,000 gallons. The Town system supplies a population of approximately 1,560 through 771 taps. The Town is currently using only Well #1 and Well #8 to be in compliance.

The Level II water supply/quality feasibility study was requested by the Town of Lusk to address the September 2014 U.S. EPA Notice Of Violation (NOV) and Administrative Order (AO) for all four of the Town's wells, which have all exceeded the MCL for adjusted gross alpha on occasion. The September 2014 EPA NOV/AO directed the town to develop and submit a compliance plan to resolve the violations. The Level II study commenced in June 2016 and was completed in early 2018.

The Town of Lusk was awarded a Level III appropriation in 2018 for the construction of a new well and updates to the existing storage tanks in order to meet the EPA requirements. The project has entered the design phase, and it is expected to go out for a construction bid in the spring of 2019.

97. **PROJECT:** **Manville Well Connection**
LEVEL: III
SPONSOR: Town of Manville
LOCATION: Niobrara
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	1	2011	I	$ 450,000	2014
Level III	100	2014	I	$ 490,000	2018*

* 67% grant, 33% loan

PROJECT INFORMATION:
The U.S. Environmental Protection Agency (EPA) has issued an administrative order to the Town of Manville as its water supply is exceeding the uranium maximum contaminant level (MCL). The 2011 Level II groundwater feasibility study was requested to determine if a replacement well could be constructed into the deeper Paleozoic Aquifer (Hartville Formation and others) that will have sufficient water quantity to serve the Town and will meet EPA standards. The Level II study commenced with a hydrogeologic, structural, and well siting study during 2011. Due to access problems to private land and other legal issues involving constructing test borings/wells in the Manville area during 2012, the project due date was extended one year to June 30, 2013.

During 2013, the Level II study evaluated two deep test borings drilled into the Hartville Formation. Unfortunately, the water levels in the boreholes were at depths of approximately 650 feet. A test well (104 feet deep) was constructed into the Arikaree Formation at the Dellview Cemetery (southeast of Town) and tested during November 2013. The results indicated this shallow test well produces water of sufficient quality and quantity (130 gpm) to meet primary drinking water standards. In addition, water from the new test well may be blended with 60 gpm of water from the three existing wells to increase the total supply to approximately190 gpm for Town use.

In 2014, the WWDC recommended the project be incorporated into the New Development program at Level III with an appropriation of $490,000. WWDC financing will be 67% grant and 33% loan.

The Town of Manville decided in 2015 that they would not use the loan portion of the appropriation, and they instead applied for State Land Investment Board (SLIB) funding. Construction on the project began in December 2016 and was completed in the summer of 2017. The project was closed out prior to the end of the fiscal year 2018.

98. **PROJECT:** **Meeks Cabin Dam Enlargement**
LEVEL: II
SPONSOR: Bridger Valley Water Conservancy District
LOCATION: Uinta County
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2013	I	$ 350,000	2015
Level II	168	2015	III	$ 600,000	2018

PROJECT INFORMATION:

During the 2013 General Session, $350,000 was appropriated for a Level I Watershed Study sponsored by the Uinta County Conservation District. The study provided a detailed evaluation of the watershed and incorporated available technical information describing conditions and assessments of the watershed. The project consisted of field investigations, development of a Geographic Information System (GIS), development of a prioritized list of potential water development and system rehabilitation projects, preliminary cost estimates, permitting requirements and funding opportunities. In addition, the study identified reservoir enlargements as the most feasible means of providing reliable sources of late season irrigation water to area users. Specifically, the study recommended the Bridger Valley Water Conservancy District (District) sponsor a Level II study to further investigate the feasibility of enlarging Meeks Cabin Reservoir.

During the 2015 General Session, $600,000 was appropriated for a feasibility study, sponsored by the District, to further investigate the enlargement of Meeks Cabin Reservoir. Currently, the facility has a total adjudicated storage capacity of 33,571 acre-feet and is part of the U.S. Department of Interior, Bureau of Reclamation's (Reclamation) "Lyman Project." Meeks Cabin Dam is one of two storage facilities operated by the District and owned by Reclamation. Approximately 25,700 acres receive supplemental irrigation water supply from the facility. The District also operates Stateline Dam which is located just south of the Utah-Wyoming state line.

Approximately half ($293,500) of the 2015 appropriation was utilized under a typical WWDO contract with an engineering consultant to conduct a Level II, Phase I Feasibility Study in which to perform hydrologic modeling, conservation and screening, alternatives analysis, environmental analysis, preliminary geotechnical analysis, and economics analysis. The Level II, Phase I was a broad-based approach to determine if any fatal flaws would halt the progress of an enlargement to the dam. The study was completed and the District was presented with project findings. Results indicated that an enlargement of Meeks Cabin Reservoir is feasible and no fatal flaws are anticipated during a future NEPA or permitting phase of the project. The District considered the economic feasibility of the project, and requested continuation with the next phase of study.

The remaining 2015 appropriation was used to seek technical assistance from Reclamation to further consider enlargement of their facility. The technical assistance with Reclamation is now underway as Task Order 2017-1 under the existing Technical Service Agreement 15-WC-40-559. The task order has refined the feasibility of enlarging the facility and has included Project Management, Preliminary Design, Preliminary Risk Analysis, Value Planning Study, and Appraisal Level Alternatives tasks; all of which are requirements to modify a Reclamation owned facility. Work on the Risk Analysis, Preliminary Designs, and Cost Estimates tasks is substantially complete. Based on these analysis and designs, Reclamation's updated construction cost estimate for the enlargement of Meeks Cabin Dam has substantially increased. This changes the economics of the project considerably, and may be the determining factor in the feasibility of the project. The District has been kept up to date with project developments and will be presented with project results when the study is complete in early 2019. Final construction cost estimates and an updated economics analysis will be discussed with the District to determine if the benefit-cost ratios are high enough to continue studying the feasibility of the project.

99. **PROJECT:** **Meeteetse Tank/SCADA/Retrofit**
LEVEL: III
SPONSOR: Town of Meeteetse
LOCATION: Park County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	74	2014	I	$ 125,000	2015
Level III	55	2016	I	$ 93,800	2021*

* 67% grant

PROJECT INFORMATION:
The August 2015 Level I Meeteetse Master Plan final report recommended this Level III construction project as the top priority for improvements to the Town of Meeteetse's water system. The Meeteetse Tank/SCADA Retrofit Level III project is designed to upgrade the main tank vault to eliminate the confined space hazards and to modernize the old SCADA system. The completion of these projects will greatly improve the safety, operation, and efficiency of the Town's water system.

In 2016, the Legislature appropriated Level III funding to the Town of Meeteetse to retrofit the existing tank vault in order to comply with OSHA confined space requirements, a deficiency that was identified in the Level I study. The SCADA system was also identified as an upgrade needed due to the current operating system being manual levers. The project has been successfully designed and constructed, and it was closed out in January 2018.

100. **PROJECT:** **Melody Ranch Water System Improvements 2018**
LEVEL: III
SPONSOR: Melody Ranch Improvement and Service District
LOCATION: Teton County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I*	46	1997	I	$ 250,000	2000
Level I	38	2016	I	$ 180,000	2019
Level III	121	2018	I	$ 944,700	2023**

*Teton County Water Master Plan
**67% grant

PROJECT INFORMATION:
The Melody Ranch Improvement and Service District is located in Teton County and lies within the Snake River valley floor south of Jackson. The District's public water system serves the population of 900 people through 387 taps. Groundwater is supplied to the District through two wells (400 gpm each). The wells are constructed to approximately 100 feet in depth into the Quaternary-age, Snake River alluvial gravel deposits. The system has a 300,000-gallon, reinforced concrete storage tank for treated water.

A water supply/master plan study was funded by the 2016 Legislature to evaluate the current condition of the District's water system and to determine the ability of the water system to operate with increasing demands and to identify options for increasing system efficiencies. The Level I study conducted a hydrogeologic investigation to select a well location, develop a well design and conceptual designs/cost estimates for a potential new Level III water supply well to supplement the existing water system. The final report was completed in October, 2017 and provided recommendations for advancement to Level III, including transmission upgrades and distribution system components. In November 2018, the District

hired the engineering consultant to design the project and provide construction management services. The project is currently in design.

101. PROJECT: Middle Big Horn River Watershed Study

LEVEL: I
SPONSOR: South Big Horn Conservation District and Washakie County Conservation District
LOCATION: Big Horn, Washakie, Hot Springs, and Park Counties
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	94	2018	I	$ 300,000	2021

PROJECT INFORMATION:
The South Big Horn Conservation District and the Washakie County Conservation District requested a watershed study in 2016 to evaluate current watershed function, irrigation diversion/conveyance systems, and upland livestock/wildlife water management and rehabilitation opportunities. (Following a one-year postponement by the WWDC and consistent with 2017 Wyoming Session Laws, the 2018 Wyoming State Legislature approved funding for this watershed study.) 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 districts can pursue implementation of management practices that address the natural resource issues within the drainage. The service area for the South Big Horn Conservation District includes the lower portions of Middle Big Horn River Watershed that reside in Big Horn County. The service area for the Washakie County Conservation District includes the upper portions of the Middle Big Horn River Watershed that primarily reside in Washakie County, although some portions extend into Park and Hot Springs Counties. The watershed includes the primary stream system of the Middle Big Horn River from south of Worland to Greybull where the Big Horn River confluences with the Greybull River.

This project was initiated with a Notice to Proceed issued on July 13, 2018. Work performed in 2018 by the consultant includes: project scoping meetings, a thorough review of existing information, public outreach, initiation of project inventory and field visits, preliminary stream flow analyses, and initial assessments of the Lower Hanover Canal as part of the discretionary task. This project is on schedule and on budget with draft and final reports expected by August and November, 2019, respectively.

102. PROJECT: Middle Piney Reservoir

LEVEL: III
SPONSOR: State of Wyoming
LOCATION: Sublette County
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	III	$ 200,000	2010
Level II	66	2009	III	$ 500,000	2012
Level II	74	2014	III	$ 300,000	2016
Level II	168	2015	III	$ 150,000	2016
Level II	75	2017	III	$ 12,168,000	2022

PROJECT INFORMATION:
Construction of Middle Piney Dam was completed in 1940 with a September 4, 1919 priority date (pre-Colorado River Compact). It is located on Middle Piney Creek in the Bridger-Teton National Forest, west of Marbleton and Big Piney. The existing dam embankment is situated along the upstream margin of a massive landslide complex that comprises the right abutment of the dam. The landslide is an ancient feature that originated on the mountain slope southeast of the current dam site and failed towards the north across the valley bottom, forming a natural lake. The dam takes advantage of the partial valley fill created by the landslide.

The U.S. Forest Service (USFS) obtained full ownership of the facility in 2000 from private shareholders. Due to the dam being classified as a high hazard structure because of its potential for loss of life or property in the event of failure and dilapidated condition (noted seepage and inability to operate the outlet works), USFS locked the control gate in the open position and is unable to store the existing reservoir water right. USFS originally planned on breaching the unviable dam to remove any liability, but supports the WWDC's interest in allowing the dam to be reconstructed. Studies have determined that it is feasible to reconstruct the dam and bring it up to Dam Safety standards.

An environmental assessment (EA) to reconstruct the dam has been completed by the USFS and a Finding of No Significant Impact (FONSI) was concluded. Additionally, a Special Use Permit (SUP) from the USFS was issued to the WWDC for the construction phase of the project, as well as to manage the reservoir and enter into a water service agreement with downstream water users. Local irrigators on Middle Piney Creek have formed the Middle Piney Watershed Improvement District (MPWID) to allow for contract with the WWDC to operate, maintain, and beneficially use Middle Piney Reservoir once reconstructed.

A construction contract has been awarded, and work commenced in July of 2018. Reconstruction will consist of a cut-off trench, grout curtain, and downstream control section to address seepage; abandonment, relocation, and modernization of the outlet works, and widening of the auxiliary spillway to meet Dam Safety standards; and stabilization of the downstream channel and access road. Due to the high mountain location of the project, construction is seasonal and anticipated to be complete in the fall of 2020.

103. PROJECT: Midvale Bull Lake Rehabilitation 2015

LEVEL: III
SPONSOR: Midvale Irrigation District
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	74	2014	I	$ 150,000	2016
Level III	23	2015	II	$ 2,653,200	2020*

*67% grant

PROJECT INFORMATION:
The United States Bureau of Reclamation is in the process of replacing the emergency spillway at Bull Lake Dam. The USBR is in control of the design, construction, financing, and schedule for this project. The sponsor's involvement consists of repaying its 15% share of costs to the USBR. The sponsor will initially have a loan from USBR with 0% interest and a 50-year term. The project appropriation is to pay down 67% of the loan with a WWDC grant of $2,653,200. The project is currently on hold, awaiting completion of the Level II study addressing raising the face of the dam.

104. PROJECT: Midvale Irrigation District Rehabilitation 2018

LEVEL: III
SPONSOR: Midvale Irrigation District
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	125	2003	II	$ 300,000	2007
Level II	34	2004	II	$ 75,000	2007
Level III	75	2017	II	$ 355,000	2022*
Level III	121	2018	II	$ 995,000	2023*

* 100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:

The project is to replace open ditch with pipe. The Pilot 27.0 B Lateral segment is approximately 1.5 miles long and serves 700 acres. The Wyoming 31.7 Lateral segment is about 1 mile in length and serves 641 acres. Both laterals have open ditches with deteriorated concrete structures that have been repaired and need to be replaced. Both segments also include failing concrete lining and both the earth ditch and lined section experience considerable seepage. For seepage abatement, the Wyoming 31.7 Lateral was ranked eighteenth in lowest cost per acre-foot of seepage in the Level II Study completed in 2007. The sponsor has completed projects on three higher ranking laterals and applied for materials funding on a fourth lateral that was denied. The Pilot 27.0 B Lateral was also evaluated and recommended for rehabilitation due primarily to deteriorated concrete lining and structures. Completion of this project will reduce maintenance costs, reduce seepage, and improve operations through more precise control of the water.

This project will likely be constructed during the winter of 2018-2019 and completed prior to the 2019 irrigation season.

105. PROJECT: Midvale Pilot 27.0 A Lateral 2017

LEVEL: III
SPONSOR: Midvale Irrigation District
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	125	2003	II	$ 300,000	2007
Level II	34	2004	II	$ 75,000	2007
Level III	75	2017	II	$ 355,000	2022*

* 100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:

The Level II study completed in 2007 ranked the Pilot 27.0 A Lateral, serving about 421 acres, twelfth on the list of potential pipeline conversions. This is an open ditch with structures in poor to failing condition and the structures have been repaired several times with little long-term success. Seepage in this area is considerable. The Midvale Pilot 27.0 A Lateral 2017 Project will replace the ditch with buried pipe. The 100% grant financing from WWDC will be used to purchase invoiced materials. The sponsor will pay for the land rights and permits, and provide the engineering, labor, equipment, and other resources necessary for design and construction of the project. The project is complete.

106. **PROJECT:** **Mountain View Acres Connection**
LEVEL: III
SPONSOR: Mountain View Acres Water District
LOCATION: Fremont County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	II	$ 100,000	2008
Level II	99	2006	II	$ 125,000	2008
Level III	141	2013	I	$ 95,000	2018*
Level III	121	2018	I	$ 0	2021**

* 67% grant, 33% loan
** 3 year time extension

PROJECT INFORMATION:
The Mountain View Acres Water District Level III funding request was based on recommendations from the 2008, Riverton and Mountain View Acres Level II Study.

The District has concerns with the long-term outlook of its two water wells used for supply. The City of Riverton has a Westside Transmission line project that borders the District. The construction of the Westside Transmission line provides the District an opportunity to connect to the City of Riverton's water supply.

The new connection will provide the District with a redundant water supply connection to the City of Riverton should the District's wells fail. The City of Riverton and the District are both in favor of the new connection.

The Mountain View Acres Water District obtained a water supply agreement with the City of Riverton, and the project is currently in the design phase. Once the City of Riverton completes their pipeline, then Mountain View Acres can begin construction on their connection into the pipeline.

107. **PROJECT:** **Newcastle 2015**
LEVEL: III
SPONSORS: City of Newcastle
LOCATION: Weston County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	23	2015	I	$ 616,400	2020*

*67% grant

PROJECT INFORMATION:
The City's wells barely kept up with the water demands. This project included rehabilitation to Well #3 to increase the well capacity to meet current and future demands. The City also had issues controlling system pressure and constructed two pressure control stations in Stampede and Seneca Streets. The project also assisted in providing regional water to the surrounding area.

Construction on the project is completed and final closeout is in progress.

108. PROJECT: Newcastle Well 2018

LEVEL: III
SPONSORS: City of Newcastle
LOCATION: Weston County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	23	2015	I	$ 616,400	2020*
Level III	121	2018	I	$ 495,800	2023*

*67% grant

PROJECT INFORMATION:

The City's four current wells are barely keeping up with the current demands. This project connects a Level II well to the City's water system. The addition of Well #5 will allow the City to meet current and future demands. The project will also assist in the regionalization of water systems within the area. The City of Newcastle is also replacing 50 plus year old cast iron piping between Wells 1 and 4 in the same area during this project.

The City is currently seeking additional funds to help cover their 33% share. Design of the well tie-in and new transmission pipelines is anticipated to start in the winter of 2018/2019.

109. PROJECT: New Fork Lake Dam Enlargement

LEVEL: II
SPONSOR: New Fork Lake Irrigation District
LOCATION: Sublette County
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	168	2015	III	$ 300,000	2018
Level II	65	2017	III	$ 450,000	2022

PROJECT INFORMATION:

The current New Fork Lake Dam was rebuilt in 1933 with a permitted capacity of 20,340 acre-feet and has a November 11, 1903 priority date. It is located on the main stem of the New Fork River in the Bridger-Teton National Forest, northwest of Pinedale, WY. The current dam was designed to hold back 17 feet of additional water, on top of the existing glacial New Fork Lakes, which now provides late season supplemental water to the New Fork Lake Irrigation District (District). The primary crop is natural grass hay to support cattle ranching operations.

In 2015, $300,000 was appropriated to study the feasibility of enlarging New Fork Lakes primarily to address shortages in the District and the aging dam infrastructure. This Level II, Phase I project was completed in April 2017. Further study of the top alterative was recommended as no fatal flaws were identified. An additional $450,000 was appropriated in 2017 to continue studying the top expansion alternative at New Fork Lakes with a Level II, Phase II project. The top alternative being studied is a proposal to lower the outlet to utilize more of the existing ~150 foot deep natural lake. The project tasks in this Level II, Phase II study included: bathymetric and topographic survey, hydrologic model refinement, environmental refinement and field work, geotechnical field work, conceptual designs and cost estimates, an updated economic analysis, and federal agency consultation.

The topographic and bathymetric surveys were completed in the summer of 2017 along with the geotechnical and environmental field investigations. Utilizing this information, the hydrologic modeling

and conceptual designs were refined and updated. This resulted in a revised expansion concept of 8,000 ac-ft instead of the previous 9,400 ac-ft concept. This reduction was a result of optimizing the StateMOD shortage calculation with the design concept, and finding middle ground between the size of the enlargement, firm yield of the reservoir, irrigation shortage reduction, dam design improvements, and construction costs. This optimization also reduced the Opinion of Probable Construction Cost (OPCC) by $1.3 million from $12.74 million to $11.44 million. Meetings with the Wyoming Game and Fish Department (WGFD), USDA Forest Service (USFS), and US Army Corps of Engineers (USACE) also helped further refine the design towards a more NEPA informed concept.

Economics for the project were also updated and discussed with the District. A meeting was held with the District board members on September 25, 2018 to present the updated cost estimate, ability to pay analysis, and grant/loan percentages calculated for the project. A discussion of the cost implications to their district membership revealed a grant/loan percentage of 91.2/8.8 as the current ability and willingness to pay for the project. The $11.44 million construction cost results in about $1,430/ac-ft for the additional 8,000 ac-ft of the proposed enlargement. In a broader sense, with the dam safety improvements, the project also preserves the existing 20,340 ac-ft of storage; adding that to the enlargement reveals a $404/ac-ft project cost. The estimated benefit-cost ratio for a 50 year project life is 2.5 for the 8,000 ac-ft enlargement.

Results from the environmental investigations and evaluations were shared and discussed with the USDA Forest Service (USFS), U.S. Army Corps of Engineers (USACE), and Wyoming Game and Fish Department. Based on the pre-application consultation with the agencies, there are no apparent fatal flaws with the project and it is believed permitting could likely be completed through an Environmental Assessment (EA).

110. **PROJECT:** **New Fork River Watershed Study**

LEVEL: I
SPONSOR: Sublette County Conservation District
LOCATION: Sublette County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	38	2016	I	$ 375,000	2019

PROJECT INFORMATION:

During the 2016 Budget Session, the Sublette County Conservation District (SCCD) applied for, and received, funding to conduct a Level I watershed study to evaluate current watershed function, irrigation diversion/conveyance systems, 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 were also of interest. The New Fork River Watershed, located entirely within Sublette County, covers approximately 1,230,000 acres. The watershed includes the primary stream system of the New Fork River and numerous tributaries including, Willow Creek, Pine Creek, Pole Creek, Boulder Creek, and East Fork River.

The watershed study has provided a comprehensive evaluation and initial inventory of the water and land resources within the study area. It provides important information that the SCCD and WWDC can use in developing water resources and implementing conservation practices that address water and land resource concerns. To this end, the study emphasized meeting with stakeholders to discuss proposed small water projects and developing a rehabilitation plan. A total of 70 projects were identified and 56 were brought forward for development of conceptual designs, cost estimates, and permitting requirements after screening through the evaluation matrix. The cost for these projects ranged from $3,000 up to $126,000

individually, totaling $2.3 million in total cost. Conceptual designs and in-depth descriptions about these needed water development projects will assist the SCCD in applying to the Small Water Projects Program and provide economic, ecological, and social benefits to the state of Wyoming and its citizens.

Silver Lake Dam was also identified in the study as a damaged and aging structure in need of rehabilitation. Preliminary reconnaissance work was completed for the Silver Lake Irrigation District (District) as part of the study, which resulted in the District applying for a Level II study to examine the feasibility of rehabilitating their inoperable structure. The watershed study is complete and the final report was delivered to WWDO in April of 2018.

111. PROJECT: Niobrara/Lower North Platte Rivers Watershed Study

LEVEL: I
SPONSOR: Niobrara Conservation District
LOCATION: Niobrara, Platte and Goshen Counties
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	65	2017	I	$ 1,087,500	2020*

* The 2017 Wyoming State Legislature authorized a "block appropriation" for one or more of seven watershed studies for which applications had been received and for which the Commission was instructed to establish a prioritized list. This study was one of four prioritized and approved for funding by the Commission with a project specific budget of $271,875.

PROJECT INFORMATION:
The Niobrara Conservation District requested a watershed study to evaluate current watershed condition and function, in response to the 2015 Niobrara River severe flood episode. This study will help to identify opportunities for river bank stabilization and erosion control. Irrigation system efficiency, wetland and riparian area analyses, and a geomorphic classification were also investigated. The District would also like to consider their options for groundwater conservation. This study will provide baseline data from which the District can pursue the implementation of management practices that address the natural resource issues within the watershed. The completion of this watershed study will also put the District in a position to leverage Small Water Project Program funding to address specific watershed conditions while providing benefit for wildlife, livestock and the environment.

The Niobrara – Lower North Platte watershed includes the following sub-watersheds: Silver Springs Creek, Cottonwood Draw, Upper Rawhide Creek, Duck Creek, Van Tassel Creek, Niobrara River - Lakatoh Ditch, Lower Rawhide Creek, Cold Springs Branch, Cherry Creek-Cherry Creek Drain and Sheep Creek. A majority of the project area is located within the Niobrara Conservation District (NCD), Lingle-Ft. Laramie Conservation District (LFLCD), and the North Platte Valley Conservation District (NPVCD). The draft report for the project has been received and is currently under review. It is anticipated that the final report will be completed by the end of 2018.

112. PROJECT: Northwest Rural Water System Improvements 2018

LEVEL: III
SPONSOR: Northwest Rural Water District
LOCATION: Big Horn and Park County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	69	1997	I	$ 560,000	2002
Level III	105	2006	I	$ 1,112,000	2008
Level III	14	2012	I	$ 281,400	2017
Level III	141	2013	I	$ 3,690,025	2018
Level III	38	2016	I	$ 230,000	2019
Level III	121	2018	I	$ 1,076,690	2023*

67% grant only

PROJECT INFORMATION:

Northwest Rural Water District (NRWD) contains nine service areas encompassing 162 square miles. Service areas are situated in a corridor that starts south of the Buffalo Bill Reservoir near Cody, continues northeast along the Powell Highway (Hwy 14A), and extends to areas near the towns of Lovell, Deaver, and Frannie. NRWD (District) receives its treated drinking water supply from the Shoshone Municipal Pipeline (SMP). NRWD has six connection points to SMP that serve eight of the nine District's service areas. Users in the other service area (Frannie/Deaver) are connected either directly to SMP or by NRWD transmission lines with master meter pits installed at the user's property.

During 2018, the NWRD received a grant funding appropriation from the New Development Program of $1,076,690 for 67% for the eligible WWDC costs. During 2018, the NWRD hired the services of engineer, completed the design, and bid project. The project is anticipated be under contract in late 2018 with construction to follow. The project is anticipated to be completed in 2019.

113. PROJECT: Nowood River Storage – Meadowlark Lake

LEVEL: II
SPONSOR: Nowood River Watershed Improvement District
LOCATION: Washakie County
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	III	$ 300,000	2010
Level II	32	2010	III	$ 250,000	2016
Level II	57	2012	III	$ 350,000	2016
Level II	74	2014	III	$ 225,000	2017
Level II	168	2015	III	$ 300,000	2018

PROJECT INFORMATION:

Citizens of the Big Horn Basin requested a Level I Storage/Watershed Study to determine the best and most beneficial water storage system for the Nowood River Watershed area. Level I funding was obtained through the Dams and Reservoirs Program during the 2008 General Session. The study was completed in early 2010. A watershed management and rehabilitation plan was developed that addressed irrigation system conservation and rehabilitation, livestock/wildlife upland watering opportunities, stream channel condition and stability, and grazing management opportunities. Furthermore, the Level I study identified the potential for storage in the watershed.

During the 2010 Budget Session, the Nowood River Steering Committee, formed prior to the commencement of the Level I study, requested and received funding for a Level II Storage Feasibility Study to further explore storage opportunities identified in the Nowood River Storage/Watershed Level I Study. The Nowood River Watershed is inefficiently used and underutilized by a wide variety of interests because it does not have adequate storage balanced with consistent stream flows. Agricultural operations, as well as fish and wildlife, have been negatively impacted in the watershed by severe drought conditions

which have led to limited late season flows and calls on the river. At the same time, ample, and at times excessive, spring runoff goes unused as a result of the untimely thaws and the magnitude of the runoff. The sponsor's objective is to develop and/or expand current water storage in the Nowood Watershed to collect the excess spring runoff and allow for controlled, consistent releases, thus providing agricultural benefits through improved management and late season irrigation, potential municipal benefits through reduction of channel erosion and flooding in area communities, as well as environmental and recreational benefits through the enhancement of fisheries and wildlife habitat. The Level II study focused primarily on hydrologic analysis, needs, and site investigations to determine the most viable storage locations. Results of the study were positive and showed that a reservoir on Alkali Creek and enlargement of Meadowlark Lake appear to be the most feasible storage options. Furthermore, several potentially feasible storage sites were deferred due to landowner opposition.

During the 2012 Budget Session, the Nowood River Steering Committee requested and received additional funding for a Level II, Phase II Storage Feasibility Study to further consider the Alkali Creek and Meadowlark Lake sites. The additional study focused primarily on the development of a beneficiary group, hydrologic analysis and environmental investigations. Site survey and geotechnical investigations were carried out on the Alkali Creek site, as it had the most local support and appeared most feasible considering land ownership. Results were positive and during the 2014 Budget Session, additional funding was received to further analyze the Alkali Creek site and advance the project to a point where a decision could be made as to whether or not permitting and final design should be pursued. The additional work focused primarily on stream gauging, hydrologic model refinement, cultural resource survey, environmental investigations, and continued coordination with the local community and appropriate agencies.

Based on the results of the feasibility study of the Alkali Creek Reservoir alternative, the Nowood River Steering Committee formed the Nowood River Watershed Improvement District. Level II, Phase III funding to begin permitting and final design of the Alkali Creek Reservoir alternative was requested and received during the 2015 General Session and an Environmental Impact Statement (EIS) is currently being completed. However, considering the geography of the Nowood River Watershed, a single storage project is not able to address needs throughout the basin, thus the additional opportunity of enlarging Meadowlark Lake has also been considered, but has not been advanced to the level of the Alkali Creek site at this point.

During the 2015 General Session, the District requested and received additional funding to continue the Nowood River Level II, Phase II Storage Feasibility Study to further analyze the Meadowlark Lake enlargement alternative. As with the Alkali Creek alternative, the additional Meadowlark Lake work has and will continue to focus primarily on stream gauging, surveying, hydrologic model refinement, cultural resource survey, geotechnical investigations, conceptual design and cost estimate refinement, and continued coordination with the local community and appropriate agencies (U.S. Forest Service). Should the additional investigation on the Meadowlark Lake site prove favorable, the project could be recommended for Level II, Phase III permitting and final design.

114. **PROJECT:** **Opal Well Improvements 2017**
LEVEL: III
SPONSOR: Town of Opal
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	168	2015	I	$ 100,000	2018
Level III	75	2017	I	$ 4,690	2022*

* 67% grant.

PROJECT INFORMATION:
The Town of Opal received a project appropriation to improve well head and well piping functions on their three source supply wells, the Knoll Well #1, Knoll Well #2, and Knoll Well #4. The improvements in the request bring the existing status of the wells up to standards set in Wyoming Department of Environmental Quality – Water Quality Division Chapter 12 regulations, and Wyoming State Engineer's Office for annual reporting compliance. This project was designed, bid and awarded in early 2018. The project has been constructed, completed and is entering the closeout phase.

115. PROJECT: Osage Water Master Plan

LEVEL: I
SPONSOR: Osage Water District
LOCATION: Weston County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	74	1993	I	$ 100,000	1996
Level II	10	1994	I	$ Hold	1997
Level II	8	1995	I	$ 140,000	1998
Level III	45	1997	I	$ 1,205,000	2002
Level I	94	2018	I	$ 190,000	2021

PROJECT INFORMATION:
In August 2017, the Osage Water District requested a Level I reconnaissance-level water master plan study to fully evaluate the infrastructure of the District's public water supply system. The study will 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. A Level I water master plan study has not previously been conducted for the Osage Water District.

The project area is located in the unincorporated town of Osage and the adjacent area of Weston County, Wyoming. The District is located approximately 15 miles northwest of the Town of Newcastle and is located within the Cheyenne River Basin. A population of 208 people is served through 125 taps within the District and 20 taps outside of the District. The District is supplied with Madison Limestone groundwater from Well #4 (2,700 feet deep). The well yields 250 gpm under artesian pressure, is chlorinated at the well head, and the treated water is transmitted through a 12-inch diameter PVC pipeline to the 250,000-gallon, steel, above-ground tank. This Level I study commenced in July 2018 and is currently progressing. The final report on the project is expected July, 2019.

116. PROJECT: Pine Bluffs North Well Field

LEVEL: Level III
SPONSOR: Town of Pine Bluffs
LOCATION: Laramie County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	100	2014	I	$ 2,300,000	2019*

*67% grant on all eligible items and 33% loan on water rights only.

PROJECT INFORMATION:
The Town of Pine Bluffs was offered the opportunity to acquire 318 acres of land (Kimsey property) immediately north of Town along with three (3) irrigation wells and the ground water rights associated with those lands. The property contains 251.51 acres of irrigated farmland recently (2011, 2102, 2013)

planted with corn, oats, and alfalfa hay. The request to the WWDC was for the lands, wells, change-of-use/transfer of water rights, replacing/retrofitting the irrigation wells to meet WDEQ-WQD public water supply regulations, manifold piping, SCADA, and transmission pipeline to Pine Bluffs' system. Water levels continue to decline in the High Plains Aquifer and the Town's Brule Wells have been particularly hard hit. Of the original six Town Brule wells, only two remain operational and their production has decreased by over 50%. The remaining water supply is dependent on two deep (Lance/Fox hills) wells and a newly drilled (2004) High Plains Aquifer well. The Lance/Fox Hills wells are not impacted by local farming practices and do meet EPA drinking water standards, but due to high sodium levels cannot be used for lawn irrigation without dilution by Brule water. This Level III project will allow the Town to purchase three high production wells, which are completed in the Lodgepole Creek Terrace Aquifer rather than the Brule. The water quality of these three wells meets both drinking water and irrigation standards. The Town purchased the wells, necessary land, and water rights to allow the construction and operation of an improved water supply system that provides source redundancy and meets long-term quantity and quality needs.

At this time, the Town has completed the transfer of the water rights, drilled a new well, rehabilitated one of the existing wells for use as a municipal supply well, and constructed the transmission line to connect the new well and the rehabilitated well to the existing Town water supply. The Project is planned to be closed out in the fall of 2018.

117. **PROJECT:** **Pine Haven Well and Tank**
LEVEL: III
SPONSOR: Town of Pine Haven
LOCATION: Crook County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	5	1988	I	$ 165,000	1989
Level III	2	2001	I	$ 235,000	2002
Level II	7	2002	I	$ 575,000	2003
Level III	69	2003	I	$ 115,000	2005*
Level I	33	2008	I	$ 100,000	2009
Level III	105	2006	I	$ 348,000	2010*
Level II	66	2013	I	$ 100,000	2015
Level III	23	2015	I	$ 2,077,000	2020*
Level III	105	2006	I	$ 392,000	2025**

*67% grant
**2018 Sponsor's Contingency Fund, 67% grant

PROJECT INFORMATION:
The Town of Pine Haven water system supply currently consists of two groundwater wells completed into the Madison Formation and the current storage system does not provide adequate pressure to all points of delivery within the water system. The new well and upgraded system is intended to improve water pressures and fire protection, depending on existing pipeline capacities, and the expanded storage component will provide service to a larger population. The tank, transmission pipeline, and well are currently in construction.

118. **PROJECT:** **Pineview Tank and Booster Pump 2017**
LEVEL: III
SPONSOR: Pineview Improvement and Service District
LOCATION: Campbell County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	75	2017	I	$ 368,500	2022*

*67% grant

PROJECT INFORMATION:
The Pineview Improvement and Service District is currently served by a well and pressure tanks. The District is interested in the construction of a storage tank and booster pump to provide water in the event of a power outage at the well site, better accommodate maximum demands and allow for expansion within the district.

In 2016, the WWDC recommended the project be incorporated into the New Development program at Level III status with an appropriation of $368,500. The appropriation is a 67% grant for design and construction costs with the Sponsor being responsible for 33% of the project budget from other funding sources.

The project agreement has been signed and the District his hired an engineering consultant to design the project and perform construction management services. The project is currently in design.

119. PROJECT: Piney & Cruse Canal Piping

LEVEL: III
SPONSOR: Piney Cruse Creek Ditch Company Irrigation District
LOCATION: Sheridan County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	II	$ 75,000	2006
Level III	100	2014	II	$ 855,000	2019*

*67% grant, 33% loan

PROJECT INFORMATION:
The Piney Cruse Creek Ditch Company Irrigation District's surface irrigation water diversion structure is located on South Piney Creek. Water is conveyed from this diversion through the Town of Story to North Piney Creek where it is diverted into the District's irrigation delivery system through Tunnel Hill. The crossing through Tunnel Hill is severely degraded as well as a second drop structure further down the irrigation ditch.

The Mead Creek Ditch Rehabilitation Level II Study completed in 2005 analyzed the issues with these drop structures and provided three alternatives to mitigate the continued degradation of the drops. In 2014, the Legislature approved a project to place both drops into pipe with an appropriation of $855,000 as 67% grant and 33% loan.

The project has been delayed due to easement issues. Additionally, the Level II study that is currently in process has provided the District with an alternate path to follow regarding their diversion off North Piney Creek. This will result in some redesign work once the easement issues have been resolved. The District is working on acquiring the final easement necessary to move forward with project design.

120. PROJECT: Pioneer Transmission Pipeline 2017

LEVEL: III
SPONSOR: Pioneer Water and Sewer District
LOCATION: Natrona County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	66	2009	II	$ 75,000	2010
Level III	75	2017	I	$ 1,246,200	2022

PROJECT INFORMATION:

This project is the result of the 2010 Level II study, which recommended an additional connection to the Central Wyoming Regional Water System (CWRWS) and an additional transmission line for the Pioneer Water and Sewer District. The District is divided into 2 areas with the north area receiving all its water from the southern portion of the District through a 10-inch ductile iron water main. That main has experienced several breaks that deprive the northern portion of the District of water. Additionally, the northern portion of the District serves as a pass-through for water going to 33 Mile Road Improvement and Service District and other local businesses.

This project will provide for a second connection to the CWRWS and a second transmission line to the north end of the District. In 2016, the WWDC recommended that the project be elevated to Level III status and a 67% grant for $1,246,200. The project agreement has been signed. The project is currently in design.

121. PROJECT: Platte Alliance Water Supply (PAWS) Study

LEVEL: II
SPONSOR: Goshen County Board of Commissioners
LOCATION: Platte, Goshen County WY; Scottsbluff, Morill County, NE
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	125	2003	I	$ 150,000	2006
Level II	38	2016	I	$ 200,000	2019

PROJECT INFORMATION:

The Goshen County Commission is acting as the lead Wyoming governmental entity in advancing the concept of replacing existing municipal and rural water source supply wells with a regional (interstate) surface water treatment plant and delivery transmission system. The source of water would be the North Platte River via available and existing storage, consolidation of key correlative municipal/domestic groundwater rights, and other potential tributary or water right purchase opportunities that may be identified. The study area is comprised of an interstate stretch of the North Platte River Valley and environs extending from Guernsey Reservoir in Wyoming to Bridgeport, Nebraska. This study however may limit to a service area of those communities and rural areas that are more evidently stressed by poor drinking water quality and can feasibly be treated in an initial conceptual design.

The 2013 PAWS Appraisal Investigation satisfied the funding institution (USDI-BuRec) and the sponsor as a "Level I" study. The WWDC Level II feasibility study addresses the following:

- Program/Planning, Stakeholder Identification, Institutional Authority, Outreach
- Water Supply and Water Rights
- Review of Alternatives & Options
- Interstate Governance
- Refined Conceptual Design of Water Storage/Treatment and Transmission
- Construction, Operation & Maintenance, and Replacement Cost Estimates
- Economics & Financing
- Environmental

A total project budget of $390,000 was recommended to be a 50/50 match between the State of Wyoming and the City of Scottsbluff, Nebraska. The Level II Study is slated for draft report submittal in May of 2019 and final report submittal in August of 2019.

122. PROJECT: Popo Agie Watershed Study, Phase II

LEVEL: I
SPONSOR: Popo Agie Conservation District
LOCATION: Fremont County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	86	2001	I	$ 200,000	2004
Level I	94	2018	I	$ 235,000	2021

PROJECT INFORMATION:

The Popo Agie Conservation District requested a watershed study to build upon the Level I Study that was completed in 2003. Since that time, the District has pursued some of the recommendations of the first Level I study, but the District's working group has identified the need to examine potential projects that were not explored in the 2003 Level I study. Accordingly, the second phase of this Level I study will focus on projects for micro-and underground water storage, and further ditch and diversion improvements. The expectation is that the study will lead to implementation of some targeted projects, in partnership with landowners, ranchers, irrigators, and others to maximize the beneficial use of water in this heavily-used river.

The Popo Agie watershed, located in Fremont County, covers approximately 514,174 acres. The watershed includes the primary stream system of the Middle Fork Popo Agie River, North Fork of the Popo Agie River, and the Little Popo Agie River and numerous tributaries. Water storage facilities include Worthen Meadows Reservoir (municipal storage for Lander), Frye Lake (irrigation), Christina Lake (irrigation), Shoshone Lake (irrigation), Louis Lake (irrigation), and Carr Reservoir (irrigation). There are approximately 192,039 acres cropped and 100,419 acres irrigated by open ditch, flood, gated pipe, side roll and center pivot. The primary crops grown in the watershed are grass hay, alfalfa, and oats. In the watershed, 60% of the acres are range, 10% are pasture and 30% are forest.

This project will be a more focused Level I study to address the following:

1. The potential to construct micro-storage facilities in strategic locations off the main river channel that will enable irrigators to hold water in the system for use later into the irrigation season. The 2003 Watershed Study determined there were no viable sites for traditional larger irrigation storage reservoirs. The potential for smaller, micro-sized private storage sites was acknowledged. However, no specific geologic or geotechnical investigations were performed for those and no landowners were queried to determine their interest and consequently the feasibility of such projects. Individual landowners have since expressed interest in such projects.

2. An examination of potential irrigation infrastructure improvements that will deliver the greatest increases in conveyance efficiency. This would include potential alternatives to convert entire individual ditch systems to pipeline and consolidation of systems that would reduce per acre costs. The study will examine the comparative benefits of the alternatives including: reduced system water losses; reduced maintenance and associated down time; potential for gravity powered sprinkler application to reduce energy costs, ditch erosion, and damages associated with ditch seepage (structural and soil salinization); potential for associated on-farm improvements (irrigation system and crop yield); and potential for improved diversion screening for trash or fish. Adverse effects of alternatives

would also be examined including the loss of irrigation induced wetland habitat, loss of or diminished return flows relied on by others, and costs of the alternatives. The study will provide answers to questions of how differing water rights within consolidated ditch alternatives would be managed, and if there are any delayed return flow benefits to the stream system from ditch system seepage and on-farm irrigation deep percolation inefficiencies.

3. Exploration of the feasibility of capturing surface water at certain times of the year to store underground, recharge groundwater resources, and enhance late-season water availability. It is believed the geology of the Pogo Agie system lends itself to effective underground storage to recharge surface water as well as the potential for artificial groundwater recharge, but the concept needs further study to assess feasibility and likelihood of a successful outcome.

Information gained will significantly improve the ability of the District's working group to select the best opportunities to improve water management and most effectively employ limited local fund-raised dollars.

The project consultant held a kick off meeting in Lander on July 17, 2018 to gather input from landowners and stakeholders on the tasks outlined above. Meetings will continue throughout the course of this study. This project will be ongoing through 2018 with completion scheduled for November 2019.

123. PROJECT: Powder/Tongue Northeast Groundwater Analysis

LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Powder/Tongue and Northeast River Basins
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	168	2015	I	$ 275,000	2018

PROJECT INFORMATION:

In 1999, the Legislature initiated the Statewide Water Planning Process with its appropriation to fund the Bear and Green River basin plans. Those plans were completed in January 2001. The 2000 Legislature appropriated funding for the Powder/Tongue River Basin and the Northeast River Basin plans, which were completed in 2002. The next basin plans undertaken were the Wind/Bighorn and the Snake/Salt River basins, which were completed in 2003. The Platte River Basin Plan was completed in May of 2006, and marked the culmination of the first round of river basin plans.

The Statewide Framework Water Plan, which updated the 1973 framework plan and consolidated information from the seven basin plans was initiated in 2005 and completed in 2007. The second phase of river basin planning was then initiated with a focus on groundwater. The WWDC has contracted with the Wyoming State Geological Survey to complete the groundwater analysis, and they in-turn have worked with the United States Geological Survey and the University of Wyoming, Water Resources Data System to complete these efforts.

This study will identify the aquifers present, extent of the aquifers, recharge areas and recharge rates, water quantity and quality, and safe yields. This will be an important tool considering the key role groundwater could play in future development within the basin. The final report is expected in 2019.

124. PROJECT: Powder/Tongue Northeast River Basin Plan Update

LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Powder/Tongue and Northeast River Basins
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Powder/Tongue	36	2000	I	$ 500,000	2002
Northeast	36	2000	I	$ 300,000	2002
Powder/Tongue/Northeast	168	2015	I	$ 375,000	2018

PROJECT INFORMATION:

In 1999, the Legislature initiated the Statewide Water Planning Process with its appropriation to fund the Bear and Green River basin plans. Those plans were completed in January 2001. The 2000 Legislature appropriated funding for the Powder/Tongue River Basin and the Northeast River Basin plans, which were completed in 2002. The next basin plans undertaken were the Wind/Bighorn and the Snake/Salt River basins, which were completed in 2003. The Platte River Basin Plan was completed in May of 2006, and marked the culmination of the first round of river basin plans. With this culmination, the Statewide Framework Plan was authorized in 2005 and completed in 2007.

In 2010, the second phase of river basin planning was initiated. For this Basin Plan update, the Powder/Tongue and Northeast River Basins have been combined. The information and data provided will include an update of information that was developed in the first Powder/Tongue and Northeast River Basin Plans as well as the following new items: a level I geomorphic characterization of rivers and streams within the basin and annual and peak runoff estimates for each of the hydrologic unit code (HUC) 12 watersheds in the study area. These new items will provide advances to the basin planning process by providing much needed data which can be incorporated into watershed studies as well as a number of other studies within the WWDO, including dam and reservoir studies.

Open houses were held to discuss topics related to water resources of the area including water use and availability, water rights, water quality and future water demand projections. Meetings will continue throughout the course of this study. The study is ongoing and will be completed in 2019.

125. PROJECT: River Basin Planning - GIS Data Model Implementation

LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Statewide
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	94	2018	I	$ 115,000	2021

PROJECT INFORMATION:

This project is part of the River Basin Planning program modernization efforts. This mapping project will improve data consistency, minimize duplication of data collection efforts, and providing better access for constituents. By developing water infrastructure data statewide, it will be possible to understand the infrastructure needed to support a changing economy and make investments consistent with best scientific, engineering, and management practices. This project will assist the State of Wyoming in finding innovative solutions to maintain, and redesign existing water infrastructure and build new water infrastructure over the coming years. Developing consistent water infrastructure information across the State, and making it available to consultants, will save time and money on future planning studies.

126. PROJECT: River Basin Planning – NHD Plus HR and StreamStats

LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Statewide
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	94	2018	I	$ 240,000	2021

PROJECT INFORMATION:

The River Basin Planning Section of the WWDO was asked to investigate ways to reduce costs on watershed studies, river basin plan studies, storage studies and instream flow studies. One of the methods to do that is to employ StreamStats in the State of Wyoming. Phases I and II of that effort were funded during the 2018 Legislative session. In addition, this project received funding for work needed on the National Hydrography Dataset, which is the foundation for StreamStats.

The National Hydrography Dataset (NHD) is a digital representation of the water surface features found on topographic maps. These features form a stream network and represent the water drainage network across the United States. The NHDPlus High Resolution (NHDPlus HR) integrates hydrographic, topographic, and watershed information at a local resolution and will form the foundation for StreamStats. This project will assist in evaluating and correcting erroneous flow directions, stream connections, and elevation data to ensure that the digitally modeled streamflow from a basin ultimately connects to the correct basin outlet.

Currently, the WWDO and its consultants use spreadsheet models in river basin plan studies, watershed studies, and storage studies to estimate streamflow characteristics. This method is time intensive and becomes an expensive task for the consultants to perform. StreamStats will replace spreadsheet modeling and will benefit the WWDO and other state agencies by providing a web based mapping tool for users to quickly access streamflow statistics for any stream site (either at a stream gage or at an ungaged stream site) in Wyoming. The tool can also be used to delineate drainage basins and calculate basin characteristics. Phase I and II of StreamStats will include developing GIS base layers, calculating basin characteristics, and analyzing stream gauges to assist in the process of developing regional regression equations. The StreamStats tool will assist all WWDC Projects that rely on streamflow quantities and flow duration. This new efficiency will lower individual project costs and improve consistency and defensibility in work products.

127. PROJECT: River Basin Planning – Water Supply Index

LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Statewide
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	94	2018	I	$ 170,000	2021

PROJECT INFORMATION:

This project will provide a state-wide view of water use and availability over time. This will greatly improve the WWDO's understanding of areas around the state in most need of additional or supplemental water. This water supply index is based on a combination of remote sensing, gauge data, survey data, and existing River Basin Plan information. The analysis will utilize credible historic data to provide state-

wide maps of generalized water use under different hydrologic scenarios. Maps, data, and statistics will show how water use trends perform in relation to water availability. The report will describe data that provides the best indicator of water supply for each basin, forming the basis of the index.

128. **PROJECT:** **Riverton Valley Rehabilitation 2014**
LEVEL: III
SPONSOR: Riverton Valley Irrigation District
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	86	2001	II	$ 40,000	2002
Level III	100	2014	II	$ 136,680	2019*

*67% grant

PROJECT INFORMATION:
The Riverton Valley Irrigation District (RVID) has completed previous lateral rehabilitation projects in that were outlined in the Level II Master Plan. The 2014 Legislative appropriation is to line two laterals located within the district.

The district has identified two problem laterals that are in need of rehabilitation due to tree root blockage. These laterals were piped to accommodate the growth of Riverton and are now located under trees, sheds, lawns, utilities, etc. The WWDC did not participate in the piping of these laterals. The district proposed to clean and line the laterals with HDPE pipe. The district requested and received funding to camera, clean, and line two of its concrete piped laterals. The cleaning and lining will prevent overflows, leakage, and seepage by eliminating the line blockage. The design and bidding for the Armstrong lateral is completed with construction completed in the winter of 2016-17. The district is trying to acquire right-of-way to complete the Fairgrounds lateral.

129. **PROJECT:** **Riverton Valley Irrigation District Rehabilitation 2018**
LEVEL: III
SPONSOR: Riverton Valley Irrigation District
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	86	2001	II	$ 40,000	2002
Level III	100	2014	II	$ 136,680	2019*
Level III	121	2018	II	$ 542,000	2023*

*67% grant

PROJECT INFORMATION:
The project will restore and rehabilitation Wyoming Canal No. 2 and the main stem of the Big Wind River. Due to historic and unprecedented flooding from snowmelt on the main stem of the Big Wind River, rechanneling of the main stem resulted in direct floodwater entering the main delivery canal of the Riverton Valley Irrigation District, destroying and making unsuitable water delivery for a period of 19 days. The actual canal has been realigned and reconstructed. This request is to continue the repairs for environmental restoration of damaged lands and erosion protection of the new dike system to prevent a future failure of the canal system. The purpose of this project is to continue the restoration and rehabilitation of the damaged Wyoming Central Canal No. 2, and includes environmental restoration and

armoring of the new flood protection dike. The district is completing design of the dike and will bid later this winter. The district is selecting an engineer for the other portions of the projects and will proceed with design later this year.

130. **PROJECT:** **Riverton Water Supply**
LEVEL: III
SPONSOR: City of Riverton
LOCATION: Fremont County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	II	$ 125,000	2008
Level III	36	2009	I	$ 4,958,800	2014*
Level III	68	2010	I	$ 7,084,000	2014**
Level III	100	2014	I	$ 0	2015***
Level III	23	2015	I	$ 9,856,000	2017†
Level III	75	2017	I	$ 0	2020††

*67% grant, 10% loan, 23% Sponsor
** Increased total appropriation by $2,125,200 (from 4,958,800 to 7,084,000), 67% grant, 10% loan, 23% Sponsor
***One year time extension only
† Increased total appropriation by $2,772,000 (from 7,084,000 to 9,856,000), 67% grant, 10% loan, 23% Sponsor
††Three year time extension only

PROJECT INFORMATION:
The City of Riverton identified a need for expanded capacity on the east side of town and additional piping on the west side of town. In 2007, the WWDC drilled a Level II test well to increase the groundwater supply. The Level II study, entitled Riverton-Mountain View Acres, also identified the need for increased storage and transmission pipelines.

The budget for the entire project is $9,856,000 of which the City is responsible for 23%. Due to funding constraints, the WWDC had to phase the funding for the project. The 2009 Legislature appropriated funding for the construction of a 2 million gallon storage tank and pipelines to connect the well and tank to the distribution system. The legislation also authorized the purchase of the Level II well. The 2010 Legislature provided the remaining funding for additional piping and valves. The sponsor has completed the design process for Phase I (JCC transmission pipeline) and construction was completed in late 2012. The design of phase II (tank) was completed in the summer of 2012 with construction beginning in the fall of 2012. The tank was completed in the fall of 2013. The completion of the pumping stations was delayed by problems in receiving materials but has been completed. Phase IV (valves and vaults) design and construction was completed. Phase V (pressure zone 4 transmission pipeline) design is nearly complete, but right-of-way issues have delayed the project.

The City was able to secure the remaining easement agreements and the project is now expected to bid in late 2018.

131. **PROJECT:** **Rolling Hills Groundwater Supply**
LEVEL: II
SPONSOR: Town of Rolling Hills
LOCATION: Converse County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	32	2010	I	$ 250,000	2013
Level III-1	14	2012	I	$ 160,000	2017*
Level III-II	100	2014	I	$ 1,291,200	2017**
Level II	65	2017	I	$ 750,000	2020

*67% grant, 33% loan
**67% grant

PROJECT INFORMATION:
The Town of Rolling Hills water system serves about 500 people living in the community and the adjacent area. The Town is supplied with groundwater yielded from four (4) deep wells completed into the Lance Formation. The Town's existing four wells yield a combined total of approximately 225 gallons per minute. The system has two ground-level storage tanks with a total combined capacity of 340,000 gallons.

The Town of Rolling Hills requested a Level II test well construction feasibility study to provide future additional supply and to provide redundancy and additional water supply for the Town's water system. The Level II study commenced in June, 2017 and test/production Rolling Hills Well No. 7 was completed to a depth of 2,095 feet into the Lance Formation in 2018. The test/production well yields 80 gpm. A public hearing on the project was held on October 25, 2018 in Rolling Hills, WY. This Level II study is now complete with the final report, executive summary, and project deliverables submitted in October, 2018.

132. PROJECT: Saratoga Water Master Plan

LEVEL: I
SPONSOR: Saratoga/Carbon County Impact Joint Powers Board
LOCATION: Carbon County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	7	2002	I	$ 60,000	2005
Level II	125	2003	I	$ 180,000	2006
Level II	33/75/99	2004/05/06	I	$ 485,000	2009
Level III	121/90	2007/08	I	$ 4,656,500	2013
Level I	94	2018	I	$ 175,000	2021

PROJECT INFORMATION
A water master plan study was requested by the Town of Saratoga 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. This master plan would serve as a framework for the Town 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. The last formal comprehensive evaluation of the Town of Saratoga's water supply and facilities was the "Saratoga Master Plan Update and Level 1 Study" (SMPLU1) completed in 2003 for the Wyoming Water Development Commission. The main goal of the 2003 master plan was to update the 1978 Water and Sewer Study. A key recommendation of the SMPLU1 was to test the concept of developing a well field to replace the Town's intake from the North Platte River as a primary water source. The "Saratoga Test Well Study, Level II" (STWSL2) (2007) completed for the WWDC, confirmed the feasibility and cost effectiveness of abandoning the river intake and treatment system with five new water production wells. The new ground water supply and delivery system was constructed and put into service in 2009. Along with the

general information documentation in a Master Plan upgrade, there would be a number of items the Town would like to evaluate that present near-term opportunities to improve and maintain the system. The study will be ongoing with a final report expected July, 2019.

133. **PROJECT:** **Savery Creek Diversions Phase II**
LEVEL: III
SPONSOR: Savery-Little Snake River Water Conservancy District
LOCATION: Carbon County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	141	2013	II	$ 1,900,000	2018*
Level III	121	2018	II	$ 0	2019**

*67% grant, 33% loan
*Reversion date extended from July 1, 2018 to July 1, 2019.

PROJECT INFORMATION:
The Savery-Little Snake Water Conservancy District requested funding to replace two diversion structures on Savery Creek that have failed due to spring snowmelt/run off events. The project also includes construction of two new diversion structures on Savery Creek and the replacement of an existing diversion structure on the Little Snake River. The Project will provide service to various ditch companies and landowners involved in agriculture production within the Savery Creek watershed. The Project will also provide service to landowners within the Little Snake River watershed near the Little Snake River Savery Creek confluence. During their respective December 2012 meetings, the WWDC and Select Water Committee recommended that the legislature appropriate $1,900,000 to fund the project.

This project is similar to another Level III project located in the lower main-stem of the Little Snake River Valley near Baggs, Wyoming that has been completed this year. Although it includes reconstruction/rehabilitation of a main stem Little Snake River Diversion (higher in the drainage than those currently under construction), the emphasis of the Savery Creek Diversions Phase II is construction of two new diversions and replacement of two existing diversions on Savery Creek. The District is supplying all the engineering service for these projects.

This project has five separate diversions under it. The District has completed four of the diversions. The Brewster-Clay diversion was the last with two construction contracts. Both the rock procurement contract and the construction contract are complete. The District completed the project in 2018.

134. **PROJECT:** **Savery-Little Snake-Battle Creek Diversions**
LEVEL: III
SPONSOR: Savery-Little Snake River Water Conservancy District
LOCATION: Carbon County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	23	2015	II	$ 871,000	2020*

*67% grant

PROJECT INFORMATION:
The Savery-Little Snake River Water Conservancy District is proposing to rehabilitate two diversions. One diversion is located on Battle Creek. The second diversion, the Raught Diversion, is located on the

Little Snake River. Both diversions are inefficient and do not function at low flows. Continuous incursions into the creek/river beds are required to push up material to make the diversions function.

The Level III funding is to rebuild the diversions using the Rosgen techniques that utilize natural materials to stabilize the waterways up and downstream for longevity of the diversions. The District will supply all the engineering support for the project. In 2015, the Legislature approved an appropriation of $871,000 in the form of 67% grant. The remaining 33% will be funded by the Sponsor. The Raught Diversion is complete. The Battle Creek Diversion is designed with construction anticipated in the spring of 2019.

135. PROJECT: Shell Water Master Plan

LEVEL: I
SPONSOR: Shell Water Users, Inc. & Shell Town Water Users
LOCATION: Big Horn County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	166-4	1983	I	$ 625,000	1986
Level III	228/113	1985/1986	I	$ 700,000	1991
Level III	113-9	1986	I	$ 50,000	1991
Level I	38	2016	I	$ 85,000	2019

PROJECT INFORMATION

The Town of Shell (unincorporated) was involved in the WWDC Shell Valley Domestic Water Supply Project that was built in 1987 to serve drinking water to rural users in Shell Creek valley along the existing Town of Greybull municipal pipeline. The Greybull rural/municipal supply system is currently served by three Madison aquifer wells drilled with WWDC funding. Two separate water companies have supplied Shell residents for over 30 years. The systems have separate master tap/meters off the Town of Greybull's municipal pipeline. Both systems have recurrent issues of leaks and system failure. The desire of both entities was to update and combine the supply systems into a single current engineering standard. A Level I study was designed to determine the feasibility of joining and improving the systems such that a single system serves the town and is administered as such. The study produced a final report in October 2018 and the sponsors are in the final stages of district formation.

136. PROJECT: Sheridan 4MG WTP Tank

LEVEL: III
SPONSOR: City of Sheridan
LOCATION: Johnson County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	23	2015	II	$ 2,144,000	2020*

*67% grant

PROJECT INFORMATION:

The basis for the funding request was detailed in a Preliminary Engineering report funded by the City of Sheridan.

In 2014, the City requested funding to repair an existing 4 million gallon (4MG) water tank located at the Sheridan water treatment plant. This tank is a critical component of the City's water system. The existing tank is 34 years old and was nearing the end of its useful life without rehabilitation. The storage tank's roof has deteriorated to a point where post-tensioned reinforcing tendons and reinforcing steel are exposed to the

elements. The compromised structural integrity of the tank roof and remaining service life have driven the request for funding.

In 2015, the City received a grant funding appropriation from the Rehabilitation Program of $2,144,000 (67% grant) for the eligible WWDC costs. During 2015, the Sponsor selected an engineer, secured SRF funding and initiated the design process for the project.

In 2016, the design process was completed and the project was successfully bid and awarded. The project entered construction in October of 2016 and the project was completed in 2017. During the course of construction and draining the tank, a section of the drain line failed. A new DEQ permit was required in order to complete repairs of the tank. This portion of the project was evaluated by the engineer for an appropriate repair path. In 2018, the project was bid and awarded for the repair of the failed tank drain line. The tank drain portion of the project is anticipated to be completed in 2018.

The project is anticipated to reach final completion in 2018 and be closed out in 2019.

137. PROJECT: Sheridan Leopard Street Pipeline

LEVEL: III
SPONSOR: City of Sheridan
LOCATION: Johnson County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	23	2015	I	$ 2,211,000	2020*

*67% grant

PROJECT INFORMATION:
The basis for the funding request was identified in the 2008 Level I Study – Final Report for the City of Buffalo – Sheridan Area Water System – Lake De Smet.

In 2014 the City requested funding to replace an existing transmission line from the South Low Tank along Leopard Street and east through the City to the Burkitt/Sherman intersection. The existing 14-inch cast iron transmission line is in poor condition and is need of replacement. Existing transmission and distribution lines in this area are deteriorating and corrosion has led to increased water leaks in recent years. The existing 14-inch transmission line would be replaced with 7,820 feet of 16-inch PVC pipe.

In 2015, the City received a grant funding appropriation from the New Development Program of $2,211,000 (67% grant) for the eligible WWDC costs.

During 2015, the Sponsor selected an engineer, secured SRF funding and initiated the design process for the project.

In 2016, the design process was completed and the project was successfully bid and awarded. The project anticipates completing construction in 2016 - 2017. During construction, a section of the pipeline was determined to be removed from the project and re-bid due to contractor and land owner concerns. This section of pipe has been re-bid and the construction is anticipated to reach final completion in late 2018.

The project is anticipated to be completed in 2018 and closed out in 2019.

138. PROJECT: Sheridan Municipal Watershed Wildfire Hazard Mitigation Assessment

LEVEL: I
SPONSOR: Sheridan Area Water Supply Joint Powers Board (SAWS-JPB)
LOCATION: Johnson and Sheridan Counties
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	II	$ 75,000	2008
Level I	99	2006	II	$ 600,000	2009
Level II	66/57	2009/12	III	$ 600,000	2012/2015
Level III	121	2007	II	$ 427,020	2012
Level III	121	2007	I	$ 5,260,840	2012
Level III	141/100	2013/14	I	$ 1,714,460	2018/2019
Level III	23	2015	I	$ 2,211,000	2020
Level III	23	2015	II	$ 2,144,000	2020
Level I	94	2018	I	$ 165,000	2021

PROJECT INFORMATION:

The Sheridan Area Water Supply Joint Powers Board (SAWS – JPB) requested a study to assess the Goose Creek Municipal Watershed for wildfire mitigation. The sole source of water for the City of Sheridan/SAWS-JPB water system is water from the Goose Creek watershed. Physical damage to the watershed, intake and treatment structures as well as chemical changes to the surface water resulting from a wildfire would significantly decrease water system capacity. Identifying areas that have the highest potential for protection of the watershed through vegetative treatments and other measures will allow the Big Horn National Forest to plan and execute specific high value fuel reduction and fire barrier activities to reduce the level of wildfire risk to the watershed.

The Goose Creek Watershed is located primarily in Sheridan County and covers approximately 265,766 acres and includes the sub-watersheds of Goose Creek, Little Goose Creek and Big Goose Creek. The City of Sheridan lies on the confluence of Big Goose Creek and Little Goose Creek.

The project will, in close coordination with the WWDO, the Wyoming State Forestry Division, the City of Sheridan, and the U.S. Forest Service, identify specific, strategically located, forest health treatment opportunities in the forested watershed that contribute to the city of Sheridan's municipal water supply in order to mitigate, pre-fire, the risk associated with the effects of catastrophic fire in the watersheds.

The project consultant held a kick off meeting in Sheridan on July 30, 2018 to gather input from landowners and stakeholders on the tasks outlined above and introduce the project. Meetings will continue throughout the course of this study. This project will be ongoing through 2018 with completion scheduled for March 2019.

139. PROJECT: Sheridan North Side Transmission Pipeline 2018

LEVEL: III
SPONSOR: City of Sheridan
LOCATION: Johnson County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	23	2015	II	$ 2,144,000	2020*
Level III	121	2018	III	$ 1,735,300	2023

*67% grant

PROJECT INFORMATION:

The proposed project will serve the north to northwest part of Sheridan providing additional supply capacity, fire flow delivery, and system redundancy. The project includes the construction of 2.2 miles of 12" transmission pipeline, pressure reducing valve vaults, and necessary appurtenances to complete the project. This area of Sheridan has recently received a new interchange on I-90 and has been sited for a new school. The basis for the project was detailed in a preliminary engineering report funded by the City of Sheridan.

In 2018, the City received a grant funding appropriation from the New Development Program of $1,735,300 for 67% for the eligible WWDC costs. During 2018, the City hired the services of engineer, completed the design, bid and awarded the project. The City secured and paid for the services of the engineer during the design phase to aid in expediting the project. The project is currently under construction and is anticipated to be completed in 2019.

140. PROJECT: Sheridan Supplemental Storage

LEVEL: III
SPONSOR: Sheridan Area Water Supply Joint Powers Board/City of Sheridan
LOCATION: Sheridan County
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	66	2009	III	$ 350,000	2010
Level II	57	2012	III	$ 250,000	2014
Level III	23	2015	III	$ 5,628,000	2020

The above legislation references appropriations from Water Account III that focus upon opportunities to construct or acquire storage from existing mountain storage (located within the Big Goose drainage above Sheridan) for both the City of Sheridan and the Sheridan Area Water Supply Joint Powers Board. The Water Development Program has funded many more projects for both entities and for the regional municipal rural domestic water system, which serves both rural Sheridan County and the City of Sheridan.

PROJECT INFORMATION:

The City of Sheridan is interested in developing additional water supplies to meet demands due to ongoing growth and development. The completed Sheridan Supplemental Storage Level II, Phase II Study concluded that Sheridan (City) and the Sheridan Area Water Supply System Joint Powers Board should focus on purchasing ownership shares available in Park Reservoir rather than constructing new dam and reservoir facilities.

The Gillispie Draw Reservoir site, focus of the Sheridan Supplemental Storage Level II, Phase I Study, is located near Sheridan, Wyoming approximately ¼ mile from the Sheridan Water Treatment Plant. The opportunity exists to build new storage facilities within Gillispie draw sometime in the future. However, a federal nexus exists due to the presence of wetlands. This federal nexus would trigger review under the National Environmental Policy Act (NEPA) and require Clean Water Act Section 404 Permitting, which would undoubtedly suggest that existing dam and reservoir facilities should be acquired and utilized before constructing new facilities. Construction of the least environmentally damaging alternative is a federal goal during the NEPA/404 review when developing a "preferred alternative." Acquiring shares

or acquiring existing reservoirs would undeniably be less environmentally damaging when compared with construction of a new reservoir.

The City is interested in developing storage of 2,000 acre-feet or more. Before concluding in a recommendation, the Level II, Phase II Study included a facility assessment for both Sawmill and Park Reservoirs, permitting and environmental analyses, identification of improvements needed to use the reservoirs to supply water for municipal/rural domestic purposes, and legal issues involving potential transfers of Sawmill storage rights from agricultural use to municipal, rural domestic purposes. The study also addressed the need to acquire a Special Use Permit issued by the U.S. Forest Service for construction of an access road to access Sawmill Dam. Furthermore, the study included an economic analysis and estimate of fair market value for acquiring Park Reservoir shares and for purchase of Sawmill Reservoir.

The cost of a new reservoir, as outlined in the Level II studies, is approximately $9,064 per acre-foot of firm yield at the City's intake. This is significantly higher than the $6,246 per acre-foot of firm yield at the City's intake associated with acquiring existing Park Reservoir storage at the historical price ($4,200 per acre-foot at the reservoir). Surveys conducted by the consulting firm charged with completing the Level II, Phase II Study indicated that this historical price may secure a portion or perhaps all of the targeted 2,000 acre-feet amount. In the event that not all of the targeted amount may be acquired, the appropriation and process would also constitute an argument or justification for constructing new storage. During the 2015 General Session, the Sheridan Area Water Supply Joint Powers Board/City of Sheridan requested and received a grant of $5,628,000 from the WWDC Dam and Reservoir Water Account III to acquire up to 2,000 acre-feet of storage within Park Reservoir in the Big Goose drainage above the City of Sheridan, should it become available, on a willing seller, willing buyer basis. Agreements are now in place to allow for solicitation of such acquisitions and several purchases have been executed. The Sponsors has provided 33% matching funds from the City of Sheridan and Sheridan Area Water Supply Long Term Water Supply Fund. The acquisition of the storage is necessary for the supply and utilization of water for municipal uses and it improves the function and sustainability of the Sponsors' regional municipal water supply system.

141. **PROJECT:** **Sheridan Water Master Plan**
LEVEL: I
SPONSOR: City of Sheridan
LOCATION: Sheridan County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	II	$ 75,000	2008
Level I	99	2006	II	$ 600,000	2009
Level II	67/57	2009/12	III	$ 600,000	2012/15
Level III	121	2007	II	$ 427,020	2012
Level III	121	2007	I	$ 5,260,840	2012
Level III	141/100	2013/14	I	$ 1,714,460	2018/19
Level III	23	2015	I	$ 2,211,000	2020
Level III	23	2015	II	$ 2,144,000	2020
Level I	94	2018	I	$ 250,000	2021

PROJECT INFORMATION:
The water supply for the City of Sheridan and the Sheridan Area Water Supply (SAWS) Joint Powers Board (JPB) rural system consists of direct flow from Big Goose Creek and stored water in reservoirs in the Big Horn Mountains. Raw water is diverted, pretreated, and then delivered to one of two water treatment plants (WTP). The system primarily utilizes gravity flow with many pressure reducing stations.

There are also several booster stations to serve areas of higher elevations. Gravity storage tanks store a total of 13.5 MG within the various pressure zones. Although there are two entities involved, the same operators and facilities serve the entire system for efficiency.

This study entails development of an overall master plan of the entire water system that covers both the City of Sheridan's system and the Sheridan Area Water Supply (SAWS) joint powers board (JPB) rural system. This is one water system that is operated by the same O&M crew and is under one PWS number. The system is substantial and complex with many features, including multiple pressure zones, tanks, pumps stations, pressure reducing and other control valve stations, and a network of transmission mains. The city has a hydraulic model of the water system and GIS, but neither of these are fully accurate. The plan would help the city true-up all its data on its water system infrastructure, including the data in which the hydraulic model is based and the city's GIS. Overall, the study will examine the adequacy and condition of system components, their capability to serve into the future, and prepare any recommendations for needed capital improvements with cost estimates and funding plans.

This project was initiated with a Notice to Proceed issued on July 5, 2018. Work performed thus far by the consultant includes: a project scoping meeting and several meetings with the project Sponsor; a review of existing information; initiation of project inventory, field visits, and GIS; present and future water source assessments; and initial work on growth and demand projections. This project is on schedule and on budget with draft and final reports expected by April and July, 2019, respectively.

142. **PROJECT:** **Shoshone Irrigation District Rehabilitation 2017**
LEVEL: III
SPONSOR: Shoshone Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	II	$ 300,000	2008
Level III	75	2017	II	$ 234,000	2022*

* 100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
The Shoshone Irrigation District has systematically requested funding to complete the rehabilitation projects identified in the Level II study. Financing from WWDC is used to purchase invoiced materials and the sponsor pays for the engineering, land rights, and permits, and provides labor, equipment, and other resources necessary for construction of the project.

The Shoshone Irrigation District Rehabilitation 2017 Project consists of replacing two concrete drop structures on the Garland Canal, and replacing three ditch segments with buried pipe. Both drop structures need to be replaced. The piped laterals will better facilitate control of the water and reduce losses to seepage and evaporation. The total length of the lateral segments to be piped is approximately 7,400 feet.

The sponsor plans to construct one Garland Canal Drop Structure and one or two pipeline segments during the 2017-2018 winter. The remaining work is going to bid in the fall of 2018 and the project is anticipated to be completed in 2019.

143. **PROJECT:** **Shoshone Transmission Pipeline 2016**
LEVEL: III
SPONSOR: Shoshone Municipal Water Supply JPB
LOCATION: Park and Big Horn Counties
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	55	2016	I	$ 2,227,500	2021*

*33% grant

PROJECT INFORMATION:

The project consists of relocating a 16" steel pipeline that is currently within WYDOT Right-of-Way. The pipeline is currently located underneath the road maintained by WYDOT. WYDOT planned a road construction project and is moving all utilities out from under the roadway right-of-way.

In 2016, the Sponsor was awarded grant funds from the New Development program in the amount of $2,227,500. This amount is for a 33% grant of the project eligible costs. The remaining project funds are to be provided by the Sponsor and WYDOT.

During 2016, the Sponsor selected an engineer and initiated the design and easement acquisition process. During 2017, the project was successfully bid and awarded. Construction was initiated and completed in 2018. The project is in the close out phase and the Sponsor anticipates closing the project out in 2019.

144. PROJECT: Sidon Irrigation District Rehabilitation 2016

LEVEL: III
SPONSOR: Sidon Irrigation District
LOCATION: Park and Big Horn County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	100	2014	II	$ 109,000	2019*
Level III	55	2016	II	$ 352,500	2021*

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:

The project authorization is for 100% grant funds to finance the purchase of invoiced materials to replace the Hinckley lateral with pipe. The total pipe length is approximately 10,400 feet. The WWDC recommended that the project be placed in Level III status and in 2016 the Legislature appropriated $352,500 in a materials only grant for the project. The Sponsor will be responsible for any engineering and construction costs. This project was one of three that were requested in 2016. Because of a lack of funds in WWDA II, the Legislature funded only one project. The District completed the project in 2018.

145. PROJECT: Sidon Irrigation District Rehabilitation 2018

LEVEL: III
SPONSOR: Sidon Irrigation District
LOCATION: Park and Big Horn Counties
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	100	2014	II	$ 109,000	2019*
Level III	55	2016	II	$ 352,500	2021*
Level III	121	2018	II	$ 823,000	2023*

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:

The project authorization is for 100% grant funds to finance the purchase of invoiced materials to replace Gwen Lateral canal with pipe. The sponsor will construct the facilities and will finance the engineering, land rights, and permits, and provide labor, equipment, and other resources necessary for construction of the project. The project is in the design phase. Construction is anticipated in the spring of 2019.

146. PROJECT: Silver Lake Dam Rehabilitation

LEVEL: II
SPONSOR: Silver Lake Irrigation District
LOCATION: Sublette County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	94	2018	II	$ 250,000	2021

PROJECT INFORMATION:

The Silver Lake Irrigation District (District) applied for and received funding for a Level II feasibility study to investigate rehabilitation options for the dam embankment and outlet works on Silver Lake. Silver Lake is located in the Bridger-Teton National Forest Wilderness Area east of Boulder, WY. The 1955 dam enlarged the existing Silver Lake and provides a total of 2,152 acre-feet of late season irrigation water to 13 landowners and 2,527 acres of grass hay cropland in the Silver Lake Irrigation District.

The initial construction of a dam at Silver Lake dates back to the 1920's with a priority date of 1924 on the water right. The facility was rebuilt in the 1940's, enlarged in the early 1950's, and remains as constructed when completed in 1955. The aging infrastructure has deteriorated to the point where the outlet works are no longer serviceable, thereby impeding the District from utilizing their water rights.

A $250,000 appropriation, during the 2018 Budget Session, authorized a Level II feasibility study to analyze rehabilitation alternatives for Silver Lake Dam. The study includes tasks for federal agency coordination, dam safety flood routing analysis, hazard classification verification, geotechnical investigation, environmental evaluation, permitting, preliminary designs, construction cost estimates, and an economic analysis. Work on the project is underway and initial coordination with the Forest Service has been slow, but they have shown a willingness to work with the District and the Water Development Office on this Level II feasibility study.

147. PROJECT: Small Water Development Projects

LEVEL: III
SPONSOR: Numerous
LOCATION: Statewide
PROGRAM: New Development/Rehabilitation

Project Name	Date Approved	Account	Expiration
Big Creek Well	04-Mar-16	I	31-Dec-18
Meadow Draw #6	04-Mar-16	I	31-Dec-18
Muddy Creek Check Structure	04-Mar-16	I	31-Dec-18
Bald Mountain Spring	03-Mar-17	I	31-Dec-19
Bull Springs Water Development	03-Mar-17	I	31-Dec-19
Churches Small Water Project	03-Mar-17	I	31-Dec-19
Lower Snake River Ranch State Land Stock Pond	03-Mar-17	I	31-Dec-19
Mill Creek Well and Trough - Roberts	03-Mar-17	I	31-Dec-19
Monument Pasture Water Well 2017	03-Mar-17	I	31-Dec-19
Mountain Home Spring	03-Mar-17	I	31-Dec-19
Muddy Mountain Well Pipeline	03-Mar-17	I	31-Dec-19
Munger Mountain Pasture Stock Tanks	03-Mar-17	I	31-Dec-19
Niger Creek Pond	03-Mar-17	I	31-Dec-19
Purple Sage Flat Top Water Well	03-Mar-17	I	31-Dec-19
Red Wash Wetland Pond #8	03-Mar-17	I	31-Dec-19
Red Wash Wetlands Conveyance, Irrigation Improvements, and Enlargement	03-Mar-17	I	31-Dec-19
Sheehan Ranch Pipeline	03-Mar-17	I	31-Dec-19
Tanner Hill Spring	03-Mar-17	I	31-Dec-19
7E Ranch Diversion #1 and #2	03-Mar-17	II	31-Dec-19
Lowham Stock Reservoir Rehabilitation	03-Mar-17	II	31-Dec-19
Trail Creek Water Control Structure Replacement	03-Mar-17	II	31-Dec-19
6900 Well (Sweetwater County)	16-Mar-18	I	31-Dec-20
Bar X Sheep Co Spring Development and Stock Pipeline (Fremont Co)	16-Mar-18	I	31-Dec-20
Brush Rim #1 Water Well (Sweetwater County)	16-Mar-18	I	31-Dec-20
Brush Rim #2 Water Well (Sweetwater County)	16-Mar-18	I	31-Dec-20
CCC Coal Gulch Stock Pond	16-Mar-18	I	31-Dec-20
Cellers Pasture	16-Mar-18	I	31-Dec-20
Cuin Livestock Pipeline	16-Mar-18	I	31-Dec-20
Dead Cedar Draw Pond	16-Mar-18	I	31-Dec-20
Delaney Rim #1 Water Well (Sweetwater County)	16-Mar-18	I	31-Dec-20
Delaney Rim Stock Water Pipeline (Sweetwater County)	16-Mar-18	I	31-Dec-20
Dexter Peak Extension Pipeline	16-Mar-18	I	31-Dec-20
Duck Well #22	16-Mar-18	I	31-Dec-20
Dump Pasture Well - Montgomery Livestock	16-Mar-18	I	31-Dec-20
Hi-Allen Ranch Livestock Water System	16-Mar-18	I	31-Dec-20
High Point Stock Water Project	16-Mar-18	I	31-Dec-20
Hog Eye Bird Gulch Pasture Well	16-Mar-18	I	31-Dec-20

Project Name	Date Approved	Account	Expiration
IKGA #1G	16-Mar-18	I	31-Dec-20
IKGA #2M	16-Mar-18	I	31-Dec-20
Keenan Stock Water Project	16-Mar-18	I	31-Dec-20
Link Spring	16-Mar-18	I	31-Dec-20
McKee State Stock Pond	16-Mar-18	I	31-Dec-20
McWilliams Stock Water Project	16-Mar-18	I	31-Dec-20
Mesa Mountain Water Pipeline	16-Mar-18	I	31-Dec-20
Muddy Mtn Deep Creek Pasture Stock Ponds	16-Mar-18	I	31-Dec-20
Muddy Spring Pipeline and Troughs	16-Mar-18	I	31-Dec-20
Murdock Well, Pipeline, and Troughs	16-Mar-18	I	31-Dec-20
Myers Ranch Stock Water Ponds	16-Mar-18	I	31-Dec-20
Nelson Sheep Pasture	16-Mar-18	I	31-Dec-20
Pathfinder Mine Water Development	16-Mar-18	I	31-Dec-20
PW Spring Development and Stock Pipeline	16-Mar-18	I	31-Dec-20
R&K Farm Stock Water Pipeline	16-Mar-18	I	31-Dec-20
Red Desert #1 Water Well (Sweetwater County)	16-Mar-18	I	31-Dec-20
Sand Hills Well	16-Mar-18	I	31-Dec-20
Soapstone Stock Well Conversion	16-Mar-18	I	31-Dec-20
South Delaney Rim Stock Water Pipeline (Sweetwater County)	16-Mar-18	I	31-Dec-20
South Fork Cottonwood Creek Stock Reservoir	16-Mar-18	I	31-Dec-20
TC Pond and Irrigation Return Flows	16-Mar-18	I	31-Dec-20
Three Circles Livestock Pipeline	16-Mar-18	I	31-Dec-20
Tipton Allotment Main Stock Water Pipeline (Sweetwater County)	16-Mar-18	I	31-Dec-20
Wild Cow Allotment Water Well	16-Mar-18	I	31-Dec-20
Wild Horse Butte Well	16-Mar-18	I	31-Dec-20
Anderson Howard Ditch	16-Mar-18	II	31-Dec-20
Baggs Livestock Co Irrigation Pipeline	16-Mar-18	II	31-Dec-20
Bee Line Ditch	16-Mar-18	II	31-Dec-20
Central Pipeline Irrigation Improvement	16-Mar-18	II	31-Dec-20
Goforth Reservoir	16-Mar-18	II	31-Dec-20
High Savery Dam Tailwater Restoration	16-Mar-18	II	31-Dec-20
Hog Eye Irrigation Pipeline	16-Mar-18	II	31-Dec-20
Hughes Ditch	16-Mar-18	II	31-Dec-20
Lee Ditch	16-Mar-18	II	31-Dec-20
Little Ranch Irrigation Drainage Rehabilitation	16-Mar-18	II	31-Dec-20
Mexican Grave Allotment Well Equipping Project	16-Mar-18	II	31-Dec-20
Mill Creek Irrigation Improvement	16-Mar-18	II	31-Dec-20
Monolith Irrigation Lateral Rehabilitation	16-Mar-18	II	31-Dec-20
Muddy Creek Duck Pond #2 Spillway Replacement and Dike Repair	16-Mar-18	II	31-Dec-20

Project Name	Date Approved	Account	Expiration
Muddy Creek Duck Pond #3 Spillway Replacement	16-Mar-18	II	31-Dec-20
North and Middle 3-4 Spring Rehabilitations	16-Mar-18	II	31-Dec-20
River Bend Ranch Irrigation and Fish Passage Improvement	16-Mar-18	II	31-Dec-20
Triangle Y Ranch Pipeline	16-Mar-18	II	31-Dec-20

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Small Project	88	2002	I	$ 500,000	
Small Project	118	2004	I	$ 750,000	
Small Project	114	2005	I	$ 500,000	
Small Project	32	2010	I	$ 200,000	
Small Project	14	2011	I	$ 300,000	2014
Small Project	100	2014	I	$ 600,000	2025
Small Project	23	2015	I	$ 500,000	2025
Small Project	55	2016	I	$ 750,000	2025
Small Project	121	2018	I	$ 750,000	2025
Small Project	88	2002	II	$ 500,000	
Small Project	118	2004	II	$ 750,000	
Small Project	114	2005	II	$ 500,000	
Small Project	32	2010	II	$ -200,000	2014
Small Project	100	2014	II	$ 300,000	2025
Small Project	23	2015	II	$ 400,000	2025
Small Project	55	2016	II	$ 300,000	2025
Small Project	121	2018	II	$ 100,000	2025

PROJECT INFORMATION:

Pursuant to W.S. 99-3-1903(k)(vii) and 99-3-1904(m)(vii), a small project is a project where the maximum financial contribution from the WWDC is thirty-five thousand dollars ($35,000.00) or less. Projects may include new development or rehabilitation of small reservoirs, pipelines, wells, windmills, springs, wetland developments, environmental (projects that provide for streambank stability, water quality improvements, and erosion protection), solar platforms, rural community fire suppression, recreation, and irrigation facilities.

Projects must provide a public benefit through mitigation of water quality impairments, enhancement of threatened or endangered species habitat, the development or enhancement of habitat and water for fish and wildlife, increased recreational opportunities, provide water for maintenance of the integrity and vitality of plant and animal communities, serve as instruments to improve rangeland condition, or make beneficial use of water. Also, the Small Water Project Program was extended to July 1, 2025. The following is a list of ongoing projects:

148. **PROJECT:** **South Big Horn County Pipeline**
LEVEL: III
SPONSOR: South Big Horn County Rural Water District
LOCATION: Big Horn County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	206/59/38	1995/1996/1998	I	$ 6,230,000	2003*
Level II	74	2014	I	$ 100,000	2015
Level III	55	2016	I	$ 3,557,700	2021**

*Combined funds that succeeded in building the system that connected the Wild Horse wellfield with rural users in Big Horn County and municipal users in Basin and Manderson.

** 67% grant

PROJECT INFORMATION:

The WWDC completed the South Big Horn County Rural Water District Expansion Level II Study including conceptual plans, cost estimates and financing options for extending regional supply west of Greybull and Basin. The study also completed a Level II approach for extending Big Horn Regional Joint Powers Board water beyond and through inhabited rural areas (Otto) along HWY 30 to the Town of Burlington. The SBHCRWD recently expanded its boundaries to the west to encompass lands and rural users seeking reliable drinking water. This project reaches through the newly annexed area up the Greybull River corridor with approximately 12½ miles of 10-inch and 6-inch transmission line. Incremental growth of the regional service area was foreseen and the project represents the local desire for replacing deficient domestic supplies with reliable and safe drinking water in an expansion up the Greybull River corridor.

The SBHCRWD received a Level III appropriation in 2016 for the design and construction of a transmission pipeline. The project agreement and documents were signed in June 2016. The project was awarded to the lowest bidder in November 2017. Construction began in November 2017, and the project is expected to be completed in the fall of 2018.

149. PROJECT: South Platte River Watershed Study

LEVEL: I
SPONSOR: Laramie County Conservation District
LOCATION: Laramie County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	38	2016	I	$ 395,000	2019

PROJECT INFORMATION:

The Laramie County Conservation District requested a watershed study to evaluate watershed function, the current condition of wetlands and riparian areas within the drainage, and to provide hydro-geologically based recommendations for future groundwater resource utilization and recharge. This information provides baseline data from which the District can pursue implementation of management practices that address the natural resource issues within the drainage.

The South Platte Watershed includes the following sub-watersheds: Cache LaPoudre, Lone Tree Creek, Crow Creek, Lodgepole Creek, and Sidney Draw. Several streams in the headwaters have become polluted leading to their inclusion on the State of Wyoming's 303d list of impaired waterbodies. The study identified opportunities to improve stock watering infrastructure that would assist in improving water quality on the listed streams. Additionally, the dependence on groundwater irrigation in the eastern portion of the county has resulted in significant drawdowns in groundwater levels over the last 40 years. This study provided recommendations for groundwater irrigation reductions to help assist in reversing declining groundwater. The project began in June, 2016 and was completed in the summer of 2018.

150. PROJECT: Sponsor's Contingency Funds-Accounts I and II

LEVEL: III
SPONSOR: Qualifying Level III Sponsors
LOCATION: Statewide
PROGRAM: New Development and Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Sponsor's Contingency	105	2006	I	$ 2,000,000	2025
Sponsor's Contingency	68	2010	I	$ 0[1]	2025
Sponsor's Contingency	14	2012	I	$ 0[1]	2025
Sponsor's Contingency	167	2015	I	$ 0[1]	2025
Sponsor's Contingency	75	2017	I	$ 0[1]	2025
Sponsor's Contingency	105	2006	II	$ 500,000	2025
Sponsor's Contingency	75	2008	II	$ 500,000	2025
Sponsor's Contingency	68	2010	II	$ 0[1]	2025
Sponsor's Contingency	14	2012	II	$ 300,000	2025
Sponsor's Contingency	167	2015	II	$ 500,000	2025†
Sponsor's Contingency	75	2017	II	$ 0[1]	2025

[1] Time Extension Only
† Appropriation increase and time extension.

PROJECT DESCRIPTION:
These funds provide supplemental funding for existing Level III construction projects when construction budgets are insufficient due to inflation and the rapid increase in materials costs. The funds are used after construction bids are received and when it is apparent that there are not enough funds in the existing Level III appropriation to award the project. The availability of these funds allows for the award of the construction contract without delays. The purpose of the fund is to avoid delays and increased project costs. Use of funds in this account must be approved by the WWDC.

151. PROJECT: Squaw Creek Water Supply

LEVEL: III
SPONSOR: Squaw Creek Water District
LOCATION: Teton County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	123	1990	I	$ 35,000	1991
Level II	43	1992	I	$ 250,000	1993
Level II	74	1993	I	$ 300,000	1994
Level III	105	2006	I	$ 177,550	2010*
Level II	32	2010	I	$ 175,000	2013
Level III	23	2015	I	$ 308,200	2020**

Ground Water Exploration Grants: 2004, 2005, 2007 – $125,472.75 Total
*Reverted July 1, 2010
**67% grant

PROJECT INFORMATION:
The Squaw Creek Water District (SQWD) includes approximately 540 acres of land located about seven miles south of the Town of Jackson. The District was first formed in 1981 to take over operation of an existing private spring source and water supply system. There is currently a total of about 80 lots in the service area. In the early 1990's, the WWDC funded an unsuccessful attempt to drill a deep well at Squaw

Creek and ultimately developed two alluvial wells in the Game Creek drainage. Due to deteriorating production from the Game Creek wells and a senior water right limiting use of the spring prompted the District to seek additional source supplies. In 2004, the district received a WWDC Ground Water Exploration Grant for test well drilling. Late in 2005, the district applied for Level III funding to enable them to bring a new well into service. At the time of their application, the new well had not been completed. Unfortunately, the new well was not a good producer and the completion/connection work could not take place.

Re-evaluation of the development of a new well and/or spring source was considered during the 2007 construction season. In August 2007, a budget increase to the Groundwater Grant was made to allow a second attempt at drilling a well. A U.S. Forest Service Special Use Permit was secured for drilling of this second well in October 2009 and the well was drilled in November 2009. Unfortunately, the second well was unsuccessful.

In December 2009, the district, which is at 95% of total build-out, requested consideration of funding a Level II feasibility study to review available alternatives to increase water supply. The 2012 Level II feasibility study reviewed and made recommendations on any/all alternatives to increase the quantity of the district's water source to meet current and future demands. The study included the technical and financial analyses of several alternatives: the redevelopment of the existing spring source, redeveloping existing shallow wells along Game Creek, drilling additional shallow well(s) along Game Creek, purchase of water rights from existing wells in the vicinity of the district, the development of a well in the Flat Creek/Snake River alluvium and deep drilling. Alternatives were narrowed to an examination of a well that serves the county waste transfer station. In June 2012, a 32-hour pump test and down-hole video survey revealed promising aquifer properties at the well site situated about 1 mile from the district boundary. Based on these results, the district requested a continuation of the Level II study in 2013 to include a test well drilling/testing program budget.

In August and September 2013, a test well was drilled on USFS land in the vicinity of Teton County Well No. 1 to determine aquifer properties of the Camp Davis Formation. In a dual completion of the well, pump testing of the till aquifer revealed unsustainable production properties and influence on the county well. The Camp Davis Formation proved to be a low producer based on its poorly sorted-texture and clay matrix composition. Unfortunately, this site was proven not feasible for the District's needs. In September of 2014, test drilling commenced in the Flat Creek alluvium across US HWY 89/191 on Wyoming Game & Fish Wildlife Habitat property, however the alluvial sands and gravels were found to be too shallow to complete a well.

The study therefore concluded in late 2014 with a recommendations to the District to utilize its existing source supplies with best efficient operation practices, reconfigure the Game Creek well system, and add additional storage. In 2015, the Sponsor received a 67% grant in the New Development Program with an appropriation of $308,200. The project is complete.

152. **PROJECT:** **State Line Canal Diversion**

LEVEL: III
SPONSOR: Savery-Little Snake River Water Conservancy District
LOCATION: Carbon County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	100	2014	II	$ 750,000	2019*

*67% grant, 33% loan

PROJECT INFORMATION:
The District requested funds in 2013 for the reconstruction of the State Line Canal Diversion structure on the Little Snake River. The Legislature awarded the District $750,000 for the project in the form of a 67% grant and a 33% loan. The District elected not to take the loan portion.

The District is supplying all engineering services for this project. At this time, the diversion structure is complete and in operation. The remaining portion of the project, which included some modifications upstream of the structure, are on hold pending additional funds. The District completed this project in 2018.

153. PROJECT: State Water Plan

LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Statewide
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
State Plan	1	1996	N/A	N/A	1996
Aerial Photo	1	1996	I	$ 250,000	1998
State Plan	46	1997	I	$ 250,000	1998
Basin Plan	30	1998	I	$ 250,000	2000
State Water Plan	81	1999	I	$1,435,000	2001
State Water Plan	36	2000	I	$ 800,000	2002
State Water Plan	86	2001	I	$1,550,000	2003
State Water Plan	125	2003	I	$ 600,000	2006
Framework Water Plan	75	2005	I	$ 500,000	2007
State Water Plan	85	2007	I	$ 600,000	2008
Wind/Bighorn Basin	33	2008	I	$ 500,000	2010
Green River DSS	66	2009	I	$ 250,000	2010
Platte River Basin GW	66	2009	I	$ 250,000	2010
Rec/Env. Study	32	2010	I	$ 75,000	2012
Bear River Basin GW	32	2010	I	$ 175,000	2012
Snake/Salt Basin GW	1	2011	I	$ 250,000	2014
Platte Basin Update	74	2014	I	$ 350,000	2016
Powder/Tongue and Northeast Basin Update	168	2015	I	$ 375,000	2018
Powder/Tongue and Northeast GW	168	2015	I	$ 275,000	2018
Basin Planning: Environmental and Recreational Use Study	38	2016	I	$ 100,000	2019
Bear River Data Model Pilot Study	38	2016	I	$ 120,000	2019
GIS Data Model Implementation	94	2018	I	$ 115,000	2021
NHD Plus HR and StreamStats	94	2018	I	$ 240,000	2021
Water Supply Index	94	2018	I	$ 170,000	2021

PROJECT INFORMATION:
In 1996, the Wyoming Legislature directed the Wyoming Water Development Commission (WWDC) and the State Engineer's Office (SEO) to develop a proposal for updating the state's Framework Water

Plan. WWDC and the SEO prepared and submitted a proposal for updating the 1973 Framework Water Plan and for establishing a state wide planning process to the Governor and the Select Water Committee in October of 1996. During the 1997 Legislative Session, $250,000 was appropriated from Water Development Account I enabling a feasibility study to determine the costs and methods of implementing a new water planning process. The study concluded that a plan for the seven major river basins should be developed, and that a water planning website should be developed to present the data.

During 1997 and 1998, the WWDC undertook a pilot study in the Bear River Basin to test data collection, information dissemination, and presentation methods. A coordination process was developed to present information on the Statewide Water Planning Process and to obtain input from interested parties. The group of citizens and officials assembled as part of the planning process was named the Basin Advisory Group. The Basin Advisory Group coordination process was implemented in each basin to gain input from individuals, private interest groups, and local, state, and federal agencies.

Following authorization by the 1999 Legislature, the WWDC formally established a River Basin Planning section to implement the Statewide Water Planning Process. The state was divided into seven major river basins for study: Bear, Green, Powder/Tongue, Northeast, Wind/Bighorn, Snake/Salt, and the Platte. The culmination of the seven basin planning efforts lead to the development of the Framework Water Plan which aggregates all of the information from each basin plan into one major document. Following the Framework Water Plan, the individual Basin Plans were targeted for updates. It is the intent of River Basin Planning to keep the basin plans updated so the data is current while remaining dynamic to include the study of new issues and gather/develop new pertinent data for the State. In addition to basin plans, there are other studies that were done as part of River Basin planning. These studies are developed where information is required and to focus on more specific issues that basin planning can help to identify and solve.

River Basin Plans are designed to collect large amounts of data and create data where needed. Examples of work products that were created are hydrologic models, irrigated lands mapping, population projections, and current water use and future water use for all categories of users.

In 2018, the WWDO's River Basin Planning efforts were launched in a new direction, to include refining river basin planning. With that, appropriations were received for three projects: the GIS Data Model Implementation, NHD Plus HR and StreamStats, and the Water Supply Index. Please see the project listing under "Other" for a brief summary of these projects. Following are summaries for each Basin Plan, Groundwater Plan, the Framework Water Plan, and other river basin planning studies:

Bear River Basin
1999 – Legislature authorized the first Bear River Basin Plan which was completed in 2001.
2010 – Legislature authorized the Bear River Groundwater Study which was completed in 2014.
2012 – A staff planning team from the WWDO, SEO and the University of Wyoming, Water Resources Data System (WRDS) offices completed an update of the Bear River Basin Plan.

Green River Basin
1999 - Legislature authorized the first Green River Basin Plan which was completed in 2001.
2007 - Legislature authorized the Green River Basin Plan Update and the Green River Basin Groundwater Plan. Both were completed in 2010.

Powder/Tongue River Basin
2000 - Legislature authorized the Powder/Tongue River Basin Plan which was completed in 2002.
2015 – Legislature authorized the Powder/Tongue and Northeast River Basin Plan Update (see Powder/Tongue Northeast River Basin Plan Update) and the Powder/Tongue and Northeast and Groundwater Analysis (see Powder/Tongue Northeast Groundwater Analysis).

Northeast River Basin
2000 - Legislature authorized the Northeast River Basin Plan which was completed in 2002.
2015 – Legislature authorized the Powder/Tongue and Northeast River Basin Plan Update (see Powder/Tongue Northeast River Basin Plan Update) and the Powder/Tongue and Northeast and Groundwater Analysis (see Powder/Tongue Northeast Groundwater Analysis).

Wind/Bighorn River Basin
2001 – Legislature authorized the Wind/Bighorn River Basin Plan which was completed in 2003.
2008 – Legislature authorized the Wind/Bighorn River Basin Plan Update and the Groundwater Plan. The Basin plan was completed in 2010, and the groundwater plan was completed in 2011.

Snake/Salt River Basin
2001 – Legislature authorized the Snake/Salt River Basin Plan which was completed in 2003.
2011 – Legislature authorized the Snake/Salt River Basin – Groundwater Analysis. The study was completed in 2014.
2014 - A staff planning team from the WWDO, SEO and the University of Wyoming, Water Resources Data System (WRDS) offices completed an update of the Snake/Salt River Basin Plan.

Platte River Basin
2003 – Legislature authorized the Platte River Basin Plan in 2003 which was completed in 2006.
2009 – Legislature authorized the Platte River Basin Groundwater study which was completed in the spring of 2014.
2014 – Legislature authorized the Platte River Basin Plan Update. (See Platte River Basin Plan Update)

Framework Water Plan
2005 – Legislature authorized the Framework Water Plan. The Plan was initiated in June 2006, and included a summary of the seven river basin plans and a projection of future demands. The Framework was completed in 2007.

Other
2009 – Legislature authorized the Green River Decision Support System Feasibility Study. This study determined the feasibility for the development of a decision support system (DSS) in the Green River Basin. The DSS consists of extensive databases and water right's allocation, and consumptive use models.
2010 – Legislature authorized the Recreation and Environmental Study. The study assisted the Office in developing methodologies to define environmental and recreational water demands and benefits, and to incorporate this information in the river basin planning. The study was completed in 2011.
2016 – Legislature authorized the Basin Planning: Environmental and Recreational Use Study in the Bear, Green and Wind/Bighorn Basins (see Basin Planning: Environmental and Recreational Use Study) and the Bear River Data Model Pilot Study to be performed under the Statewide Water Planning effort. For a detailed description of these projects, please refer to the titles, listed in this report.
2018 – Legislature authorized River Basin Planning - GIS Data Model Implementation, River Basin Planning - NHD Plus HR and StreamStats and River Basin Planning - Water Supply Index to be performed under the Statewide Water Planning effort. For a detailed description of these projects, please refer to the titles, listed in this report.

154. **PROJECT:** **Stateline Dam Enlargement**
LEVEL: II
SPONSOR: Bridger Valley Water Conservancy District
LOCATION: South of WY state line in Utah
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	65	2017	III	$ 300,000	2022

PROJECT INFORMATION:

In 2016, the Bridger Valley Water Conservancy District (District) proposed to sponsor a Level II Study to continue analyzing the feasibility associated with an enlargement of Stateline Dam. The facility has a total adjudicated storage capacity of 13,990 acre-feet and is part of the U.S. Department of Interior, Bureau of Reclamation's (Reclamation) "Lyman Project." Stateline Dam is one of two storage facilities operated by the District and owned by Reclamation. The District also operates Meeks Cabin Dam which is located just west of Stateline Dam north of the Utah-Wyoming state line.

During the 2015 General Session, $600,000 was appropriated for feasibility study, sponsored by the District, to analyze the enlargement of Meeks Cabin Dam. As previously approved by the WWDC, approximately half of this appropriation ($293,500) was used under a typical WWDO contract to conduct a Level II, Phase I Feasibility Study in which to perform hydrologic modeling, conservation and screening analysis, alternatives analysis, environmental analysis, preliminary geotechnical analysis, and economics analysis. The Level II, Phase I was a broad-based approach to determine if any fatal flaws exist that would halt the progress of an enlargement to the dam. The study was completed and the District was presented with project findings. The remaining 2015 appropriation was reserved to seek technical assistance from Reclamation to further consider enlarging Meeks Cabin Dam. This technical assistance with Reclamation is now underway and is expected to be completed by the end of 2018.

As stated, one component of the Meeks Cabin Level II, Phase I study was an alternatives analysis. Therefore, to satisfy potential NEPA related questions, alternatives to the enlargement of Meeks Cabin Dam were considered to determine the best alternative from a federal permitting and multiple purpose perspective to serve the needs of the District. One such alternative was the enlargement of Stateline Dam. Results of the Meeks Cabin Level II study show an enlargement of Meeks Cabin Dam to be the preferred alternative, but also that an enlargement of Stateline Dam could further reduce shortages within the District as it is able to serve additional lands that Meeks Cabin cannot.

Therefore, during the 2017 General Session, $300,000 was appropriated to seek technical assistance from Reclamation to further consider enlarging Stateline Dam and keep this project on track with the Meeks Cabin Dam Enlargement project. The technical assistance with Reclamation is now underway as Task Order 2017-2 under the existing Technical Service Agreement 15-WC-40-559. The task order will further refine the feasibility of enlarging the facility and includes Project Management, Preliminary Design, Preliminary Risk Analysis, Value Planning Study, and Appraisal Level Alternatives tasks; all of which are requirements to modify a Reclamation owned facility. Scheduling conflicts and workload distribution within Reclamation delayed the start of this task order from its original schedule and have pushed the completion date from fall 2018 to sometime mid-2019. The first Risk Analysis meeting has been completed and Reclamation is in the process of developing preliminary designs and construction cost estimates. The District has been kept up to date with project developments and will be presented with project results when the study is complete in 2019. If project results are favorable, the next steps could be to continue developing the feasibility of the project through another Task Order with Reclamation. The subsequent Task Order would include design data collection, a feasibility level design package, NEPA compliance, water rights and hydrologic analysis, and value engineering.

155. PROJECT: Statewide Water Research

LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Statewide
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	30	1998	I	$ 41,584	2000
Level I	36	2000	I	$140,000	2002
Level I	86	2001	II	$140,000	2002
Level I	7	2002	I	$200,000	2004
Level I	125	2003	I	$200,000	2004
Level I	31	2004	I	$200,000	2006
Level I	75	2005	I	$200,000	2006
Level I	99	2006	I	$300,000	2008
Level I	85	2007	I	$300,000	2008
Level I	33	2008	I	$300,000	2010
Level I	66	2009	I	$300,000	2010
Level I	32	2010	I	$300,000	2012
Level I	1	2011	I	$300,000	2012
Level I	57	2012	I	$400,000	2014
Level I	66	2013	I	$400,000	2014
Level I	74	2014	I	$319,000	2017
Level I	168	2015	I	$397,338	2018
Level I	38	2016	I	$311,328	2019
Level I	65	2017	I	$384,529	2020
Level I	94	2018	I	$285,150	2021

PROJECT INFORMATION:

The University of Wyoming's Office of Water Programs annually solicits Wyoming stakeholders to identify areas of needed water research to be conducted by the University. The Advisory Committee, made up of federal and state agency representatives, prioritizes these topics in concert with the Wyoming Water Development Commission and Legislative Select Water Committee and issues a request for proposals to address these areas of concern. From these requests, proposals are ranked by the Advisory Committee based on peer-reviewed selection criteria. The WWDC and SWC then select projects for funding, with Wyoming Water Development Commission funds being augmented with those from the United States Geological Survey (USGS) and the University of Wyoming. The USGS's annual appropriation is approximately $100,000. Research projects in process are listed below:

- Treatment of Produced Water and Rare Earth Element Resources Cost-Offset, Wyoming
- Recycling Co-Produced Water in the Energy Industry for Economic Development
- Numerical Simulations of the Impact of Cloud Seeding in the Wind River Range on Precipitation, Snowpack and Streamflow
- Developing a Framework for Estimating Groundwater Connections to Wyoming Reservoirs
- Economic Assessment of Alternative Groundwater Management Strategies in Laramie County
- Produced Water Treatment with Smart Material for Reuse in Energy Exploration
- Groundwater Modeling of the Casper Aquifer, Belvoir Ranch, Wyoming
- A New Multifunctional Sorbent for the Treatment of Co-Produced Water from the Energy Industry

156. **PROJECT:** **Sundance PRV Improvements 2016**

LEVEL: III
SPONSOR: City of Sundance
LOCATION: Crook County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	57	2012	I	$ 150,000	2015
Level II	74	2014	I	$ 183,000	2017
Level III	55	2016	I	$ 137,350	2021*

* 67% grant

PROJECT INFORMATION:
The August 2015, Level II Sundance Water System Feasibility final report recommended this Level III construction project. The Sundance PRV Improvements project was designed to upsize three pressure relief valves (PRVs) in the City of Sundance to improve fire flows throughout the water system. The PRVs that were up-sized are the East, West, and 585 pressure reducing stations.
The project was competed and closed out in the spring of 2018.

157. PROJECT: Sundance Tank 2018

LEVEL: III
SPONSOR: City of Sundance
LOCATION: Crook County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	57	2012	I	$ 150,000	2015
Level II	74	2014	I	$ 183,000	2017
Level III	121	2018	I	$ 722,930	2023*

*67% grant

PROJECT INFORMATION:
The August 31, 2015, Level II Sundance Water System Reconnaissance final report recommended this Level III construction project. The Canyon (40,000 gallon) and Brewer (40,000 gallons) Tanks are reaching their life expectancy and the Town of Sundance has experienced leaks along with erosion and malfunctions of the existing tanks.

The new tank will replace the Canyon and Brewer tanks with a total capacity of 100,000 gallons to provide water to the Sundance West subdivision. Along with the design and construction of the 100,000-gallon tank, the project will also include the design and construction of piping, pump upsizing, and a PRV. The project is in the design phase and is expected to go to construction the fall of 2019.

158. PROJECT: Sundance Transmission Pipeline 2016

LEVEL: III
SPONSOR: City of Sundance
LOCATION: Crook County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	57	2012	I	$ 150,000	2015
Level II	74	2014	I	$ 183,000	2017
Level III	55	2016	I	$ 713,550	2021*

* 67% grant

PROJECT INFORMATION:
The August 31, 2015, Level I Sundance Water System Reconnaissance final report recommended this Level III construction project and the City listed this project as their number one priority. This construction project is designed to construct a larger diameter transmission pipeline of 12-inch PVC pipe to improve fire flows throughout the system and especially to the new elementary school. The project was completed and closed out in the spring of 2018.

159. PROJECT: Sunlight Basin Instream Flows

LEVEL: I
SPONSOR: WWDO
LOCATION: Sunlight Basin north of Cody, Wind/Bighorn Basin, Wyoming
PROGRAM: Instream Flow Studies

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation[1]	Due Date[2]
Level I	31	2016	I	$ 47,460	2019

1. Appropriation refers to contract amount.
2. Due Date refers contract expiration year.

PROJECT INFORMATION:
The Wyoming Game and Fish Department (WGFD) identified three stream reaches within the Sunlight Basin north of Cody where instream flows are critical and unappropriated surface water appears available. The first segment is on Muddy Creek, and its watershed (HUC12 100700060301) encompasses approximately 35.5 square miles. The second segment is on Crandall Creek, and its watershed (HUC10 1007000602) encompasses approximately 35.5 square miles. The third segment is on Dead Indian Creek, and its watershed (HUC12 100700060304) encompasses approximately 61.7 square miles. All segments are located in Park County and are tributaries to the Clarks Fork River.

WGFD conducted field studies and prepared a biological report that identified the minimum amount of water necessary to maintain or improve existing fisheries. A water right application was prepared with the Wyoming Water Development Commission (WWDC) as the applicant. The application was submitted to the State Engineer's Office. The date that the application was accepted established the priority date of the water right. Per Wyoming Statute 41-3-1004 (a), the WWDC is then charged to produce an instream flow study to determine whether or not unappropriated water is available to support flows requested by the WGFD:

> *Immediately after permits have been applied for under W.S. 41-3-1003 (c), the water development commission shall determine the feasibility of providing instream flows for the recommended segments of streams from unappropriated direct flows or from existing storage facilities or from new facilities.*

The WWDC contracted with an engineering consultant to complete this hydrology study on the availability of unappropriated water to meet the water rights application requested flows. Primary tasks conducted during the study include: a water rights inventory; compilation of flow, diversion, and storage records; installation of gaging sites and flow measurements; hydrology and unappropriated flow analyses; and, a daily flow exceedance analysis. Upon completion of this study, the WWDC will submit the final report to the State Engineer's Office (SEO). The State Engineer then uses the report findings, along with WGFD biological report and public comment, to issue an instream flow permit.

This project was initiated with a Notice to Proceed issued on June 23, 2017. Work performed thus far by the consultant includes the installation of gaging sites and flow measurements, compilation of water right records, hydrologic and exceedance data analyses, and composition of the draft report of findings. This

project is on schedule and on budget with draft and final reports expected by November and December, 2018, respectively.

160. **PROJECT:** **Sweetwater Water Supply**
LEVEL: III
SPONSORS: Sweetwater Improvement & Service District
LOCATION: Weston County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$ 100,000	2010
Level II	1	2011	I	$ 125,000	2014
Level III	23	2015	I	$ 562,800	2020*

*67% grant

PROJECT INFORMATION:
A potential health hazard exists to the residents of the Sweetwater Improvement and Service District. Their water source is exposed to potential contamination from surface run-off and impacts from wildlife and livestock. The presence of total coliform was detected in the summer of 2008. The District needs a secure water supply to protect the health of the residents. The WWDC has completed a Level I study for Sweetwater Improvement and Service District which concluded that Sweetwater should obtain water from Newcastle through the Cambria Improvement & Service District water system. The new pipeline to connect the Sweetwater water system to the Cambria water system has been constructed and is awaiting the completion of the Cambria system upgrades.

161. **PROJECT:** **Thayne Tank 2017**
LEVEL: III
SPONSOR: Town of Thayne
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	8	1995	I	$ 50,000	1996
Level II	15	1996	I	$ 250,000	1998
Level III	38	1998	I	$ 850,000	2002
Level I	32	2010	I	$ 85,000	2013
Level III	75	2017	I	$ 589,600	2022*

*67% grant

PROJECT INFORMATION:
In 2016, the Town of Thayne applied for Level III funding to construct a new 300,000-gallon water storage tank and to rehabilitate their existing water storage tank as part of the project. The rehabilitation work on the existing water storage tank is not considered WWDC eligible. The Town's existing water storage tank is in poor condition and the Town is short on storage capacity based on DEQ water storage requirements.

In 2017 the Legislature approved the project be incorporated into the New Development program at Level III status with an appropriation of $589,600. The appropriation is a 67% grant for design and construction

costs with the Sponsor being responsible for 33% of the project budget from other funding sources. The project reached its 90% design milestone in August 2018. The project is expected to be bid in the winter of 2018 or spring of 2019. The completion of the project is anticipated to be in the fall of 2019.

162. **PROJECT:** **Thermopolis Pipeline Replacement 2017**
LEVEL: III
SPONSOR: Town of Thermopolis
LOCATION: Hot Springs County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	74	2014	I	$ 135,000	2015
Level III	75	2017	II	$ 1,545,200	2022*

*67% grant

PROJECT INFORMATION:
In 2014, the Town received WWDC funding to conduct a master plan study. The master plan was completed in 2015. The Town has an aging water treatment plant and distribution infrastructure that was evaluated for upgrade/replacement. The Town's primary limiting factor for water delivery is the age of the transmission/distribution system. Flow rates must be reduced to avoid over-pressurization of the transmission/distribution system resulting in breaks and leaks. An additional limiting factor is the capacity of the water treatment plant, particularly the filter beds.

The project was identified during the 2014 WWDC funded master plan study. The project consists of replacing several transmission main sections of asbestos cement pipe with PVC. This section of transmission line runs from the water treatment plant to the Sponsor's storage tanks, and through downtown Thermopolis. The project includes a small portion of distribution line that would be funded by the Sponsor.

In 2017, the Sponsor received grant funds from the Rehabilitation program in the amount of $1,545,200. This amount is for a 67% grant of the project eligible costs. The remaining project funds will be provided by the Sponsor. During 2017, the Sponsor secured the services of Engineer, completed the design process and secured the necessary permits and easements. The Project was bid and awarded in early 2018. The project is currently under construction and is anticipated to be completed in late 2018.

163. **PROJECT:** **University of Wyoming Irrigation Water Supply**
LEVEL: II
SPONSOR: University of Wyoming
LOCATION: Albany County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	38	2016	I	$ 270,000	2019

PROJECT INFORMATION:
In accordance with the 2015 Session of the 63rd Legislature of the State of Wyoming, Enrolled Act No. 56, the University of Wyoming sought WWDC funds to develop non-potable sources of groundwater for irrigating the Red Jacoby Golf Course. The golf course irrigates approximately 138 acres solely with treated, potable water purchased from the City of Laramie. Golf course irrigation uses approximately 63 million gallons per year and usage may exceed 75 million gallons during dry years. The University believed the benefits of completion of such a Level II study would lead to a reduction in the use of potable

water for irrigation, a reduction in man-hours to operate and maintain the golf course, a better financial outlook for the golf course operation, and better turf quality.

The 2016 Wyoming State Legislature funded this Level II study with an appropriation of $270,000. The July-September 2016 geophysical investigation identified several potential target areas for well construction east of the golf course and one site was selected for the construction of the test/production well. The hydrogeological interference opinion technical memorandum was completed on October 25, 2016. The drilling and construction of a 756-foot deep, Casper Aquifer test/production well (Well JRA-1) was accomplished in November/December 2016.

Subsequent testing indicated the test well would yield approximately 75 gpm and this yield was insufficient to utilize the well for irrigation purposes for the golf course. The well was capped and locked on January 11, 2017. This Casper test well remains available for use as a monitoring well by the University. This Level II study is now complete with the final report, executive summary, and project deliverables submitted in February, 2018. At the May, 2018 WWDC Meeting, the Commission took formal action to terminate further consideration of the project.

164. PROJECT: Weather Modification Bighorn, Laramie, Medicine Bow and Sierra Madre Mountains-2016

LEVEL: III
SPONSOR: State of Wyoming
LOCATION: Bighorn, Laramie, Medicine Bow and Sierra Madre Ranges
Albany, Big Horn, Carbon, Converse, Johnson, Laramie, Platte, Natrona, Sheridan, and Washakie Counties
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	I	$ 100,000	2006
Level II	75	2005	I	$8,825,000	2011
Level II	32	2010	I	$2,850,000	2013
Level II	57	2012	I	$2,400,000	2015
Level III	23	2015	I	$1,447,500	2020

PROJECT INFORMATION:
Building on the findings of the Wyoming Weather Modification Pilot Program (WWMPP) which showed an accumulation of evidence from the statistical, modeling, and physical analysis and suggested a positive seeding effect on the order of 5 to 15%, the Legislative Select Water Committee (SWC) put forth this Level III project to "jumpstart" the transition from research to operational cloud seeding programs in the Medicine Bow/Sierra Madre (MBSM), Big Horn and Laramie Ranges. Interest in weather modification operations in these later two ranges represented new areas not previously studied, and as such, required the preparatory work necessary to lay a foundation for an operational program in those target areas. Conceptual design and siting feasibility studies for these areas were completed. Final reports that discuss each target area's climatology, hydrology, permit procurement, project land procurement, evaluation of seeding agent delivery systems, procurement of generators, and operational costs were completed and may be found on the WWDO website.

Pursuant to W.S. 41-2-114(b)(iii), public hearings presenting the draft results for each study were held. A public hearing for the Bighorn Mountains was held in Sheridan, WY on August 15, 2016 and Worland, WY on August 17, 2016. Public hearings for the Laramie Range were held in Douglas, WY (early afternoon), and Wheatland, WY (evening) on August 18, 2016. During the course of the presentation, the consultants provided clarification and answered technical questions posed by the audience regarding the study results.

With respect to the Medicine Bow and Sierra Madre Ranges where the randomized statistical experiment portion of the WWMPP took place, and for which a rich dataset of information exists, a final design and permitting study was completed which provided recommendations regarding the operational design to be deployed, including the method of seeding agent delivery (ground and/or airborne), the siting and ownership of generators, operational and institutional constraints, and a benefit/cost analysis. A public hearing presenting the results of this study was held in Saratoga, WY on July 11, 2017. With the results of the operational design including placing ground-based generators on federal, state and private lands, and the associated permitting process grinding to a crawl, the viability of implementing a stand-alone airborne program was also investigated to keep the project moving forward in these ranges. To this end, an operational cloud seeding program is anticipated over the Medicine Bow and Sierra Madre Mountain Ranges for the winter of 2018-19.

In an effort to augment the supply of water available for use in the North Platte River, Phase I of the program will include airborne cloud seeding over the Medicine Bow and Sierra Madre Mountain Ranges. A Phase II to this program will include a partnership with the Jackson County (CO) Water Conservancy District (JCWCD), extending cloud seeding opportunities over the Never Summer Mountains in northern Colorado's Upper North Platte Basin as a secondary priority, funded by the JCWCD. Such snowpack augmentation is anticipated to increase water supply within both the North Platte River Basin and Colorado River Basin. Program operations are anticipated to begin on November 15, 2018 and continue through March 31, 2019, barring any early program suspension. A high-performing Beechcraft King Air C90A aircraft will be used for the program, and all cloud seeding flights will be based out of the Cheyenne Regional Airport. Meteorological and flight crew expertise will be utilized for all decision-making support. A final report and detailed summary of these operations is expected to be completed by October, 2019.

165. PROJECT: Weather Modification Wind River Mountains 2018

LEVEL: III
SPONSOR: State of Wyoming
LOCATION: Wind River Mountain Range
Fremont and Sublette Counties
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	100	2014	I	$ 240,000	2015
Level III	23	2015	I	$ 170,000	2017
Level III	55	2016	I	$ 160,000	2018
Level III	75	2017	I	$ 155,000	2019

PROJECT INFORMATION:

Cloud seeding operations targeting the Wind River Mountain Range in west-central Wyoming, for the winter of 2017-2018, commenced on December 8, 2017 and ended on March 31, 2018. Wyoming's 25% share of the funds necessary to run the program were appropriated by the 2017 Wyoming State Legislature through the passage of the "2017 Omnibus Water Bill – Construction". The effort targeting the Wind River Mountain Range included the following Lower Colorado River Basin funding partners: the Central Arizona Water Conservation District, the Colorado River Board of California - Six Agency Committee, and the Southern Nevada Water Authority.

The same ten ground-based ice nucleus generators (ground-based generators) that were employed during the preceding 2016-2017 season were deployed for the 2017-2018 season. Nine generators were sited on the west, southwest, and southern flanks of the range. The tenth generator was sited on the southeastern flank, southwest of Lander. As would be expected based on the ground generator locations, the majority of seeding was conducted when winds were oriented from the west or southwest. Typically, a number of

seeding events usually occur early or late in the season when winds are easterly, supporting the activation of the single ground generator near Lander (Enterprise). This occurred twice during the 2017-2018 season.

During the season, operations were conducted twenty-four hours a day, seven days a week. There were a total of 18 seeding events during the season (December – 5, January – 3, February – 5, March – 5).

The bulk of the weather information used for forecasting and weather monitoring was obtained from the internet (e.g., RAP Real-Time Weather, the National Center for Environmental Prediction, the College of DuPage, and Unisys) and vendor in-house modeling. The requisite temperature and wind criteria necessary to initiate seeding operations were confirmed through the release of weather balloons, and the presence of li
quid water was established by a real-time data feed from a radiometer sited near the target area.

166. **PROJECT:** **Weather Modification Wind River Mountains 2019**
LEVEL: III
SPONSOR: State of Wyoming
LOCATION: Wind River Mountain Range
Fremont and Sublette Counties
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	100	2014	I	$ 240,000	2015
Level III	23	2015	I	$ 170,000	2017
Level III	55	2016	I	$ 160,000	2018
Level III	75	2017	I	$ 155,000	2019
Level III	121	2018	I	$ 106,000	2020

PROJECT INFORMATION:
Cloud seeding operations targeting the Wind River Mountain Range in west-central Wyoming, for the winter of 2018-2019, is scheduled to commence on December 1, 2018. Barring early suspension, the program will conclude on March 31, 2019. Wyoming's 20% share of the funds necessary to run the program were appropriated by the 2018 Wyoming State Legislature through the passage of the "2018 Omnibus Water Bill – Construction". The current effort targeting the Wind River Mountain Range includes the following Lower Colorado River Basin funding partners: the Central Arizona Water Conservation District, the Colorado River Board of California - Six Agency Committee, and the Southern Nevada Water Authority, and the following local funding partners: Genesis Alkalai and Solvay Chemicals. Additional funding is anticipated from the following local partners: Ciner Wyoming, TATA Chemicals and Rocky Mountain Power Company.

The Colorado River Basin Water Supply and Demand Study (2012) defined current and future imbalances in water supply and demand in the Colorado River Basin and the adjacent areas of the Basin States that receive Colorado River water for approximately the next 50 years, and developed and analyzed adaptation and mitigation strategies to resolve those imbalances (USBR). The watershed management concept in the study featured cloud seeding as a strategy to increase snowfall in mountainous regions and noted that earlier studies have concluded that the potential exists to generate a maximum of 1,700,000 acre-feet per year additional runoff in the Basin.

Cloud seeding operations in the Wind River Mountain Range for the winter of 2018-2019 represent the continuation of an operational program focused on snowpack augmentation in the target area as part of a larger strategy for flow augmentation in the Colorado River Basin. **It should be noted that no water ownership is implied by this participation, nor is there any expectation of a specific amount of water**

being delivered downstream, and any additional precipitation and subsequent stream flow that is produced through the program is treated as a natural event, and subject to Wyoming Water Law.

Throughout the 2018-2019 cloud seeding season, the operations contractor will prepare operational forecasts, release soundings, maintain the equipment, and conduct the seeding operations through ten, leased ground-based generators. Such operations may increase runoff during Water Year 2019 in the Green, Wind/Big Horn and Platte River Basins.

167. PROJECT: West Fork Reservoir (Little Snake Supplemental Storage)

LEVEL: II
SPONSOR: Savery-Little Snake River Water Conservancy District
LOCATION: Carbon County
PROGRAM: Dams and Reservoirs

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	33	2008	III	$ 250,000	2010
Level II	32	2010	III	$ 300,000	2012
Level II	66	2013	III	$ 7,000,000	2016
Level II	66	2013	III	$ (6,220,000)	2016
Level II	65	2017	III	$ 6,220,000	2022
Level III	121	2018	III	$ 4,698,000	2021

PROJECT INFORMATION:

In 2007, the Savery-Little Snake River Water Conservancy District (District) and the Little Snake River Conservation District requested an appropriation of $15 million for Level III funding to finance construction of a dam and reservoir to provide supplemental late season irrigation water to lands within the Little Snake River Basin. The request was in response to the unmet demand for supplemental irrigation water in the Little Snake River Basin. However, the WWDC recommended embarking upon a Level II program.

In 2008, the District sponsored the Little Snake River Supplemental Storage feasibility analysis which was carried out to identify location and timing of irrigation shortages, determine purpose and need for storage within the Little Snake River Basin, and to analyze storage alternatives. Considering the shortage reductions resulting from the High Savery Reservoir project, alternatives analysis concentrated on smaller storage sites to further reduce the remaining shortages. The identification and screening of thirteen alternatives clearly indicated that one site, West Fork Battle Creek, was the best alternative from a federal permitting and multiple purpose perspective to serve the needs of the District.

In 2010, additional analysis was undertaken to refine the project to the status necessary to advance to permitting and design. During this time it was determined that the project was feasible, but it became apparent that the one of the reservoir's major supply tributaries, Haggarty Creek would require additional data collection for the NEPA permitting process to be completed. The West Fork Battle Creek site is located approximately 7 miles downstream of the inactive Ferris-Haggarty Mine. This mine has impacted stream ecology for over 100 years by discharging copper laden water to Haggarty Creek. Although copper presented significant challenges for the project to overcome, it also presented opportunities for environmental benefits. Furthermore, as eluded to, from wetland, terrestrial wildlife, fishery, sensitive plant species, and cultural perspectives, erecting a dam on the West Fork Battle Creek site, when compared to other potential sites, exhibited the least adverse environmental impact.

In 2013, an appropriation for $7,000,000 was granted by the Legislature to complete water quality analysis, update hydrologic modeling with temporary stream gauging, procure NEPA liaison services,

and complete permitting and final design. Hydrologic modeling has been updated and refined with additional data, resulting in estimated average annual irrigation shortages in the West Fork Battle Creek service area of 3,600 acre-feet and much higher in some years. A series of water quality and sediment samples have been collected and analyzed, compared against historic water quality data, as well as discussed at length with WYDEQ. Results indicate that post-project conditions will be equal to or better than current water quality conditions experienced in Haggarty Creek, therefore confirming the feasibility in moving forward with permitting and design of the West Fork Battle Creek Reservoir site. The 2013 appropriation not obligated by contract (approx. $6.22M) reverted to Water Development Account III in 2016 and was subsequently re-appropriated in 2017.

An economic analysis of the project indicates a benefit-cost ratio of 1.2. Furthermore, the public benefit for the life of the project would justify a 90%+ grant, making West Fork Reservoir affordable for the District. A land exchange with the U.S. Forest Service is the logical next step and will likely require Federal legislation. In 2018, a request was made to the Legislature to appropriate $40M of the $73M required for project construction. The appropriation was to provide credibility to the federal legislation and offer the most expeditious path forward once the transaction is complete. A portion of the request ($4.698M) was appropriated to identify, investigate, and acquire suitable lands for the purpose of an exchange of lands with the federal government. Special conditions attached to the appropriation stated; 1) Funds shall not be expended until the project sponsor and the Wyoming Water Development Commission have secured additional funding commitments from project beneficiaries in both Wyoming and Colorado on a pro rata basis. 2) Funds from this appropriation shall not be expended until the expenditure is approved by the legislature. Discussions with State of Colorado officials have been initiated to describe the project as well as the benefits that accrue to lands within both states. All entities have expressed support for additional storage in the Little Snake/Yampa River drainages and support for the West Fork project. However, a mechanism for cost sharing has not been identified, generated or executed at this time.

Construction of West Fork Dam and Reservoir will provide supplemental late season irrigation water to lands within the Little Snake River Basin which includes lands in both Wyoming and Colorado. At the same time this project will provide secondary environmental benefits to the watershed. The 10,000 acre-foot reservoir could have a 6,500 acre-foot active irrigation account, 2,000 acre-foot conservation pool, and a 1,500 acre-foot minimum streamflow bypass account. Managing the new reservoir in conjunction with the existing High Savery Reservoir would have benefits throughout the Basin.

168. PROJECT: Wheatland Irrigation District Rehabilitation 2015

LEVEL: III
SPONSOR: Wheatland Irrigation District
LOCATION: Platte County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	II	$ 300,000	2010
Level III	63	2011	II	$ 723,600	2016*
Level III	23	2015	II	$ 874,350	2020*

*67% grant

PROJECT INFORMATION:
Wheatland Irrigation District serves 54,180 acres with a conveyance system from Sand Lake above Arlington to points east of Wheatland. The district has looked at major problem areas in their district and, with the help of the WWDC, has upgraded portions of their system. The district is ready to implement additional water conservation upgrades. The 2009 Level I master plan identified and prioritized five

major areas of rehabilitation need: structures, automation, canal & lateral improvements, and pipelines. The total cost of these items is $25,025,847 in 2010 dollars.

The District continues to work through its master plan and in 2014 requested Level III funding for a number of needed improvements to their system. The identified projects for this appropriation include: Seepage Reservoir Outlet Rehabilitation, Tunnel Dam Rehabilitation, and the Bordeaux Lateral Siphons.

In 2015, the District received a grant funding appropriation from the Rehabilitation Program of $874,350 (67% grant) for the eligible WWDC costs. During 2015, the District selected an engineer and initiated the design for the Bordeaux Lateral Siphons. The project has been designed, bid and successfully awarded. Construction on the project took place in 2015 and was finished in 2016. The District and engineer are evaluating the next projects to pursue for design and construction.

169. PROJECT: Wheatland Irrigation District Tunnel Dam Rehabilitation

LEVEL: II
SPONSOR: Wheatland Irrigation District
LOCATION: Albany County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	268	1989	II	$ 118,534	1991
Level II	268	1989	II	$ 180,913	1991
Level II	123	1990	II	$ 113,667	1992
Level III	28	1992	II	$ 392,000	1994
Level II	8	1995	II	$ 100,000	1996
Level III	45	1997	II	$ 315,000	2000
Level III	16	1999	II	$ 141,500	2000
Level I	15	1996	I	$ 200,000	1998
Level III	38	1998	II	$ 475,000	2002
Level III	88	2002	II	$ 78,500	2006
Level II	75	2005	II	$ 100,000	2006
Level III	105	2006	II	$ 150,080	2010
Level II	75	2005	II	$ 100,000	2006
Level II	99	2006	II	$ 300,000	2008
Level I	66	2009	II	$ 300,000	2010
Level III	66	2011	II	$ 723,600	2016
Level III	23	2015	II	$ 874,350	2020
Level II	65	2017	II	$ 150,000	2020

PROJECT INFORMATION:
During the 2017 General Session, the Wheatland Irrigation District (WID) requested, and received, funding to conduct a Level II Feasibility Study to investigate rehabilitation options for the "Tunnel Dam." The Tunnel Dam is a diversion structure on the Laramie River used to create head to divert water via a tunneled conveyance through a surface water divide into Bluegrass Creek. Water is conveyed from Bluegrass Creek downstream to any number of WID's diversions and used throughout the District for irrigation on approximately 54,000 acres of high value cropland.

The Tunnel Dam, originally constructed in approximately 1901, has previously been resurfaced; however, the repairs are failing. The face and toe of the dam are dilapidated and there is extensive scouring, spalling, and exposed rebar which is plainly visible, and the outlet works that allow live stream flow to bypass the structure are no longer functioning. This structure is utilized to deliver stored irrigation water from upstream reservoir facilities and is absolutely crucial to the delivery of water within WID.

Rehabilitation options for the structure were analyzed at its current location, as well as at two alternate locations. The on-site investigation included surveying, geotechnical investigation of the earthen embankment portion of the structure, and concrete-coring of the existing diversion dam and associated appurtenances. The report recommends to rehabilitate the existing diversion dam at its current location by installing a concrete overlay, new gate structure, sluiceway, and stilling basin. The concrete overlay design will incorporate an ogee crest and stepped spillway, allowing larger flood events to pass over the structure, eliminating the need for the auxiliary spillway. Furthermore, the larger slide gates and sluiceway will promote longevity of the rehabilitated structure by bypassing flows whenever possible and providing better sediment management on the upstream side of the diversion. Results of the stated geotechnical investigation revealed saturation and weakness in the earthen embankment portion of the structure and the floodplain deposits. Additionally, the existing left abutment wall is failing and at the end of its useful life, therefore should be removed and replaced. For these reasons, it has been recommended to excavate all of the existing dam fill and floodplain deposits to bedrock to access the abutment wall and rebuild the embankment at a 3:1 slope with the appropriate compaction. The report developed cost estimates for the proposed rehabilitation plan at approximately $5,220,000.

170. **PROJECT:** **Wheatland Pipelines**
LEVEL: III
SPONSOR: Town of Wheatland
LOCATION: Platte County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	55	2016	I	$ 522,600	2021*

*67% grant

PROJECT INFORMATION:
The project consists of enlarging and installing water transmission pipelines on the east side of Wheatland. This project includes upsizing 1,480 feet of 4-inch water pipeline to a 16-inch transmission line and installing an additional 1,380 feet of new 16-inch transmission pipeline as well as upsizing 840 feet of 4-inch water pipeline to 10-inch transmission pipeline and installing an additional 3,485 feet of new 10-inch water transmission pipeline and apparatuses to make the project functional. The project is designed and permitted. The project is expected to go out for bid in the fall of 2018.

171. **PROJECT:** **Wheatland Wells 2017**
LEVEL: III
SPONSOR: Town of Wheatland
LOCATION: Platte County
PROGRAM: New Development

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	75	2017	I	$ 994,950	2022*

*67% grant

PROJECT INFORMATION:
The project will include drilling two new municipal wells approximately 500 feet deep on Town land and connecting them to the Town's water system. Included in the project are two new well houses, well pumps, control equipment and piping to connect the new wells to the adjacent water transmission lines. The Town has recently found that two of its older wells have uranium concentrations and Well No. 6 has failed with a likely casing collapse. The Town currently has two wells that are 80 plus years old (one is Well No. 6), one well that is 58 years old, two wells that are 48 years old, and two wells that are near 37

years old. This project will replace Well No. 6 as well as backup to the other aging wells that are nearing the end of their useful lives.

The project is designed and permitted but is currently waiting on a Title of Opinion on land easements. The project is expected to go out for bid between the fall of 2018 and the spring of 2019.

172. **PROJECT:** **Wind River Irrigation Rehabilitation 2015**

LEVEL: III
SPONSORS: Eastern Shoshone and/or Northern Arapaho Tribes through the Office of the Tribal Engineer
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING AND PRIOR LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	23	2015	II	$ 1,482,121	2020*

* 67% grant

PROJECT INFORMATION:
The Wind River Irrigation System which 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 by past studies. The tribes have taken on the task of rehabilitating the irrigation system in phases. The rehabilitation of the system will increase the efficiency of the irrigation project and as a result will allow for a longer more profitable growing season. Phase I of the project has been completed and phase II was bid in the fall 2016 with construction completed in early 2017. The Sponsor completed design, bidding and construction of the emergency river protection on the Johnstown structures.

COMPLETED PROJECT REPORTS

CHAPTER 4 – COMPLETED PROJECT REPORTS

Completed Planning (Level I and II) Projects

If you require information on any of the following reports, please contact WWDO or visit our web site at wwdc.state.wy.us. Many of these reports are available on the web site and can be reviewed or downloaded:

1. Aladdin Water Supply
2. Alpine Master Plan Update
3. Alta Master Plan/Test Well
4. Arapahoe Water Supply
5. Austin and Wall Rehabilitation
6. Austin Wall Canals
7. Austin-Wall Reservoir Rehabilitation
8. Badwater-Poison Creek Watershed Study
9. Basin-Big Horn Canal
10. Basin Planning – Environmental and Recreational Uses
11. Bear River Data Model Pilot Study
12. Bear River Groundwater Basin Planning
13. Bear River Hydrology Model
14. Bear River Watershed Study
15. Belle Fourche River Watershed Study
16. Bench Canal Company Master Plan
17. Beulah Water Supply
18. Big Horn Canal Rehabilitation
19. Big Horn Regional Groundwater
20. Big Sandy Enlargement
21. Big Valley & Crossed Arrows Improvement District Water Supply
22. Big Wind River Storage Study
23. Black Willow Water Supply
24. Blacks Fork Watershed Study
25. Boulder Flats Water Supply
26. Boulter Lake Enlargement
27. Bridger Valley Level II Reservoir Project
28. Bridger Valley Water Supply
29. Broken Wheel Ranch Master Plan
30. Buckskin Extension Master Plan/Gillette Regional
31. Buffalo Creek Watershed Study
32. Buffalo Master Plan
33. Buffalo Northwest Water Supply
34. Buffalo, Sheridan Area Water Supply System, and Lake DeSmet Regional Master Plan
35. Burns Water Supply
36. Byron Master Plan
37. Cambria/Sweetwater Water Supply
38. Canyon/Newcastle Area Water Supply
39. Casper Alcova Rehabilitation, GIS
40. Centennial Well and Master Plan
41. CBM Aquifer Storage and Retrieval
42. Cheyenne Belvoir Ranch Groundwater
43. Cheyenne Hydro Power
44. Cheyenne/Laramie County Water Service Area
45. Clear Creek Watershed Study
46. Clearmont CBM Impact

47. Cody Canal Irrigation District Hydropower
48. Cody Canal Rehabilitation, GIS
49. Cody Master Plan
50. Cokeville Reservoir
51. Cokeville Tri-Diversion Rehabilitation
52. Corner Mountain Test Well
53. Cottonwood/Grass Creek Storage
54. Cottonwood/Grass Creek Watershed Management Plan
55. Cottonwood Irrigation District Master Plan
56. Cottonwood Lake Enlargement
57. Cowley Master Plan
58. Crook County Reservoirs and Water Management
59. Crow Creek Groundwater Recharge
60. Crowheart Area/Dinwoody Canal System
61. Dayton Raw Water Irrigation
62. Deaver Irrigation District Master Plan Update
63. Deaver (Town of) Master Plan
64. Deer Creek Dam and Reservoir
65. Dixon Water Supply
66. Douglas Ground Water
67. Douglas Master Plan
68. Dry Creek Irrigation District Master Plan
69. Dubois Regional Water Supply
70. Eden Valley (Farson) Master Plan Level I
71. Eden Valley (Farson) Master Plan Level II
72. Eden Valley Irrigation District Master Plan
73. Eight Mile-High Plains Well
74. Encampment/Sierra Madre Water Supply
75. Enterprise Conservation Program
76. Evansville Master Plan
77. Fontenelle Pipeline
78. Fort Laramie Water Supply
79. Fox Ridge Extension Master Plan/Gillette Regional
80. Frannie Raw Water
81. Frannie Well Rehabilitation
82. Gillette Regional Connections
83. Gillette Regional Master Plan
84. Glenrock Master Plan
85. Goshen Irrigation District Master Plan 2006
86. Goshen Re-regulating Reservoir
87. Grace Land Extension Master Plan/Gillette Regional
88. Granger Water Supply
89. Green River Basin Plan-Groundwater
90. Green River Basin Plan-Update
91. Green River Decision Support System Feasibility Study
92. Green River Groundwater Recharge and Alternate Storage
93. Green River-Rock Springs-Sweetwater County Master Plan
94. GR-RS-SC JPB Water Supplies
95. Green River/Rock Springs/Sweetwater County JPB Pipeline Feasibility Study
96. Green River West Water Supply
97. Greybull Raw Water
98. Greybull Tank and Master Plan
99. Greybull Valley Hydropower

100. Greybull Valley Rehabilitation, GIS
101. Greybull Valley Sunshine Diversion
102. Greybull Wells Rehabilitation
103. Guernsey Master Plan
104. Hanna Water System Level I
105. Hanna Water System Level II
106. Hawk Springs Master Plan
107. Hawk Springs Water Supply
108. Heart Mountain Canal Rehabilitation
109. Heart Mountain Irrigation District Master Plan
110. Heart Mountain ID Return Flow Study
111. Heart Mountain Rehabilitation
112. High Meadow Ranch, Level II
113. High Meadow Ranch Master Plan
114. Hoback Junction Rural Regional Master Plan
115. Hoback Junction Water Supply
116. Hopkins Producers Irrigation District Reservoir Study
117. Hot Springs State Park, Big Springs Study
118. Hyattville Water Supply
119. Indian Paintbrush Water Supply
120. Interstate Canal and Beaver Meadows Reservoir Rehabilitation
121. Irrigation Hydro Power
122. James Town/Rio Vista Water Supply
123. Jeffrey City Water Supply
124. Jons Drop Hydropower
125. Kaycee Well & Storage
126. Kemmerer-Diamondville Master Plan
127. Kemmerer/Diamondville Water Supply
128. Kennington Springs
129. Keystone and Farmers Canal Master Plan
130. Kirby Area Water Supply Study
131. Kirby Creek Watershed Study
132. Kirby Irrigation District Conservation Program
133. Kirby Municipal Master Plan
134. LaBarge Water Supply
135. Lakeview Irrigation Master Plan
136. Lance Creek Water Supply
137. Lance Creek Well
138. Lander Master Plan
139. Lander Paleozoic Well
140. Laramie County Aquifer Study
141. Laramie Water Management Study
142. Laramie Master Plan
143. LeClair Irrigation District Master Plan
144. LeClair/Riverton Valley Irrigation Storage
145. Little Snake Canals
146. Little Snake River Watershed Study
147. Little Snake Supplemental Storage
148. Little Wind River Storage Study
149. Lodgepole Creek ASR
150. Lovell ID Hydro Power
151. Lovell ID Master Plan
152. Lovell Master Plan

153. Lower Clear Creek Irrigation District – Leiter Ditch Rehabilitation Study
154. Lower Nowood Rural Water Supply
155. Lucerne Water Supply
156. Lusk Master Plan
157. Lysite Water Supply
158. Manderson Water Master Plan
159. Manville Water Supply
160. Manville Well
161. Means First Extension Master Plan/Gillette Regional Connection
162. Medicine Bow River Watershed Study
163. Meeteetse Master Plan
164. Melody Ranch Water Supply Study
165. Middle Fork Dam
166. Middle Fork Powder Watershed Management Plan
167. Middle North Platte – Glendo Watershed Study
168. Middle North Platte Watershed
169. Middle Piney Dam Reservoir
170. Midvale Conservation Program
171. Midvale Irrigation District Hydropower Study
172. Moorcroft Master Plan
173. Newcastle Madison Well
174. North Canal-Grover
175. North Cheyenne Master Plan
176. North Fork Shoshone Water Supply
177. North Platte Water Yield Analysis
178. Northeast Wyoming Interactive Database
179. Northern Arapaho Ground Water
180. Northwest Rural Water Master Plan
181. Nowood River Watershed Study
182. Opal Master Plan
183. Opal Regional Water Supply
184. Owl Creek Irrigation District Conservation Study
185. Owl Creek Irrigation Master Plan
186. Owl Creek Water Supply
187. Owl Creek Watershed Study
188. Pavillion Area Water Supply
189. Pavillion Water Supply
190. Pine Bluffs Master Plan
191. Pine Haven Master Plan
192. Pine Haven Tank and Well Study
193. Pinedale Hydro Power
194. Pinedale Hydro Power Study
195. Pinedale Master Plan
196. Piney Cruse Diversion
197. Pioneer Rehabilitation
198. Platte-Goshen Regional Master Plan
199. Platte River Basin Plan-Groundwater
200. Platte River Basin Plan Update
201. Poison Spider Pipelines
202. Popo Agie Watershed Management Plan
203. Powder River Water Supply
204. Powell Airport Water Supply
205. Probable Maximum Precipitation Study

206. Rawlins Master Plan
207. Rawlins Operations Study
208. Ray Lake Enlargement
209. Red Lane Master Plan
210. Rock Springs East Water Supply
211. Rock River Water Master Plan
212. Rolling Hills Master Plan
213. Saratoga Groundwater
214. SEO/Lusk Area Ground Water
215. Shell Canal Tunnel
216. Sheridan Supplemental Storage
217. Shell Valley Watershed Management Plan
218. Shell Valley Storage
219. Sheridan/Veterans Affairs Medical Center (VAMC) Water Supply Study
220. Shoshone ID Rehabilitation, GIS
221. Smith's Fork Dam
222. Snake/Salt River Basin-Groundwater Analysis
223. South Big Horn County Rural Water District Expansion
224. South Circle Master Plan
225. South Garden Creek Water Supply
226. South Worland Water Master Plan
227. Squaw Creek Water Supply
228. Star Valley Ranch Water Supply
229. Star Valley Regional Master Plan
230. State Stream Gage System
231. Sublette Creek Reservoir
232. Sundance Master Plan, Level I
233. Sundance Water System Feasibility Study
234. Sweetwater River Watershed
235. Sweetwater Water Supply
236. Tensleep/Hyattville Master Plan
237. Tensleep Water Supply
238. Thermopolis Master Plan
239. Thermopolis Storage and Raw Water
240. Three Horses Watershed Study
241. Thunder Basin Watershed Studies I and II
242. Upper Green River Watershed Study
243. Upper Green River Westside Storage
244. Upper Laramie River Watershed Study
245. Upper North Platte Watershed Study
246. Upper Snake River Watershed Study
247. Upper Wind River Storage
248. Viva Naughton Enlargement
249. Wagner Cherokee Irrigation Rehabilitation
250. Wamsutter Well 2010
251. Washakie County Safety
252. Weather Modification Pilot Program
253. Weather Modification – Salt River and Wyoming Ranges
254. Weather Modification – Wyoming Range
255. Westside Irrigation NEPA
256. Wheatland ID Master Plan
257. Wheatland ID System Phase II
258. Wheatland Master Plan

259. Willwood Irrigation District Master Plan
260. Willwood ID Rehabilitation, GIS
261. Wind River/Big Horn River Basin Plan Update
262. Wind River Glaciers
263. Worland Area Irrigated Lands GIS
264. Worland Eastside Transmission Line
265. Worland Wells Test
266. Wright Master Plan
267. Yoder Groundwater Project
268. York/South Side Ditch Master Plan

Completed Planning Instream Flow (Level I) Projects

1. Report on the Feasibility of Providing Instream Flow in a Segment of the Clarks Fork Yellowstone River
2. Report on the Feasibility of Providing Instream Flow in a Segment of the Middle Fork Powder River
3. Report on the Feasibility of Providing Instream Flow in Segment Number One of the Tongue River
4. Report on the Feasibility of Providing Instream Flow for Sand Creek
5. Report on the Feasibility of Providing Instream Flow in Segment Number One of Tensleep Creek
6. Report on the Feasibility of Providing Instream Flow in a Segment Number One of the Green River
7. Report on the Feasibility of Providing Instream Flow in New Fork River Instream Flow Segment No. 1
8. Report on the Feasibility of Providing Instream Flow in the Laramie River Instream Flow Segment No. 1
9. Report on the Feasibility of Providing Instream Flow in the Little Bighorn River Flow Segment No. 1 Temporary Filing No. 26 5/339
10. Report on the Feasibility of Providing Instream Flow in the North Cottonwood Creek Instream Flow Segment No. 1 Temporary Filing No. 26 4/388
11. Report on the Feasibility of Providing Instream Flow in the South Fork Grand Encampment River Flow Segment No. 1 Temporary Filing No. 26 5/399
12. Report on the Feasibility of Providing Instream Flow in the South Cottonwood Creek Instream Flow Segment No. 1 Temporary Filing No. 26 6/383
13. Report on the Feasibility of Providing Instream Flow in the Big Wind River - - Instream Flow Segment No. 1 Temporary Filing No. 26 5/341
14. Final Report Little Snake River Instream Flow Study Project
15. Final Report on the Feasibility of Providing Instream Flows in the Douglas Creek Drainage
16. Final Report on the Feasibility of Providing Instream Flows in the North Platte River
17. Report on the Feasibility of Providing Instream Flow in the Fish Creek Instream Flow Segment No. 1 Temporary Filing No. 27 2/186
18. Report on the Feasibility of Providing Instream Flow in the La Barge Creek Instream Flow Segment No. 1 Temporary Filing No. 27 3/146
19. Report on the Feasibility of Providing Instream Flow in the Middle Piney Creek Instream Flow Segment No. 1 Temporary Filing No. 27 6/185
20. Report on the Feasibility of Providing Instream Flow in the North Piney Creek Instream Flow Segment No. 1 Temporary Filing No. 27 5/185
21. Report on the Feasibility of Providing Instream Flow in the South Piney Creek Instream Flow Segment No. 1 Temporary Filing No. 27 1/186

22. Feasibility of Providing Deer Creek Instream Flows in Segment No. 1 - Deer Creek Canyon Temporary Filing No. 27/3/185
23. Report on the Feasibility of Providing Instream Flow in Segments 1 and 2 of Shell Creek
24. Report on the Feasibility of Providing Instream Flow in Segment 1 of the Sweetwater River
25. Report on the Feasibility of Providing Instream Flow in Grey's River Instream Flow Segment No. 1 Temporary Filing No. 28 2/159
26. Report on the Feasibility of Providing Instream Flow in Fish Creek Instream Flow Segment No. 1 and No. 2 Temporary Filing No. 28 4/158 and No. 28 5/158
27. Report on the Feasibility of Providing Instream Flow in Salt River Instream Flow Segment No. 1 Temporary Filing No. 28 3/80
28. Report on the Feasibility of Providing Instream Flow in East Fork Smiths Fork Creek Instream Flow Segment No. 1 Temporary Filing No. 28 2/84
29. Final Report of the Savery Area Instream Flow Study
30. Report on the Feasibility of Providing Instream Flow in the Salt Creek/Thomas Fork Drainage for Water Canyon; Giraffe Creek; Coal Creek; Raymond Creek; Salt Creek; Huff Creek
31. Final Report on the Feasibility of Providing Instream Flow in the Little Popo Agie River Instream Flow Segment No. 1 Temporary Filing No. 28 3/159
32. Report on the Feasibility of Providing Instream Flow in the Medicine Lodge Creek Instream Flow Segment No. 1 Temporary Filing No. 27 2/146
33. Report on the Feasibility of Providing Instream Flow in the Salt Creek/Thomas Fork Drainage for Packstring Creek Segment; Little White Creek Segment
34. Report on the Feasibility of Providing Instream Flow in the Smiths Fork Drainage for Smiths Fork; Porcupine Creek; Hobble Creek; Coantag Creek; Coal Creek; Poker Hollow Creek; Lander Creek; Trespass Creek; North Fork Smiths Fork River
35. Report on the Feasibility of Providing Instream Flow in the Hams Fork Instream Flow Segment No. 1 Temporary Filing No. 26 2/332
36. Report on the Green River Tibutaries #2 Instream Flow for Gilbert Creek; Little Gilbert Creek; Sage Creek; Currant Creek; Trout Creek; Red Creek
37. Reports on the Feasibility of Providing Instream Flow in Pine Creek (at Pinedale) Direct Flow Instream Flow Filing No. 31 4/105 Secondary Storage Instream Flow Filing No. 31 5/70 (From Permit Nos. 4452R, 4453R & 4465R)
38. Report on the Instream Flow Feasibility for Dry Fork Tributary of the Little Big Horn Creek Segment
39. Report on the Instream Flow Feasibility for Wagonhound Creek
40. Report on the Instream Flow Feasibility for Clear Creek - Segment #1; Clear Creek - Segment #2
41. Reports on the Feasibility of Providing Instream Flows on Greybull River Tributaries
42. Reports on the Feasibility of Providing Instream Flows on Wood River Tributaries
43. Rock Creek Instream Flow Study, Rock Creek Instream Flow, TFN 33 1/276
44. Marquette Creek and Trout Creek Instream Flow Level I Study, Marquette Creek Instream Flow, TFN 33 5/275; Trout Creek Instream Flow, TFN 33 6/275
45. East Fork Wind River Area Instream Flows, Level I Study
46. Greys-Hoback Basin Instream Flows, Level I Study
47. Muddy Creek Basin Instream Flows, Level I Study
48. Bighorn and Nowood Basins Instream Flows, Level I Study
49. Shoshone River Instream Flow Hydrologic Study (Technical Memorandum)
50. Savery Creek Instream Flow Feasibility Study (Report)
51. Bighorn Mountains Instream Flows, Level I Study

Completed Construction (Level III) Projects

01. PROJECT: **33 Mile Pump Station**
SPONSOR: 33 Mile Road Improvement & Service District
LOCATION: Natrona County
PROGRAM: New Development
APPROPRIATION: $139,695
ACTUAL EXPENDITURES: $129,827
DESCRIPTION: Construction of a booster pump station near the intersection of 33 Mile Road and Enberg Road to alleviate low water pressures being experienced by the residents.
ENGINEER: Civil Engineering Professionals, Inc.; Casper, WY
CONTRACTOR: Wayne Coleman Construction, Inc.; Casper, WY
YEAR COMPLETED: 2013
SESSION LAW YEAR: 2011

02. PROJECT: **Afton Springs Water Supply**
SPONSOR: Town of Afton
LOCATION: Lincoln County
PROGRAM: Rehabilitation
APPROPRIATION: $450,000
ACTUAL EXPENDITURES: $450,000
DESCRIPTION: Renovation of Periodic Springs intake and pipeline to protect from rock fall
ENGINEER: BRS, Inc.; Riverton, WY
CONTRACTOR: Roberts Construction; Evanston, WY
Kilroy and Company; Alpine, WY
YEAR COMPLETED: 2001
SESSION LAW YEAR: 2000

03. PROJECT: **Afton Water Supply**
SPONSOR: Town of Afton
LOCATION: Lincoln County
PROGRAM: Rehabilitation
APPROPRIATION: $2,600,000
ACTUAL EXPENDITURES: $2,518,911
DESCRIPTION: Spring renovation, pipeline, storage tank, well
ENGINEER: Sunrise Engineering; Afton, WY
CONTRACTOR: Kilroy Construction; Alpine, WY
Snyder Construction; Lyman, WY
AG SERVICES, Inc.; Blackfoot, ID
YEAR COMPLETED: 1994
SESSION LAW YEAR: 1991

04. PROJECT: **Afton Well**
SPONSOR: Town of Afton
LOCATION: Lincoln County
PROGRAM: New Development
APPROPRIATION: $250,000
ACTUAL EXPENDITURES: $250,000
DESCRIPTION: Well house, meter, well controls and pipeline

	ENGINEER	Sunrise Engineering; Afton, WY
	CONTRACTOR:	Johnson Excavation, Inc.; Inkom, ID
	YEAR COMPLETED:	2008
	SESSION LAW YEAR:	2006
05.	**PROJECT:**	**Airport Bench Water Supply**
	SPONSOR:	Airport Bench W&S District
	LOCATION:	Big Horn County (Greybull)
	PROGRAM:	New Development
	APPROPRIATION:	$225,000
	ACTUAL EXPENDITURES:	$225,000
	DESCRIPTION:	Pipeline, storage tank
	ENGINEER:	Engineering Associates; Cody, WY
	CONTRACTOR:	Whitlock Construction; Powell, WY
	YEAR COMPLETED:	1995
	SESSION LAW YEAR:	1991
06.	**PROJECT:**	**Albin 2005 Well**
	SPONSOR:	Town of Albin
	LOCATION:	Laramie County
	PROGRAM:	New Development
	APPROPRIATION:	$227,280
	ACTUAL EXPENDITURES:	$155,274
	DESCRIPTION:	Incorporate well into municipal system
	ENGINEER:	BenchMark Engineering; Cheyenne, WY
	CONTRACTOR:	Strong Construction, Inc.; Torrington, WY
	YEAR COMPLETED:	2008
	SESSION LAW YEAR:	2005, 2006
07.	**PROJECT:**	**Albin Pipelines and Well Rehabilitation**
	SPONSOR:	Town of Albin
	LOCATION:	Laramie County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$235,100
	ACTUAL EXPENDITURES:	$152,073
	DESCRIPTION:	Well rehabilitation and transmission pipelines
	ENGINEER:	BenchMark Engineers; Cheyenne, WY
	CONTRACTOR:	Crow Creek Construction; Greeley, CO
	YEAR COMPLETED:	2011
	SESSION LAW YEAR:	2004
08.	**PROJECT:**	**Alpine Raw Water**
	SPONSOR:	Town of Alpine
	LOCATION:	Lincoln County
	PROGRAM:	New Development
	APPROPRIATION:	$41,700
	ACTUAL EXPENDITURES:	$ 7,409
	DESCRIPTION:	Pipeline, storage tank
	ENGINEER:	Engineering Associates; Cody, WY
	CONTRACTOR:	Whitlock Construction; Powell, WY
	YEAR COMPLETED;	2005
	SESSION LAW YEAR:	2002

09. PROJECT: **Alpine Water Supply**

SPONSOR:	Town of Alpine
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$700,000
ACTUAL EXPENDITURES:	$700,000
DESCRIPTION:	Pipeline, storage tanks, well
ENGINEER:	Sunrise Engineering; Afton, WY
CONTRACTOR:	Kilroy Construction; Alpine, WY
	ABC Tank; Salt Lake City, UT
YEAR COMPLETED:	1997
SESSION LAW YEAR:	1995

10. PROJECT: **Alpine Water Supply**

SPONSOR:	Town of Alpine
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$688,090
ACTUAL EXPENDITURES:	$ 87,162
DESCRIPTION:	Well completion and connection piping
ENGINEER:	Rendezvous Engineering; Jackson, WY
CONTRACTOR:	Kilroy, LLC; Afton, WY
	Thomas Drilling; Afton, WY
	Pump Tech Co. Inc.; Idaho Falls, ID
YEAR COMPLETED:	2012
SESSION LAW YEAR:	2007

11. PROJECT: **Alpine Wells Rehabilitation**

SPONSOR:	Town of Alpine
LOCATION:	Lincoln County
PROGRAM:	Rehabilitation
APPROPRIATION:	$359,790
ACTUAL EXPENDITURES:	$359,720
DESCRIPTION:	Well pump upgrades, emergency power generator
ENGINEER:	Rendezvous Engineering; Jackson, WY
CONTRACTOR:	Thomas Drilling; Afton, WY
YEAR COMPLETED:	2011
SESSION LAW YEAR:	2006

12. PROJECT: **Alta/Targhee Towne Water Supply**

SPONSOR:	Targhee Towne Water District
LOCATION:	Teton County
PROGRAM:	New Development
APPROPRIATION:	$466,000
ACTUAL EXPENDITURES:	$418,671
DESCRIPTION:	Two well completions, well houses and pipeline
ENGINEER:	Rendezvous, Engineering; Jackson, WY CONTRACTOR:
	Westwood Curtis Construction, Inc.; Jackson WY
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2005

13. **PROJECT:** **American Road Water Supply Project**

SPONSOR:	American Road Water and Sewer District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$250,000
ACTUAL EXPENDITURES:	$132,010
DESCRIPTION:	New Well
ENGINEER:	Wester-Wetstein Associates; Laramie, WY
CONTRACTOR:	Ruby Drilling; Gillette, WY
YEAR COMPLETED;	1999
SESSION LAW YEAR:	1997

14. **PROJECT:** **Antelope Valley Regional Connection**

SPONSOR:	Antelope Valley Improvement and Service District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$201,000
ACTUAL EXPENDITURES:	$201,000
DESCRIPTION:	Connection to Gillette Regional System, blending vault, chlorination system, and storage tank transmission piping
ENGINEER:	EnTech Inc.; Sheridan, WY
CONTRACTOR:	DRM, Inc.; Gillette, WY
YEAR COMPLETED:	2018
SESSION LAW YEAR:	2014

15. **PROJECT:** **Antelope Valley Storage Facility**

SPONSOR:	Antelope Valley Improvement & Service Dist.
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$850,000
ACTUAL EXPENDITURES:	$378,621
DESCRIPTION:	Storage Tank
ENGINEER:	Bruce Engineering Services; Gillette, WY
CONTRACTOR:	L&T Fabrication; Gillette, WY
YEAR COMPLETED:	1997
SESSION LAW YEAR:	1994

16. **PROJECT:** **Antelope Valley Water Supply**

SPONSOR:	Antelope Valley Improvement & Service District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$102,000
ACTUAL EXPENDITURES:	$ 94,107
DESCRIPTION:	New Well
ENGINEER:	Wester-Wetstein and Associates; Laramie, WY
CONTRACTOR:	Michael's Construction; Gillette; WY
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2000

17.	**PROJECT:**	**Arapahoe Water Supply**
	SPONSOR:	Northern Arapaho Tribal Business Council
	LOCATION:	Fremont County (Wind River Indian Reservation)
	PROGRAM:	New Development
	APPROPRIATION:	$385,250
	ACTUAL EXPENDITURES:	$364,077
	DESCRIPTION:	Water Supply
	ENGINEER:	Gores
	CONTRACTOR:	71 Construction
	YEAR COMPLETED:	2015
	SESSION LAW YEAR:	2010

18.	**PROJECT:**	**Baggs Raw Water and Dedicated Transmission Line**
	SPONSOR:	Town of Baggs
	LOCATION:	Carbon County
	PROGRAM:	New Development
	APPROPRIATION:	$331,500
	ACTUAL EXPENDITURES:	$331,500
	DESCRIPTION:	Transmission pipeline
	ENGINEER:	Lidstone and Associates; Fort Collins CO
	CONTRACTOR:	Edward Hawley, LLC; Torrington, WY
	YEAR COMPLETED:	2009
	SESSION LAW YEAR:	2005

19.	**PROJECT:**	**Baggs Water Supply**
	SPONSOR:	Town of Baggs
	LOCATION:	Carbon County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$120,000
	ACTUAL EXPENDITURES:	$114,519
	DESCRIPTION:	Construction of stream bed infiltration intake and pipeline to provide for a more reliable raw water source from the river.
	ENGINEER:	A.V.I. Professional Corporation; Cheyenne, WY
	CONTRACTOR:	High Plains Construction, Inc.; Mills, WY
	YEAR COMPLETED:	2003
	SESSION LAW YEAR:	2001, 2003

20.	**PROJECT:**	**Bairoil Water Supply**
	SPONSOR:	Town of Bairoil
	LOCATION:	Carbon County
	PROGRAM:	New Development
	APPROPRIATION:	$480,000
	ACTUAL EXPENDITURES:	$445,040
	DESCRIPTION:	To develop an alternative groundwater supply to the Battle Springs Pipeline.
	ENGINEER:	Wester-Wetstein & Associates; Laramie, WY Camp Creek Engineering; Laramie, WY
	CONTRACTOR:	Three Sons; Hanna WY Bartlett Oilfield Services; Bairoil, WY Bruce Thayer; Rawlins WY
	YEAR COMPLETED:	2006
	SESSION LAW YEAR:	2000, 2004

21. PROJECT: **Basin Area Water Supply (formerly Manderson Water Supply)/Basin Gardens Water Project**

SPONSOR:	South Big Horn County Water Supply JPB
LOCATION:	Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$670,000+$5,360,000+$200,000+ $559,450=$6,789,450
ACTUAL EXPENDITURES:	$6,566,455
DESCRIPTION:	The project consists of wells, storage and transmission pipelines to Manderson, Basin and the surrounding areas.
ENGINEER:	Graham, Dietz and Associates; Cody, WY
CONTRACTOR:	Cyclone Drilling; Gillette, WY Larry's, Inc.; Gillette, WY Brandon Construction, Inc.; Powell, WY Lamax Construction, Inc.; Basin, WY Lamax Construction, Inc.; Basin, WY
YEAR COMPLETED:	1995-2006
SESSION LAW YEAR:	1995, 1996, 1998, & 2003

22. PROJECT: **Basin Storage Tank**

LEVEL:	III
SPONSOR:	Town of Basin
LOCATION:	Big Horn County
PROGRAM:	New Development
APPROPRIATION:	$1,634,000
ACTUAL EXPENDITURES:	$ 939,928
DESCRIPTION:	Replace two existing storage tanks with one tank
ENGINEER:	Donnell & Allred, Inc.; Worland, WY
CONTRACTOR:	EAI, West; Loveland CO
YEAR COMPLETED:	2011
SESSION LAW YEAR:	2009

23. PROJECT: **Basin Water Supply**

SPONSOR:	Town of Basin
LOCATION:	Big Horn County
PROGRAM:	New Development
APPROPRIATION:	$1,750,000
ACTUAL EXPENDITURES:	$1,152,204
DESCRIPTION:	Pipeline, reservoirs
ENGINEER:	Civil Engineering Professionals, Inc.; Casper, WY
CONTRACTOR:	Larry's Inc.; Gillette, WY
YEAR COMPLETED:	1987
SESSION LAW YEAR:	1984

24. PROJECT: **Bear River/Evanston Regional Pipeline**

SPONSOR:	Bear River Regional Joint Powers Board
LOCATION:	Uinta County
PROGRAM:	New Development
APPROPRIATION:	$3,699,070
ACTUAL EXPENDITURES:	$3,699,070
DESCRIPTION:	25 mile regional pipeline, storage tank, inter-connect and meter building, booster pump station

ENGINEER: Sunrise Engineering; Afton, WY
CONTRACTOR: Allied Construction; Corrine, UT
YEAR COMPLETED: 2010
SESSION LAW YEAR: 2006

25. PROJECT: Bedford Water Supply
SPONSOR: Bedford Water and Sewer District
LOCATION: Lincoln County
PROGRAM: New Development
APPROPRIATION: $1,300,000
ACTUAL EXPENDITURES: $1,151,230
DESCRIPTION: Springs, well, pipeline
ENGINEER: Forsgren Associates, Inc.; Evanston, WY
CONTRACTOR: Snyder Construction, Inc.; Evanston, WY
YEAR COMPLETED: 1989
SESSION LAW YEAR: 1988, 1989

26. PROJECT: Bedford Water Tank
SPONSOR: Bedford Water & Sewer District
LOCATION: Lincoln County
PROGRAM: New Development
APPROPRIATION: $835,000
ACTUAL EXPENDITURES: $652,891
DESCRIPTION: 500,000 gallon Storage Tank
ENGINEER: Forsgren Associates, Inc.; Evanston, WY
CONTRACTOR: Engineering America, Inc. dba EAI West; Loveland, CO
YEAR COMPLETED: 2011
SESSION LAW YEAR: 2004, 2007

27. PROJECT: Big Horn Basin Rural Water Supply
SPONSOR: Northwest Rural Water District
LOCATION: Park and Big Horn Counties
PROGRAM: New Development
APPROPRIATION: $11,410,000
ACTUAL EXPENDITURES: $11,410,000
DESCRIPTION: Rural domestic water supply for rural Park and Big Horn Counties residents
ENGINEER: Engineering Associates; Cody, WY
CONTRACTOR: Several
YEAR COMPLETED: 1998
SESSION LAW YEAR: 1991, 1995, 1996, 1997

28. PROJECT: Big Horn Canal Improvements
SPONSOR: Big Horn Canal Irrigation District
LOCATION: Washakie and Big Horn Counties
PROGRAM: Rehabilitation
APPROPRIATION: $693,000
ACTUAL EXPENDITURES: $485,420
DESCRIPTION: Elk Creek Siphon

ENGINEER:	Natural Resources Conservation Service Donnell & Allred, Inc.; Worland, WY
CONTRACTOR:	Big Horn Redi-Mix; Greybull, WY
YEAR COMPLETED:	1998
SESSION LAW YEAR:	1995

29. PROJECT: Big Horn Canal Lining

SPONSOR:	Big Horn Canal Irrigation District
LOCATION:	Washakie and Big Horn Counties
PROGRAM:	Rehabilitation
APPROPRIATION:	$500,000
ACTUAL EXPENDITURES:	$500,000
DESCRIPTION:	Replacement of existing concrete canal lining
ENGINEER:	Engineering Associates; Cody, WY
CONTRACTOR:	EHC, LLC; Deaver, WY
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2008

30. PROJECT: Big Horn Canal Rehabilitation 2009

LEVEL:	III
SPONSOR:	Big Horn Canal Irrigation District
LOCATION:	Big Horn and Washakie Counties
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,180,000
ACTUAL EXPENDITURES:	$ 948,866
DESCRIPTION:	Replace diversion and drop structures
ENGINEER:	Big Horn Engineering; Harrison, AR
CONTRACTOR:	CC&G; Lander WY
YEAR COMPLETED:	2011
SESSION LAW YEAR:	2009, 2010

31. PROJECT: Big Horn Canal Rehabilitation 2012

SPONSOR:	Big Horn Canal Irrigation District
LOCATION:	Big Horn and Park Counties
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,440,000
ACTUAL EXPENDITURES:	$1,324,060
DESCRIPTION:	Replace check-drop structure
ENGINEER:	Sage Civil Engineering; Cody, WY
CONTRACTOR:	Big Horn Canal Irrigation District; Basin, WY
YEAR COMPLETED:	2018
SESSION LAW YEAR:	2012

32. PROJECT: Big Horn Regional Joint Powers Board Pipeline

SPONSOR:	Big Horn Regional Joint Powers Board
LOCATION:	Big Horn, Washakie, Hot Springs Counties
PROGRAM:	New Development
APPROPRIATION:	$23,838,600
ACTUAL EXPENDITURES:	$23,105,228
DESCRIPTION:	Regional transmission pipeline.

	ENGINEER:	HKM Engineering; Sheridan, WY John Donnell - Water Rights Contractor; Worland, WY Engineering Associates; Cody, WY
	CONTRACTOR:	Lamax Construction; Basin, WY COP Construction; Sheridan, WY
	YEAR COMPLETED:	2012
	SESSION LAW YEAR:	2002, 2004, 2007, 2012
33.	**PROJECT:**	**Big Horn Regional Well Connection**
	SPONSOR:	Big Horn Regional Joint Powers Board (BHRJPB)
	LOCATION:	Big Horn, Hot Springs and Washakie Counties
	PROGRAM:	New Development
	APPROPRIATION:	$ 4,730,200
	ACTUAL EXPENDITURES:	$ 4,730,200
	DESCRIPTION:	Water Supply
	ENGINEER:	Dowl
	CONTRACTOR:	Mountain View Building
	YEAR COMPLETED:	2012
	SESSION LAW YEAR:	2015
34.	**PROJECT:**	**Big Horn Spillway Improvement**
	SPONSOR:	Big Horn Canal Irrigation District
	LOCATION:	Washakie County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$120,000
	ACTUAL EXPENDITURES:	$120,000
	DESCRIPTION:	Crooked S Wasteway
	ENGINEER:	Soil Conservation Service; Worland, WY
	CONTRACTOR:	Big Horn Redi-Mix; Greybull, WY
	YEAR COMPLETED:	1995
	SESSION LAW YEAR:	1993
35.	**PROJECT:**	**Big Piney Water Supply**
	SPONSOR:	Town of Big Piney
	LOCATION:	Sublette County
	PROGRAM:	New Development
	APPROPRIATION:	$410,000
	ACTUAL EXPENDITURES:	$265,784
	DESCRIPTION:	Transmission pipeline
	ENGINEER:	Jorgensen Engineering; Jackson, WY
	CONTRACTOR:	Eiden’s Construction; Marbleton, WY
	YEAR COMPLETED:	1998
	SESSION LAW YEAR:	1995
36.	**PROJECT:**	**Big Piney Water Supply Project**
	SPONSOR:	Town of Big Piney
	LOCATION:	Sublette County
	PROGRAM:	New Development
	APPROPRIATION:	$512,500
	ACTUAL EXPENDITURES:	$492,866

	DESCRIPTION:	Storage tank, transmission pipeline, metering station
	ENGINEER:	Rendezvous, Engineering; Jackson, WY
	CONTRACTOR:	Transmission line – Rice-Kilroy Construction; Dubois, WY Storage tank – Caldwell Tanks, Inc.; Louisville, KY Controls – PFIX Controls; Alabaster, AL Meter Building – Moose Valley Construction; Big Piney, WY
	YEAR COMPLETED:	2008
	SESSION LAW YEAR:	2003, 2005
37.	**PROJECT:**	**Boulder Irrigation District**
	SPONSOR:	Boulder Irrigation District Board
	LOCATION:	Sublette County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$42,815
	ACTUAL EXPENDITURES:	$52,815
	DESCRIPTION:	Repairs to diversion structure
	ENGINEER:	NA
	CONTRACTOR:	NA
	YEAR COMPLETED:	1988
	SESSION LAW YEAR:	1987
38.	**PROJECT:**	**Bridger Valley Big Hill Transmission Line**
	SPONSOR:	Bridger Valley Joint Powers Board
	LOCATION:	Uinta County
	PROGRAM:	New Development
	APPROPRIATION:	$67,600
	ACTUAL EXPENDITURES:	$67,600
	DESCRIPTION:	To extend a transmission line to serve Big Hill.
	ENGINEER:	Uinta Engineering & Surveying, Inc.; Evanston, WY
	CONTRACTOR:	SCI, Inc.; Lyman WY
	YEAR COMPLETED:	2007
	SESSION LAW YEAR:	2005
39.	**PROJECT:**	**Bridger Valley Intake Structure Rehabilitation**
	SPONSOR**:**	Bridger Valley Joint Powers Board
	LOCATION:	Uinta County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$505,000
	ACTUAL EXPENDITURES:	$505,000
	DESCRIPTION:	Diversion/intake structure, raw water transmission line, 0.5 MG finished water storage tank
	ENGINEER:	Uinta Engineering & Surveying, Inc.
	CONTRACTOR:	Intake/diversion structure – X-It Const.; Lyman, WY Transmission line – SCI, Inc.; Lyman, WY
	YEAR COMPLETED:	Intake/diversion structure – 2003 Transmission line – 2003 Storage tank - 2004
	SESSION YEAR LAW:	2001 and 2002
40.	**PROJECT:**	**Bridger Valley Pipeline**
	SPONSOR:	Bridger Valley Joint Powers Board
	LOCATION:	Uinta County
	PROGRAM:	New Development

APPROPRIATION: $625,000
ACTUAL EXPENDITURES: $577,466
DESCRIPTION: Transmission line
ENGINEER: Uinta Engineering & Surveying; Evanston, WY
CONTRACTOR: Snyder Construction; Lyman, WY
YEAR COMPLETED: 1994
SESSION LAW YEAR: 1991

41. PROJECT: Brooks Hat Six Water Supply
SPONSOR: Town of Evansville
LOCATION: Natrona County
PROGRAM: New Development
APPROPRIATION: $150,000
ACTUAL EXPENDITURES: $150,000
DESCRIPTION: Transmission pipeline
ENGINEER: Hibsman Associates; Casper, WY
CONTRACTOR: Hedquist Construction; Casper, WY
YEAR COMPLETED: 1994
SESSION LAW YEAR 1993

42. PROJECT: Buffalo Bill Dam and Reservoir
SPONSOR: State of Wyoming
LOCATION: Park County
PROGRAM: New Development
APPROPRIATION: $52,000,000
ACTUAL EXPENDITURES: $52,000,000
DESCRIPTION: Dam enlargement and power facilities
ENGINEER: Bureau of Reclamation; Cody, WY
CONTRACTOR: ASI Moltz; Cody, WY
YEAR COMPLETED: 1993
SESSION LAW YEAR: 1982, 1989

43. PROJECT: Buffalo Hydropower
SPONSOR: Town of Buffalo
LOCATION: Johnson County
PROGRAM: New Development
APPROPRIATION: $1,075,000
ACTUAL EXPENDITURES: $1,045,033
DESCRIPTION: Installation of a hydropower unit
ENGINEER: States West Water Resources; Cheyenne, WY
CONTRACTOR: Sulzer Canada; Ontario, Canada
Larry's Inc.; Gillette, WY
ASI Moltz; Cody, WY
YEAR COMPLETED: 2001
SESSION LAW YEAR: 1992, 1996

44. PROJECT: Buffalo Municipal Reservoir
SPONSOR: Town of Buffalo
LOCATION: Johnson County
PROGRAM: New Development
APPROPRIATION: $13,600,000
ACTUAL EXPENDITURES: $13,232,084
DESCRIPTION: Construction of a municipal water supply reservoir

ENGINEER: States West Water Resources; Cheyenne, WY
CONTRACTOR: ASI Moltz; Cody, WY
Lamax Construction, Inc.; Basin, WY
Bartlett Construction; Hanna, WY
YEAR COMPLETED: 2001
SESSION LAW YEAR: 1992, 1996, 1997

45. PROJECT: Buffalo Northwest Pipeline
SPONSOR: City of Buffalo
LOCATION: Johnson County
PROGRAM: New Development
APPROPRIATION: $4,009,000
ACTUAL EXPENDITURES: $3,531,998
DESCRIPTION: Transmission Pipeline Construction
ENGINEER: CPG Engineering; Buffalo, WY
CONTRACTOR: North Star Energy and Construction; Buffalo, WY
YEAR COMPLETED: 2015
SESSION LAW YEAR: 2012, 2013

46. PROJECT: Buffalo Pipeline
SPONSOR: City of Buffalo
LOCATION: Johnson County
PROGRAM: New Development
APPROPRIATION: $1,182,000
ACTUAL EXPENDITURES: $ 983,132
DESCRIPTION: New transmission line from treatment plant to City
ENGINEER: Wenck Associates, Inc.; Cheyenne, WY
CONTRACTOR: Barnum Construction Services; Buffalo, WY
YEAR COMPLETED: 2013
SESSION LAW YEAR: 2010

47. PROJECT: Buffalo Raw Water Supply
SPONSOR: City of Buffalo
LOCATION: Johnson County
PROGRAM: New Development
APPROPRIATION: $270,000
ACTUAL EXPENDITURES: $270,000
DESCRIPTION: Diversion facilities, pipeline
ENGINEER: R.G. Stuckert & Associates; Buffalo, WY
CONTRACTOR: Venture Construction; Worland, WY
YEAR COMPLETED: 1987
SESSION LAW YEAR: 1986

48. PROJECT: Buffalo South Loop Pipeline
SPONSOR: City of Buffalo
LOCATION: Johnson County
PROGRAM: New Development
APPROPRIATION: $775,000
ACTUAL EXPENDITURES: $556,962
DESCRIPTION: Transmission Pipeline Construction

	ENGINEER:	Nelson Engineering; Buffalo, WY
	CONTRACTOR:	Mountain View Builders; Sheridan, WY
	YEAR COMPLETED:	2015
	SESSION LAW YEAR:	2013
49.	**PROJECT:**	**Buffalo Valley Water Supply**
	SPONSOR:	Buffalo Valley Water District
	LOCATION:	Teton County
	PROGRAM:	New Development
	APPROPRIATION:	$475,000
	ACTUAL EXPENDITURES:	$454,711
	DESCRIPTION:	80,000 gallon storage tank, well pump installation, chlorination facilities, valving, telemetry and transmission line
	ENGINEER:	Rendezvous, Engineering; Jackson, WY
	CONTRACTOR:	Tucker Excavation; Moran, WY
	YEAR COMPLETED:	2005
	SESSION LAW YEAR:	2001 and 2005
50.	**PROJECT:**	**Buffalo Water Storage Tank**
	SPONSOR:	Town of Buffalo
	LOCATION:	Johnson County
	PROGRAM:	New Development
	APPROPRIATION:	2003: $2,152,500 2005: $ 550,000 2006: $ 576,870
	TOTAL:	$3,279,370
	ACTUAL EXPENDITURES:	$2,938,260
	DESCRIPTION:	Storage tank and transmission pipelines
	ENGINEER:	States West; Cheyenne, WY
	CONTRACTOR:	Storage Tank: Reiman Corporation; Cheyenne, WY Pipeline: Western Municipal Construction; Sheridan, WY
	YEAR COMPLETED:	2008
	SESSION LAW YEAR:	2003, 2005, 2006
51.	**PROJECT:**	**Buffalo Water Supply**
	SPONSOR:	City of Buffalo
	LOCATION:	Johnson County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$1,000,000
	ACTUAL EXPENDITURES:	$1,000,000
	DESCRIPTION:	Diversion dam, pipeline
	ENGINEER:	Grizzly Engineering, Inc.; Buffalo, WY
	CONTRACTOR:	Fletcher Construction; Sheridan, WY
	YEAR COMPLETED:	1987
	SESSION LAW YEAR:	1984
52.	**PROJECT:**	**Burlington Water Supply**
	SPONSOR:	Town of Burlington
	LOCATION:	Big Horn County
	PROGRAM:	New Development
	APPROPRIATION:	$360,000
	ACTUAL EXPENDITURES:	$316,957
	DESCRIPTION:	Transmission Pipeline and Well Pumps

ENGINEER: MSE-HKM, Inc.; Sheridan, WY
CONTRACTOR: Brandon Construction, Inc.; Powell, WY
YEAR COMPLETED: 2001
SESSION LAW YEAR: 1996

53. PROJECT: Burns Storage Tank
SPONSOR: Town of Burns
LOCATION: Laramie County
PROGRAM: New Development
APPROPRIATION: $930,000
ACTUAL EXPENDITURES: $889,581
DESCRIPTION: New storage tank and necessary system connections
ENGINEER: Lidstone & Associates, Ft. Collins, CO
CONTRACTOR: Caldwell Tanks Inc., Louisville, KY
YEAR COMPLETED: 2013
SESSION LAW YEAR: 2010

54. PROJECT: Burns Well Connection
SPONSOR: Town of Burns
LOCATION: Laramie County
PROGRAM: New Development
APPROPRIATION: $1,214,000
ACTUAL EXPENDITURES: $ 897,925
DESCRIPTION: Design and construction of a transmission pipeline.
ENGINEER: Lidstone and Associates, Inc., Fort Collins, CO
CONTRACTOR: Aztec Construction, Cheyenne, WY
YEAR COMPLETED: 2017
SESSION LAW YEAR: 2013

55. PROJECT: Byron Raw Water Supply
SPONSOR: Town of Byron
LOCATION: Big Horn County
PROGRAM: Rehabilitation
APPROPRIATION: $1,561,000
ACTUAL EXPENDITURES: $ 170,214
DESCRIPTION: Design to replace ditch system with pipe
ENGINEER: Engineering Associates, Inc.; Cody, WY
CONTRACTOR: Never constructed
YEAR COMPLETED: 2010
SESSION LAW YEAR: 2003, 2004, 2008, 2010

56. PROJECT: Canyon Water Supply
SPONSOR: Canyon Improvement & Service District
LOCATION: Weston County
PROGRAM: New Development
APPROPRIATION: $1,457,600
ACTUAL EXPENDITURES: $ 642,915
DESCRIPTION: Well, storage tank, and transmission pipeline
ENGINEER: Stetson Engineering, Inc.; Gillette, WY
CONTRACTOR: Site Work Specialists, Inc.; Rapid City, SD
YEAR COMPLETED: 2010
SESSION LAW YEAR: 2005, 2006, 2007

57. PROJECT: **Carpenter Water Supply**

SPONSOR:	Carpenter Water and Sewer District
LOCATION:	Laramie County
PROGRAM:	New Development
APPROPRIATION:	$360,000
ACTUAL EXPENDITURES:	$328,620
DESCRIPTION:	Wells, pumps, controls, disinfection, storage, pipeline
ENGINEER:	States West Water Resources Corporation; Cheyenne, WY
CONTRACTOR:	Town & Country Plumbing, Inc.; Burns, WY
YEAR COMPLETED:	2000
SESSION LAW YEAR:	1997

58. PROJECT: **Casper Alcova**

SPONSOR:	Casper Alcova Irrigation District
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,263,000
ACTUAL EXPENDITURES:	$1,231,925
DESCRIPTION:	Canal lining
ENGINEER:	Soil Conservation Service
CONTRACTOR:	LaMax Construction; Basin, WY Central Contractors; Mills, WY Jerry's Irrigation; Powell, WY Hedquist Construction; Casper, WY 71 Construction, Casper; WY
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1985

59. PROJECT: **Casper Alcova Ditch Rehabilitation**

SPONSOR:	Casper Alcova Irrigation District
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,174,800
ACTUAL EXPENDITURES:	$ 742,261
DESCRIPTION:	Pipe laterals 256-680&681, 128-170, pipe drop 239
ENGINEER:	Natural Resources Conservation Service; Casper, WY Inberg-Miller Engineers, Inc.; Casper, WY Worthington, Lenhart, and Carpenter, Inc.; Casper, WY
CONTRACTOR:	Casper Alcova Irrigation District Pioneer Irrigation Co.; Casper, WY Lanphier, Inc.; Lingle, WY
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2004, 2005, 2006

60. PROJECT: **Casper Alcova Rehabilitation 2009**

SPONSOR:	Casper Alcova Irrigation District
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$184,920
ACTUAL EXPENDITURES:	$ 83,855
DESCRIPTION:	Rehabilitate four Lateral 256 drop structures

ENGINEER:	WLC Engineering; Casper, WY
CONTRACTOR:	Lindstat Construction; Riverton, WY
YEAR COMPLETED:	2010
SESSION LAW YEAR:	2009

61. **PROJECT:** **Casper Alcova Rehabilitation 2010**

SPONSOR:	Casper Alcova Irrigation District
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$477,040
ACTUAL EXPENDITURES:	$473,548
DESCRIPTION:	Pipe Lateral 210 and 210-250
ENGINEER:	WLC Engineering, Surveying, & Planning; Casper, WY
CONTRACTOR:	Grizzly Excavation & Construction; Casper, WY
YEAR COMPLETED:	2013
SESSION LAW YEAR:	2010

62. **PROJECT:** **Casper Alcova Rehabilitation 2015**

SPONSOR:	Casper Alcova Irrigation District
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$187,600
ACTUAL EXPENDITURES:	$70,607
DESCRIPTION:	Converting segment of ditch to buried pipe
ENGINEER:	WLC, Engineering; Casper, WY
CONTRACTOR:	Ferguson Enterprises, Inc.; Casper, WY
YEAR COMPLETED:	2018
SESSION LAW YEAR:	2015

63. **PROJECT:** **Casper Alcova Tunnel Rehabilitation**

SPONSOR:	Casper Alcova Irrigation District
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$170,000
ACTUAL EXPENDITURES:	$ 85,000
DESCRIPTION:	Repair concrete cracks, Tunnels 3 & 4 Casper Canal
ENGINEER:	Inberg-Miller Engineers, Inc.; Casper, WY
CONTRACTOR:	Cook's Fabrication, Mills; WY
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2003

64. **PROJECT:** **Casper Effluent Water Supply**

SPONSOR:	City of Casper
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$600,000
ACTUAL EXPENDITURES:	NONE – Project terminated by Sponsor prior to design.
DESCRIPTION:	Irrigation project for the North Casper Recreation Complex utilizing wastewater treatment plant effluent.

ENGINEER: N.A.
CONTRACTOR: N.A.
YEAR COMPLETED: N.A.
SESSION LAW YEAR: 2000

65. PROJECT: Casper Paradise Valley Pipeline
SPONSOR: City of Casper
LOCATION: Natrona County
PROGRAM: New Development
APPROPRIATION: $1,139,000
ACTUAL EXPENDITURES: $ 595,994
DESCRIPTION: Construction of 16-inch pipeline and appurtenances in Paradise Drive from CY Avenue to a pipeline on the north side of the North Platte River.
ENGINEER: WWC Engineering; Casper, WY
CONTRACTOR: Andreen Hunt Construction; Casper, WY
YEAR COMPLETED: 2011
SESSION LAW YEAR: 2009

66. PROJECT: Casper Poplar Transmission Pipeline
SPONSOR: City of Casper
LOCATION: Natrona County
PROGRAM: New Development
APPROPRIATION: $1,541,000
ACTUAL EXPENDITURES: $1,026,949
DESCRIPTION: Design and construction of a transmission pipeline.
ENGINEER: Civil Engineering Professionals, Inc.
CONTRACTOR: Hedquist Construction, Inc.
YEAR COMPLETED: 2016
SESSION LAW YEAR: 2012

67. PROJECT: Casper Raw Water Irrigation Supply Project
SPONSOR: City of Casper
LOCATION: Natrona County
PROGRAM: New Development
APPROPRIATION: $452,500
ACTUAL EXPENDITURES: $435,811
DESCRIPTION: Raw water supply system from the North Platte River to irrigate soccer fields.
ENGINEER: CEPI, Inc.; Casper; WY
CONTRACTOR: 71 Construction; Casper, WY
YEAR COMPLETED: 2007
SESSION LAW YEAR: 2004

68. PROJECT: Casper Raw Water Supply
SPONSOR: City of Casper
LOCATION: Natrona County
PROGRAM: Rehabilitation
APPROPRIATION: $1,600,000
ACTUAL EXPENDITURES: $1,117,314
DESCRIPTION: Diversion structure, dam rehabilitation, pipeline

	ENGINEER:	Civil Engineering Professionals, Inc.; Casper, WY
	CONTRACTOR:	Lamax Construction, Inc.; Basin, WY
	YEAR COMPLETED:	1994
	SESSION LAW YEAR:	1989
69.	**PROJECT:**	**Casper Raw Water Supply II**
	SPONSOR:	City of Casper
	LOCATION:	Natrona County
	PROGRAM:	New Development
	APPROPRIATION:	$487,559
	ACTUAL EXPENDITURES:	$487,559
	DESCRIPTION:	Design and construction of a transmission pipeline.
	ENGINEER:	WWC Engineering
	CONTRACTOR:	High Plains Construction, Inc.
	YEAR COMPLETED:	2016
	SESSION LAW YEAR:	2013
70.	**PROJECT:**	**Casper Rock Creek Dam Rehabilitation**
	SPONSOR:	City of Casper
	LOCATION:	Fremont County (Project), Natrona County (Beneficiary)
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$834,150
	ACTUAL EXPENDITURES:	$834,150
	DESCRIPTION:	Outlet works, spillway rehab, SCADA and electrical
	ENGINEER:	Civil Engineering Professionals, Inc.; Casper, WY
	CONTRACTOR:	Rice-Kilroy Construction, Inc.; Dubois, WY Automation and Electronics, Inc.; Casper, WY Rocky Mountain Line Systems, Inc.; Mills, WY
	YEAR COMPLETED:	2011
	SESSION LAW YEAR:	2008
71.	**PROJECT:**	**Casper Zone II**
	SPONSOR:	City of Casper
	LOCATION:	Natrona County
	PROGRAM:	New Construction
	APPROPRIATION:	$3,188,000
	ACTUAL EXPENDITURES:	$1,366,401
	DESCRIPTION:	This project was constructed in two phases. The first phase consisted of a transmission pipeline that was installed as part of the 21st street extension. The second phase was the construction of the remainder of the transmission pipeline and water storage tank east of Casper.
	ENGINEER:	Civil Engineering Professionals, Inc.
	CONTRACTORS:	JTL Group; Cheyenne, WY Hedquist Construction, Inc.; Casper, WY
	YEAR COMPLETED:	2007
	SESSION LAW YEAR:	2002
72.	**PROJECT:**	**Casper Zone II – Phase II**
	SPONSOR:	City of Casper
	LOCATION:	Natrona County
	PROGRAM:	New Development
	APPROPRIATION:	$1,300,000

ACTUAL EXPENDITURES: $1,150,292
DESCRIPTION: Construction of a transmission pipeline, storage tank and SCADA controls in the city's Zone II pressure zone.
ENGINEER: Civil Engineering Professionals, Inc.
CONTRACTOR: Andreen Hunt Construction, Inc.; Casper, WY
YEAR COMPLETED: 2008
SESSION LAW YEAR: 2005

73. PROJECT: Casper Zone III
SPONSOR: City of Casper
LOCATION: Natrona County
PROGRAM: New Construction
APPROPRIATION: $3,200,000
ACTUAL EXPENDITURES: $1,873,848
DESCRIPTION: Design and construction of transmission pipelines, a booster pump station and a storage tank.
ENGINEER: Civil Engineering Professionals, Inc.; Casper, WY
CONTRACTOR: High Plains Construction, Inc.; Casper, WY
YEAR COMPLETED: 2012
SESSION LAW YEAR: 2007

74. PROJECT: Casper Zone IV Improvements
SPONSOR: City of Casper
LOCATION: Natrona County
PROGRAM: New Development
APPROPRIATION: $663,300
ACTUAL EXPENDITURES: $475,538
DESCRIPTION: Increased the wall height of the existing 400,000 gallon welded steel water storage tank sixteen feet and construction of approximately 1,300 feet of 12-inch pipe.
ENGINEER: 609 Consulting, LLC; Casper WY
CONTRACTOR: High Plains Construction, Inc.; Mills, WY
YEAR COMPLETED: 2012
SESSION LAW YEAR: 2010

75. PROJECT: Centennial Water Supply
SPONSOR: Centennial Water and Sewer District
LOCATION: Albany County
PROGRAM: New Development
APPROPRIATION: $315,000
ACTUAL EXPENDITURES: $315,000
DESCRIPTION: Wells, pumps, pipeline, storage
ENGINEER: J.M. Montgomery; Laramie, WY
CONTRACTOR: Pete's Excavating; Torrington, WY
YEAR COMPLETED: 1993
SESSION LAW YEAR: 1990

76. PROJECT: Centennial Water Supply
SPONSOR: Centennial Water and Sewer District
LOCATION: Albany County
PROGRAM: New Development
APPROPRIATION: $110,000
ACTUAL EXPENDITURES: $110,000

DESCRIPTION: Buried concrete water storage tank
ENGINEER: Wester-Wetstein & Associates, Inc.; Laramie, WY
CONTRACTOR: Timberline Excavating, LLC; Laramie, WY
YEAR COMPLETED: 2001
SESSION LAW YEAR: 1999

77. PROJECT: Central Wyoming Regional Zone II B
SPONSOR: Central Wyoming Regional Water System JPB
LOCATION: Natrona County
PROGRAM: New Development
APPROPRIATION: $1,959,750
ACTUAL EXPENDITURES: $1,340,599
DESCRIPTION: Design and construction of a pump station and transmission pipeline.
ENGINEER: Civil Engineering Professionals, Inc.
CONTRACTOR: High Plains Construction Inc.
YEAR COMPLETED: 2015
SESSION LAW YEAR: 2011

78. PROJECT: Chamberlain Reservoir
SPONSOR: LaPrele Irrigation District
LOCATION: Converse County
PROGRAM: Rehabilitation
APPROPRIATION: $150,000
ACTUAL EXPENDITURES: $117,241
DESCRIPTION: Dam rehabilitation
ENGINEER: Western Water Consultants; Laramie, WY
CONTRACTOR: Domino Construction; Laramie, WY
YEAR COMPLETED: 1993
SESSION LAW YEAR: 1991

79. PROJECT: Cheyenne's Granite Dam Spillway Improvements
SPONSOR: City of Cheyenne Board of Public Utilities
LOCATION: Laramie County
PROGRAM: Rehabilitation
APPROPRIATION: $670,000
ACTUAL EXPENDITURES: $473,730
DESCRIPTION: Concrete spillway rehabilitation
ENGINEER: States West Water Resources; Cheyenne, WY
CONTRACTOR: Domson Incorporated; Torrington, WY
YEAR COMPLETED: 2009
SESSION LAW YEAR: 2008

80. PROJECT: Cheyenne King II Storage Facility
SPONSOR: City of Cheyenne
LOCATION: Laramie County
PROGRAM: New Development
APPROPRIATION: $1,534,000
ACTUAL EXPENDITURES: $1,510,000
DESCRIPTION: 15 MG storage facility

ENGINEER: Black & Veatch; Denver, CO
CONTRACTOR: TIC; Casper, WY
YEAR COMPLETED: 1996
SESSION LAW YEAR: 1993

81. PROJECT: Cheyenne R. L. Sherard Water Treatment Plant
SPONSOR: City of Cheyenne
LOCATION: Laramie County
PROGRAM: Public Purpose Investment
APPROPRIATION: $28,000,000 (permanent mineral trust fund loan)
ACTUAL EXPENDITURES: $28,000,000
DESCRIPTION: Construction of a new water treatment plant
ENGINEER: Brown and Caldwell, Denver, Colorado
CONTRACTOR: Danis Environmental Industries, Inc., Ohio
YEAR COMPLETED: 2003
SESSION LAW YEAR: 1998

82. PROJECT: Cheyenne Raw Water Supply
SPONSOR: City of Cheyenne
LOCATION: Laramie County
PROGRAM: Rehabilitation
APPROPRIATION: $1,800,000
ACTUAL EXPENDITURES: $1,800,000
DESCRIPTION: Irrigation of park lands
ENGINEER: States West Water Resources Corporation; Cheyenne, WY
CONTRACTOR: Excel Construction; Sheridan, WY
YEAR COMPLETED: 1999
SESSION LAW YEAR: 1997

83. PROJECT: Cheyenne Raw Water Supply #2
SPONSOR: City of Cheyenne
LOCATION: Laramie County
PROGRAM: New Development
APPROPRIATION: $5,000,000
ACTUAL EXPENDITURES: $4,992,769
DESCRIPTION: Transmission lines from the Crow Creek Wastewater plant to cemeteries. East High fields, VA center grounds, parkways, softball fields, and golf courses.
ENGINEER: States West Water Resources Corp.; Cheyenne, WY
CONTRACTOR: Mechanical Systems Inc.; Cheyenne WY
YEAR COMPLETED: 2008
SESSION LAW YEAR: 2003

84. PROJECT: Cheyenne South Crow Dam Water Supply Rehabilitation Project
SPONSOR: City of Cheyenne
LOCATION: Laramie County
PROGRAM: Rehabilitation
APPROPRIATION: $750,000
ACTUAL EXPENDITURES: $554,807
DESCRIPTION: Rehabilitation to existing dam and controls.

ENGINEER: States West Water Resources Corporation; Cheyenne, WY
CONTRACTOR: Moltz Constructors, Inc.; Cody, WY
YEAR COMPLETED: 2004
SESSION LAW YEAR: 2001, 2002

85. PROJECT: Cheyenne Southern Pipeline
SPONSOR: City of Cheyenne – Board of Public Utilities
LOCATION: Laramie County
PROGRAM: New Development
APPROPRIATION: $18,291,000
ACTUAL EXPENDITURES: $16,467,137
DESCRIPTION: Transmission
ENGINEER: Burns and McDonell
CONTRACTOR: Garney Construction
YEAR COMPLETED: 2013
SESSION LAW YEAR: 2015

86. PROJECT: Cheyenne Stage I Rehabilitation
SPONSOR: City of Cheyenne
LOCATION: Carbon and Albany Counties
PROGRAM: Rehabilitation
APPROPRIATION: $13,700,000
ACTUAL EXPENDITURES: $12,126,939
DESCRIPTION: Slip lining existing collection pipe and transmission line improvements
ENGINEER: CH2M Hill; Denver, CO
CONTRACTOR: Barcon Wyoming; Sheridan, WY
YEAR COMPLETED; 1999
SESSION LAW YEAR: 1993, 1995, 1996

87. PROJECT: Cheyenne Supply Pipeline
SPONSOR: City of Cheyenne
LOCATION: Laramie County
PROGRAM: New Development
APPROPRIATION: $14,000,000
ACTUAL EXPENDITURES: $14,000,000
DESCRIPTION: Parallel raw water transmission line from Crystal Dam to Sherard Water Treatment Plant
ENGINEER: Black and Veatch; Aurora, CO
CONTRACTOR: TCI Wyoming, Inc.; Casper, WY
YEAR COMPLETED: 2008
SESSION LAW YEAR: 2000, 2003, 2005

88. PROJECT: Cheyenne Upper North Crow Reservoir
SPONSOR: City of Cheyenne
LOCATION: Laramie County
PROGRAM: Rehabilitation
APPROPRIATION: $3,500,000
ACTUAL EXPENDITURES: $3,070,448
DESCRIPTION: Dam rehabilitation

	ENGINEER:	States West Water Resources Corporation; Cheyenne, WY
	CONTRACTOR:	Larry's Inc.; Gillette, WY
	YEAR COMPLETED:	1995
	SESSION LAW YEAR:	1991
89.	**PROJECT:**	**Cheyenne Water (Stage II)**
	SPONSOR:	City of Cheyenne
	LOCATION:	Carbon County
	PROGRAM:	New Development
	APPROPRIATION:	$20,000,000
	ACTUAL EXPENDITURES:	$20,000,000
	DESCRIPTION:	Dams (2), collector pipeline
	ENGINEER:	Banner Associates, Inc.; Laramie, WY
	CONTRACTOR:	Several
	YEAR COMPLETED:	1987
	SESSION LAW YEAR:	1980
90.	**PROJECT:**	**Cheyenne Water (Stage II)**
	SPONSOR:	City of Cheyenne
	LOCATION:	Carbon County
	PROGRAM:	Public Purpose Investment
	APPROPRIATION:	$40,000,000 (permanent mineral trust fund loan)
	ACTUAL EXPENDITURES:	$40,000,000
	DESCRIPTION:	Little Snake River collection system, enlargement or Hog Park reservoir, pipeline from Hog Park to Encampment
	ENGINEER:	Banner Associates, Inc.; Laramie, WY
	CONTRACTOR:	Johnson Brothers; Litchfield, MN
	YEAR COMPLETED:	1987
	SESSION LAW YEAR:	1980
91.	**PROJECT:**	**Cheyenne Well Rehabilitation**
	SPONSOR:	City of Cheyenne
	LOCATION:	Laramie County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$1,450,000
	ACTUAL EXPENDITURES:	$1,450,000
	DESCRIPTION:	Replace 15 wells in the municipal well field
	ENGINEER:	Bearlodge Ltd.; Sundance, WY Wester-Wetstein & Associates; Laramie, WY Weston Engineering, Inc.; Laramie, WY
	CONTRACTOR:	Sargent Irrigation; Scottsbluff, NE D.C. Drilling Co.; Lusk, WY Weston Engineering, Inc.; Upton, WY Magee Trucking; Cheyenne, WY Ward's Well Service; Riverton, WY
	YEAR COMPLETED:	1997
	SESSION LAW YEAR:	1988 and 1993
92.	**PROJECT:**	**Chugwater Water Supply**
	SPONSOR:	Town of Chugwater
	LOCATION:	Platte County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$103,500

ACTUAL EXPENDITURES: $101,818
DESCRIPTION: Pipeline
ENGINEER: States West Water Resources Corporation; Cheyenne, WY
CONTRACTOR: 71 Construction; Casper, WY
DATE COMPLETED: 1998
SESSION LAW DATE: 1997

93. PROJECT: Chugwater Water Supply
SPONSOR: Town of Chugwater
LOCATION: Platte County
PROGRAM: New Development
APPROPRIATION: $1,341,800
ACTUAL EXPENDITURES: $1,302,436
DESCRIPTION: Two wells, new concrete storage tank, rehabilitation of the old concrete storage tank, pipelines
ENGINEER: States West Water Resources Corporation; Cheyenne, WY
CONTRACTOR: Three Sons; Hanna; WY
Sargent Irrigation Co., Inc.; Scottsbluff, NE
Richardson Construction; Cheyenne, WY
D.C. Drilling, Inc.; Lusk, WY
Kelly-Deines Irrigation, Inc.; Gering, NE
DATE COMPLETED: 2007
SESSION LAW DATE: 1999, 2003, 2005, 2006

94. PROJECT: Clearview Water Supply
SPONSOR: Clearview Improvement and Service District
LOCATION: Sweetwater County
PROGRAM: New Development
APPROPRIATION: $245,000
ACTUAL EXPENDITURES: $167,500
DESCRIPTION: Pipeline
ENGINEER: Johnson-Fermelia Company, Inc.; Rock Springs, WY
CONTRACTOR: Lamax Construction; Basin, WY
YEAR COMPLETED: 1990
SESSION LAW YEAR: 1989

95. PROJECT: Cody Area Water Supply (Valley View)
SPONSOR: City of Cody
LOCATION: Park County
PROGRAM: New Development
APPROPRIATION: $785,000
ACTUAL EXPENDITURES: $785,000
DESCRIPTION: Potable water service to Valley View
ENGINEER: Engineering Associates; Cody, WY
CONTRACTOR: Harris Trucking**,** Cody; WY
YEAR COMPLETED: 1999
SESSION LAW YEAR: 1996

96. PROJECT: Cody Canal Chute
SPONSOR: Cody Canal Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $223,000

ACTUAL EXPENDITURES: $177,654
DESCRIPTION: Replace Newton Ave Chute with pipe drop
ENGINEER: Sage Civil Engineering, Cody, Wyoming
CONTRACTOR: Patrick Construction, Lander, Wyoming
YEAR COMPLETED: 2012
SESSION LAW YEAR: 2011

97. PROJECT: Cody Canal Drop Structure
SPONSOR: Cody Canal Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $50,000
ACTUAL EXPENDITURES: $36,959
DESCRIPTION: Replace Glory Hole Drop Structure
ENGINEER: Sage Civil Engineering, Cody, Wyoming
CONTRACTOR: Cody Canal Irrigation District
YEAR COMPLETED: 2012
SESSION LAW YEAR: 2011

98. PROJECT: Cody Canal Rehabilitation
SPONSOR: Cody Canal Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $1,375,000
ACTUAL EXPENDITURES: $1,161,876
DESCRIPTION: Replace Sulphur Creek Siphon, Spillway, Diamond Creek Flume
ENGINEER: Engineering Associates; Cody WY
CONTRACTOR: Excel Construction; Sheridan, WY
Sletten Construction; Cody, WY
YEAR COMPLETED: 2011
SESSION LAW YEAR: 2007, 2008

99. PROJECT: Cody Canal Rehabilitation 2013
SPONSOR: Cody Canal Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $144,000
ACTUAL EXPENDITURES: $ 41,210
DESCRIPTION: Replace 20th Street pipeline
ENGINEER: Engineering Associates; Cody, Wyoming
CONTRACTOR: Harris Trucking & Construction; Cody, Wyoming
YEAR COMPLETED: 2014
SESSION LAW YEAR: 2013

100. PROJECT: Cody Raw Water
SPONSOR: City of Cody
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $850,000
ACTUAL EXPENDITURES: $714,060
DESCRIPTION: Raw Water irrigation system rehabilitation

ENGINEER: Engineering Associates; Cody, WY
CONTRACTOR: Brandon Construction, Inc.; Powell, WY
YEAR COMPLETED: 2000
SESSION LAW YEAR: 1997

101. PROJECT: Cody West Transmission Pipeline
SPONSOR: City of Cody
LOCATION: Park County
PROGRAM: New Development
APPROPRIATION: $408,700
ACTUAL EXPENDITURES: $290,323
DESCRIPTION: Replacement and upsizing of transmission main
ENGINEER: GDA Engineers; Cody, WY
CONTRACTOR: Harris Trucking and Construction; Cody, WY
YEAR COMPLETED: 2013
SESSION LAW YEAR: 2012

102. PROJECT: Cokeville Tri-Diversion Dam
SPONSOR: Cokeville Watershed Improvement District
LOCATION: Lincoln County
PROGRAM: Rehabilitation
APPROPRIATION: $160,000
ACTUAL EXPENDITURES: $ 17,919
DESCRIPTION: Bank realignment, channel stabilization and placement of bank rip rap
ENGINEER: Rio Verde Engineering; Pinedale, WY
CONTRACTOR: Noble Construction; Cora, WY
YEAR COMPLETED: 2000
SESSION LAW YEAR: 1996

103. PROJECT: Cokeville Water Supply
SPONSOR: Town of Cokeville
LOCATION: Lincoln County
PROGRAM: New Development
APPROPRIATION: $629,000
ACTUAL EXPENDITURES: $629,000
DESCRIPTION: Wells, pumping station, transmission pipeline and storage tank
ENGINEER: Forsgren Associates; Evanston, WY
CONTRACTOR: JASCO, Inc.; Evanston, WY
YEAR COMPLETED: 1998
SESSION LAW YEAR: 1994

104. PROJECT: Collins Heights Water Supply
SPONSOR: Collins Heights Industrial Park I&S District
LOCATION: Campbell County
PROGRAM: New Development
APPROPRIATION: $200,000
ACTUAL EXPENDITURES: $141,182
DESCRIPTION: Transmission pipelines

ENGINEER:	Centennial Engineering and Research; Gillette, WY
CONTRACTOR:	S & S Builders; Gillette, WY
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1994

105. PROJECT: Cook Road Water Supply

SPONSOR:	Cook Road Water District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$1,700,000
ACTUAL EXPENDITURES:	$1,373,487
DESCRIPTION:	New tank and transmission pipelines
ENGINEER:	Stetson Engineering; Gillette, WY
CONTRACTOR:	Larry's Inc.; Gillette, WY
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1994, 1995

106. PROJECT: Cook Road Well

SPONSOR:	Cook Road Water District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$1,290,000
ACTUAL EXPENDITURES:	$1,308,779 (additional funds for water quality testing)
DESCRIPTION:	New well, connection piping to existing system and well house improvements
ENGINEER:	Stetson Engineering; Gillette, WY
CONTRACTOR:	Black Cat Construction; Gillette, WY Grosch Drilling; Yuma, CO
YEAR COMPLETED:	2013
SESSION LAW YEAR:	2010

107. PROJECT: Cowley Transmission Pipeline

SPONSOR:	Town of Cowley
LOCATION:	Big Horn County
PROGRAM:	New Development
APPROPRIATION:	$1,920,823
ACTUAL EXPENDITURES:	$1,806,869
DESCRIPTION:	Transmission Pipeline Construction
ENGINEER:	Prior Mountain Engineering; Cowley, WY
CONTRACTOR:	Mountain View Builders; Sheridan, WY
YEAR COMPLETED:	2015
SESSION LAW YEAR:	2008, 2013

108. PROJECT: Crestview Water Supply

SPONSOR:	Crestview Estates Improvement & Service District
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$41,000
ACTUAL EXPENDITURES:	$24,382
DESCRIPTION:	Tie in to Antelope Valley System

ENGINEER:	Bruce Engineering; Gillette, WY
CONTRACTOR:	EXP Backhoe; Gillette, WY
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2000

109. PROJECT: Crystal-Granite Dam Rehabilitation

SPONSOR:	City of Cheyenne
LOCATION:	Laramie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$4,100,000
ACTUAL EXPENDITURES:	$4,041,703
DESCRIPTION:	Dams (2)
ENGINEER:	Harza Engineering Company; Denver, CO
CONTRACTOR:	Gracon Construction Company; Loveland, CO
YEAR COMPLETED:	1989
SESSION LAW YEAR:	1985, 1989

110. PROJECT: Dayton Groundwater

LEVEL:	III
SPONSOR:	Town of Dayton
LOCATION:	Sheridan County
PROGRAM:	New Development
APPROPRIATION:	$3,000
ACTUAL EXPENDITURES:	$2,962
DESCRIPTION:	Sale of the well to the town, and purchase of trees for Right of Way Agreement.
ENGINEER:	NA
CONTRACTOR:	NA
YEAR COMPLETED:	2004
SESSION LAW YEARS:	2004

111. PROJECT: Dayton Water Supply Rehabilitation

SPONSOR:	Town of Dayton
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$619,200
ACTUAL EXPENDITURES:	$619,200
DESCRIPTION:	Replacement of a Water Transmission Line from the Water Treatment Plant to town and construction of a booster pump station at the Water Treatment Plant.
ENGINEER:	Entech, Inc. HKM Engineering; Sheridan, WY
CONTRACTOR:	Western Municipal; Sheridan, WY Hofer Building
YEAR COMPLETED:	2006
SESSION LAW YEAR:	2001 and 200

112. PROJECT: Deaver Canal Rehabilitation

SPONSOR:	Town of Deaver and Deaver Irrigation District
LOCATION:	Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$120,000
ACTUAL EXPENDITURES:	$ 51,786

DESCRIPTION:	Canal conversion to pipeline
ENGINEER:	Soil Conservation Service; Worland, WY
CONTRACTOR:	Deaver Irrigation District
YEAR COMPLETED:	1990
SESSION LAW YEAR:	1989

113. PROJECT: Deaver Flume Rehabilitation

SPONSOR:	Deaver Irrigation District
LOCATION:	Park/Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$210,000
ACTUAL EXPENDITURES:	$210,000
DESCRIPTION:	Deaver Siphon, steel liner for Polecat Flume
ENGINEER:	Engineering Associates, Inc.; Cody, WY
CONTRACTOR:	Deaver Irrigation District
MATERIALS:	Riverton Concrete Products, Inc.; Riverton, WY Production Machine Co., Inc.; Powell, WY Miller Fabrication, Inc.; Lovell, WY
YEAR COMPLETED:	2006
SESSION LAW YEAR:	2003, 2005

114. PROJECT: Deaver Flume Rehabilitation II

SPONSOR:	Deaver Irrigation District
LOCATION:	Park and Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$461,000
ACTUAL EXPENDITURES:	$461,000
DESCRIPTION:	Replace Frannie Flume, extend Lateral 114F siphon
ENGINEER:	Engineering Associates, Inc.; Cody, WY Sage Civil Engineering; Cody, WY
CONTRACTOR:	Deaver Irrigation District
MATERIALS:	Miller Fabrication, Inc.; Lovell, WY J&E Irrigation, Inc., Basin, WY
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2007

115. PROJECT: Deaver Rehabilitation 2009

SPONSOR:	Deaver Irrigation District
LOCATION:	Park and Bighorn Counties
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,023,000
ACTUAL EXPENDITURES:	$878,378
DESCRIPTION:	Converting segments of ditch to buried pipe
ENGINEER:	Sage Civil Engineering, Cody, WY Engineering Associates, Cody, WY
CONTRACTOR:	J&E Irrigation, Inc.; Basin, WY Big Horn Truck & Equipment, Inc.; Manderson, WY WDI Systems; Powell, WY Triple L Sales, Inc.; Cody, WY Ferguson Enterprises, Inc.; Casper, WY
YEAR COMPLETED:	2018
SESSION LAW YEAR:	2009

116. PROJECT: **Dixon Water Supply**

SPONSOR:	Town of Dixon
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$215,000
ACTUAL EXPENDITURES:	$215,000
DESCRIPTION:	Infiltration gallery and transmission pipeline
ENGINEER:	Lidstone and Anderson; Fort Collins, CO
CONTRACTOR:	Bartlett Construction; Hanna, WY
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1985, 1989

117. PROJECT: **Douglas Area Water Supply**

SPONSOR:	City of Douglas
LOCATION:	Converse County
PROGRAM:	New Development
APPROPRIATION:	$1,700,000
ACTUAL EXPENDITURES:	$1,676,442
DESCRIPTION:	Well, pipeline, storage facility
ENGINEER:	CEPI; Casper, WY
CONTRACTOR:	Hedquist Construction; Casper, WY
YEAR COMPLETED:	1995
SESSION LAW YEAR:	1992, 1994

118. PROJECT: **Douglas Intake Structure**

SPONSOR:	City of Douglas
LOCATION:	Converse County
PROGRAM:	Rehabilitation
APPROPRIATION:	$400,000
ACTUAL EXPENDITURES:	$307,872
DESCRIPTION:	Diversion and intake structure
ENGINEER:	CEPI; Casper, WY
CONTRACTOR:	Russell Construction; Douglas, WY
YEAR COMPLETED:	1993
SESSION LAW YEAR:	1991

119. PROJECT: **Douglas Water Supply Project**

SPONSOR:	City of Douglas
LOCATION:	Converse County
PROGRAM:	New Development
APPROPRIATION:	$2,070,000
ACTUAL EXPENDITURES:	$2,031,652
DESCRIPTION:	New Roof on spring house and addition of chlorination facilities. Construction of one new tank and rehabilitation of two other tanks. Construction of a new pump station for Wyoming Law Enforcement Academy.
ENGINEER:	Civil Engineering Professionals Inc.; Casper, WY
CONTRACTOR:	Salt Creek Welding; Casper, WY High Plains Construction; Casper, WY Water System Drilling; Gillette WY Russell Construction, Douglas, WY.
YEAR COMPLETED:	2004
SESSION LAW YEAR:	1999, 2003

120. PROJECT: **Downer Neighborhood Water Supply**

SPONSOR:	Downer Neighborhood Improvement and Service District
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,198,000
ACTUAL EXPENDITURES:	$ 868,650
DESCRIPTION:	Pipeline rehabilitation
ENGINEER:	HKM Engineering; Sheridan, WY
CONTRACTOR:	Hot Iron Construction; Gillette, WY
YEAR COMPLETED:	2003
SESSION LAW YEAR:	1999, 2001

121. PROJECT: **Dubois SCADA**

SPONSOR:	Town of Dubois
LOCATION:	Fremont County
PROGRAM:	New Development
APPROPRIATION:	$45,000
ACTUAL EXPENDITURES:	$45,000
DESCRIPTION:	New Telemetry System
ENGINEER:	Stetson Engineering; Gillette, WY
CONTRACTOR:	Electrical Experts; Dubois, WY
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2004

122. PROJECT: **Dubois Water Supply**

SPONSOR:	Town of Dubois
LOCATION:	Fremont County
PROGRAM:	New Development
APPROPRIATION:	$90,000
ACTUAL EXPENDITURES:	$83,108
DESCRIPTION:	Pump Station
ENGINEER:	Nelson Engineering; Jackson, WY
CONTRACTOR:	Wilkinson Construction; Dubois, WY
YEAR COMPLETED:	1994
SESSION LAW YEAR:	1992

123. PROJECT: **Dubois Water Supply**

LEVEL:	III
SPONSOR:	Town of Dubois
LOCATION:	Fremont
PROGRAM:	New Development
APPROPRIATION:	$2,157,000
ACTUAL EXPENDITURES:	$1,780,154
DESCRIPTION:	Well and Transmission Line
ENGINEER:	Stetson, Riverton WY
CONTRACTOR:	71 Construction, Riverton WY
YEAR COMPLETED:	2013
SESSION LAW YEAR:	2009, 2010

124. PROJECT: **Dubois Well Acquisition**

SPONSOR:	Town of Dubois
LOCATION:	Fremont
PROGRAM:	New Development

APPROPRIATION: $0
ACTUAL EXPENDITURES: $7,429
DESCRIPTION: Purchase of a Level II well (33% of actual well construction costs) from the WWDC.
ENGINEER: None
CONTRACTOR: None
YEAR COMPLETED: 2016
SESSION LAW YEAR: 2016

125. PROJECT: Dubois Well No. 11 Supply
LEVEL: III
SPONSOR: Town of Dubois
LOCATION: Fremont
PROGRAM: New Development
APPROPRIATION: $415,000
ACTUAL EXPENDITURES: $271,197
DESCRIPTION: Connect new well to system
ENGINEER: Stetson, Riverton WY
CONTRACTOR: 71 Construction; Riverton WY
YEAR COMPLETED: 2011
SESSION LAW YEAR: 2006, 2008

126. PROJECT: Eden Valley Irrigation District Rehabilitation–Phase I
SPONSOR: Eden Valley Irrigation and Drainage District
LOCATION: Sweetwater County
PROGRAM: Rehabilitation
APPROPRIATION: $1,508,000
ACTUAL EXPENDITURES: $1,460,402
DESCRIPTION: Laterals E-19 and E-25 diversion structures and HDPE pipeline replacement of 50,500 l.f. open lateral ditches
ENGINEER: NRCS; Riverton, WY; Nelson Engineering; Jackson, WY
CONTRACTOR: Johansen Construction; Mt. Pleasant, UT
YEAR COMPLETED: 2010
SESSION LAW YEAR: 2005

127. PROJECT: Eden Valley Rehabilitation 2011
SPONSOR: Eden Valley Irrigation and Drainage District
LOCATION: Sweetwater County
PROGRAM: Rehabilitation
APPROPRIATION: $1,713,000
ACTUAL EXPENDITURES: $1,710,431
DESCRIPTION: (Phase IV of Eden Valley Rehab 2009) Line Eden Canal with synthetic rubber liner covered with fiber-reinforced shotcrete, repair of existing concrete liner up and downstream of the siphon, and piping of open ditch irrigation laterals (E-5 and E-6) with HDPE pipe.
ENGINEER: JUB Engineers, Inc.
CONTRACTOR: Knife River Corporation
YEAR COMPLETED: 2011
SESSION LAW YEAR: 2011

128. PROJECT: **Edgerton/Midwest Water Supply**

SPONSOR:	Salt Creek Joint Powers Board
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$3,750,000
ACTUAL EXPENDITURES:	$3,208,580
DESCRIPTION:	Potable Water Transmission Pipeline
ENGINEER:	Worthington, Lenhart and Carpenter, Inc.; Casper, WY
CONTRACTOR:	Larry's, Inc.; Gillette; WY Bartlett, Inc.; Hanna, WY
YEAR COMPLETED:	1998
SESSION LAW YEAR:	1992

129. PROJECT: **Eight Mile/High Plains Well**

SPONSOR:	Eight Mile Improvement & Service District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$371,850
ACTUAL EXPENDITURES:	$371,850
DESCRIPTION:	Well, storage tank, and transmission pipeline
ENGINEER:	Wester-Wetstein & Associates; Laramie, WY
CONTRACTOR:	Miller Mechanical; Gillette, WY
YEAR COMPLETED:	2010
SESSION LAW YEAR:	2006

130. PROJECT: **Elk Mountain Water Supply**

SPONSOR:	Town of Elk Mountain
LOCATION:	Carbon County
PROGRAM:	New Development
APPROPRIATION:	$335,000
ACTUAL EXPENDITURES:	$331,743
DESCRIPTION:	Put Level II well on line
ENGINEER:	PMPC; Saratoga, WY
CONTRACTOR:	Bartlett Construction; Hanna, WY
YEAR COMPLETED:	1999
SESSION LAW YEAR:	1996

131. PROJECT: **Encampment Raw Water Line**

SPONSOR:	Town of Encampment
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$400,000
ACTUAL EXPENDITURES:	$268,043
DESCRIPTION:	Construction of a raw water pipeline in the Town's open ditch conveyance system. This project completes this pipeline from the end of the existing pipe to the water treatment plant.
ENGINEER:	PMPC Civil Engineers; Saratoga, WY
CONTRACTOR:	Three Way, Inc.; Gillette, WY and Hot Iron, Inc., Gillette, WY, a joint venture
YEAR COMPLETED:	2002
SESSION LAW YEAR:	2001, 2002

132. PROJECT: **Encampment Water**

SPONSOR:	Town of Encampment
LOCATION:	Carbon County
PROGRAM:	New Development
APPROPRIATION:	$200,000
ACTUAL EXPENDITURES:	$181,602
DESCRIPTION:	Diversion dam, pipeline
ENGINEER:	Probity Engineering; Cheyenne, WY
CONTRACTOR:	Great Divide Construction; Baggs, Wyoming
YEAR COMPLETED:	1988
SESSION LAW YEAR:	1985

133. PROJECT: **Encampment Water Supply**

SPONSOR:	Town of Encampment
LOCATION:	Carbon County
PROGRAM:	New Development
APPROPRIATION:	$137,000
ACTUAL EXPENDITURES:	$ 23,800
DESCRIPTION:	Expand municipal raw water irrigation system
ENGINEER:	Westerfield Engineering; Encampment, WY
CONTRACTOR:	Town of Encampment; Encampment, WY
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1998

134. PROJECT: **Etna Diversion Dam**

SPONSOR:	Etna Irrigation District
LOCATION:	Lincoln County
PROGRAM:	Rehabilitation
APPROPRIATION:	$200,000
ACTUAL EXPENDITURES:	$152,765
DESCRIPTION:	Diversion dam replacement
ENGINEER:	Forsgren Associates; Evanston, WY
CONTRACTOR:	T.J.G., Inc.; Evanston, WY
YEAR COMPLETED:	1991
SESSION LAW YEAR:	1991

135. PROJECT: **Etna Water Supply**

SPONSOR:	Etna Water and Sewer District
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$690,000
ACTUAL EXPENDITURES:	$630,666
DESCRIPTION:	Springs development, well and transmission line
ENGINEER:	Forsgren Associates Inc.; Evanston, WY
CONTRACTOR:	Peavler's Mountain Star Inc.; Afton, WY
YEAR COMPLETED:	2002
SESSION LAW YEAR:	1994 & 1998

136. PROJECT: **Evanston Raw Water Supply**

SPONSOR:	City of Evanston
LOCATION:	Uinta County
PROGRAM:	New Development
APPROPRIATION:	$1,500,000

ACTUAL EXPENDITURES: $1,500,000
DESCRIPTION: Irrigation pipeline, pumps and primary filters
ENGINEER: Sunrise Engineering, Inc.; Afton, WY
CONTRACTOR: Flare Construction; Coalville, UT
YEAR COMPLETED: 2000
SESSION LAW YEAR: 1998

137. PROJECT: Evansville Elkhorn Creek Water Supply
SPONSOR: Town of Evansville
LOCATION: Natrona County
PROGRAM: Rehabilitation
APPROPRIATION: $50,000
ACTUAL EXPENDITURES: $0
DESCRIPTION: Infiltration gallery and monitoring facility
ENGINEER: Hibsman Associates; Casper, WY
YEAR COMPLETED: 2000
SESSION LAW YEAR: 1996

138. PROJECT: Evansville Emergency Connection
SPONSOR: Town of Evansville
LOCATION: Natrona County
PROGRAM: New Development
APPROPRIATION: $141,370
ACTUAL EXPENDITURES: $165,160*
DESCRIPTION: Transmission pipeline.
ENGINEER: WLC; Casper, WY
CONTRACTOR: 71 Construction; Casper, WY
YEAR COMPLETED: 2018
SESSION LAW YEAR: 2013
*In 2017, the Wyoming Water Development Commission and the Select Water Committee approved $31,170 from Account I of the Sponsor's Contingency Fund. The Sponsor expended $23,790.03 of the approved contingency funds.

139. PROJECT: Evansville Water Supply
SPONSOR: Town of Evansville
LOCATION: Natrona County
PROGRAM: New Development
APPROPRIATION: $750,000
ACTUAL EXPENDITURES: $382,606
DESCRIPTION: Water storage tank
ENGINEER: Hibsman Associates; Casper, WY
CONTRACTOR: Bartlett Construction; Hanna, WY
YEAR COMPLETED: 1994
SESSION LAW YEAR: 1992

140. PROJECT: Fairview Water Supply
SPONSOR: Fairview Irrigation District
LOCATION: Lincoln County
PROGRAM: Rehabilitation
APPROPRIATION: $150,000
ACTUAL EXPENDITURES: $150,000
DESCRIPTION: Open canal to pipeline design

ENGINEER: ARIX; Riverton, WY
CONTRACTOR: NA
YEAR COMPLETED: 1990
SESSION LAW YEAR: 1988

141. PROJECT: Fairview Water Supply
SPONSOR: Fairview Water and Sewer District
LOCATION: Lincoln County
PROGRAM: New Development
APPROPRIATION: $502,000
ACTUAL EXPENDITURES: $391,640
DESCRIPTION: Well, storage and pipeline
ENGINEER: Forsgren Associates; Evanston, WY
CONTRACTOR: JASCO; Evanston, WY
YEAR COMPLETED: 1995
SESSION LAW YEAR: 1992

142. PROJECT: Farview Water Supply
SPONSOR: Farview Water District
LOCATION: Fremont County
PROGRAM: New Development
APPROPRIATION: $100,000
ACTUAL EXPENDITURES: $ 97,632
DESCRIPTION: Completion of a Level II well and pipeline
ENGINEER: Stetson Engineering; Riverton, WY
CONTRACTOR: 71 Construction; Riverton, WY
YEAR COMPLETED: 2012
SESSION LAW YEAR: 2010

143. PROJECT: Fayette Irrigation District
SPONSOR: Fayette Irrigation District
LOCATION: Sublette County
PROGRAM: Rehabilitation
APPROPRIATION: $ 75,000 (2002)
$160,000 (2006)
$235,000 TOTAL
ACTUAL EXPENDITURES: $216,774
DESCRIPTION: New diversion structure at West Lateral, re-routing part of West Lateral, reshaping and re-grading of West Lateral (10,100 l.f.), CMP culverts
ENGINEER: Rio Verde Engineering; Pinedale, WY
CONTRACTOR: Koch Construction; Daniel, WY
YEAR COMPLETED: 2010
SESSION LAW YEAR: 2002, 2006

144. PROJECT: Fayette Irrigation Rehabilitation
SPONSOR: Fayette Irrigation District
LOCATION: Sublette
PROGRAM: Rehabilitation
APPROPRIATION: $300,000
ACTUAL EXPENDITURES: $296,689
DESCRIPTION: Design and construction of water canal system improvements

ENGINEER: Jorgensen Engineering
CONTRACTOR: Teletractors Inc.
YEAR COMPLETED: 2017
SESSION LAW YEAR: 2012/2016

145. PROJECT: Ferris Diversion Dam Rehabilitation
SPONSOR: Ferris Irrigation District/Town of Torrington
LOCATION: Goshen County
PROGRAM: Rehabilitation
APPROPRIATION: $500,000
ACTUAL EXPENDITURES: $475,847
DESCRIPTION: Diversion dam, pipeline
ENGINEER: Western Water Consultants; Laramie, WY
CONTRACTOR: Pete's Excavation; Torrington, WY
YEAR COMPLETED: 1992
SESSION LAW YEAR: 1990

146. PROJECT: Fontenelle Dam Repair
SPONSOR: State of Wyoming
LOCATION: Sweetwater County
PROGRAM: Rehabilitation
APPROPRIATION: $3,500,000
ACTUAL EXPENDITURES: $3,247,283
DESCRIPTION: Dam
ENGINEER: Bureau of Reclamation
YEAR COMPLETED: 1989
SESSION LAW YEAR: 1986, 1989

147. PROJECT: Fort Laramie Storage Tank
SPONSOR: Town of Fort Laramie
LOCATION: Goshen County
PROGRAM: New Development
APPROPRIATION: $1,139,100
ACTUAL EXPENDITURES: $ 891,062
DESCRIPTION: Construction of a new elevated water storage tank
ENGINEER: Baker and Assoc.
CONTRACTOR: Maguire Iron, Inc., Sioux Falls, SD
YEAR COMPLETED: 2015
SESSION LAW YEAR: 2012/2013

148. PROJECT: Freedom Water Supply
SPONSOR: Freedom Water and Sewer District
LOCATION: Lincoln County
PROGRAM: New Development
APPROPRIATION: $737,000
ACTUAL EXPENDITURES: $678,899
DESCRIPTION: Well, storage, pipeline
ENGINEER: Forsgren; Evanston, WY
CONTRACTOR: Snyder Construction; Lyman, WY
YEAR COMPLETED: 1997
SESSION LAW YEAR: 1993

149. PROJECT: **Fremont Lake Reservoir**

SPONSOR:	Highland Irrigation District
LOCATION:	Sublette County
PROGRAM:	New Development
APPROPRIATION:	$457,834
ACTUAL EXPENDITURES:	$411,862
DESCRIPTION:	Dam, headgates
ENGINEER:	Soil Conservation Service
CONTRACTOR:	Bartlett Construction; Hanna, WY Noble Construction; Pinedale, WY
YEAR COMPLETED:	1994
SESSION LAW YEAR:	1982, 1986, 1992

150. PROJECT: **Gillette Central Zone Isolation Project**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$759,500
ACTUAL EXPENDITURES:	$379,621
DESCRIPTION:	New transmission line
ENGINEER:	Stetson Engineering; Gillette, WY
CONTRACTOR:	Hot Iron Inc.; Gillette, WY
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2001, 2002

151. PROJECT: **Gillette Fort Union Well Field**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,725,000
ACTUAL EXPENDITURES:	$1,331,818
DESCRIPTION:	Storage Tank, Pipeline
ENGINEER:	Stetson Engineering; Gillette, WY Wester-Wetstein; Laramie, WY
CONTRACTOR:	DRM Inc.; Gillette, WY Ruby Drilling; Gillette, WY
YEAR COMPLETED:	2000
SESSION LAW YEAR:	1995, 1996, 1998

152. PROJECT: **Gillette Fort Union Well Field – Phase I**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$1,000,000
ACTUAL EXPENDITURES:	$ 107,764
DESCRIPTION:	Well field and transmission pipeline
ENGINEER:	Wester-Wetstein & Assoc.; Laramie, WY
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2005

153. PROJECT: **Gillette Fort Union Wells**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$6,970,000
ACTUAL EXPENDITURES:	$4,497,726
DESCRIPTION:	Construction of five Fort Union formation wells and tie-in to the city's existing water system.
ENGINEER:	Morrison-Maierle; Billings, MT
CONTRACTOR:	Henkle Drilling; Fort Lupton, CO
YEAR COMPLETED:	2010
SESSION LAW YEAR:	2008

154. PROJECT: **Gillette Hidden Valley Storage and Transmission**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$1,350,000
ACTUAL EXPENDITURES:	$1,028,531
DESCRIPTION:	Storage Tank, Pipeline
ENGINEER:	Stetson Engineering, Gillette, WY
CONTRACTOR:	DRM Inc.; Gillette, WY
SESSION LAWS:	2000
COMPLETION YEAR:	2002

155. PROJECT: **Gillette Madison and Pine Ridge Tanks**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$550,000
ACTUAL EXPENDITURES:	$531,986
DESCRIPTION:	Construction of two 200,000-gallon storage reservoirs and rehabilitation of two existing storage reservoirs.
ENGINEER:	Stetson Engineering; Gillette, WY
CONTRACTOR:	DRM, Inc.; Gillette, WY
YEAR COMPLETED:	2007
SESSION LAW YEAR:	2004

156. PROJECT: **Gillette Madison Pipeline Joint Bonding**

SPONSOR:	City of Gillette
LOCATION:	Campbell and Crook Counties
PROGRAM:	Rehabilitation
APPROPRIATION:	$5,077,500
ACTUAL EXPENDITURES:	$4,159,467
DESCRIPTION:	Design and construction of a cathodic system for the Gillette Madison transmission pipeline.
ENGINEER:	Wester-Wetstein & Associates, Laramie, WY DOWL HKM, Sheridan, WY
CONTRACTOR:	Western Municipal Construction, Meeteetse, WY Garney of Wyoming, Guernsey, WY WBI Energy Corrosion Services, Billings, MT
YEAR COMPLETED:	2016
SESSION LAW YEAR:	2005, 2006, 2009, 2014, 2015

157. PROJECT: **Gillette Madison Well Field Expansion**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$1,628,250
ACTUAL EXPENDITURES:	$1,619,192
DESCRIPTION:	Two New Wells, Improvement of another well, pipeline
ENGINEER:	Wester-Wetstein; Gillette, WY
CONTRACTOR:	Jim's Water Service; Gillette, WY Hot Iron; Gillette, WY Tower Construction; Gillette, WY
YEAR COMPLETED:	2000
SESSION LAW YEAR:	1995, 1996

158. PROJECT: **Gillette Pipeline Project**

SPONSOR:	City of Gillette
LOCATION:	City of Gillette
PROGRAM:	New Development
APPROPRIATION:	$408,700
ACTUAL EXPENDITURES:	$301,684
DESCRIPTION:	Pipeline
ENGINEER:	Consolidated Engineers and Materials Testing; Gillette, WY
CONTRACTOR:	S&S Builders; Gillette, Wyoming
YEAR COMPLETED;	1995
SESSION LAW YEAR:	1993

159. PROJECT: **Gillette Rehabilitation**

LEVEL:	III
PROGRAM:	Rehabilitation
LOCATION:	Campbell County
SPONSOR:	City of Gillette
APPROPRIATION:	$300,000
ACTUAL EXPENDITURES:	$300,000
DESCRIPTION:	Installation electrical distribution cable, surge arresters, transformers, switch gear, and electrical controls.
ENGINEER:	Cooper Power Systems; Pittsburgh, PA Consolidated Engineering & Material Testing; Gillette, WY
CONTRACTOR:	Automation & Electronics; Casper, WY
YEAR COMPLETED:	2000
SESSION LAW YEAR;	1997

160. PROJECT: **Gillette Storage & East End Transmission Improvements**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$2,040,000
ACTUAL EXPENDITURES:	$1,095,729

	ENGINEER:	Stetson Engineering; Gillette, WY PCA; Gillette, WY.
	CONTRACTOR:	Larry's Inc.; Gillette, WY DRM; Gillette, WY
	YEAR COMPLETED:	2001
	SESSION LAW YEAR:	1998
161.	**PROJECT:**	**Glendo Well**
	SPONSOR:	Town of Glendo
	LOCATION:	Platte County
	PROGRAM:	New Development
	APPROPRIATION:	$780,000
	ACTUAL EXPENDITURES:	$292,404
	DESCRIPTION:	Installation a well pump and transmission pipeline to connect a Level II well to the town's water system.
	ENGINEER:	WWC Engineering; Laramie, WY
	CONTRACTOR:	Schmidt Earth Builders; Windsor CO
	YEAR COMPLETED:	2011
	SESSION LAW YEAR:	2007, 2009
162.	**PROJECT:**	**Glenrock Groundwater Supply**
	SPONSOR:	Town of Glenrock
	LOCATION:	Converse County
	PROGRAM:	New Development
	APPROPRIATION:	$1,822,000
	ACTUAL EXPENDITURES:	$1,639,709
	DESCRIPTION:	New Well, pipeline, controls
	ENGINEER:	Civil Engineering Professionals Inc.; Casper, WY
	CONTRACTOR:	71 Construction; Casper, WY
	YEAR COMPLETED:	2003
	SESSION LAW YEAR:	2000, 2002
163.	**PROJECT:**	**Glenrock Sunup Ridge Tank Rehabilitation**
	SPONSOR:	Town of Glenrock
	LOCATION:	Converse County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$132,750
	ACTUAL EXPENDITURES:	$129,824
	DESCRIPTION:	Storage reservoir interior and exterior coating systems
	ENGINEER:	CEPI; Casper, WY
	CONTRACTOR:	Wyoming Power Wash, Inc.; Casper, WY
	YEAR COMPLETED:	2007
	SESSION LAW YEAR:	2004
164.	**PROJECT:**	**Glenrock Tank Rehabilitation**
	SPONSOR:	Town of Glenrock
	LOCATION:	Converse County
	PROGRAM:	New Development
	APPROPRIATION:	$ 1,236,835
	ACTUAL EXPENDITURES:	$ 846,617
	DESCRIPTION:	Storage tank, yard piping

ENGINEER: CEPI; Casper, WY
CONTRACTOR: EAI; Loveland, CO
COMPLETION DATE: 2008
SESSION LAW YEAR: 2006

165. PROJECT: Glenrock Transmission Pipeline
SPONSOR: Town of Glenrock
LOCATION: Converse County
PROGRAM: New Development
APPROPRIATION: $381,900
ACTUAL EXPENDITURES: $322,722
DESCRIPTION: Transmission Pipeline Construction
ENGINEER: CEPI; Casper, WY
CONTRACTOR: High Plains Construction; Casper, WY
YEAR COMPLETED: 2017
SESSION LAW YEAR: 2014

166. PROJECT: Glenrock Water Supply
SPONSOR: Town of Glenrock
LOCATION: Converse County
PROGRAM: New Development
APPROPRIATION: $2,500,000
ACTUAL EXPENDITURES: $1,941,720
DESCRIPTION: Wells, pipeline
ENGINEER: Nelson Engineering; Jackson, WY
CONTRACTOR: Larry's Inc.; Gillette, WY
YEAR COMPLETED: 1987
SESSION LAW YEAR: 1986

167. PROJECT: Glenrock Well
LEVEL: III
SPONSOR: Town of Glenrock
LOCATION: Converse County
PROGRAM: New Development
APPROPRIATION: $ 700,000
ACTUAL EXPENDITURES: $ 614,137
DESCRIPTION: Connect new well to system
ENGINEER: CEPI; Casper WY
CONTRACTOR: High Plains; Casper WY
YEAR COMPLETED: 2011
SESSION LAW YEAR: 2008, 2009

168. PROJECT: Gooseberry Rehabilitation
LEVEL: III
SPONSOR: Gooseberry Creek Irrigation District
LOCATION: Washakie County
PROGRAM: Rehabilitation
APPROPRIATION: $1,260,000
ACTUAL EXPENDITURES: $1,207,767
DESCRIPTION: Rehabilitation of headgates and diversion structures

ENGINEER: Lidstone and Associates; Fort Collins CO
CONTRACTOR: COP Wyoming, LLC; Sheridan WY
YEAR COMPLETED: 2012
SESSION LAW YEAR: 2008, 2010

169. PROJECT: Goshen Canal Improvements
SPONSOR: Goshen Irrigation District
LOCATION: Goshen County
PROGRAM: Rehabilitation
APPROPRIATION: $24,500
ACTUAL EXPENDITURES: $24,303
DESCRIPTION: Automate three canal spillway gates
ENGINEER: Lidstone & Anderson; Fort Collins, CO
CONTRACTOR: Sutron Corporation; Sterling, VA
YEAR COMPLETED: 1996
SESSION LAW YEAR: 1993

170. PROJECT: Goshen Irrigation District Rehabilitation
SPONSOR: Goshen Irrigation District
LOCATION: Goshen County
PROGRAM: Rehabilitation
APPROPRIATION: $600,000
ACTUAL EXPENDITURES: $437,688
DESCRIPTION: Canal conversion to pipeline
ENGINEER: Kennedy Engineering; Wheatland, WY
CONTRACTOR: Goshen Irrigation District
YEAR COMPLETED: 1991
SESSION LAW YEAR: 1986

171. PROJECT: Goshen Irrigation District Water System
SPONSOR: Goshen Irrigation District
LOCATION: Goshen County
PROGRAM: Rehabilitation
APPROPRIATION: $2,226,000
ACTUAL EXPENDITURES: $2,226,000
DESCRIPTION: Automate 11 control sites, pipe 16 miles in 29 segments
ENGINEER: Anderson Consulting Engineers; Fort Collins, CO
CONTRACTOR: Goshen Irrigation District
Lanphier, Inc.; Lingle, WY
Waterman Industries, Inc.; Garden City, KS
Innovative Process Design, Inc.; Aurora, CO
Smitty's Repair Service, Inc.; Torrington, WY
YEAR COMPLETED: 2009
SESSION LAW YEAR: 2000, 2004

172. PROJECT: Goshen Pump Station
SPONSOR: Goshen Irrigation District
LOCATION: Goshen County
PROGRAM: Rehabilitation
APPROPRIATION: $330,000
ACTUAL EXPENDITURES: $330,000
DESCRIPTION: Pump station

ENGINEER: AVI; Cheyenne, Wyoming
Lidstone-Anderson; Ft. Collins, CO
CONTRACTOR: Bartlett Construction; Hanna, WY
John's Pump Service; Torrington, WY
YEAR COMPLETED: 1997
SESSION LAW YEAR: 1992, 1994, 1995, and 1996

173. PROJECT: Goshen Rehabilitation 2009
SPONSOR: Goshen Irrigation District
LOCATION: Goshen County
PROGRAM: Rehabilitation
APPROPRIATION: $1,200,000
ACTUAL EXPENDITURES: $1,126,139
DESCRIPTION: Horse Creek Automation, Table Mountain Lateral 83.6 and Springer Main 10.1 irrigation ditch to pipe conversion
ENGINEER: Anderson Consulting Engineers; Ft. Collins, CO
CONTRACTOR: Flowmation, Inc.; Brighton, CO
Smitty's Repair Service, Inc.; Torrington, WY
YEAR COMPLETED: 2012
SESSION LAW YEAR: 2009, 2011

174. PROJECT: Goshen Rehabilitation 2011 Project
SPONSOR: Goshen Irrigation District
LOCATION: Goshen County
PROGRAM: Rehabilitation
APPROPRIATION: $1,100,000
ACTUAL EXPENDITURES: $1,100,000
DESCRIPTION: Completion of Table Mountain Lateral ditch to pipeline conversion, Check Structure 45.1 rehabilitated
ENGINEER: Baker & Associates, Laramie, WY
CONTRACTOR: Aqua Systems 2000, Inc. Alberta, Canada; Smitty's Repair Service, Inc., Torrington, WY
YEAR COMPLETED: 2013
SESSION LAW YEAR: 2011

175. PROJECT: Granger Water Storage Project
SPONSOR: Town of Granger
LOCATION: Sweetwater County
PROGRAM: New Development
APPROPRIATION: $1,024,430
ACTUAL EXPENDITURES: $1,024,430
DESCRIPTION: 500,000 gallon storage tank, transmission line
ENGINEER: Nelson Engineering; Jackson, WY
CONTRACTOR: DYK, Inc.; El Cajon, CA
YEAR COMPLETED: 2011
SESSION LAW YEAR: 2007

176. PROJECT: Green River Supply Canal Rehabilitation
SPONSOR: Green River Irrigation District
LOCATION: Sublette County
PROGRAM: Rehabilitation
APPROPRIATION: $350,000
ACTUAL EXPENDITURES: $346,961

DESCRIPTION: Diversion and flume rehabilitation, canal reshaping
ENGINEER: Jack T. Doyle; Pinedale, WY
CONTRACTOR: Teletractors, Inc.; Pinedale, WY
YEAR COMPLETED: 2012
SESSION LAW YEAR: 2005, 2009

177. PROJECT: Green River/Rock Springs Water Treatment Plant
SPONSOR: GR-RS-SC JPWB
LOCATION: Sweetwater County
PROGRAM: Public Purpose Investment
APPROPRIATION: $24,000,000 (permanent mineral trust fund loan)
ACTUAL EXPENDITURES: $24,000,000
DESCRIPTION: Construction of a new water treatment plant
ENGINEER: Forsgren Associates; Evanston, WY
CONTRACTOR: Ellsworth Peck; American Fork, UT
Weststates Construction; Salt Lake City, UT
COMPLETION DATE: 2000
SESSION LAW: 1995

178. PROJECT: Greybull Crossing and Tank Project
SPONSOR: Town of Greybull
LOCATION: Big Horn County
PROGRAM: New Construction
APPROPRIATION: $1,850,000
ACTUAL EXPENDITURES: $1,255,658
DESCRIPTION: Big Horn River pipeline crossing, and a transmission pipeline to a new water storage tank.
ENGINEER: Crank Companies, Inc.; Diamondville, WY
CONTRACTOR: LaMax Construction; Basin, WY
YEAR COMPLETED: 2005
SESSION LAW YEAR: 2000

179. PROJECT: Greybull Highway 14 Crossing
SPONSOR: Town of Greybull
LOCATION: Big Horn County
PROGRAM: Rehabilitation
APPROPRIATION: $240,000
ACTUAL EXPENDITURES: $ 77,222
DESCRIPTION: Lower and reroute several of the Town of Greybull's potable water transmission pipelines for the Wyoming Department of Transportation's reconstruction of a portion of U.S. Highway 14.
ENGINEER: WYDOT; Cheyenne, WY
CONTRACTOR: Unknown
YEAR COMPLETED: 2005
SESSION LAW YEAR: 2003

180. PROJECT: Greybull Pipeline and Well Improvements Project
SPONSOR: Town of Greybull
LOCATION: Big Horn County
PROGRAM: Rehabilitation
APPROPRIATION: $1,470,000
ACTUAL EXPENDITURES: $ 860,854

	DESCRIPTION:	Design and construction of transmission pipeline and well improvements. The town's well field is located near the community of Shell, about 15 miles east of Greybull.
	ENGINEER:	Engineering Associates; Cody, WY
	CONTRACTOR:	LAMAX CONSTRUCTION, INC.; Basin, WY
	YEAR COMPLETED:	2011
	SESSION LAW YEAR:	2008
181.	**PROJECT:**	**Greybull Rehabilitation**
	SPONSOR:	Town of Greybull
	LOCATION:	Big Horn County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$355,000
	ACTUAL EXPENDITURES:	$322,764
	DESCRIPTION:	Water system rehabilitation
	ENGINEER:	Crank Companies, Inc.; Kemmerer, WY
	CONTRACTORS:	Lamax Construction; Basin, Wyoming Automation Electronics; Casper, WY
	YEAR COMPLETED;	2000
	SESSION LAW YEAR:	1996
182.	**PROJECT:**	**Greybull Shell Water Supply/Greybull Groundwater**
	SPONSOR:	Town of Greybull
	LOCATION:	Big Horn County
	PROGRAM:	New Development
	APPROPRIATION:	$517,000
	ACTUAL EXPENDITURES:	$517,000
	DESCRIPTION:	Pipeline, storage tank, and disinfection facilities
	CONTRACTOR	LaMax Construction, Inc.; Basin, WY
	COMPLETION DATE	2002
	SESSION LAW	1998, 1999
183.	**PROJECT:**	**Greybull Valley Dam and Reservoir**
	SPONSOR:	Greybull Valley Irrigation District
	LOCATION:	Big Horn County
	PROGRAM:	New Development
	APPROPRIATION:	$32,057,458
	ACTUAL EXPENDITURES:	$31,202,416
	DESCRIPTION:	Diversion structure, supply canal and dam
	ENGINEER:	URS, Inc.; Denver, CO
	CONTRACTOR:	Ogden Engineering and Construction, Inc.; Cody, WY
	YEAR COMPLETED:	2010
	SESSION LAW YEAR:	1994, 1996, 2002, 2005
184.	**PROJECT:**	**Greybull Valley ID Hydroelectric**
	SPONSOR:	Greybull Valley Irrigation District
	LOCATION:	Park/Big Horn County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$150,000
	ACTUAL EXPENDITURES:	$123,755
	DESCRIPTION:	Determined project feasibility

ENGINEER: AECOM; Denver, CO
YEAR COMPLETED: 2014
SESSION LAW YEAR: 2012

185. PROJECT: Grover Water Supply
SPONSOR: Grover Water and Sewer District
LOCATION: Lincoln County
PROGRAM: New Development
APPROPRIATION: $493,000
ACTUAL EXPENDITURES: $493,000
DESCRIPTION: Well storage, pipeline
ENGINEER: Forsgren Associates; Evanston, WY
CONTRACTOR: JASCO; Evanston, WY
YEAR COMPLETED: 1995
SESSION LAW YEAR: 1992

186. PROJECT: Guernsey Water Supply
SPONSOR: Town of Guernsey
LOCATION: Goshen County
PROGRAM: New Development
APPROPRIATION: $550,000
ACTUAL EXPENDITURES: $511,995
DESCRIPTION: Construction of a new well and a supply pipeline
ENGINEER: TST Engineering; Denver, CO
Weston Engineering; Laramie WY
CONTRACTOR: D. C. Drilling; Wheatland, WY
High Plains Construction; Casper, WY
YEAR COMPLETED: 2001
SESSION LAW YEAR: 1996

187. PROJECT: Gunbarrel Lateral Rehabilitation
SPONSOR: Platte County Resource District
LOCATION: Platte County
PROGRAM: Rehabilitation
APPROPRIATION: $250,000
ACTUAL EXPENDITURES: $210,782
DESCRIPTION: Replaced an open ditch with a buried pipeline.
Provided construction materials only.
ENGINEER: Natural Resources Conservation Service
CONTRACTOR: Sponsor
YEAR COMPLETED: 1999
SESSION LAW YEAR: 1997

188. PROJECT: GVID Upper Sunshine Diversion
SPONSOR: Greybull Valley Irrigation District
LOCATION: Big Horn County
PROGRAM: Rehabilitation
APPROPRIATION: $3,900,000
ACTUAL EXPENDITURES: $3,891,391
DESCRIPTION: Replacement of the Upper Sunshine Diversion on the Greybull River.

ENGINEER:	Wenck & Associates; Cheyenne, WY
CONTRACTOR:	Groathouse Construction; Laramie, WY
YEAR COMPLETED:	2013
SESSION LAW YEAR:	2009, 2011

189. PROJECT: Hanover Flume Rehabilitation

SPONSOR:	Hanover Irrigation District
LOCATION:	Washakie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$87,000
ACTUAL EXPENDITURES:	$43,500
DESCRIPTION:	Coat steel flume liner
ENGINEER:	Engineering Associates, Inc.; Cody, WY
CONTRACTOR:	Industrial Coatings, Inc.; Great Falls, MT
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2003

190. PROJECT: Hanover Irrigation

SPONSOR:	Hanover Irrigation District
LOCATION:	Washakie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$600,000
ACTUAL EXPENDITURES:	$600,000
DESCRIPTION:	Moss catcher and structure
ENGINEER:	Crank Companies, Inc.; Kemmerer, WY
CONTRACTOR:	R-D Construction; Casper, WY Magic Valley Heliac; Twin Falls, ID
YEAR COMPLETED:	1992
SESSION LAW YEAR:	1990

191. PROJECT: Hartville Water Supply

SPONSOR:	Town of Hartville
LOCATION:	Platte County
PROGRAM:	New Development
APPROPRIATION:	$0
ACTUAL EXPENDITURES:	$0
DESCRIPTION:	Authorize transfer Level II well to town for $19,020.
ENGINEER:	NA
CONTRACTOR:	NA
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1998

192. PROJECT: Hawk Springs

SPONSOR:	Horse Creek Conservation District
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$8,871,000
ACTUAL EXPENDITURES:	$8,491,098
DESCRIPTION:	Dams, canals

ENGINEER: Soil Conservation Service; Casper, WY
DMJM; Denver, CO
Stone and Webster; Denver, CO
CONTRACTOR: Larry's Plumbing and Heating; Gillette, WY
Scott and Son; Torrington, WY
Lower and Co., Casper, WY
DATE COMPLETED: 1989
SESSION LAW DATE: 1983, 1985, 1993

193. PROJECT: Heart Mountain Lining
SPONSOR: Heart Mountain Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $978,000
ACTUAL EXPENDITURES: $758,863
DESCRIPTION: Replace concrete inlet of Buck Springs Siphon
ENGINEER: Engineering Associates, Inc.; Cody, WY
CONTRACTOR: Reiman Corporation; Cheyenne, WY
YEAR COMPLETED: 2010
SESSION LAW YEAR: 2007, 2008

194. PROJECT: Heart Mountain Pipe Conversion
SPONSOR: Heart Mountain Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $715,340
ACTUAL EXPENDITURES: $715,340
DESCRIPTION: Pipe laterals H28, R39, part of R15-2N&6N
ENGINEER: Engineering Associates; Cody, WY
CONTRACTOR: Heart Mountain Irrigation District
DATE COMPLETED: 2008
SESSION LAW DATE: 2004, 2006

195. PROJECT: Heart Mountain Rehabilitation
SPONSOR: Heart Mountain Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $1,574,500
ACTUAL EXPENDITURES: $ 835,030
DESCRIPTION: Pipe laterals R15-2N & 6N, R26, R28, Weed Screen on Heart Mountain Canal
ENGINEER: Engineering Associates, Inc.; Cody, WY
CONTRACTOR: Heart Mountain Irrigation District
MATERIALS: Waterworks Irrigation, Inc.; Ralston, WY
J&E Irrigation, Inc.; Basin, WY
Miller's Fabrication & Construction, Inc.; Lovell, WY
YEAR COMPLETED: 2012
SESSION LAW YEAR: 2008

196. PROJECT: Heart Mountain Rehabilitation 2010
SPONSOR: Heart Mountain Irrigation District
LOCATION: Click here to enter text.
PROGRAM: Rehabilitation

APPROPRIATION:	$1,990,000
ACTUAL EXPENDITURES:	$1,963,075
DESCRIPTION:	Replace open ditches with pipe.
ENGINEER:	Sage Civil Engineering; Cody, WY
CONTRACTOR:	Rubicon Systems America, Inc.; Fort Collins, CO Waterworks Irrigation, Inc.; Ralston, WY Triple L Sales; Cody, WY Yellowstone Computer Service; Cody, WY Big Horn Truck and Equipment, Inc.; Manderson, WY
YEAR COMPLETED:	2018
SESSION LAW YEAR:	2010

197. PROJECT: Hidden Valley

SPONSOR:	Midvale Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$2,969,543
ACTUAL EXPENDITURES:	$2,854,367
DESCRIPTION:	Gravity pressure irrigation delivery pipeline
ENGINEER:	Natural Resources Conservation Service Anderson Consulting Engineers; Fort Collins, CO
CONTRACTOR:	Midvale Irrigation District
DATE COMPLETED:	2010
SESSION LAW DATE:	2004, 2006

198. PROJECT: Highland Hanover Rehabilitation

SPONSOR:	Highland Hanover Irrigation District
LOCATION:	Washakie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$536,000
ACTUAL EXPENDITURES:	$536,000
DESCRIPTION:	Pump station rehab; canal and lateral repairs
ENGINEER:	Nelson Engineering; Jackson, WY
CONTRACTOR:	Mainline Construction; Billings, MT Big Horn Red-Mix; Worland, WY Tesco Electric; Worland, WY
YEAR COMPLETED:	1994
SESSION LAW YEAR:	1989

199. PROJECT: Highline Canal

SPONSOR:	Shell Valley Watershed Improvement District
LOCATION:	Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$808,050
ACTUAL EXPENDITURES:	$714,608
DESCRIPTION:	Construction of a replacement diversion structure; installation of a pipeline in the canal; and installation of new delivery structures.
ENGINEER:	Sage Civil Engineering; Cody WY
CONTRACTOR:	Wilson Brothers Construction; Cowley WY
YEAR COMPLETED:	2013
SESSION LAW YEAR:	2008

200. PROJECT: **Highline Ditch Rehabilitation**

SPONSOR:	Highline Irrigation District
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$260,000
ACTUAL EXPENDITURES:	$231,560
DESCRIPTION:	Diversion dam, pipeline
ENGINEER:	Engineering, Inc.; Sheridan, WY
CONTRACTOR:	Fletcher Construction; Sheridan, WY
YEAR COMPLETED:	1990
SESSION LAW DATE:	1988

201. PROJECT: **Highline Irrigation Ditch Rehabilitation**

SPONSOR:	Highline Watershed Improvement District
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$726,000
ACTUAL EXPENDITURES:	$726,000
DESCRIPTION:	Ditch erosion control and renovation
ENGINEER:	PMPC, Inc.; Saratoga, WY
CONTRACTOR:	A & D Dozers, Inc.; Rawlins, WY
YEAR COMPLETED:	2002
SESSION LAW YEAR:	2000

202. PROJECT: **High Savery Dam and Reservoir**

SPONSOR:	The State of Wyoming
LOCATION:	Carbon County
PROGRAM:	New Development
APPROPRIATION:	$33,800,000
ACTUAL EXPENDITURES:	$31,527,606
DESCRIPTION:	Dam and reservoir
ENGINEER:	States West Water Resources Corporation; Cheyenne, WY
CONTRACTOR:	Ames Construction, Inc.; Denver, CO
YEAR COMPLETED:	2010
SESSION LAW YEAR:	1988, 1989, 1993, 2001

203. PROJECT: **Hopkins Producers Supply**

SPONSOR:	Hopkins Producers Irrigation District
LOCATION:	Johnson County
PROGRAM:	Rehabilitation
APPROPRIATION:	$703,500
ACTUAL EXPENDITURES:	$702,538
DESCRIPTION:	Construction of gravity pipelines to replace the Hopkins Irrigation Canal.
ENGINEER:	Natural Resource Conservation Service; Casper, WY Grizzly Engineering; Buffalo, WY
CONTRACTOR:	Mulinax Concrete Service Co., Inc.; Sheridan, WY Johansen Construction; Mt. Pleasant, UT
YEAR COMPLETED:	2010
SESSION LAW YEAR:	2006

204. PROJECT: **Horse Creek Conservation District Rehabilitation**

SPONSOR:	Horse Creek Conservation District
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$246,600
ACTUAL EXPENDITURES:	$190,124
DESCRIPTION:	Replace ditch with pipe, install structures
ENGINEER:	PMPC; Saratoga, WY BenchMark Engineering; Torrington, WY
CONTRACTOR:	Horse Creek Conservation District; Hawk Springs, WY
MATERIALS:	Shively Hardware Co.; Saratoga, WY Vaughn Concrete Products, Inc.; Cheyenne, WY Lanphier, Inc.; Lingle, WY Panhandle Concrete Products, Inc.; Scottsbluff, NE
YEAR COMPLETED:	2001
SESSION LAW DATE:	1999

205. PROJECT: **Hudson Water Supply**

LEVEL:	III
SPONSOR:	Town of Hudson
LOCATION:	Fremont County
PROGRAM:	New Development
APPROPRIATION:	$1,520,000
ACTUAL EXPENDITURES:	$ 617,566
DESCRIPTION:	Replacement of 10 alluvial wells and collection system
ENGINEER:	James Gores and Associates; Riverton, WY
CONTRACTOR:	Jerry Bornhoft Construction, Inc.; Riverton WY
YEAR COMPLETED:	2012
SESSION LAW YEAR:	2009

206. PROJECT: **Hugus-Mullison Ditch (Hugus Ditch)**

SPONSOR:	Hugus Watershed improvement District
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$325,000
ACTUAL EXPENDITURES:	$303,107
DESCRIPTION:	Renovation of the existing ditch to improve several street crossings, improve overflow structures, and provide a concrete lining in that portion of the ditch which passes through the Town.
ENGINEER:	PMPC Civil Engineers; Saratoga, WY
CONTRACTOR:	Foster Construction Co., Inc.; Riverton, WY
YEAR COMPLETED:	2002
SESSION LAW YEAR:	2001

207. PROJECT: **Hulett Water Supply**

SPONSOR:	Town of Hulett
LOCATION:	Crook County
PROGRAM:	New Development
APPROPRIATION:	$250,000
ACTUAL EXPENDITURES:	$246,635
DESCRIPTION:	Pump, storage tank and pipeline

ENGINEER: Weston Engineering; Upton, WY
CONTRACTOR: S & S Builders; Gillette, WY
YEAR COMPLETED: 1994
SESSION LAW DATE: 1991

208. PROJECT: Hunt Canal Rehabilitation
SPONSOR: Hunt Irrigation District
LOCATION: Big Horn County
PROGRAM: Rehabilitation
APPROPRIATION: $650,000
ACTUAL EXPENDITURES: $640,000
DESCRIPTION: Diversion dam and headgate replacement, canal repairs
ENGINEER: Nelson Engineering; Jackson, WY
CONTRACTOR: Nichols and Lewis; Lovell, WY
YEAR COMPLETED: 1994
SESSION LAW DATE: 1990

209. PROJECT: Hyattville Water Supply Project
SPONSOR: Hyattville Improvement and Service District
LOCATION: Big Horn County
PROGRAM: New Construction
APPROPRIATION: $835,000
ACTUAL EXPENDITURES: $793,424
DESCRIPTION: New transmission pipelines, pipeline connections to the new well and well house enclosure. This system does not have a water storage tank. It operates off of the wellhead pressure and flow.
ENGINEER: Wester-Wetstein; Laramie, WY
CONTRACTOR: Wilson Brothers Construction; Lovell, WY
YEAR COMPLETED: 2009
SESSION LAW YEAR: 2006

210. PROJECT: Indian Springs Water Supply
SPONSOR: Indian Springs Improvement and Service District
LOCATION: Natrona County
PROGRAM: New Development
APPROPRIATION: $150,000
ACTUAL EXPENDITURES: $107,713
DESCRIPTION: Transmission pipeline
ENGINEER: Hibsman Associates; Casper, WY
CONTRACTOR: High Plains Construction; Mills, WY
YEAR COMPLETED: 1994
SESSION LAW YEAR: 1992

211. PROJECT: Iron Creek Rehabilitation
SPONSOR: Shoshone/Deaver Irrigation Districts
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $1,500,000
ACTUAL EXPENDITURES: $1,500,000
DESCRIPTION: Tunnel repair

	ENGINEER:	Harza Engineering Company; Denver, CO
	CONTRACTOR:	Shoshone Irrigation District
	YEAR COMPLETED:	1987
	SESSION LAW DATE:	1984
212.	**PROJECT:**	**Jackson Raw Water Supply**
	SPONSOR:	Town of Jackson
	LOCATION:	Teton County
	PROGRAM:	New Development
	APPROPRIATION:	$450,000
	ACTUAL EXPENDITURES:	$450,000
	DESCRIPTION:	Irrigation and thaw wells, pipeline, and pumps
	ENGINEER:	Nelson Engineering; Jackson, WY
	CONTRACTOR:	Thomas Drilling; Afton, WY G.M. Stewart Corporation; Evanston, WY
	YEAR COMPLETED;	2001
	SESSION LAW YEAR;	1999
213.	**PROJECT:**	**Jackson Storage Tanks**
	SPONSOR:	Town of Jackson
	LOCATION:	Teton County
	PROGRAM:	New Development
	APPROPRIATION:	$4,000,000
	ACTUAL EXPENDITURES:	$3,509,230
	DESCRIPTION:	Replacement of two ground level storage tanks
	ENGINEER:	Nelson Engineering; Jackson, WY
	CONTRACTOR:	MD Nursery & Landscaping; Driggs, ID Westwood Curtis Construction; Jackson, WY
	YEAR COMPLETED:	2012
	SESSION LAW YEAR:	2010
214.	**PROJECT:**	**Jackson Water Supply**
	SPONSOR:	Town of Jackson
	LOCATION:	Teton County
	PROGRAM:	New Development
	APPROPRIATION:	$2,300,000
	ACTUAL EXPENDITURES:	$1,952,515
	DESCRIPTION:	Three new wells with control building
	ENGINEER:	Nelson Engineering; Jackson, WY
	CONTRACTOR:	H-K Contractors, Inc.; Idaho Falls, ID
	YEAR COMPLETED:	1998
	SESSION LAW YEAR:	1994
215.	**PROJECT:**	**Jeffrey City Water System Improvements**
	SPONSOR:	Jeffrey City Water & Sewer District
	LOCATION:	Freemont County
	PROGRAM:	New Development
	APPROPRIATION:	$418,750
	ACTUAL EXPENDITURES:	$352,526
	DESCRIPTION:	Well improvements, new well, storage tanks, piping and appurtenances

ENGINEER:	609 Consulting; Casper, WY
CONTRACTOR:	Atnip Construction; Cody, WY
	High Plains Construction; Casper, WY
YEAR COMPLETED:	2018
SESSION LAW YEAR:	2013

216. PROJECT: Jon's Drop/Four Mile Flume Rehabilitation

SPONSOR:	Savery-Little Snake Water Conservancy District
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$142,000
ACTUAL EXPENDITURES:	$ 90,254
DESCRIPTION:	Renovation
ENGINEER:	Merrill Engineering Consultants; WY
CONTRACTOR:	Willies Dirt Service; Wamsutter WY
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2003

217. PROJECT: Kaycee Replacement Tank

SPONSOR:	Town of Kaycee
LOCATION:	Johnson County
PROGRAM:	New Development
APPROPRIATION:	$435,500
ACTUAL EXPENDITURES:	$404,185
DESCRIPTION:	Storage tank construction
ENGINEER:	Engineering Associates; Cody, WY
CONTRACTOR:	Dale Weaver Wyoming; Powell, WY
YEAR COMPLETED:	2017
SESSION LAW YEAR:	2015

218. PROJECT: Kaycee Storage & Transmission

SPONSOR:	Town of Kaycee
LOCATION:	Johnson County
PROGRAM:	New Development
APPROPRIATION:	$2,350,000
ACTUAL EXPENDITURES:	$1,174,883
DESCRIPTION:	Storage tank, transmission pipeline, control valves
ENGINEER:	CEPI; Casper, WY
CONTRACTOR:	High Plains; Casper, WY
COMPLETION DATE	4/21/2009
SESSION LAW	2006

219. PROJECT: Kemmerer City Dam Rehabilitation

SPONSOR:	City of Kemmerer
LOCATION:	Lincoln County
PROGRAM:	Rehabilitation
APPROPRIATION:	$940,000
ACTUAL EXPENDITURES:	$940,000
DESCRIPTION:	Dam repair
ENGINEER:	Woodward-Clyde Consultants; Denver, CO
CONTRACTOR:	Nicholas Construction Company; Denver, CO
YEAR COMPLETED:	1990
SESSION LAW YEAR:	1988, 1990

220. PROJECT: **Kemmerer-Diamondville Water System**

SPONSOR:	Kemmerer-Diamondville Joint Power Water Board
LOCATION:	Lincoln
PROGRAM:	New Development
APPROPRIATION:	$1,587,900
ACTUAL EXPENDITURES:	$1,185,838
DESCRIPTION:	Design and construction of a storage tank and pipeline
ENGINEER:	Sunrise Engineering, Afton, WY
CONTRACTOR:	Dale Cox Contracting, Manti, UT
YEAR COMPLETED:	2017
SESSION LAW YEAR:	2015

221. PROJECT: **Kirby Ditch**

SPONSOR:	Kirby Irrigation District
LOCATION:	Hot Springs County
PROGRAM:	Rehabilitation
APPROPRIATION:	$141,000
ACTUAL EXPENDITURES:	$ 70,363
DESCRIPTION:	Siphon, measuring devices
ENGINEER:	Soil Conservation Service; Worland, WY
CONTRACTOR:	Big Horn Red Mix; Greybull, WY
YEAR COMPLETED:	1987
SESSION LAW DATE:	1984

222. PROJECT: **Kirby Ditch**

SPONSOR:	Kirby Ditch Irrigation District
LOCATION:	Hot Springs County
PROGRAM:	Rehabilitation
APPROPRIATION:	$60,000
ACTUAL EXPENDITURES:	$42,069
DESCRIPTION:	Siphon and Wasteway
ENGINEER:	Natural Resources Conservation Service, WY
CONTRACTOR:	W.A.R., Inc.; Thermopolis, WY
YEAR COMPLETED:	2001
SESSION LAW YEAR;	1999

223. PROJECT: **Kirby Municipal Project**

SPONSOR:	Town of Kirby
LOCATION:	Hot Springs County
PROGRAM:	New Construction
APPROPRIATION:	$608,000
ACTUAL EXPENDITURES:	$203,357
DESCRIPTION:	Construction of transmission pipelines and modifications to the town's storage tank.
ENGINEER:	Engineering Associates; Thermopolis, WY
CONTRACTOR:	Lamax Construction; Basin, WY
YEAR COMPLETED:	2010
SESSION LAW YEAR:	2007

224. PROJECT: **Kirby Rehabilitation 2011**

SPONSOR:	Kirby Irrigation District
LOCATION:	Hot Springs County
PROGRAM:	Rehabilitation

APPROPRIATION:	$420,000
ACTUAL EXPENDITURES:	$420,000
DESCRIPTION:	Headgate rehabilitation and canal improvements
ENGINEER:	Anderson Consulting Engineers; Fort Collins, CO
CONTRACTOR:	Big Horn Redi Mix; Thermopolis, WY
YEAR COMPLETED:	2018
SESSION LAW YEAR:	2011

225. PROJECT: LaBarge Water Supply

SPONSOR:	Town of LaBarge
LOCATION:	Lincoln
PROGRAM:	New Development
APPROPRIATION:	$425,000*
ACTUAL EXPENDITURES:	$398,170
DESCRIPTION:	Design and construction of a river raw water intake system.
ENGINEER:	Rendezvous Engineering, Jackson, WY
CONTRACTOR:	Kilroy LLC, Afton, Wyoming
YEAR COMPLETED:	2016
SESSION LAW YEAR:	2011, 2016

*In 2016, $55,000 from the Sponsor's Contingency Fund was added to the original 2011 appropriation of $370,000.

226. PROJECT: Lake Adelaide Reservoir Enlargement

SPONSOR:	Shell Valley Watershed Improvement District
LOCATION:	Big Horn County
PROGRAM:	New Development
APPROPRIATION:	$2,200,000
ACTUAL EXPENDITURES:	$1,840,503
DESCRIPTION:	Dam enlargement
ENGINEER:	ESA Consultants, Inc.; Fort Collins, CO
CONTRACTOR:	MRC, Inc.; Casper, WY
YEAR COMPLETED:	1992
SESSION LAW DATE:	1986

227. PROJECT: Lake DeSmet Rehabilitation

SPONSOR:	Lake DeSmet Counties Coalition, JPB
LOCATION:	Johnson County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,430,000
ACTUAL EXPENDITURES:	$1,430,000
DESCRIPTION:	Riprap, grading, sediment removal, piezometers
ENGINEER:	WWC Engineering; Sheridan, WY
CONTRACTOR:	Donnes Incorporated; Shepherd, MT C&S Construction, Inc.; Billings, MT Big Horn Welding, Inc.; Buffalo, WY
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2005, 2009

228. PROJECT: Lake Hattie Dam

SPONSOR:	Pioneer Canal-Lake Hattie Irrigation District
LOCATION:	Albany County
PROGRAM:	Rehabilitation

APPROPRIATION: $840,000.00
$282,000.00 (Sponsor's Contingency Fund, 2012)
ACTUAL EXPENDITURES: $1,083,172.21
DESCRIPTION: Replace outlet valves and reline outlet pipes.
ENGINEER: DOWL-HKM, Laramie WY
CONTRACTOR: Hamaker Excavation, Inc., Laramie WY
YEAR COMPLETED: 2015
SESSION LAW YEAR: 2010
*Includes $282,000 Sponsor's Inflation Fund, Account II, 2013

229. PROJECT: Lake Hattie Dam Rehabilitation
SPONSOR: Pioneer Canal - Lake Hattie Irrigation District
LOCATION: Albany County
PROGRAM: Rehabilitation
APPROPRIATION: $360,000
ACTUAL EXPENDITURES: $345,580
DESCRIPTION: Dam repair
ENGINEER: Western Water Consultants; Laramie, WY
CONTRACTOR: Domino Construction; Laramie, WY
YEAR COMPLETED: 1990
SESSION LAW DATE: 1988

230. PROJECT: Lake Hattie Outlet Works
SPONSOR: Pioneer Canal – Lake Hattie Irrigation District
LOCATION: Albany County
PROGRAM: Rehabilitation
APPROPRIATION: $163,000
ACTUAL EXPENDITURES: $163,000
DESCRIPTION: New Outlet structure to prevent the buildup of sediment in the outlet pipes
ENGINEER: WWC Engineering
CONTRACTOR: Hamaker Excavation; Laramie, WY
Timberline Excavating; Sundance, WY
YEAR COMPLETED: 2006
SESSION LAW YEAR: 2004

231. PROJECT: Lake Hattie Supply Canal
SPONSOR: Lake Hattie Irrigation District
LOCATION: Albany County
PROGRAM: Rehabilitation
APPROPRIATION: $1,400,000
ACTUAL EXPENDITURES: $1,270,195
DESCRIPTION: Canal structures and alignment
ENGINEER: Western Water Consultants; Laramie, WY
CONTRACTOR: Bartlett Construction; Hanna, WY
Domson, Inc.; Torrington, WY
YEAR COMPLETED: 1996
SESSION LAW DATE: 1990

232. PROJECT: Lakeview Improvement and Service District Water Supply
SPONSOR: Lakeview Improvement and Service District
LOCATION: Natrona County

PROGRAM: New Development
APPROPRIATION: $390,000
ACTUAL EXPENDITURES: $314,185
DESCRIPTION: Transmission Pipelines
ENGINEER: Civil Engineering Professionals, Inc.; Casper, WY
CONTRACTOR: Hedquist Construction, Inc., Casper, WY
YEAR COMPLETED: 2002
SESSION LAW YEAR: 2000

233. PROJECT: Lakeview Irrigation District Rehabilitation 2014
SPONSOR: Lakeview Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $154,770
ACTUAL EXPENDITURES: $154,770
DESCRIPTION: Replace a siphon
ENGINEER: Sage Engineering; Cody, Wyoming
CONTRACTOR Wilson Brothers Construction; Lovell, Wyoming
YEAR COMPLETED: 2016
SESSION LAW YEAR: 2014

234. PROJECT: Lakeview Irrigation District Rehabilitation 2016
SPONSOR: Lakeview Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $194,300
ACTUAL EXPENDITURES: $194,300
DESCRIPTION: Replace a siphon
ENGINEER: Sage Engineering; Cody, WY
CONTRACTOR: Harris Trucking; Cody, WY
YEAR COMPLETED: 2018
SESSION LAW YEAR: 2016

235. PROJECT: Lance Creek Water Rehabilitation
SPONSOR: Lance Creek Water and Sewer District
LOCATION: Niobrara County
PROGRAM: Rehabilitation
APPROPRIATION: $327,900
ACTUAL EXPENDITURES: $327,900
DESCRIPTION: Pipeline, backflow prevention
ENGINEER: Western Water Consultants; Laramie, WY
CONTRACTOR: Excel Construction, Inc.; Sheridan, WY
YEAR COMPLETED: 2001
SESSION LAW DATE: 1997

236. PROJECT: Lander Intake Facilities
SPONSOR: City of Lander
LOCATION: Fremont County
PROGRAM: Rehabilitation
APPROPRIATION: $200,000
ACTUAL EXPENDITURES: $108,642
DESCRIPTION: Relocate and renovate intake structure

ENGINEER: Aspen Engineering, Inc.; Riverton, WY
CONTRACTOR: Excel Construction Inc.; Sheridan, WY
YEAR COMPLETED: 2002
SESSION LAW YEAR: 1999

237. PROJECT: Lander Water Supply
LEVEL: III
SPONSOR: City of Lander
LOCATION: Fremont County
PROGRAM: New Development
APPROPRIATION: $3,068,000
ACTUAL EXPENDITURES: $3,068,000
DESCRIPTION: Installation of transmission lines.
ENGINEER: Dowl, Lander, WY
CONTRACTOR: Patrick Construction, Lander, WY
YEAR COMPLETED: 2017
SESSION LAW YEAR: 2012

238. PROJECT: Lander Water Supply Rehabilitation
SPONSOR: City of Lander
LOCATION: Fremont County
PROGRAM: Rehabilitation
APPROPRIATION: $1,696,000
ACTUAL EXPENDITURES: $1,016,077
DESCRIPTION: Raw and treated transmission pipelines
ENGINEER: Aspen Engineering Inc.; Riverton, WY
CONTRACTOR: Excel Construction Inc.; Sheridan, WY
YEAR COMPLETED: 2002
SESSION LAW YEAR: 1999 & 2000

239. PROJECT: Lander Worthen Meadows Dam Rehabilitation
SPONSOR: City of Lander
LOCATION: Fremont County
PROGRAM: Rehabilitation
APPROPRIATION: $1,250,000
ACTUAL EXPENDITURES: $ 811,804
DESCRIPTION: Dam repair
ENGINEER: Versar; Riverton, WY
CONTRACTOR: C.J. Abbot; Casper, WY
YEAR COMPLETED: 1991
SESSION LAW YEAR; 1989

240. PROJECT: LaPrele Rehabilitation
SPONSOR: LaPrele Irrigation District
LOCATION: Converse County
PROGRAM: Rehabilitation
APPROPRIATION: $1,500,000
ACTUAL EXPENDITURES: $1,476,203
DESCRIPTION: Tunnel repair, canals

ENGINEER: Nelson Engineering; Jackson, WY
CONTRACTOR: Central Contractors, Inc.; Mills, WY
YEAR COMPLETED; 1985
SESSION LAW YEAR; 1984

241. PROJECT: Laramie County Archer Water Supply
SPONSOR: Laramie County
LOCATION: Laramie County
PROGRAM: New Development
APPROPRIATION: $201,000
ACTUAL EXPENDITURES: $115,153
DESCRIPTION: Drilling, testing and completion of a production well
ENGINEER: Western R&D; Cheyenne, WY
Dahlgren Consulting, Inc.; Cheyenne, WY
CONTRACTOR: Sargent Irrigation; Broken Bow, NE
YEAR COMPLETED: 2012
SESSION LAW YEAR: 2009

242. PROJECT: Laramie East Side Tank
SPONSORS: City of Laramie
LOCATION: Albany County
PROGRAM: New Development
APPROPRIATION: $4,780,000
ACTUAL EXPENDITURES: $4,756,142
DESCRIPTION: The purpose of this project is to construct transmission lines, water storage facilities, and pump stations for the City of Laramie.
ENGINEER: Wester-Wetstein; Laramie, WY
CONTRACTOR: Reiman Corporation/Aslan Construction; Cheyenne, WY
YEAR COMPLETED: 2008
SESSION LAW YEAR: 2002

243. PROJECT: Laramie North Side Supply
SPONSOR: City of Laramie
LOCATION: Albany County
PROGRAM: Rehabilitation
APPROPRIATION: $4,240,000
ACTUAL EXPENDITURES: $3,919,670
DESCRIPTION: Design and construction of a transmission line in North Laramie, including cathodic protection and partial line replacement. This project also included design for the Laramie East Side Tank Project.
ENGINEER: Aspen Banner for Laramie North design and construction and Wester-Wetstein for Laramie East Side Tank Project design.
CONTRACTOR: Excel Construction, Inc.; Sheridan, WY
YEAR COMPLETED: 2006
SESSION LAW YEAR: 2000, 2001, 2002

244. PROJECT: Laramie Rehabilitation
SPONSOR: City of Laramie
LOCATION: Albany County
PROGRAM: Rehabilitation
APPROPRIATION: $1,750,000

ACTUAL EXPENDITURES:	$1,546,216
DESCRIPTION:	Replacement of water supply pipelines; New pumphouse; Reservoir rehabilitation
ENGINEER:	Western Water Consultants; Laramie, WY Wester-Wetstein & Associates; Laramie WY
CONTRACTOR:	Johnson's Pump and Excavating; Wheatland, WY Domino Construction, Laramie, WY; High Plains Construction; Mills, WY; Bartlett Inc.; Hanna, WY
YEAR COMPLETED:	1999
SESSION LAW YEAR:	1995, 1996

245. PROJECT: Laramie Rivers

SPONSOR:	Pioneer Canal-Lake Hattie Irrigation District
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$165,000
ACTUAL EXPENDITURES:	$165,000
DESCRIPTION:	Refinanced existing loans
ENGINEER:	NA
CONTRACTOR:	NA
DATE COMPLETED:	1988
SESSION LAW DATE:	1987

246. PROJECT: Laramie Transmission Pipeline

SPONSOR:	City of Laramie
LOCATION:	Albany County
PROGRAM:	New Development
APPROPRIATION:	$10,850,000
ACTUAL EXPENDITURES:	$ 8,483,915
DESCRIPTION:	Transmission pipeline from the Laramie River to the City of Laramie water treatment plant.
ENGINEER:	DOWL-HKM, Laramie WY
CONTRACTOR:	TIC, Denver CO
YEAR COMPLETED:	2015
SESSION LAW YEAR:	2009, 2012

247. PROJECT: Laramie Transmission Pipeline and Pioneer Canal Diversion

SPONSOR:	City of Laramie
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$4,945,000
ACTUAL EXPENDITURES:	$4,237,768
ENGINEER:	Banner & Associates; Laramie WY Western Water Consultants; Laramie, WY
CONTRACTOR:	Bartlett Construction; Hanna, WY TIC; Casper, WY
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1998

248. PROJECT: **Laramie Water Management Project (meters)**

SPONSOR:	City of Laramie
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$97,150
ACTUAL EXPENDITURES:	$70,422
DESCRIPTION:	Replacement of transmission main meters
ENGINEER:	Camp Creek Engineering; Laramie, WY
CONTRACTOR:	Six Point Solutions, LLC; Laramie, WY
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2006

249. PROJECT: **Laramie Water Supply**

SPONSOR:	City of Laramie
LOCATION:	Albany County
PROGRAM:	New Development
APPROPRIATION:	$4,400,000
ACTUAL EXPENDITURES:	$3,124,801
ENGINEER:	Western Water Consultants; Laramie WY;
CONTRACTOR:	High Plains Construction; Casper, WY
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1995, 1996

250. PROJECT: **Laramie West Storage**

SPONSOR:	City of Laramie
LOCATION:	Albany County
PROGRAM:	New Development
APPROPRIATION:	$2,950,000
ACTUAL EXPENDITURES:	$2,852,065
ENGINEER:	Wester-Wetstein & Associates; Laramie WY
CONTRACTOR:	High Plains Construction; Casper, WY
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1999

251. PROJECT: **LeClair Irrigation District Rehabilitation 2016**

SPONSOR:	LeClair Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$760,000
ACTUAL EXPENDITURES:	$ 0
DESCRIPTION:	Replace diversion structure
ENGINEER:	None
CONTRACTOR	None
YEAR COMPLETED:	2017*
SESSION LAW YEAR:	2016

*Following the 2016 Legislature appropriating funding for the diversion structure, the District identified three sections of irrigation canals that were experiencing significant seepage loses. The District elected to revert the 2016 appropriation (reverted on July 1, 2017) and seek new funding to address the seepage issue (LeClair Irrigation District Rehabilitation 2017 project).

252. PROJECT: **LeClair Irrigation Rehabilitation**

SPONSOR:	LeClair Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$470,000
ACTUAL EXPENDITURES:	$442,845
DESCRIPTION:	Canal repairs
ENGINEER:	Crank Company, Inc.; Kemmerer, WY
CONTRACTOR:	Foster Construction Company, Inc.; Riverton, WY
YEAR COMPLETED:	1990
SESSION LAW YEAR:	1989

253. PROJECT: **LeClair Lateral**

SPONSOR:	LeClair Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$750,000
ACTUAL EXPENDITURES:	$361,342
DESCRIPTION:	Lateral open ditches replacement with pipelines.
ENGINEER:	Apex Surveying - R.D. Connell and Associates; Riverton, WY
CONTRACTOR:	LeClair Irrigation District; Riverton, WY
YEAR COMPLETED:	1999
SESSION LAW YEAR:	1994

254. PROJECT: **LeClair Laterals Rehabilitation**

LEVEL:	III
SPONSOR:	LeClair Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$565,000
ACTUAL EXPENDITURES:	$426,376
DESCRIPTION:	Various work on laterals
ENGINEER:	APEX Surveying; Riverton, WY
MATERIALS:	Killebrew Irrigation, Inc.; Lander, WY
YEAR COMPLETED:	2012
SESSION LAW YEAR:	2003

255. PROJECT: **Lingle Water Supply Phase II**

SPONSOR:	Town of Lingle
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$711,000
ACTUAL EXPENDITURES:	$693,035
DESCRIPTION:	Higher elevation standpipe, upgrade pipelines
ENGINEER:	BenchMark of Torrington, P.C.; Torrington, WY
CONTRACTOR:	Strong Construction, Inc.; Torrington, WY
YEAR COMPLETED:	2005
SESSION LAW DATE:	2002

256. PROJECT: **Lingle Water Supply System Rehabilitation**

SPONSOR:	Town of Lingle
LOCATION:	Goshen County
PROGRAM:	Rehabilitation

APPROPRIATION: $400,000
ACTUAL EXPENDITURES: $312,228
DESCRIPTION: Upgrade transmission pipelines
ENGINEER: BenchMark of Torrington, P.C.; Torrington, WY
CONTRACTOR: Scott and Son, Inc.; Torrington, WY
YEAR COMPLETED: 2001
SESSION LAW DATE: 1999

257. PROJECT: Little Snake Diversions
SPONSOR: Savery – Little Snake River Conservancy District
LOCATION: Carbon County
PROGRAM: Rehabilitation
APPROPRIATION: $2,756,370
ACTUAL EXPENDITURES: $2,740,953
DESCRIPTION: Reconstruction of existing surface water diversions
ENGINEER: S-LSRCD
CONTRACTOR: Willies Dirt Service, Inc., Baggs, WY
YEAR COMPLETED: 2015
SESSION LAW YEAR: 2006/2010/2012

258. PROJECT: Little Snake Rehabilitation
SPONSOR: Little Snake Conservancy District
LOCATION: Carbon County
PROGRAM: Rehabilitation
APPROPRIATION: $2,700,000
ACTUAL EXPENDITURES: $2,700,000
DESCRIPTION: Diversion Dam Replacements and Canal Repairs
ENGINEER: States West Inc.; Cheyenne, WY
CONTRACTOR: Bartlett Construction; Hanna, WY
YEAR COMPLETED: 1998
SESSION LAW YEAR: 1993

259. PROJECT: Little Snake Rehabilitation 2011
SPONSOR: Savery-Little Snake River Water Conservancy District
LOCATION: Carbon County
PROGRAM: Rehabilitation
APPROPRIATION: $154,100
ACTUAL EXPENDITURES: $85,622
DESCRIPTION: Canal rehabilitation
ENGINEER: NRCS, Baggs, Wyoming
CONTRACTOR: HB Lee Construction; Baggs, Wyoming
YEAR COMPLETED: 2016
SESSION LAW YEAR: 2011

260. PROJECT: Little Snake River Small Dams & Reservoirs
SPONSOR: Little Snake River Conservation District
LOCATION: Carbon County
PROGRAM: New Development
APPROPRIATION: $265,000
ACTUAL EXPENDITURES: $265,000
DESCRIPTION: Construction of two small dams and reservoirs

ENGINEER: Rio Verde Engineering; Pinedale, WY
CONTRACTOR: Willies Dirt Service; Wamsutter, WY
YEAR COMPLETED: 2001
SESSION LAW YEAR: 1999, 2001

261. PROJECT: Little Snake River Small Dams & Reservoirs
SPONSOR: Little Snake River Conservation District
LOCATION: Carbon County
PROGRAM: New Development
APPROPRIATION: $852,000
ACTUAL EXPENDITURES: $846,156
DESCRIPTION: Construction of four small dams and reservoirs
ENGINEER: Sponsor, Baggs, WY
CONTRACTOR: Willies Dirt Service; Wamsutter, WY
YEAR COMPLETED: 2013
SESSION LAW YEAR: 1999, 2001, 2006, 2008

262. PROJECT: Lovell Canal Rehabilitation 2014
SPONSOR: Lovell Irrigation District
LOCATION: Park and Big Horn Counties
PROGRAM: Rehabilitation
APPROPRIATION: $889,000
ACTUAL EXPENDITURES: $613,158
DESCRIPTION: Pipe Phase IV of Bench Lateral
ENGINEER: Pryor Mountain Engineering, Cowley, WY
MATERIALS: Big Horn Truck & Equipment, Manderson, WY
YEAR COMPLETED: 2016
SESSION LAW YEAR: 2014

263. PROJECT: Lovell Irrigation District Rehabilitation
SPONSOR: Lovell Irrigation District
LOCATION: Big Horn County
PROGRAM: Rehabilitation
APPROPRIATION: $820,000
ACTUAL EXPENDITURES: $749,958
DESCRIPTION: Canal Repairs
ENGINEER: Soil Conservation Service; Casper, WY
CONTRACTOR: Nichols & Lewis, Inc.; Lovell, WY
C. A. Wilson Construction Company; Cowley, WY
Jerry's Irrigation and Drainage, Inc.; Powell, WY
Dale Weaver, Inc.; Worland, WY
YEAR COMPLETED: 1990
SESSION LAW DATE: 1985

264. PROJECT: Lovell Rehabilitation 2009
SPONSOR: Lovell Irrigation District
LOCATION: Park and Big Horn County
PROGRAM: Rehabilitation
APPROPRIATION: $432,000
ACTUAL EXPENDITURES: $427,339
DESCRIPTION: Pipe two segments of Bench Lateral

ENGINEER: Sage Civil Engineering; Cody, WY
Pryor Mountain Engineering; Cowley, WY
CONTRACTOR: Lovell Irrigation District
MATERIALS: J&E Irrigation, Inc.; Basin, WY
Waterworks Irrigation, Inc.; Ralston, WY
YEAR COMPLETED: 2012
SESSION LAW YEAR: 2009

265. PROJECT: Lovell Rehabilitation 2012
SPONSOR: Lovell Irrigation District
LOCATION: Park and Big Horn County
PROGRAM: Rehabilitation
APPROPRIATION: $299,000
ACTUAL EXPENDITURES: $299,000
DESCRIPTION: Pipe one segment of Bench Lateral
ENGINEER: Pryor Mountain Engineering, Cowley, Wyoming
CONTRACTOR: James Hinckley, Inc., Cowley, Wyoming
MATERIALS: Waterworks Irrigation, Inc., Ralston, Wyoming
YEAR COMPLETED: 2013
SESSION LAW YEAR: 2012, 2013

266. PROJECT: Lovell Transmission Pipeline
SPONSOR: Town of Lovell
LOCATION: Big Horn County
PROGRAM: New Development
APPROPRIATION: $1,299,800
ACTUAL EXPENDITURES: $1,086,734
DESCRIPTION: Transmission pipelines
ENGINEER: DOWL HKM; Lovell, WY
CONTRACTOR: Wilson Brothers Construction; Cowley, WY
YEAR COMPLETED: 2011
SESSION LAW YEAR: 2008

267. PROJECT: Lovell Transmission Pipeline
SPONSOR: Town of Lovell
LOCATION: Big Horn County
PROGRAM: New Development
APPROPRIATION: $770,500
ACTUAL EXPENDITURES: $668,022
DESCRIPTION: Transmission pipeline construction
ENGINEER: DOWL; Sheridan, WY
CONTRACTOR: Wilson Brothers; Cowley, WY
YEAR COMPLETED: 2017
SESSION LAW YEAR: 2012, 2013

268. PROJECT: Lusk Water Supply
SPONSOR: Town of Lusk
LOCATION: Niobrara County
PROGRAM: New Development
APPROPRIATION: $709,000
ACTUAL EXPENDITURES: $550,982
DESCRIPTION: Transmission pipelines, storage tank, pump, controls

ENGINEER: MK Centennial Engineering, Inc.; Cheyenne, WY
CONTRACTOR: Western Municipal Construction, Inc.; Billings, MT
YEAR COMPLETED: 1998
SESSION LAW DATE: 1996

269. PROJECT: Lusk Well
SPONSOR: Town of Lusk
LOCATION: Niobrara County
PROGRAM: New Development
APPROPRIATION: $415,000
ACTUAL EXPENDITURES: $359,037
DESCRIPTION: Lusk Well No. 10
ENGINEER: M. C. Schaff & Associates; Douglas, WY
CONTRACTOR: Sargent Drilling, Inc.; Broken Bow, NE
YEAR COMPLETED: 2010
SESSION LAW YEAR: 2007

270. PROJECT: Lyman Springs Rehabilitation
SPONSOR: Town of Lyman
LOCATION: Uinta County
PROGRAM: Rehabilitation
APPROPRIATION: $255,000
ACTUAL EXPENDITURES: $255,000
DESCRIPTION: Springs renovation and pumping station
ENGINEER: Forsgren Associates, Inc.; Evanston, WY
CONTRACTOR: X-it Construction, Inc.; Lyman, WY
S.C.I. Inc.; Lyman, WY
YEAR COMPLETED: 1999
SESSION LAW YEAR: 1996

271. PROJECT: Manville Water Supply
SPONSOR: Town of Manville
LOCATION: Niobrara County
PROGRAM: New Development
APPROPRIATION: $69,000
ACTUAL EXPENDITURES: $67,104
DESCRIPTION: New well and supply pipeline
ENGINEER: Western Water Consultants; Laramie WY
CONTRACTOR: Landkammer Trenching; Lance Creek, WY
YEAR COMPLETED: 2002
SESSION LAW YEAR: 1998

272. PROJECT: McKenney Water Supply
SPONSOR: McKenney I&S District
LOCATION: Campbell County
PROGRAM: New Development
APPROPRIATION: $140,000
ACTUAL EXPENDITURES: $109,107
DESCRIPTION: Transmission pipelines
ENGINEER: TSP TWO, Inc.; Gillette, WY
CONTRACTOR: Larry's Inc.; Gillette, WY
YEAR COMPLETED: 1996
SESSION LAW YEAR: 1994

273. PROJECT: **McNutt Water Supply**

SPONSOR:	McNutt Improvement and Service District
LOCATION:	Washakie County
PROGRAM:	New Development
APPROPRIATION:	$25,000
ACTUAL EXPENDITURES:	$23,317 (Level II)
DESCRIPTION:	Potable water delivery system.
ENGINEER:	BRS, Inc.; Riverton, Wyoming
CONTRACTOR:	None
YEAR COMPLETED:	N.A.
SESSION LAW YEAR:	1999

274. PROJECT: **Meade Creek Ditch Rehabilitation**

SPONSOR:	Meade Creek Ditch Company Irrigation District
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$401,250
ACTUAL EXPENDITURES:	$267,500
DESCRIPTION:	Directional Drilled Pipe Drop through Tunnel Hill
ENGINEER:	Natural Resources Conservation Service
OWNER'S REPRESENTATIVE:	EnTech, Inc.; Sheridan, WY
CONTRACTOR:	Fletcher Construction; Sheridan, WY
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2005, 2006

275. PROJECT: **Means Water Supply**

SPONSOR:	Means First Extension W&S District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$225,000
ACTUAL EXPENDITURES:	$212,253
DESCRIPTION:	Pump station improvements, storage tank, and transmission pipeline
ENGINEER:	Bruce Engineering Services; Gillette, WY
CONTRACTOR:	DRM, Inc.; Gillette, WY
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1994

276. PROJECT: **Medicine Bow Transmission Pipeline**

SPONSOR:	Town of Medicine Bow
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,052,000
ACTUAL EXPENDITURES:	$959,502
DESCRIPTION:	Transmission pipeline construction
ENGINEER:	Sunrise Engineering; Cheyenne, WY
CONTRACTOR:	Redpoint Contracting; Phoenix, AZ
YEAR COMPLETED:	2015
SESSION LAW YEAR:	2014

277. PROJECT: **Meeteetse Storage Tank Rehabilitation**

SPONSOR:	Town of Meeteetse
LOCATION:	Park County
PROGRAM:	Rehabilitation
APPROPRIATION:	$125,000
ACTUAL EXPENDITURES:	$104,831
DESCRIPTION:	Repainting of an existing potable water storage tank.
ENGINEER:	James Gores and Associates; Riverton, WY
CONTRACTOR:	Eastern Colorado Builders, Inc.; Colorado Springs, CO
YEAR COMPLETED:	2006
SESSION LAW YEAR:	2005

278. PROJECT: **Meeteetse Water Supply**

SPONSOR:	Town of Meeteetse
LOCATION:	Park County
PROGRAM:	New Development
APPROPRIATION:	$333,000
ACTUAL EXPENDITURES:	$333,000
DESCRIPTION:	New intake structure, raw water pipeline, and finished water pipeline
ENGINEER:	Sear –Brown; Fort Collins, CO
CONTRACTOR:	LAMAX Construction; Basin, WY
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1998

279. PROJECT: **Midvale Canal Rehabilitation**

SPONSOR:	Midvale Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$230,000
ACTUAL EXPENDITURES:	$165,890
DESCRIPTION:	Wyoming Canal 2nd Division Drop Structure Replacement
ENGINEER:	APEX Surveying; Riverton, WY
MATERIALS:	Cretex Concrete Products; Casper WY Pacific Steel & Recycling; Mills WY
YEAR COMPLETED:	2012
SESSION LAW YEAR:	2007

280. PROJECT: **Midvale Conservation/Automation**

LEVEL:	III
SPONSOR:	Midvale Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$542,700
ACTUAL EXPENDITURES:	$521,127
DESCRIPTION:	Automation of canal
ENGINEER:	Anderson; Fort Collins CO
CONTRACTOR:	Midvale Irrigation District
MATERIALS:	Flowmation; Fort Collins CO
YEAR COMPLETED:	2011
SESSION LAW YEAR:	2006

281. PROJECT: **Midvale Diversion Dam Rehabilitation**

SPONSOR:	Midvale Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$138,000
ACTUAL EXPENDITURES:	$127,842
DESCRIPTION:	Replace gearboxes on Diversion Dam headgates
ENGINEER:	Anderson Consulting Engineers, Inc.; Fort Collins, CO.
CONTRACTOR:	Midvale Irrigation District
MATERIALS:	Advanced Hydraulics & Machine; Casper, WY
DATE COMPLETED:	2008
SESSION LAW DATE:	2005

282. PROJECT: **Midvale Rehabilitation 2010**

SPONSOR:	Midvale Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$263,000
ACTUAL EXPENDITURES:	$207,530
DESCRIPTION:	Wyoming Lateral 44.1 pipeline
ENGINEER:	Natural Resources Conservation District; Casper, WY APEX Surveying; Riverton, WY
CONTRACTOR:	Midvale Irrigation District
YEAR COMPLETED:	2011
SESSION LAW YEAR:	2010

283. PROJECT: **Midvale Rehabilitation 2011**

SPONSOR:	Midvale Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$450,000
ACTUAL EXPENDITURES:	$307,273
DESCRIPTION:	Pavillion Main East Project
ENGINEER:	APEX Surveying; Riverton, WY
CONTRACTOR:	Midvale Irrigation District
YEAR COMPLETED:	2013
SESSION LAW YEAR:	2011

284. PROJECT: **Midvale Rehabilitation 2012**

SPONSOR:	Midvale Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$945,000
ACTUAL EXPENDITURES:	$462,934
DESCRIPTION:	Replace ditch with buried pipe on Wyoming Lateral 15.1
ENGINEER:	APEX Surveying; Riverton; WY
MATERIALS:	Big Horn Truck & Equipment; Manderson, WY
YEAR COMPLETED:	2014
SESSION LAW YEAR:	2012

285. PROJECT: **Midvale Rehabilitation 2013**

SPONSOR:	Midvale Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$381,000
ACTUAL EXPENDITURES:	$304,083
DESCRIPTION:	Replace Wyoming Canal 37.2 Drop Structure
ENGINEER:	APEX Surveying, Riverton, WY
MATERIALS:	Ferguson Enterprises, Casper, WY
YEAR COMPLETED:	2016
SESSION LAW YEAR:	2013, 2015

286. PROJECT: **Midvale Sand Butte 2 Lateral**

SPONSOR:	Midvale Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$420,000
ACTUAL EXPENDITURES:	$420,000
DESCRIPTION:	Headgate rehabilitation and canal improvements
ENGINEER:	APEX Surveying, Inc.; Riverton, WY
CONTRACTOR:	Ferguson Enterprises, Inc.; Casper, WY
YEAR COMPLETED:	2018
SESSION LAW YEAR:	2016

287. PROJECT: **Midvale Sand Mesa Pipeline**

SPONSOR:	Midvale Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$3,000,000
ACTUAL EXPENDITURES:	$2,900,879
DESCRIPTION:	Gravity pressure irrigation delivery pipeline
ENGINEER:	Natural Resources Conservation Service R. D. Connell & Associates; Riverton, WY
CONTRACTOR:	Midvale Irrigation District
DATE COMPLETED:	1999
SESSION LAW DATE:	1995

288. PROJECT: **Midwest Rehabilitation**

SPONSOR:	Town of Midwest
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$100,000
ACTUAL EXPENDITURES:	$100,000
DESCRIPTION:	Pipeline
ENGINEER:	Geocivil Engineers, Inc.; Casper, WY
CONTRACTOR:	La Max Construction; Basin, WY
YEAR COMPLETED:	1988
SESSION LAW YEAR:	1986

289. PROJECT: **Mile-Hi Water Supply Project**

SPONSOR:	Mile-Hi Improvement and Service District
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$1,015,360
ACTUAL EXPENDITURES:	$595,593
DESCRIPTION:	Design and construction of transmission pipelines within the district.
ENGINEER:	609 Consulting, LLC; Casper, WY
CONTRACTOR:	Grizzly Excavating and Construction, LLC; Casper, WY
YEAR COMPLETED:	2011
SESSION LAW YEAR:	2009

290. PROJECT: **Moorcroft Madison Well Water Supply**

SPONSOR:	Town of Moorcroft
LOCATION:	Crook County
PROGRAM:	New Development
APPROPRIATION:	$3,865,900
ACTUAL EXPENDITURES:	$2,826,323
DESCRIPTION:	Well pump, storage tank, booster pump station, generator, pipeline to town, SCADA.
ENGINEER:	Weston Engineering; Upton, Wyoming
CONTRACTOR:	Western Municipal Construction; Sheridan, Wyoming Excel Construction; Sheridan, Wyoming Engineering America, Inc.; Loveland, Colorado Electrofab, Inc.; Gillette, Wyoming
DATE COMPLETED:	2013
SESSION LAW DATE:	2003, 2008, 2011

291. PROJECT: **Moorcroft Water Supply**

SPONSOR:	Town of Moorcroft
LOCATION:	Crook County
PROGRAM:	New Development
APPROPRIATION:	$930,000
ACTUAL EXPENDITURES:	$853,767
DESCRIPTION:	Wells, pipeline, and storage tank
ENGINEER:	Weston Engineering; Upton, WY
CONTRACTOR:	Hot Iron, Inc.; Gillette, WY Williams Drilling Co.; Gillette, WY
DATE COMPLETED:	1997
SESSION LAW DATE:	1994

292. PROJECT: **Muddy Guard**

SPONSOR:	North Fork Irrigation District
LOCATION:	Johnson County
PROGRAM:	New Development
APPROPRIATION:	$600,000
ACTUAL EXPENDITURES:	$600,000
DESCRIPTION:	Purchase of minimum pool in storage
ENGINEER:	NA
CONTRACTOR:	NA
SESSION LAW YEAR:	1982

293. PROJECT: **Natrona County Regional Rehabilitation**

SPONSOR:	Central Wyoming Water System JPB
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$5,357,000
ACTUAL EXPENDITURES:	$5,357,000
DESCRIPTION:	Wellfield, pipeline and storage tank rehabilitation
ENGINEER:	CH2M Hill; Denver, CO
CONTRACTOR	Lillard & Clark; Denver, CO
Completion Date	June 2002
Session Law	1995-1998

294. PROJECT: **Natrona County Regional Water Supply**

SPONSOR:	Central Wyoming Regional Water System JPB
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$26,750,000
ACTUAL EXPENDITURES:	$25,421,545
DESCRIPTION:	Transmission Pipelines, storage tanks, pumping stations, disinfection facilities and appurtenances
ENGINEER:	CH2M Hill; Denver, CO
CONTRACTOR:	Lillard & Clark; Denver, CO Hedquist Construction, Inc.; Casper, WY JTL Group, Inc.; Casper, WY High Plains Construction, Inc.; Casper, WY
COMPLETION DATE:	June 2002
SESSION LAW:	1995-1998

295. PROJECT: **Natrona County Regional Water Treatment Project**

SPONSOR:	Natrona County Regional Water System JPB
LOCATION:	Natrona County
PROGRAM:	Public Purpose Investment
APPROPRIATION:	$23,000,000 (permanent mineral trust fund loan)
ACTUAL EXPENDITURES:	$23,000,000
DESCRIPTION:	Increase capacity of existing water treatment plant, improve facilities of second water treatment plant, and implement a well head protection program
ENGINEER:	CH2M Hill; Denver, CO
CONTRACTOR:	Lillard & Clark; Denver, CO Hedquist Construction, Inc.; Casper, WY JTL Group, Inc.; Casper, WY High Plains Construction, Inc.; Casper, WY
COMPLETION DATE:	2000
SESSION LAW:	1995

296. PROJECT: **Newcastle Area Water Supply**

SPONSOR:	City of Newcastle
LOCATION:	Weston County
PROGRAM:	New Development
APPROPRIATION:	$2,200,000
ACTUAL EXPENDITURES:	$1,472,099
DESCRIPTION:	Four pressure reducing stations, booster pump station, and pipeline to storage tank.

	ENGINEER:	Wester-Wetstein & Associates, Inc.; Laramie, WY City of Newcastle; Newcastle, WY
	CONTRACTOR:	Sundance Plumbing and Heating; Newcastle, WY DRM, Inc.; Gillette, WY
	DATE COMPLETED:	2006
	SESSION LAW DATE:	2000, 2004
297.	**PROJECT:**	**Nine Mile Water Supply**
	SPONSOR:	Nine Mile Water and Sewer District
	LOCATION:	Albany County
	PROGRAM:	New Development
	APPROPRIATION:	$920,000
	ACTUAL EXPENDITURES	$526,699
	DESCRIPTION:	Water main system including taps to City of Laramie transmission lines, control house, a booster pump station, and transmission mains.
	ENGINEER:	WWC Engineering; Laramie, WY
	CONTRACTOR:	Strong Construction; Torrington, WY
	COMPLETION DATE:	2003
	SESSION LAW:	2000
298	**PROJECT:**	**North Alpine**
	SPONSOR:	North Alpine Improvement and Service District
	LOCATION:	Lincoln County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$257,000
	ACTUAL EXPENDITURES	$254,761
	DESCRIPTION:	Water system including new wells, buried storage transmission lines, control house and pump station.
	ENGINEER:	Sunrise Engineering; Afton, WY Rendezvous Engineering; Jackson, WY
	CONTRACTOR:	VanDeburg Excavation; Thayne, WY Thomas Drilling; Afton, WY
	COMPLETION DATE:	October 2005
	SESSION LAW:	2003
299.	**PROJECT:**	**North Fork Crazy Woman Rehabilitation**
	SPONSOR:	Crazy Woman Watershed Improvement District
	LOCATION:	Johnson County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$650,000
	ACTUAL EXPENDITURES:	$471,366
	DESCRIPTION:	Canal improvements, pipeline
	ENGINEER:	HKM Associates; Sheridan, Y
	CONTRACTOR:	S&S Builders; Gillette, Wyoming Mollinax Concrete Service Company; Sheridan, WY
	YEAR COMPLETED:	1995
	SESSION LAW YEAR:	1992
300.	**PROJECT:**	**North Platte Gages**
	SPONSOR:	State Engineer's Office
	LOCATION:	Carbon, Converse, Goshen and Natrona Counties
	PROGRAM:	Rehabilitation

APPROPRIATION: $850,000
ACTUAL EXPENDITURES: $790,000
DESCRIPTION: Six (6) major stream gaging stations on the North Platte River and tributaries
ENGINEER: States West Water Resources; Cheyenne, WY
CONTRACTOR: Bartlett Construction; Hanna, WY
High County Construction; Casper, WY
Rieman Construction; Cheyenne, WY
YEAR COMPLETED: 1996
SESSION LAW YEAR: 1989

301. PROJECT: North Uinta/Bear River Water Supply
SPONSOR: Town of Bear River
LOCATION: Uinta County
PROGRAM: New Development
APPROPRIATION: $580,000
ACTUAL EXPENDITURES: $580,000
DESCRIPTION: Buried concrete storage tank, pump house renovation, and transmission lines.
ENGINEER: Cook/Sanders Associates; Evanston, WY
CONTRACTOR: JASCO Construction; South Weber, UT
Kilroy and Company; Alpine, WY
YEAR COMPLETED: 2006
SESSION LAW YEAR: 2003

302. PROJECT: Northwest Rural Northern Expansion
SPONSOR: Northwest Rural Water District
LOCATION: Park and Big Horn County
PROGRAM: New Development
APPROPRIATION: $3,690,025
ACTUAL EXPENDITURES: $2,642,976
DESCRIPTION: Design and construction of a transmission pipeline.
ENGINEER: Engineering Associates
CONTRACTOR: Western Municipal Construction of Wyoming, Inc.
YEAR COMPLETED: 2015
SESSION LAW YEAR: 2012

303. PROJECT: Northwest Rural Water Storage
SPONSOR: Northwest Rural Water District
LOCATION: Park and Big Horn Counties
PROGRAM: New Development
APPROPRIATION: $1,120,000
ACTUAL EXPENDITURES: $1,111,506
DESCRIPTION: Add eight buried fiberglass tanks over five sites.
ENGINEER: Engineering Associates, Inc.; Cody, WY
CONTRACTOR: Hot Iron, Inc.; Gillette, WY
DATE COMPLETED: 2005
SESSION LAW DATE: 2003

304. PROJECT: Northwest Rural Water Storage II
SPONSOR: Northwest Rural Water District
LOCATION: Park and Big Horn Counties
PROGRAM: New Development

APPROPRIATION: $2,960,000
ACTUAL EXPENDITURES: $2,817,207
DESCRIPTION: Garland area expansion, added storage at Sage Creek.
ENGINEER: Engineering Associates, Inc.; Cody, WY
CONTRACTOR: LaMax Construction, Inc.; Basin, WY
DATE COMPLETED: 2009
SESSION LAW DATE: 2006

305. PROJECT: North Wright Transmission Line
SPONSOR: Wright Water & Sewer District
LOCATION: Campbell County
PROGRAM: New Development
APPROPRIATION: $434,000
ACTUAL EXPENDITURES: $428,743
DESCRIPTION: Transmission pipeline
ENGINEER: Stetson Engineering, Inc.; Gillette, WY
CONTRACTOR: Wright Water & Sewer District
MATERIALS: Dana Kepner; Casper, WY
YEAR COMPLETED: 2010
SESSION LAW YEAR: 2005, 2007

306. PROJECT: Oakley Water Supply
SPONSOR: Oakley Service and Improvement District
LOCATION: Lincoln County
PROGRAM: New Development
APPROPRIATION: $176,000
ACTUAL EXPENDITURES: $155,711
DESCRIPTION: Water transmission line
ENGINEER: Sunrise Engineering, Inc.; Afton, WY
CONTRACTOR: Peavler's Mountain Star, Inc.; Afton, WY
YEAR COMPLETED: 2001
SESSION LAW YEAR: 2001

307. PROJECT: Owl Creek Water Supply
SPONSOR: Owl Creek Water District
LOCATION: Hot Springs County
PROGRAM: New Development
APPROPRIATION: $3,182,500
ACTUAL EXPENDITURES: $2,907,059
DESCRIPTION: Transmission pipeline and storage tanks
ENGINEER: Engineering Associates, Cody, WY
CONTRACTOR: High Country Construction, Inc.
YEAR COMPLETED: 2015
SESSION LAW YEAR: 2010

308. PROJECT: Osage Water Supply
SPONSOR: Osage Water District
LOCATION: Weston County
PROGRAM: New Development
APPROPRIATION: $1,205,000
ACTUAL EXPENDITURES: $ 954,951

DESCRIPTION: Pipeline, storage, disinfection, pump, controls
ENGINEER: Weston Engineering, Inc.; Upton, Wyoming
CONTRACTOR: DRM, Inc.; Gillette, WY
YEAR COMPLETED: 2000
SESSION LAW DATE: 1997

309. PROJECT: Park Reservoir Dam
SPONSOR: Park Reservoir Company
LOCATION: Sheridan County
PROGRAM: New Development
APPROPRIATION: $3,750,000
ACTUAL EXPENDITURES: $3,725,000
DESCRIPTION: Dam
ENGINEER: Woodward Clyde Consultants; Denver, CO
CONTRACTOR: McIntyre Construction; Great Falls, MT
YEAR COMPLETED: 1982
SESSION LAW YEAR: 1981, 1982

310. PROJECT: Pathfinder Modification Project
SPONSOR: State of Wyoming
LOCATION: Natrona County
PROGRAM: Dams and Reservoirs
APPROPRIATION: $8,500,000
ACTUAL EXPENDITURES: $5,997,076
DESCRIPTION: Construction of a 3.39’ spillway raise at Pathfinder Dam
ENGINEER: URS; Denver, CO
CONTRACTOR: ASI Constructors; Pueblo, CO
YEAR COMPLETED: 2013
SESSION LAW YEAR: 2006

311. PROJECT: Pavillion East Water Supply
SPONSOR: State of Wyoming
LOCATION: Fremont County
PROGRAM: New Development
APPROPRIATION: $1,050,000
ACTUAL EXPENDITURES: $ 929,268
DESCRIPTION: A total of 31 cistern systems were constructed in the defined project area, which is located east of the Town of Pavillion, from January 2014 to February 2015. Eighteen (18) cistern systems were installed under Phase I and thirteen (13) cistern systems were installed under Phase II. In addition, a water-loading station was constructed in the Town of Pavillion. In return for a cistern system, the rural residents signed an access agreement that allows Wyoming DEQ to collect samples from private wells as part of an on-going groundwater investigation in the Pavillion area. The average cost for each cistern system was approximately $25,000.
ENGINEER: James Gores and Associates, Inc., Riverton, WY (design-build contractor)
CONTRACTOR: Viper Construction, Riverton, WY
YEAR COMPLETED: 2016
SESSION LAW YEAR: 2012/14

312. PROJECT: **Pavillion Water Supply**

SPONSOR:	Town of Pavillion
LOCATION:	Fremont County
PROGRAM:	New Development
APPROPRIATION:	$400,000
ACTUAL EXPENDITURES:	$300,000
DESCRIPTION:	Well, storage tank, and pipeline
ENGINEER:	Rolly Connell & Associates; Riverton, WY
CONTRACTOR:	Rieman Construction; Cheyenne, WY Rawhide Mechanical; Riverton, WY
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1994

313. PROJECT: **Pavillion Water System Improvements**

SPONSOR:	Town of Pavillion
LOCATION:	Fremont County
PROGRAM:	New Development
APPROPRIATION:	$214,500
ACTUAL EXPENDITURES:	$143,715
DESCRIPTION:	Transmission
ENGINEER:	Gores
CONTRACTOR:	71 Construction
YEAR COMPLETED:	2013
SESSION LAW YEAR:	2015

314. PROJECT: **Pine Bluffs Brule Formation Water Supply**

SPONSOR:	Town of Pine Bluffs
LOCATION:	Laramie County
PROGRAM:	New Development
APPROPRIATION:	$250,000
ACTUAL EXPENDITURES:	$212,044
DESCRIPTION:	Pump, controls, building, pipe, for new well
ENGINEER:	Lidstone & Associates, Inc.; Fort Collins, CO
CONTRACTOR:	Town & Country Plumbing, Inc.; Burns, WY
DATE COMPLETED:	2005
SESSION LAW DATE:	2003

315. PROJECT: **Pine Bluffs Deep Well 2009**

SPONSOR:	Town of Pine Bluffs
LOCATION:	Laramie County
PROGRAM:	New Development
APPROPRIATION:	$583,570
ACTUAL EXPENDITURES:	$319,344
DESCRIPTION:	Drilling, testing and completion of a production well
ENGINEER:	Lidstone & Associates; Ft. Collins, CO
CONTRACTOR:	Sargent Irrigation; Broken Bow, NE
YEAR COMPLETED:	2012
SESSION LAW YEAR:	2009

316. PROJECT: **Pine Bluffs Lance, Fox Hills Well**

SPONSOR:	Town of Pine Bluffs
LOCATION:	Laramie County
PROGRAM:	New Development

APPROPRIATION: $435,240
ACTUAL EXPENDITURES: $318,889
DESCRIPTION: Complete Level II well and upgrades to existing wells
ENGINEER: Dahlgren Consulting; Cheyenne, WY
CONTRACTOR: W.G. Dale Electric; Cheyenne, WY
Mechanical Systems Inc.; Cheyenne, WY
Bowman Irrigation; Pine Bluffs, WY
YEAR COMPLETED: 2011
SESSION LAW YEAR: 2006, 2008

317. PROJECT: Pine Bluffs Supply
SPONSOR: Town of Pine Bluffs
LOCATION: Laramie County
PROGRAM: New Development
APPROPRIATION: $1,245,000
ACTUAL EXPENDITURES: $1,185,639
DESCRIPTION: Transmission pipeline, well rehab, new irrigation well
ENGINEER: Lidstone & Associates, Inc.; Fort Collins, CO
CONTRACTOR: Aztec Construction Co., Inc.; Cheyenne, WY
Timberline Electric & Control Corp.; Morrison, CO
Town & Country Plumbing, Inc.; Burns, WY
DATE COMPLETED: 2004
SESSION LAW DATE: 2000

318. PROJECT: Pine Bluffs Well Rehabilitation
SPONSOR: Town of Pine Bluffs
LOCATION: Laramie County
PROGRAM: Rehabilitation
APPROPRIATION: $155,000
ACTUAL EXPENDITURES: $132,723
DESCRIPTION: Well rehabilitation
ENGINEER: Lidstone & Associates, Inc.; Fort Collins, CO
CONTRACTOR: Sargent Irrigation Company; Scottsbluff, NE
DATE COMPLETED: 2000
SESSION LAW DATE: 1996

319. PROJECT: Pine Haven Madison Well
SPONSOR: Town of Pine Haven
LOCATION: Crook County
PROGRAM: New Development
APPROPRIATION: $115,000
ACTUAL EXPENDITURES: $ 81,528
DESCRIPTION: Pump, controls, pipe, for Well #2
ENGINEER: Wester-Wetstein & Associates; Laramie & Gillette, WY
CONTRACTOR: Weston Engineering, Inc.; Upton, Y
SESSION LAW DATE: 2003

320. PROJECT: Pine Haven Pipeline Rehabilitation
SPONSOR: Town of Pine Haven
LOCATION: Crook County
PROGRAM: Rehabilitation
APPROPRIATION: $235,000
ACTUAL EXPENDITURES: $235,000

DESCRIPTION: Upgrade transmission pipelines re-plumb storage
ENGINEER: Stetson Engineering, Inc.; Gillette, WY
CONTRACTOR: Hot Iron, Inc.; Gillette, WY
DATE COMPLETED: 2002
SESSION LAW DATE: 2001

321. PROJECT: Pine Haven Transmission 2006
SPONSOR: Town of Pine Haven
LOCATION: Crook County
PROGRAM: New Development
APPROPRIATION: $348,000
ACTUAL EXPENDITURES: $154,500
DESCRIPTION: North Loop Transmission Pipeline
ENGINEER: Stetson Engineering, Inc.; Gillette, WY
CONTRACTOR: Site Work Specialists; Rapid City, SD
YEAR COMPLETED: 2010
SESSION LAW YEAR: 2006

322. PROJECT: Pine Haven Water Supply
SPONSOR: Town of Pine Haven
LOCATION: Crook County
PROGRAM: New Development
APPROPRIATION: $165,000
ACTUAL EXPENDITURES: $ 97,162
DESCRIPTION: Pipeline, storage tank
ENGINEER: Bearlodge Engineering; Sundance, WY
CONTRACTOR: Sundance Construction; Newcastle, WY
YEAR COMPLETED: 1989
SESSION LAW YEAR: 1988

323. PROJECT: Pinedale Intake Project
SPONSOR: Town of Pinedale
LOCATION: Sublette County
PROGRAM: New Development
APPROPRIATION: $193,000
ACTUAL EXPENDITURES: $ 63,051
DESCRIPTION: Rock cover over existing lake intake
ENGINEER: Rio Verde Engineering.; Pinedale, WY
CONTRACTOR: Noble Construction; Pinedale, WY
SESSION LAWS: 2002
COMPLETION DATE: 2003

324. PROJECT: Pinedale Pipeline
SPONSOR: Town of Pinedale
LOCATION: Sublette County
PROGRAM: New Development
APPROPRIATION: $320,000
ACTUAL EXPENDITURES: $202,974
DESCRIPTION: Transmission pipeline
ENGINEER: Rio Verde; Pinedale, WY
CONTRACTOR: Snyder Construction; Lyman, WY
YEAR COMPLETED: 1993
SESSION LAW YEAR: 1991

325. PROJECT: **Pinedale Pipelines**

SPONSOR:	Town of Pinedale
LOCATION:	Sublette County
PROGRAM:	New Development
APPROPRIATION:	$11,470,000
ACTUAL EXPENDITURES:	$ 5,150,420
DESCRIPTION:	New development of two transmission lines
ENGINEER:	Rio Verde Engineering; Pinedale, WY
CONTRACTOR:	Knife River Construction; Cheyenne, WY
YEAR COMPLETED:	2012
SESSION LAW YEAR:	2009, 2010

326. PROJECT: **Pinedale Transmission Line**

SPONSOR:	Town of Pinedale
LOCATION:	Sublette County
PROGRAM:	New Development
APPROPRIATION:	$3,550,000
ACTUAL EXPENDITURES:	$2,980,351
DESCRIPTION:	Transmission pipeline
ENGINEER:	Rio Verde Engineering; Pinedale, WY
CONTRACTOR:	Snyder Construction, Inc.; Lyman, WY
YEAR COMPLETED:	1999
SESSION LAW YEAR:	1996

327. PROJECT: **Pioneer Canal/Lake Hattie Loan**

SPONSOR:	Pioneer Canal-Lake Hattie Irrigation District
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$93,000
ACTUAL EXPENDITURES:	$87,000
DESCRIPTION:	Refinanced existing loan
ENGINEER:	NA
CONTRACTOR:	NA
DATE COMPLETED:	1988
SESSION LAW DATE:	1988

328. PROJECT: **Poison Spider Pipelines**

SPONSOR:	Poison Spider Improvement and Service District
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$1,036,000
ACTUAL EXPENDITURES:	$1,027,859
DESCRIPTION:	Construction of a new delivery system
ENGINEER:	609 Consulting, LLC; Casper, WY
CONTRACTOR:	Andreen Hunt Construction, Inc.; Casper, WY
YEAR COMPLETED:	2013
SESSION LAW YEAR:	2011

329. PROJECT: **Poison Spider Water Supply**

SPONSOR:	Poison Spider Improvement & Service Dist.
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$640,000

ACTUAL EXPENDITURES: $538,076
DESCRIPTION: Pipelines, metering, chlorination
ENGINEER: Civil Engineering Professionals; Casper, WY
CONTRACTOR: Hedquist Construction, Inc.; Casper, WY
YEAR COMPLETED: 1997
SESSION LAW YEAR: 1995

330. PROJECT: Porto Canal
SPONSOR: Porto Canal Irrigation District
LOCATION: Lincoln County
PROGRAM: Rehabilitation
APPROPRIATION: $808,000
ACTUAL EXPENDITURES: $681,040
DESCRIPTION: Converting open ditch to pipeline
ENGINEER: Sunrise Engineering; Afton, WY
CONTRACTOR: H-K Construction; Idaho Falls, ID
YEAR COMPLETED: 1997
SESSION LAW YEAR: 1996

331. PROJECT: Powell Master Plan/Powell Water Supply Rehabilitation
SPONSOR: City of Powell
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $1,163,000
ACTUAL EXPENDITURES: $1,163,000
DESCRIPTION: Construction of elevated water storage tank, repainting of the existing elevated water storage tank, installation of pressure control facilities and rerouting of some transmission pipelines.
ENGINEER: Engineering Associates; Cody, WY
CONTRACTOR: Maguire Iron, Inc., Sioux Falls, SD
Engineered Fluids, Inc.; Centralia, IL
Western Municipal Construction; Gillette, WY
YEAR COMPLETED: 2006
SESSION LAW YEAR: 2001, 2002, 2003 & 2004

332. PROJECT: Powell Transmission Pipeline Project
SPONSOR: City of Powell
LOCATION: Park County
PROGRAM: New Construction
APPROPRIATION: $1,689,070
ACTUAL EXPENDITURES: $ 454,815
DESCRIPTION: Construction of a transmission pipeline along the eastside of the city to provide additional pressures, flow of water and looping of the system.
ENGINEER: Sage Civil Engineering; Cody, WY
CONTRACTOR: Grace Inc., DBA Capstone Construction; Powell, WY
YEAR COMPLETED: 2010
SESSION LAW YEAR: 2007

333. PROJECT: **Rafter J Rehabilitation**

SPONSOR:	Rafter J Improvement and Service District
LOCATION:	Teton County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,152,000
ACTUAL EXPENDITURES:	$1,152,000
DESCRIPTION:	New well and replacement well, storage tank
ENGINEER:	Rendezvous Engineering; Jackson, WY
CONTRACTOR:	Thomas Drilling; Afton, WY Westwood Curtis Construction; Jackson, WY Associated Brigham Contractors; Brigham City, UT Hansen Excavation, LLC; Jackson, WY Weber Drilling, LLC; Jackson, WY
YEAR COMPLETED:	2012
SESSION LAW YEAR:	2003, 2005, 2006, 2007

334. PROJECT: **Ranchester Storage Tank**

SPONSOR:	Town of Ranchester
LOCATION:	Sheridan
PROGRAM:	Rehabilitation
APPROPRIATION:	$454,000
ACTUAL EXPENDITURES:	$373,582
DESCRIPTION:	New storage tank
ENGINEER:	EnTech Engineering, Inc.; Sheridan, WY
CONTRACTOR:	EAI West, Inc.; Loveland, CO
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2005, 2006

335. PROJECT: **Rawlins Atlantic Rim Pipeline**

SPONSOR:	City of Rawlins
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$3,900,000
ACTUAL EXPENDITURES:	$2,621,202
DESCRIPTION:	Transmission/Supply pipeline
ENGINEER:	Wester-Wetstein & Associates Inc.; Laramie, WY
CONTRACTOR:	Paul Reed Construction & Supply; Nebraska
YEAR COMPLETED:	2011
SESSION LAW YEAR:	2009, 2010

336. PROJECT: **Rawlins Groundwater Supply**

SPONSOR:	City of Rawlins
LOCATION:	Carbon County
PROGRAM:	New Development
APPROPRIATION:	$8,200,000
ACTUAL EXPENDITURES:	$7,505,939
DESCRIPTION:	Wells, pipeline
ENGINEER:	J.M. Montgomery; Laramie, WY
CONTRACTOR:	Several
YEAR COMPLETED:	1989
SESSION LAW YEAR:	1986, 1989

337. PROJECT: **Rawlins Pipeline & Atlantic Rim Reservoir**

SPONSOR:	City of Rawlins
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	Reservoir $6,930,000
ACTUAL EXPENDITURES:	Reservoir $5,972,112.36
DESCRIPTION:	Rehabilitation of the existing Atlantic Rim Reservoir
ENGINEER:	Wester-Wetstein & Associates, Inc.; Laramie, WY, Subconsultants: RJH Consultants; Inc., Englewood, CO
CONTRACTOR:	Paul Reed Construction & Supply; Gering, Nebraska
YEAR COMPLETED:	2013
SESSION LAW YEAR:	Reservoir 2009 and 2010/2010 and 2011

338. PROJECT: **Rawlins Springs Rehabilitation**

SPONSOR:	City of Rawlins
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$220,000
ACTUAL EXPENDITURES:	$ 55,722
DESCRIPTION:	Springs enhancement
ENGINEER:	J.M. Montgomery; Laramie, WY
CONTRACTOR:	City of Rawlins
YEAR COMPLETED:	1985
SESSION LAW YEAR:	1984

339. PROJECT: **Rawlins Treated Water Tank Rehabilitation**

SPONSOR:	City of Rawlins
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,727,930
ACTUAL EXPENDITURES:	$1,154,298
DESCRIPTION:	Rehabilitation of Painted Hills and Hospital Tanks
ENGINEER:	PMPC Civil Engineers; Saratoga, WY
CONTRACTOR:	Purcell P & C, LLC; Richland WA
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2007

340. PROJECT: **Rawlins Water Supply**

SPONSOR:	City of Rawlins
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$3,810,000
ACTUAL EXPENDITURES:	$3,547,318
DESCRIPTION:	Construct North Platte River raw water intake, pump station and transmission line; rehabilitation of existing Thayer pump station and construction of a treated water transmission line to Sinclair storage tank
ENGINEER:	Western Water Consultants; Laramie, WY
CONTRACTOR:	Western Municipal Construction; Billings MT Three Sons Construction; Hanna, WY
YEAR COMPLETED:	2003
SESSION LAW YEAR:	1998 and 2002

341. PROJECT: **Reliance Water Supply**

SPONSOR:	Green River / Rock Springs / Sweetwater County Joint Powers Board
LOCATION:	Sweetwater County
PROGRAM:	New Development
APPROPRIATION:	$1,742,000
ACTUAL EXPENDITURES:	$1,694,513
DESCRIPTION:	New development including tank, transmission line and booster station
ENGINEER:	Nelson Engineering; Jackson, WY
CONTRACTOR:	Debernardi Construction; Rock Springs, WY
YEAR COMPLETED:	2013
SESSION LAW YEAR:	2011

342. PROJECT: **Riverside**

SPONSOR:	Sierra Madre Water & Sewer Joint Powers Board
LOCATION:	Carbon County
PROGRAM:	New Development
APPROPRIATION:	$1,225,000
ACTUAL EXPENDITURES:	$ 834,574
DESCRIPTION:	Municipal water supply
ENGINEER:	PMPC; Saratoga, Wyoming
CONTRACTOR:	Bartlett Construction; Hanna, WY
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1992

343. PROJECT: **Riverton Raw Water Supply Rehabilitation Project**

SPONSOR:	City of Riverton
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,086,500
ACTUAL EXPENDITURES:	$ 64,293 (City refunded this amount.)
DESCRIPTION:	Rehabilitating a raw water conveyance system which serves the City of Riverton.
ENGINEER:	Apex Surveying, Inc.; Riverton, WY
CONTRACTOR:	None
YEAR COMPLETED:	Project was terminated
SESSION LAW YEAR:	2001 and 2004

344. PROJECT: **Riverton Valley**

SPONSOR:	City of Riverton/Riverton Valley Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$5,750,000
ACTUAL EXPENDITURES:	$5,743,436
DESCRIPTION:	Canal, pipeline
ENGINEER:	R.D. Connell and Associates; Riverton, WY
CONTRACTOR:	Larry's Inc.; Gillette, WY
YEAR COMPLETED:	1987
SESSION LAW YEAR:	1984

345. PROJECT: **Riverton Valley Laterals**

SPONSOR:	City of Riverton/Riverton Valley Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$350,000
ACTUAL EXPENDITURES:	$348,544
DESCRIPTION:	Canal, pipeline
ENGINEER:	R.D. Connell and Associates; Riverton, WY
CONTRACTOR:	City of Riverton/Riverton Valley Irrigation District; Riverton, WY
YEAR COMPLETED:	1999
SESSION LAW YEAR:	1994

346. PROJECT: **Riverton Valley Pipeline Relocation**

LEVEL:	III
SPONSOR:	Riverton Valley Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$670,000
ACTUAL EXPENDITURES:	$583,594
DESCRIPTION:	Relocate pipeline in highway right-of-way
ENGINEER:	Apex: Riverton WY
CONTRACTOR:	Paul Reed; Torrington WY
YEAR COMPLETED:	2011
SESSION LAW YEAR:	2009

347. PROJECT: **Riverton Valley Rehabilitation 2009**

LEVEL:	III
SPONSOR:	Riverton Valley Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$79,000
ACTUAL EXPENDITURES:	$52,000
DESCRIPTION:	Various work on laterals
ENGINEER:	APEX Surveying; Riverton, WY
MATERIALS:	Killebrew Irrigation, Inc.; Lander, WY
YEAR COMPLETED:	2012
SESSION LAW YEAR:	2009

348. PROJECT: **Riverton Valley Rehabilitation 2013**

LEVEL:	III
SPONSOR:	Riverton Valley Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$137,000
ACTUAL EXPENDITURES:	$ 75,747
DESCRIPTION:	Lateral rehabilitation.
ENGINEER:	Apex, Riverton, WY
CONTRACTOR:	Riverton Valley Irrigation District, Riverton, WY
YEAR COMPLETED:	2017
SESSION LAW YEAR:	2013

349. PROJECT: **Riverton Valley Rehabilitation No. 2-I**

SPONSOR:	Riverton Valley Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$335,000
ACTUAL EXPENDITURES:	$334,987
DESCRIPTION:	Rehabilitate various laterals on the system.
ENGINEER:	Apex Engineering; Riverton, WY
CONTRACTOR:	Riverton Valley Irrigation District; Riverton, WY
YEAR COMPLETED:	2007
SESSION LAW YEAR:	2002

350. PROJECT: **Riverton Valley Rehabilitation #2, Phase II/Riverton Valley Underflow Project**

SPONSOR:	Riverton Valley Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$140,000
ACTUAL EXPENDITURES:	$105,024
DESCRIPTION:	Rehabilitation of four underflow structures
ENGINEER:	Apex Surveying, Inc.; Riverton, WY
CONTRACTOR:	Doug Evans Excavation; Riverton, WY
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2003

351. PROJECT: **Riverton Water Supply**

SPONSOR:	City of Riverton
LOCATION:	Fremont County
PROGRAM:	New Construction
APPROPRIATION:	$312,000
ACTUAL EXPENDITURES:	$283,106
DESCRIPTION:	Well and Transmission Pipeline
ENGINEER:	Wester-Wetstein & Assoc., Inc.; Laramie, WY
CONTRACTOR:	Patrick Construction; Lander, WY
YEAR COMPLETED:	2000
SESSION LAW YEAR:	1996, 1999

352. PROJECT: **Rock River Transmission Line Replacement**

SPONSOR:	Town of Rock River
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,159,100
ACTUAL EXPENDITURES:	$1,073,871
DESCRIPTION:	Intake Structure and 2.7 miles of transmission line
ENGINEER:	Sunrise Engineering; Cheyenne, WY
CONTRACTOR:	Harris Trucking & Construction Company; Cody, WY Dale Weaver Wyoming, LLC; Powell, WY
YEAR COMPLETED:	2018
SESSION LAW YEAR:	2014

353. PROJECT: **Rock River Transmission Pipeline**

SPONSOR:	Town of Rock River
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$670,000
ACTUAL EXPENDITURES:	$495,246
DESCRIPTION:	Intake Structure and Raw Water Transmission Line
ENGINEER:	Banner Associates; Laramie, WY
CONTRACTOR:	Bartlett, Inc.; Hanna, WY
	Moltz Constructors, Inc.; Cody, WY
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1998

354. PROJECT: **Rock Springs/Green River Area Supply**

SPONSOR:	GR-RS-SC JPWB
LOCATION:	Sweetwater County
PROGRAM:	New Development
APPROPRIATION:	$27,000,000
ACTUAL EXPENDITURES:	$27,000,000
DESCRIPTION:	Transmission Line, Storage, Pumping, Controls
ENGINEER:	Forsgren Engineering; Evanston, WY
	Crank Companies; Kemmerer, WY
CONTRACTOR:	DeBernardi Construction; Rock Springs, WY
	Snyder Construction; Lyman, WY
	H-K Construction; Idaho Falls, ID
	High Pains Construction; Casper, WY
	Resource Engineering; Rock Springs, WY
	C M E; Green River, WY
ENGINEER:	Forsgren Engineering; Evanston, WY
	Crank Companies; Kemmerer, WY
CONTRACTOR:	DeBernardi Construction; Rock Springs, WY
	Snyder Construction; Lyman, WY
	H-K Construction; Idaho Falls, ID
	High Pains Construction; Casper, WY
	Resource Engineering; Rock Springs, WY
	C M E; Green River, WY
YEAR COMPLETED:	2000
SESSION LAW YEAR:	1990, 1994

355. PROJECT: **Rolling Hills Water Supply**

SPONSOR:	Town of Rolling Hills
LOCATION:	Converse
PROGRAM:	New Development
APPROPRIATION:	$282,000
ACTUAL EXPENDITURES:	$221,878
DESCRIPTION:	New Tank and Transmission Lines
ENGINEER:	R. C. H and Associates; Glenrock, WY
CONTRACTOR:	CVIC; Casper, WY
	Phipps; Glenrock, WY
	D.C. Drilling; Lusk, WY
	Bartlett; Hanna, WY
DATE COMPLETED:	2001
SESSION LAW YEAR:	2000

356. PROJECT: **Rolling Hills Water Supply**

SPONSOR:	Town of Rolling Hills
LOCATION:	Converse
PROGRAM:	New Development
APPROPRIATION:	$1,344,000
ACTUAL EXPENDITURES:	$1,156,590
DESCRIPTION:	Design and construction of storage tank and water delivery system improvements
ENGINEER:	Civil Engineering Professionals Inc.
CONTRACTOR:	High Plains Contracting
YEAR COMPLETED:	2017
SESSION LAW YEAR:	2012/2014

357. PROJECT: **Rolling Hills Well**

SPONSOR:	Town of Rolling Hills
LOCATION:	Converse County
PROGRAM:	Rehabilitation
APPROPRIATION:	$225,000
ACTUAL EXPENDITURES:	$205,723
DESCRIPTION:	New Well
ENGINEER:	Wester-Wetstein and Associates; Laramie, WY
CONTRACTOR:	Ruby Drilling; Gillette, WY
YEAR COMPLETED:	2001
SESSION LAW YEAR:	2000

358. PROJECT: **Sahara Rehabilitation**

SPONSOR:	Powder River Irrigation District
LOCATION:	Johnson County
PROGRAM:	Rehabilitation
APPROPRIATION:	$900,000
ACTUAL EXPENDITURES:	$900,000
DESCRIPTION:	Diversion structure, canal improvements
ENGINEER:	Western Water Consultants; Sheridan, WY
CONTRACTOR:	Foster Construction; Riverton, WY
YEAR COMPLETED:	1995
SESSION LAW YEAR:	1992, 1993

359. PROJECT: **Salt Creek Water Supply**

SPONSOR:	Salt Creek Water & Sewer District
LOCATION:	Weston County
PROGRAM:	New Development
APPROPRIATION:	$690,000
ACTUAL EXPENDITURES:	$690,000
DESCRIPTION:	Upgrade transmission pipeline, put new well on line
ENGINEER:	Wester-Wetstein & Associates, Inc.; Laramie, WY
CONTR2ACTOR:	Hawley, Inc.; Torrington, WY
DATE COMPLETED:	2003
SESSION LAW YEAR:	2000

360. PROJECT: **Saratoga Storage Standpipe Rehabilitation**

SPONSOR:	Town of Saratoga and Carbon County Impact JPB
LOCATION:	Carbon County
PROGRAM:	Rehabilitation

APPROPRIATION: $200,000
ACTUAL EXPENDITURES: $172,569
DESCRIPTION: Rehabilitation of a 1 million gallon welded steel storage standpipe that was constructed in 1978. The major rehabilitation items for included stair and railing modifications, relocation of the overflow piping, sandblasting and painting the interior, cleaning and painting the exterior, and installing a cathodic protection system.
ENGINEER: PMPC Civil Engineers; Saratoga, WY
CONTRACTOR: Coating Systems, Inc.
YEAR COMPLETED: 2005
SESSION LAW YEAR: 2004

361. PROJECT: Saratoga Well Field
SPONSOR: Town of Saratoga and Carbon County Impact JPB
LOCATION: Carbon County
PROGRAM: Rehabilitation
APPROPRIATION: $4,656,500
ACTUAL EXPENDITURES: $3,079,680
DESCRIPTION: Developed a well field for the Town
ENGINEER: PMPC Civil Engineers; Saratoga, WY
CONTRACTOR: Arapahoe Utilities & Infrastructure; Englewood, CO
YEAR COMPLETED: 2010

362. PROJECT: Shell Canal
SPONSOR: Shell Valley Watershed Improvement District
LOCATION: Big Horn County
PROGRAM: Rehabilitation
APPROPRIATION: $190,000
ACTUAL EXPENDITURES: $190,000
DESCRIPTION: Sheldon Gulch Siphon, Canal repairs
ENGINEER: Soil Conservation Service; Worland, WY
CONTRACTOR: Big Horn Ready Mix, Inc.; Greybull, WY
YEAR COMPLETED: 1989
SESSION LAW DATE: 1983

363. PROJECT: Shell Canal Tunnel Rehabilitation
SPONSOR: Shell Valley Watershed Improvement District
LOCATION: Big Horn County
PROGRAM: Rehabilitation
APPROPRIATION: $1,220,000
ACTUAL EXPENDITURES: $611,661
DESCRIPTION: Removal of 562 foot long irrigation canal tunnel
ENGINEER: States West Water Resources; Sheridan, WY
CONTRACTOR: GK Construction Inc.; Lovell, WY
YEAR COMPLETED: 2014
SESSION LAW YEAR: 2012

364. PROJECT: Shell Valley/Greybull Water Supply
SPONSOR: Town of Greybull
LOCATION: Big Horn County
PROGRAM: New Development
APPROPRIATION: $666,400

ACTUAL EXPENDITURES: $521,291
DESCRIPTION: Wells, pipeline
ENGINEER: Crank Company; Kemmerer, WY
CONTRACTOR: Continental Construction; Jackson, WY
YEAR COMPLETED: 1989

365. PROJECT: Sheridan Area Water Supply
LEVEL: III
PROGRAM: New Development
SPONSOR: Sheridan Area Water Supply Joint Powers Board
LOCATION: Sheridan County
PROGRAM: New Development, Public Purpose Investment
APPROPRIATION: $37,206,000
$ 6,750,000 (permanent mineral trust fund loan)
ACTUAL EXPENDITURES: $37,206,000
$ 6,750,000 (permanent mineral trust fund loan)
DESCRIPTION: Enlargement of Twin Lakes Reservoir, Water transmission facilities, Water treatment plant in Big Goose Valley, Raw water transmission pipeline,
ENGINEER: Several
CONTRACTOR: Several (21 separate contracts)
YEAR COMPLETED: 2000
SESSION LAW YEAR; 1989, 1990, 1993, 1996

366. PROJECT: Sheridan/Big Goose Slip Lining
SPONSOR: City of Sheridan
LOCATION: Sheridan County
PROGRAM: Rehabilitation
APPROPRIATION: $427,020
ACTUAL EXPENDITURES: $354,852
DESCRIPTION: Cement mortar lining of transmission pipelines
ENGINEER: DOWL HKM; Sheridan, WY
CONTRACTOR: Spiniello Companies; Pomona, CA
YEAR COMPLETED: 2011
SESSION LAW YEAR: 2007

367. PROJECT: Sheridan Big Goose Water Supply
SPONSOR: City of Sheridan
LOCATION: Sheridan County
PROGRAM: New Development
APPROPRIATION: $2,291,000
ACTUAL EXPENDITURES: $2,184,261
DESCRIPTION: Update and improve the Sheridan Big Goose Water Supply Intake
ENGINEER: HKM; Sheridan, WY
CONTRACTOR Larry's; Gillette, WY
YEAR COMPLETED: 2004
SESSION LAW YEARS: 2000, 2002, and 2003

368. PROJECT: Sheridan Intake Structure
SPONSOR: City of Sheridan
LOCATION: Sheridan County
PROGRAM: Rehabilitation

APPROPRIATION: $200,000
ACTUAL EXPENDITURES: $200,000
DESCRIPTION: Diversion dam
ENGINEER: TSP; Sheridan, WY
CONTRACTOR: Husman Construction; Sheridan, WY
YEAR COMPLETED: 1987
SESSION LAW YEAR: 1985

369. PROJECT: Sheridan North Loop Transmission Line
SPONSOR: City of Sheridan
LOCATION: Johnson County
PROGRAM: New Development
APPROPRIATION: $1,714,460
ACTUAL EXPENDITURES: $1,714,460
DESCRIPTION: 2.8 miles of 16" PVC transmission main pipeline
ENGINEER: DOWL, Sheridan, WY
CONTRACTOR: Wilson Brothers
YEAR COMPLETED: 2015
SESSION LAW YEAR: 2013, 2014

370. PROJECT: Sheridan NW/Big Goose Tanks
SPONSOR: City of Sheridan
LOCATION: Sheridan County
PROGRAM: New Development
APPROPRIATION: $5,260,840
ACTUAL EXPENDITURES: $5,189,447
DESCRIPTION: Two concrete storage tanks, transmission line and necessary system connections
ENGINEER: DOWL HKM, Sheridan, WY; HDR, Billings, MT
CONTRACTOR: Fletcher Construction, Sheridan, WY; COP Construction, Sheridan, WY
YEAR COMPLETED: 2013
SESSION LAW YEAR: 2007

371. PROJECT: Sheridan Pipeline Rehabilitation
SPONSOR: City of Sheridan
LOCATION: Sheridan County
PROGRAM: Rehabilitation
APPROPRIATION: $6,044,000
ACTUAL EXPENDITURES: $5,880,982
DESCRIPTION: Transmission line replacement
ENGINEER: HKM Engineering; Sheridan, WY
CONTRACTOR: Excel Construction, Inc.; Sheridan, WY
YEAR COMPLETED: 2008
SESSION LAW YEAR: 2003, 2005, 2006

372. PROJECT: Sheridan Raw Water Supply
SPONSOR: City of Sheridan
LOCATION: Sheridan County
PROGRAM: New Development
APPROPRIATION: $796,000
ACTUAL EXPENDITURES: $796,000
ENGINEER: MSE-HKM; Sheridan, WY

	CONTRACTOR:	Larry's Inc.; Gillette, WY
	YEAR COMPLETED:	2001
	SESSION LAW YEAR:	1999, 2000
373.	**PROJECT:**	**Sheridan Raw Water Supply Rehabilitation Project**
	SPONSOR:	City of Sheridan
	LOCATION:	Sheridan County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$50,000
	ACTUAL EXPENDITURES:	$42,290
	DESCRIPTION:	Raw water transmission to Kendrick Golf Course, engineering design of pump station.
	ENGINEER:	HKM Engineering; Sheridan, WY
	CONTRACTOR:	NA, design only
	YEAR COMPLETED	2003
	SESSION LAW YEAR	2001
374.	**PROJECT:**	**Shoshone Drop Structures**
	SPONSOR:	Shoshone Irrigation District
	LOCATION:	Park County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$570,000
	ACTUAL EXPENDITURES:	$549,777
	DESCRIPTION:	Five Garland Canal Drop Structures, Lateral 36F, Ralston Reservoir Check Structure
	ENGINEER:	Sage Civil Engineering; Cody, WY
	MATERIALS:	J&E Irrigation, Inc.; Basin, WY White Cap Construction Supply; Ft. Collins, CO Teton Steel, Inc.; Casper, WY Eden Farms; Powell, WY Big Horn Redi-Mix, Inc.; Thermopolis, WY
	DATE COMPLETED:	2006
	SESSION LAW DATE:	2002
375.	**PROJECT:**	**Shoshone Eagle Nest Creek**
	SPONSOR:	Shoshone Irrigation District
	LOCATION:	Park County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$1,145,700
	ACTUAL EXPENDITURES:	$1,110,599
	DESCRIPTION:	Replace Eagle Nest Creek crossing structure, Pipe laterals 4C, 2W, 24F, D, 6S, 9S, 16T, 20B, and R.
	ENGINEER:	Sage Civil Engineering; Cody, WY
	MATERIALS:	Cretex Concrete Products; West; Minneapolis, MN J&E Irrigation, Inc.; Basin, WY Waterworks Irrigation, Inc.; Ralston, WY
	YEAR COMPLETED:	2010
	SESSION LAW YEAR:	2006
376.	**PROJECT:**	**Shoshone Irrigation District Rehabilitation 2013**
	SPONSOR:	Shoshone Irrigation District
	LOCATION:	Park County
	PROGRAM:	Rehabilitation

APPROPRIATION: $827,245*
ACTUAL EXPENDITURES: $827,245
DESCRIPTION: Pipe Laterals 7V 9-16, 12T, 16T 6-14, 16T 16-19, Replace Garland Canal Drop 22, 27
ENGINEER: Sage Civil Engineering; Cody, WY
CONTRACTOR: Shoshone Irrigation District
MATERIALS: Waterworks Irrigation, Inc.; Ralston, WY
Waterworks Industries, Inc.; Casper, WY
YEAR COMPLETED: 2015
SESSION LAW YEAR: 2013
*Includes $32,245 Sponsor's Inflation Fund, Account II, 2014

377. PROJECT: Shoshone Irrigation District Rehabilitation 2015
SPONSOR: Shoshone Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $290,000
ACTUAL EXPENDITURES: $290,000
DESCRIPTION: Replace two drop structures and three segments of open canal with pipe
ENGINEER: Sage Civil Engineering; Cody, WY
CONTRACTOR: Waterworks Irrigation, Inc.; Ralston, WY
YEAR COMPLETED: 2018
SESSION LAW YEAR: 2015

378. PROJECT: Shoshone Municipal Pipeline
SPONSOR: Shoshone Municipal Water Supply Joint Powers Board
LOCATION: Park and Big Horn Counties
PROGRAM: New Development
APPROPRIATION: $38,750,000
ACTUAL EXPENDITURES: $38,451,942
DESCRIPTION: Pipeline, storage tanks, controls
ENGINEER: Banner Associates; Laramie, WY
CONTRACTOR: Barcon; Sheridan, WY
ASI Moltz; Cody, WY
YEAR COMPLETED: 1992
SESSION LAW YEAR: 1987, 1990

379. PROJECT: Shoshone Municipal Pipeline - 2009
SPONSOR: Shoshone Municipal Water JPB
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $2,428,800
ACTUAL EXPENDITURES: $1,705,303
DESCRIPTION: Pipeline relocation due to highway construction
ENGINEER: DOWL HKM; Laramie, WY
CONTRACTOR: Garney Wyoming, Inc.; Chugwater, WY
YEAR COMPLETED: 2012
SESSION LAW YEAR: 2009

380. PROJECT: **Shoshone Municipal Water Treatment**

SPONSOR:	Shoshone Municipal Water Supply Joint Powers Board
LOCATION:	Park and Big Horn Counties
PROGRAM:	Public Purpose Investment
APPROPRIATION:	$16,500,000 (permanent mineral trust fund loan)
ACTUAL EXPENDITURES:	$15,775,959
DESCRIPTION:	Water treatment plant
ENGINEER:	Banner Associates; Laramie, WY
CONTRACTOR:	TIC; Casper, WY ASI Moltz; Cody, WY
YEAR COMPLETED:	1992
SESSION LAW YEAR:	1987, 1990

381. PROJECT: **Shoshone Rehabilitation**

SPONSOR:	Shoshone Irrigation Project Joint Powers Board
LOCATION:	Park/Big Horn Counties
PROGRAM:	Rehabilitation
APPROPRIATION:	$7,500,000
ACTUAL EXPENDITURES:	$7,448,171
DESCRIPTION:	Pipelines, canal structures, tunnel grouting, siphon coating, headgate repair
ENGINEER:	Graham, Dietz & Associates; Powell, WY Engineering Associates; Cody, WY Inberg-Miller Engineers; Powell, WY ESA; Bozeman, MT Engineering Science, Inc.; Salt Lake City, UT Water Resources Engineers; Powell, WY
CONTRACTOR:	LaMax Construction; Basin, WY Miller Fabrication; Lovell, WY Elkhorn Construction; Powell, WY Moltz Construction; Cody, WY Excel Construction; Sheridan, WY
MATERIALS:	Elk River Concrete; Helena, MT A-C Supply; Basin, WY Boomers Irrigation; Powell, WY J&E, Inc.; Greybull, WY TNT Irrigation, Inc.; Powell, WY
DATE COMPLETED:	2001
SESSION LAW DATE:	1992

382. PROJECT: **Shoshone Rehabilitation 2009**

SPONSOR:	Shoshone Irrigation District
LOCATION:	Park County
PROGRAM:	Rehabilitation
APPROPRIATION:	$339,000
ACTUAL EXPENDITURES:	$256,221
DESCRIPTION:	Lateral 11U, Drop #22, Buck Creek Undershot
ENGINEER:	Sage Civil Engineering; Cody, WY
CONTRACTOR:	Shoshone Irrigation District

	MATERIALS:	Waterworks Irrigation, Inc.; Ralston, WY Northwest Pipe Fittings; Billings, MT
	YEAR COMPLETED:	2011
	SESSION LAW YEAR:	2009
383.	**PROJECT:**	**Shoshone Rehabilitation 2011**
	SPONSOR:	Shoshone Irrigation District
	LOCATION:	Park County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$585,000
	ACTUAL EXPENDITURES:	$585,000
	DESCRIPTION:	Laterals 6W, 20D, 10A, Drops #17, #31.
	ENGINEER:	Sage Civil Engineering, Cody, Wyoming
	CONTRACTOR:	Shoshone Irrigation District
	MATERIALS:	Waterworks Irrigation, Inc., Ralston, Wyoming
	YEAR COMPLETED:	2013
	SESSION LAW YEAR:	2011
384.	**PROJECT:**	**Shoshone Well and Transmission**
	SPONSOR:	Eastern Shoshone Tribe
	LOCATION:	Fremont County, Wind River Indian Reservation
	PROGRAM:	New Development
	APPROPRIATION:	$824,000
	ACTUAL EXPENDITURES:	$624,473
	DESCRIPTION:	Well and Transmission Line
	ENGINEER:	Lidstone & Associates, Inc.; Fort Collins, CO
	CONTRACTOR:	Patrick Construction Inc.; Lander WY
	YEAR COMPLETED:	2011
	SESSION LAW YEAR:	2007
385.	**PROJECT:**	**Shoshoni Water Supply**
	SPONSOR:	Town of Shoshoni
	LOCATION:	Fremont County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$740,000
	ACTUAL EXPENDITURES:	$660,066
	DESCRIPTION:	Well replacement, water storage improvements
	ENGINEER:	Civil Engineering Professionals, Inc.; Casper, WY
	CONTRACTOR:	71 Construction, Inc.; Casper, WY
	YEAR COMPLETED:	1995
	SESSION LAW YEAR:	1991
386.	**PROJECT:**	**Sidon Bitter Creek Crossing Rehabilitation**
	SPONSOR:	Sidon Irrigation District
	LOCATION:	Big Horn County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$217,000
	ACTUAL EXPENDITURES:	$217,000
	DESCRIPTION:	Replace concrete structure passing Bitter Creek over Sidon Canal
	ENGINEER:	Engineering Associates, Inc.; Cody, WY

CONTRACTOR: Wilson Brothers Construction; Cowley, WY
YEAR COMPLETED: 2004
SESSION LAW YEAR: 2002

387. PROJECT: Sidon Canal Rehabilitation
SPONSOR: Sidon Irrigation District
LOCATION: Big Horn County
PROGRAM: Rehabilitation
APPROPRIATION: $1,060,000
ACTUAL EXPENDITURES: $ 730,260
DESCRIPTION: Diversion Headgate, Inverted Siphons
ENGINEER: Inberg-Miller Engineers; Riverton, WY
CONTRACTOR: Excel Construction, Inc.; Sheridan, WY
DATE COMPLETED: 1998
SESSION LAW DATE: 1995

388. PROJECT: Sidon Irrigation District Rehabilitation 2014
SPONSOR: Sidon Irrigation District
LOCATION: Park and Big Horn Counties
PROGRAM: Rehabilitation
APPROPRIATION: $109,000
ACTUAL EXPENDITURES: $109,000
DESCRIPTION: Replace six ditches with pipe
ENGINEER: Pryor Mountain Engineering, Cowley, WY
MATERIALS: Big Horn Truck & Equipment, Manderson, WY
YEAR COMPLETED: 2016
SESSION LAW YEAR: 2014

389. PROJECT: Sidon Irrigation District Rehabilitation 2017
SPONSOR: Sidon Irrigation District
LOCATION: Park and Big Horn Counties
PROGRAM: Rehabilitation
APPROPRIATION: $483,000
ACTUAL EXPENDITURES: $437,446
DESCRIPTION: Converting segment of ditch to buried pipe
ENGINEER: Pryor Mountain; Cowley, WY
CONTRACTOR: Waterworks Industries Inc.; Casper, WY
YEAR COMPLETED: 2018
SESSION LAW YEAR: 2017

390. PROJECT: Sidon Rehabilitation
SPONSOR: Sidon Irrigation District
LOCATION: Park and Big Horn County
PROGRAM: Rehabilitation
APPROPRIATION: $295,000
ACTUAL EXPENDITURES: $273,372
DESCRIPTION: Pipe Black-Miller Ditch, mechanical weed screen
ENGINEER: Pryor Mountain Engineering; Cowley, WY
CONTRACTOR: Sidon Irrigation District
MATERIALS: Waterworks Irrigation, Inc.; Ralston, WY
YEAR COMPLETED: 2012
SESSION LAW YEAR: 2008, 2009

391. PROJECT: **Sinclair Water Supply Project**

SPONSOR:	Town of Sinclair
LOCATION:	Carbon County
PROGRAM:	New Development
APPROPRIATION:	$672,500 (50% Grant)
ACTUAL EXPENDITURES:	$433,915
DESCRIPTION:	New potable water storage tank, connecting pipeline and appurtenances.
ENGINEER:	PMPC Consulting Engineers; Saratoga, WY
CONTRACTOR:	Hot Iron Construction, Inc.; Gillette, WY
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2002

392. PROJECT: **Sinnard Dam**

SPONSOR:	Horse Creek Conservation District
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,100,000
ACTUAL EXPENDITURES:	$ 918,814
DESCRIPTION:	Dam and outlet works
ENGINEER:	ECI; Englewood, CO
CONTRACTOR:	Domino Construction; Laramie, WY
DATE COMPLETED:	1996
SESSION LAW DATE:	1993

393. PROJECT: **Sleepy Hollow Pipeline**

SPONSOR:	Central Campbell County Improvement and Service District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$200,000
ACTUAL EXPENDITURES:	$200,000
DESCRIPTION:	Construction of a transmission pipeline from the district's new well to the storage tank and installation of a well pump.
ENGINEER:	Falcon Consulting Services; Gillette, WY
CONTRACTOR:	DRM, Inc.; Gillette, WY
YEAR COMPLETED:	2006
SESSION LAW YEAR:	2004

394. PROJECT: **Sleepy Hollow Tank Rehabilitation**

SPONSOR:	Central Campbell County Improvement and Service District
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$50,000
ACTUAL EXPENDITURES:	$45,885
DESCRIPTION:	Stabilization of tank settlement, modification of pipeline connections, and rehabilitation of tank control building.
ENGINEER:	Falcon Consulting Services; Gillette, WY
CONTRACTOR:	Long's Plumbing & Heating, Inc.; Gillette, WY
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2002

395. PROJECT: **Sleepy Hollow Well Replacement**

SPONSOR:	Central Campbell County I&S District
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$350,000
ACTUAL EXPENDITURES:	$227,811
DESCRIPTION:	Replacement of well, pump, controls, pipe
ENGINEER:	Soda Butte Services; Upton, WY
CONTRACTOR:	Williams Drilling; Gillette, WY Hladky Construction; Gillette, WY
DATE COMPLETED:	1996
SESSION LAW DATE:	1994

396. PROJECT: **Small Water Projects**

Small Water Project	Account	Year Approved
Asperation Well	New Development	2003
Bad Land Well	New Development	2003
Bench Well	New Development	2003
Big Bend Pasture Well	New Development	2003
Big Horn River Ranch Pipeline	New Development	2003
Blue Forest Well	New Development	2003
Central Well	New Development	2003
Crowfoot Ranch Well	New Development	2003
Diamond S Ranch Pipeline	New Development	2003
East Dry Creek #1 Well	New Development	2003
Emigrant Well	New Development	2003
Emigrant/Four Mile Pits	New Development	2003
Four Mile Gulch Well	New Development	2003
Gasson Well #2	New Development	2003
Gooseberry Creek Ranch Well	New Development	2003
Jensen Wash Well	New Development	2003
Lombard Well	New Development	2003
Migration Well	New Development	2003
Perino Pipeline	New Development	2003
Russell Ranch Pipeline	New Development	2003
Twelve Mile Sink Well	New Development	2003
Big Sandy Pipeline	Rehabilitation	2003
Cabin Creek Water Development	Rehabilitation	2003
Coyote Reservoirs	Rehabilitation	2003
Croonberg Water Development	Rehabilitation	2003
Diamond S Ranch Well	Rehabilitation	2003
Jones Water Project	Rehabilitation	2003
Old Steve Adams Duck Pond	Rehabilitation	2003
Poison Buttes/Cottonwood Ponds	Rehabilitation	2003
TY Ranch Pipeline	Rehabilitation	2003
Aaron Carollow Livestock	New Development	2004
Antelope Hills Water Well	New Development	2004
Antone Swanda Well & Pipeline	New Development	2004

Small Water Project	Account	Year Approved
Basin Allotment Project	New Development	2004
Black Thunder Watershed Project	New Development	2004
Butte Water Development	New Development	2004
Chant Water Well #1	New Development	2004
Cherokee Allotment Ground Water	New Development	2004
Coal Gulch Grade Control/Diversion	New Development	2004
Dobie Ridge Project	New Development	2004
Gordon Pries Irrigation Pipeline/Pond	New Development	2004
Muddy Creek Ox Bow Restoration	New Development	2004
PH livestock Fillmore Pasture	New Development	2004
Range Unit 40 Young Bench Well	New Development	2004
Shant Stock Ponds #7 & #8	New Development	2004
Springfield Ranch-Laramie Plains	New Development	2004
Vineyard Ranch Small Water Project	New Development	2004
Big Poddy Creek Pipeline	Rehabilitation	2004
Blakely Big Draw	Rehabilitation	2004
Double Tanks Pipeline	Rehabilitation	2004
Hay Creek Project	Rehabilitation	2004
Henthorne Pipeline	Rehabilitation	2004
Irvine Ranch Small Water Project	Rehabilitation	2004
Jones Bros. 2-B & #8 Reservoirs	Rehabilitation	2004
Little Jack Res., South Flat Top	Rehabilitation	2004
Lodgepole Water Project	Rehabilitation	2004
Mishurda Mtn. Ranch, Phase 2 Pipeline	Rehabilitation	2004
Morrisey Pipeline Rehabilitation	Rehabilitation	2004
Muley Meadows Pipeline	Rehabilitation	2004
Range Unit 38 Water Rocks Pipeline	Rehabilitation	2004
Range Unit 40 Crowheart Butte Pipeline	Rehabilitation	2004
Red Butte Water Project	Rehabilitation	2004
South Coffee Project	Rehabilitation	2004
Struempf Ponds	Rehabilitation	2004
Hall Butte Reservoir Project	New Development	2005
Upper Nowater Stock Well & Storage	New Development	2005
West Keester Project	New Development	2005
Canyon Springs Prairie Project	Rehabilitation	2005
Neiber Pipeline Project	Rehabilitation	2005
Pole Mountain Water Development	Rehabilitation	2005
Six Mile Spring Development	Rehabilitation	2005
Sun Land & Cattle Co. Project	Rehabilitation	2005
Upper Beaver creek Pipeline	Rehabilitation	2005
Bunch-Wetland Restoration	New Development	2006
Casey Jones Well	New Development	2006
Dull Center Well	New Development	2006
East Woody & NW Ireton Wells	New Development	2006
Frog Creek Well	New Development	2006
Gordon Well	New Development	2006

Small Water Project	Account	Year Approved
Hall Butte Range Water Development	New Development	2006
Hibbard Stock Rest Water Development	New Development	2006
Hills Well	New Development	2006
Iberlin Bobcat Well	New Development	2006
Iberlin Solar Well	New Development	2006
Jones Pond #1 Red Hole & Offsite	New Development	2006
Jones Pond #2 Red Hole	New Development	2006
Jones Pond #3 Red Hole	New Development	2006
Kaycee Stock Rest Water Development	New Development	2006
Lower Horse Section 35 Well	New Development	2006
M Creek Section 26 Well	New Development	2006
North M Creek	New Development	2006
Nuemiller Section 15 Well	New Development	2006
Nuemiller Upper Meadow Portable Solar	New Development	2006
Reed Pipeline	New Development	2006
Riehle Well	New Development	2006
Rochelle Hills Spring Development	New Development	2006
Rock Well	New Development	2006
Rothluetner Solar Well	New Development	2006
Russell Ranch Wetland Restoration	New Development	2006
South M Creek	New Development	2006
West Railroad Well	New Development	2006
2 Coyote Pipeline	Rehabilitation	2006
2 Coyote Storage	Rehabilitation	2006
2 Coyote-East Pipeline	Rehabilitation	2006
Baird-Sand Draw Pipeline	Rehabilitation	2006
Downs Solar Pipeline	Rehabilitation	2006
East Pasture-South Pipeline	Rehabilitation	2006
Government Reservoir Water Development	Rehabilitation	2006
Hall Butte Stock Pond Rehab	Rehabilitation	2006
Henthorne Stock Ponds Rehab	Rehabilitation	2006
JJ Springs Water Development	Rehabilitation	2006
Jones Pipeline & Storage Tank	Rehabilitation	2006
Lona Solar	Rehabilitation	2006
Mud Springs/Arch Cr Water Development	Rehabilitation	2006
Reed Reservoir	Rehabilitation	2006
Rothleutner Stock Tanks	Rehabilitation	2006
Russell Ranch Stock Pond Rehab	Rehabilitation	2006
Tracy Solar Systems	Rehabilitation	2006
Tracy Wells	Rehabilitation	2006
Upper Antelope-Coal Bank Pipeline	Rehabilitation	2006
V-Ventures Below Frost Pipeline	Rehabilitation	2006
V-Ventures Boxcars Rehab	Rehabilitation	2006
V-Ventures West Kirby Pond Rehab	Rehabilitation	2006
V-Ventures-Wetland Rehab	Rehabilitation	2006

Small Water Project	Account	Year Approved
West Horse Underground Pipeline	Rehabilitation	2006
Whitt-Homestead Pipeline	Rehabilitation	2006
Little Grass Creek Water Development	New Development	2008
West Prospect, Otty, Urwin Pipeline	New Development	2008
Arkansas Creek Stockwater Pipeline	New Development	2009
Dickie 21/Bear Cr./Urwin 21 Pipeline	New Development	2009
Grass Creek Divide	New Development	2009
Horse Pasture Putney Flat Pipeline	New Development	2009
LU Farm Pivot Diversion	New Development	2009
North Prospect Pipeline	New Development	2009
Pats Draw Pipeline	New Development	2009
Putney School Section Pipeline	New Development	2009
Ramul 21 Pipeline	New Development	2009
Reds Creek Pasture Pipeline	New Development	2009
Spring Gulch Pipeline	New Development	2009
Wagonhound Spring Pipeline	New Development	2009
Jesse Brown Ditch Diversion	Rehabilitation	2009
Littlejohn Ditch Turnout	Rehabilitation	2009
Sawmill Creek Headgate	Rehabilitation	2009
Coal Bank Pipeline	New Development	2010
Keyton Creek Spring Development	New Development	2010
Lower Antelope North Pipeline	New Development	2010
Lower Antelope South Pipeline	New Development	2010
Rock Well Pipeline	New Development	2010
West Dorr 1-1 Well Pipeline	New Development	2010
West Spring Gulch Pipeline	New Development	2010
Wohlford TB-6A Well	New Development	2010
Bond #1 Well	Rehabilitation	2010
Bond #2 Well	Rehabilitation	2010
Enterprise Ditch Bifurcation	Rehabilitation	2010
Kirby Ditch Headgate	Rehabilitation	2010
M Creek Pipeline	Rehabilitation	2010
North M Creek 14-1 Well	Rehabilitation	2010
Airport Pipeline	New Development	2011
Dam Teresa	New Development	2011
East Alkali Pipeline	New Development	2011
Henthorne Solar Project	New Development	2011
Jones Pond #2 Diversion Pipeline	New Development	2011
Jones Wildhorse Spring Pipeline	New Development	2011
Lower Frog Creek Well	New Development	2011
Mesa Well	New Development	2011
MMR Lake Creek Spring Development	New Development	2011
MMR Rock Spring Development	New Development	2011
MMR Towers Spring Development	New Development	2011
Pellatz North Well	New Development	2011
River Well	New Development	2011

Small Water Project	Account	Year Approved
TB 231	New Development	2011
West Alkali Pipeline	New Development	2011
Anita Ditch Pipeline	Rehabilitation	2011
West Allotment Pipeline	Rehabilitation	2011
214 Jacobs W20-1 Well	New Development	2012
216 Jacobs W29-1 Well	New Development	2012
220 Jacobs TB081B Well	New Development	2012
Beef Pasture Pipeline	New Development	2012
Canyon Spring	New Development	2012
Cook Spring	New Development	2012
Edwards-Robinson South	New Development	2012
Hazen Draw	New Development	2012
Jim’s Meadow Pipeline	New Development	2012
Kruse Ranch Dam	New Development	2012
Pellatz Pipeline	New Development	2012
Pellatz Spreader	New Development	2012
246 Rothluetner	New Development	2013
BLM Wild Horse	New Development	2013
Dexter Pipeline	New Development	2013
Iberlin Pipeline	New Development	2013
Oaks Pasture	New Development	2013
Patterson Upland	New Development	2013
Reservoir #3	New Development	2013
TB 020B Pipeline	New Development	2013
TB 099B	New Development	2013
BLM Solar Pump	Rehabilitation	2013
Ditch Creek Irrigation	Rehabilitation	2013
Ditch Creek Solar	Rehabilitation	2013
#1 Pat Sheehananigans	New Development	2014
47 Ranch	New Development	2014
Baggs Grazing Allotment	New Development	2014
BLM Cottonwood Creek Pasture Water Development	New Development	2014
C Weber Wetland	New Development	2014
Cameron Upland Project 1	New Development	2014
Coal Mine Spring Development	New Development	2014
E Black Thunder W20-1	New Development	2014
Elk Mountain Spring	New Development	2014
Good Luck Well	New Development	2014
H&C Stock Water Well	New Development	2014
HB Lee Irrigation Return Flow Wetland	New Development	2014
Hog Eye Ranch - Little Savery Creek New Pasture Ponds	New Development	2014
Kester Coulee North Pipeline	New Development	2014
Kester Coulee South Pipeline	New Development	2014
Ladder Livestock #1	New Development	2014
McClanahan Well and Pipeline Project	New Development	2014

Small Water Project	Account	Year Approved
Muddy Creek Wetland Duck Pond #8	New Development	2014
Otty Wagonhound Pipeline Project	New Development	2014
PH Livestock Alamosa Gulch	New Development	2014
PH Livestock Delaney Rim Well	New Development	2014
PH Livestock Fillmore Allotment Long Draw	New Development	2014
Steve Adams Irrigation Return Flow Wetland	New Development	2014
Stinking Water 1 Well and Pipeline	New Development	2014
Weber Ranch Doty Mountain Allotment	New Development	2014
Deep Creek Pasture Rehab 1	Rehabilitation	2014
Casey Jones 49	Rehabilitation	2014
Deep Creek Pasture Rehab 2	Rehabilitation	2014
Deep Creek Pasture Rehab 3	Rehabilitation	2014
Deep Hills Solar Conversion	Rehabilitation	2014
Hog Eye Ranch Little Savery Pasture Stock Pond	Rehabilitation	2014
Johnson Ranch Irrigation Diversion Structure	Rehabilitation	2014
Stoddard Place Irrigation Water Conveyance Pipeline	Rehabilitation	2014
TB 200	Rehabilitation	2014
TB256	Rehabilitation	2014
Willow Pasture Pond Reconstruction	Rehabilitation	2014
Willow Pasture Pond Repair	Rehabilitation	2014
212 East W 25-1	New Development	2015
287 School W21-1	New Development	2015
Battle MT Stock Ponds Kaisler	New Development	2015
Battle Mt Stock Ponds Ladder Livestock	New Development	2015
Carollo 001 Davis No. 2 Reservoir Enlargement	New Development	2015
Coyote Draw Pipeline and Tank	New Development	2015
CR 002 Seep/Spring Hoof Print	New Development	2015
CR 003 Bridger Well No 13	New Development	2015
Cumberland Well #29 Pipeline	New Development	2015
Dunkley Oxbow Wetland	New Development	2015
Evans Stock Pond	New Development	2015
Graham Reservoir Enhancement	New Development	2015
Hoffman 001 Beaver Dam Creek Well	New Development	2015
Hog Eye Ranch Oxbow Wetlands	New Development	2015
Johnson Pipeline	New Development	2015
Julian 001 State Section Pipeline	New Development	2015
Kofford 001 Wildflower Spring Development	New Development	2015
Kofford 002 Clifford Spring Development	New Development	2015
Little Basin Spring Development, Pipeline and Tank	New Development	2015
Mayfield Cabin Spring	New Development	2015
Muddy Mountain Well #2	New Development	2015
Muddy Mt Well #1	New Development	2015
Purple Sage Ranch Oxbow Wetlands	New Development	2015
Purple Sage Stock Pond	New Development	2015
State Line Canal Steve Adams	New Development	2015

Small Water Project	Account	Year Approved
TB 17B	New Development	2015
Thompson Robinson West	New Development	2015
Walker 001 Pipeline	New Development	2015
Waterhouse Canyon	New Development	2015
Weber Stock Water Pipeline	New Development	2015
West Dad Wetland	New Development	2015
BLM Reservoirs Reconstruction and Pipe Installment 2015	Rehabilitation	2015
Cottonwood Reservoir Rehabilitation	Rehabilitation	2015
Cow Camp Spring	Rehabilitation	2015
East Arkansas Pipeline Extensions and Point of Rocks	Rehabilitation	2015
Nelson Ditch Headgate and Diversion Structure	Rehabilitation	2015
Ojinaga Spring Development	Rehabilitation	2015
State Line Ditch Poison Basin Draw Headwall & Headgate	Rehabilitation	2015
State Line Ditch turn out #3 and check structure	Rehabilitation	2015
TB111	Rehabilitation	2015
TB287	Rehabilitation	2015
Tip Top Pond Repair	Rehabilitation	2015
Wadsworth Reservoir Rehabilitation	Rehabilitation	2015
Bad Spring Pond Reconstruction	New Development	2016
Cobb, Dutch Joe Well	New Development	2016
Cottonwood Well Banjo	New Development	2016
Little Savery Stock Pond	New Development	2016
Oppenheimer Water Well	New Development	2016
Powder Rim Pasture D Water Well	New Development	2016
Wildcat #5 Spring Development	New Development	2016
Wildcat Butte Well Rehabilitation	New Development	2016
Allen Place Buried Ditch	Rehabilitation	2016
Apex Ditch	Rehabilitation	2016
BLM Reservoir Reconstruction 2016	Rehabilitation	2016
Cull Place Pipe, Buried Ditch, and Division Box	Rehabilitation	2016
Dexter Peak Ranch Stock Reservoir 2016	Rehabilitation	2016
Hangout Well	Rehabilitation	2016
Hibben Ditch and Diversion Dam	Rehabilitation	2016
Red Creek #2 Well	Rehabilitation	2016
Snow Ditch Headgate Replacement	Rehabilitation	2016
Van Ditch	Rehabilitation	2016
Wadsworth Reservoir Leak Repair	Rehabilitation	2016
Badlands West Spring	New Development	2017
Cobb Dutch Joe Pipeline	New Development	2017
Little Savery State Lands Stock Pond	New Development	2017
McAllister State Lands Stock Ponds	New Development	2017
Peroulis R. Weber Stock Water Pond and Pit	New Development	2017
Red Wash Stock/Wetland Pond #9	New Development	2017
Red Wash Wetland Ponds #7 and Stock Water Pit	New Development	2017
Trough at Calf Pen - Roberts	New Development	2017

Small Water Project	Account	Year Approved
BLM Reservoir Reconstruction 2017	Rehabilitation	2017
Corson Buried Irrigation Pipeline and Division Box	Rehabilitation	2017
Leo Reservoir Reconstruction - RI#920857 BLM	Rehabilitation	2017
Old Steve Adams Diversion	Rehabilitation	2017
Purple Sage Ranch Bank Stabilization 2017	Rehabilitation	2017
Soaphole Ditch	Rehabilitation	2017
State Land Irrigation Improvements	Rehabilitation	2017
DC State Land Stock Reservoir	New Development	2018
Doty Mountain Allotment Stock Pond	New Development	2018
Little Snake Oxbow 4900	New Development	2018
Little Snake Oxbow 6600	New Development	2018
Little Snake Oxbow 7100	New Development	2018
Red Creek Stock Reservoir	New Development	2018
Red Wash Pond 1A	New Development	2018
Red Wash Wetland #7 2018	New Development	2018
TA Land and Cattle Livestock Pipeline	New Development	2018
Smith Ditch	Rehabilitation	2018

397. **PROJECT:** **Smiths Fork Water Supply**
SPONSOR: Smiths Fork Irrigation District
LOCATION: Lincoln County
PROGRAM: Rehabilitation
APPROPRIATION: $340,000
ACTUAL EXPENDITURES: $307,027
DESCRIPTION: Diversion structure, headgate replacement and siphon
ENGINEER: Versar; Denver, CO
CONTRACTOR: Reiman Construction; Cheyenne, WY
YEAR COMPLETED: 1993
SESSION LAW YEAR: 1991

398. **PROJECT:** **Smoot Water Supply**
SPONSOR: Greater Smoot Water and Sewer District
LOCATION: Lincoln County
PROGRAM: New Development
APPROPRIATION: $1,100,000
ACTUAL EXPENDITURES: $1,040,298
DESCRIPTION: Well, storage tank, spring improvements, pipeline
ENGINEER: Forsgren Associates; Evanston, WY
CONTRACTOR: JASCO; Evanston, WY
YEAR COMPLETED: 1994
SESSION LAW YEAR: 1991

399. **PROJECT:** **South Circle Estates Water Supply**
SPONSOR: South Circle Estates Improvement and Service District
LOCATION: Washakie County
PROGRAM: New Development
APPROPRIATION: $480,000
ACTUAL EXPENDITURES: $304,117
DESCRIPTION: Design and construction of a transmission pipeline.

ENGINEER: 609 Consulting, LLC
CONTRACTOR: Wilson Brothers Construction, Inc.
YEAR COMPLETED: 2016
SESSION LAW YEAR: 2011

400. PROJECT: South of Laramie Water Supply
SPONSOR: South of Laramie Water and Sewer District
LOCATION: Albany County
PROGRAM: New Development
APPROPRIATION: $3,146,400
ACTUAL EXPENDITURES: $1,771,887
DESCRIPTION: Storage tank, city connection, pipeline, controls
ENGINEER: Banner Associates; Laramie, WY
CONTRACTOR: Hedquist Construction; Casper, WY
YEAR COMPLETED: 1997
SESSION LAW YEAR: 1993

401. PROJECT: South Laramie Water Supply
SPONSOR: City of Laramie
LOCATION: Albany County
PROGRAM: New Development
APPROPRIATION: $2,638,170
ACTUAL EXPENDITURES: $1,397,246
DESCRIPTION: Transmission pipeline to serve south of Laramie.
ENGINEER: DOWL-HKM, Laramie WY
CONTRACTOR: Mechanical Systems, Inc., Cheyenne WY
YEAR COMPLETED: 2015
SESSION LAW YEAR: 2010, 2012

402. PROJECT: Southwest Casper Water Supply
SPONSOR: City of Casper
LOCATION: Natrona County
PROGRAM: New Development
APPROPRIATION: $1,000,000
ACTUAL EXPENDITURES: $1,000,000
DESCRIPTION: Storage Tank and Pipeline
ENGINEER: Worthington Lenhart, Carpenter, Inc.
CONTRACTOR: Lobo, Inc.; Casper, WY
YEAR COMPLETED: 1998
SESSION LAW YEAR: 1992

403. PROJECT: South Thermopolis Water Supply
SPONSOR: South Thermopolis Water & Sewer District
LOCATION: Hot Springs County
PROGRAM: New Development
APPROPRIATION: $2,318,200
ACTUAL EXPENDITURES: $1,974,755
DESCRIPTION: Transmission pipeline and storage tank construction
ENGINEER: Engineering Associates; Thermopolis, WY
CONTRACTOR: Mountain View Builders; Sheridan, WY
YEAR COMPLETED: 2015
SESSION LAW YEAR: 2010, 2015

404. PROJECT: **Spring Draw Ditch**

SPONSOR:	Spring Draw Irrigation District
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$350,000
ACTUAL EXPENDITURES:	$288,925
DESCRIPTION:	Ditch reclamation, and pipeline installation
ENGINEER:	Pilch Engineering; Sheridan, WY
CONTRACTOR:	Larry's Inc.; Gillette, WY
YEAR COMPLETED:	1998
SESSION LAW YEAR:	1997

405. PROJECT: **Squaw Creek Water Supply**

SPONSOR:	Squaw Creek Water District
LOCATION:	Teton County
PROGRAM:	New Development
APPROPRIATION:	$580,000
ACTUAL EXPENDITURES:	$530,297
DESCRIPTION:	Wells, pipeline, storage
ENGINEER:	AVI; Cheyenne, Wyoming
CONTRACTOR:	G. M. Stewart Construction; Evanston, WY
DATE COMPLETED:	1998
SESSION LAW DATE:	1995

406. PROJECT: **Stage II Pipeline**

SPONSOR:	City of Cheyenne
LOCATION:	Carbon, Albany, Laramie Counties
PROGRAM:	New Development
APPROPRIATION:	$48,200,000
ACTUAL EXPENDITURES:	$47,713,214
DESCRIPTION:	Pipeline
ENGINEER:	Banner Associates, Inc.; Laramie, WY
CONTRACTOR:	Guernsey Stone; Sheridan, WY
DATE COMPLETED:	1993
SESSION LAW DATE:	1986

407. PROJECT: **Star Valley Ranch Water Supply**

SPONSOR:	Town of Star Valley Ranch
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$4,995,000
ACTUAL EXPENDITURES:	$4,836,822
DESCRIPTION:	New water development including springs, pipelines, and tank
ENGINEER:	Forsgren Associates, Inc.
CONTRACTOR:	Kilroy LLC; Afton, WY DePatco Inc.; St. Anthony, ID WETCO; Sandy, UT Westwood Curtis Construction Inc.; Jackson, WY
YEAR COMPLETED:	2013
SESSION LAW YEAR:	2009, 2010

408. PROJECT: **Sulphur Creek**

SPONSOR:	City of Evanston
LOCATION:	Uinta County
PROGRAM:	New Development
APPROPRIATION:	$25,000,000
ACTUAL EXPENDITURES:	$19,758,207
DESCRIPTION:	Dam, pipelines (2)
ENGINEER:	Several
CONTRACTOR:	Several
YEAR COMPLETED;	1990
SESSION LAW YEAR:	1985, 1986

409. PROJECT: **Sundance Meadows Water Supply**

SPONSOR:	Sundance Meadows Water District
LOCATION:	Converse County
PROGRAM:	New Development
APPROPRIATION:	$332,287
ACTUAL EXPENDITURES:	$280,924
DESCRIPTION:	Construction of transmission pipeline and appurtenances to serve the District water from the City of Douglas.
ENGINEER:	CEPI, Casper, WY
CONTRACTOR:	High Plains Construction, Inc.; Casper, WY
YEAR COMPLETED:	2011
SESSION LAW YEAR:	2007

410. PROJECT: **Sundance Storage Tank**

SPONSOR:	Town of Sundance
LOCATION:	Crook County
PROGRAM:	New Development
APPROPRIATION:	$945,850
ACTUAL EXPENDITURES:	$923,878
DESCRIPTION:	Storage
ENGINEER:	Tri-Hydro
CONTRACTOR:	EAI
YEAR COMPLETED:	2015
SESSION LAW YEAR:	2012

411. PROJECT: **Sundance Tank**

SPONSOR:	Town of Sundance
LOCATION:	Crook County
PROGRAM:	New Development
APPROPRIATION:	$325,000
ACTUAL EXPENDITURES:	$307,210
DESCRIPTION:	Water storage tank
ENGINEER:	Bearlodge Ltd., Inc.; Sundance, WY
CONTRACTOR:	DRM, Inc.; Gillette, WY
DATE COMPLETED:	2001
SESSION LAW DATE:	2000

412. PROJECT: **Sundance Well**

SPONSOR:	Town of Sundance
LOCATION:	Crook County
PROGRAM:	New Development

APPROPRIATION: $685,000
ACTUAL EXPENDITURES: $684,394
DESCRIPTION: Construction of a new Minnelusa formation well and tie-in to the Town's existing transmission system.
ENGINEER: Bearlodge, Inc.; Sundance, WY
CONTRACTOR: Weston Engineering, Inc.; Upton, WY
Timberline Services, Inc.; Sundance, WY
YEAR COMPLETED: 2010
SESSION LAW YEAR: 2007, 2009

413. PROJECT: Sunset Pipeline
SPONSOR: Sunset Ranch Water District
LOCATION: Weston County
PROGRAM: New Development
APPROPRIATION: $556,612
ACTUAL EXPENDITURES: $258,175
DESCRIPTION: Transmission pipeline
ENGINEER: Stetson Engineering, Inc.; Gillette, WY
CONTRACTOR: Site Work Specialists, Inc.; Rapid City, SD
YEAR COMPLETED: 2010
SESSION LAW YEAR: 2004, 2007

414. PROJECT: Superior Water Supply
SPONSOR: Town of Superior
LOCATION: Sweetwater County
PROGRAM: New Development
APPROPRIATION: $40,000
ACTUAL EXPENDITURES: $30,880
DESCRIPTION: Groundwater well, pump station
ENGINEER: Wester-Wetstein & Associates; Laramie, WY
CONTRACTOR: Ward's Well Service; Riverton, WY
YEAR COMPLETED: 1994
SESSION LAW YEAR: 1993

415. PROJECT: Taylor Ditch Siphon
SPONSOR: Taylor Watershed Improvement District
LOCATION: Fremont County
PROGRAM: Rehabilitation
APPROPRIATION: $496,915
ACTUAL EXPENDITURES: $446,890
DESCRIPTION: Replace Siphon
ENGINEER: Anderson and Associates; Fort Collins, CO
CONTRACTOR: Patrick Construction; Lander, WY
COMPLETION DATE 2009
SESSION LAW 2008

416. PROJECT: Ten Sleep Storage Tank
SPONSOR: Town of Ten Sleep
LOCATION: Washakie County
PROGRAM: New Development
APPROPRIATION: $1,540,000
ACTUAL EXPENDITURES: $1,276,637

DESCRIPTION: Design and construction of a dual transmission pipeline and water storage tank.
ENGINEER: Lidstone and Associates, Inc.
CONTRACTOR: Wilson Brothers Construction, Inc.
YEAR COMPLETED: 2014
SESSION LAW YEAR: 2011

417. PROJECT: Teton Village Water Supply
SPONSOR: Teton Village Water and Sewer District
LOCATION: Teton County
PROGRAM: New Development
APPROPRIATION: $700,000
ACTUAL EXPENDITURES: $700,000
DESCRIPTION: Two wells, pipeline
ENGINEER: Nelson Engineering; Jackson, WY
CONTRACTOR: Thomas Drilling; Afton, WY
H-K Construction; Idaho Falls, ID
DATE COMPLETED: 1996
SESSION LAW DATE: 1992

418. PROJECT: Teton Village Water Supply
SPONSOR: Teton Village Water and Sewer District
LOCATION: Teton County
PROGRAM: New Development
APPROPRIATION: $2,447,500
ACTUAL EXPENDITURES: $52,915.43 (mainly used district funds)
DESCRIPTION: Connect wells, flow metering, control building, emergency generator, chlorination
ENGINEER: Nelson Engineering; Jackson, WY
CONTRACTOR: G E Johnson Construction Company; Colorado Springs, CO
YEAR COMPLETED: 2011
SESSION LAW YEAR: 2009

419. PROJECT: Thayne Water Supply
SPONSOR: Town of Thayne
LOCATION: Lincoln County
PROGRAM: New Development
APPROPRIATION: $850,000
ACTUAL EXPENDITURES: $726,222
DESCRIPTION: Springs development, well and transmission line
ENGINEER: Forsgren Associates Inc.; Evanston, WY
CONTRACTOR: Peavler's Mountain Star, Inc.; Afton, Y
SESSION LAW YEAR: 1998

420. PROJECT: Thermopolis Storage Replacement and Rehabilitation
SPONSOR: Town of Thermopolis
LOCATION: Hot Springs County
PROGRAM: Rehabilitation
APPROPRIATION: $1,804,910
ACTUAL EXPENDITURES: $1,640,968
DESCRIPTION: Construction of transmission pipelines, booster pump station and a storage tank.

	ENGINEER:	Engineering Associates; Thermopolis, WY CONTRACTOR: Wilson Brothers Construction; Cowley, WY
	YEAR COMPLETED:	2012
	SESSION LAW YEAR:	2008
421.	**PROJECT:**	**Thirty Three Mile Water Supply**
	SPONSOR:	Thirty Three Mile Road Improvement & Service District
	LOCATION:	Natrona County
	PROGRAM:	New Development
	APPROPRIATION:	$1,044,486
	ACTUAL EXPENDITURES:	$ 955,712
	DESCRIPTION:	Construction of a water transmission system
	ENGINEER:	Civil Engineering Professionals, Inc.; Casper, WY
	CONTRACTOR:	Andreen Hunt Construction, Inc.; Casper, WY
	YEAR COMPLETED:	2003
	SESSION LAW YEAR:	2000
422.	**PROJECT:**	**Torrington Raw Water**
	SPONSOR:	City of Torrington
	LOCATION:	Goshen County
	PROGRAM:	New Development
	APPROPRIATION:	$96,000
	ACTUAL EXPENDITURES:	$96,000
	DESCRIPTION:	Two irrigation wells, pumps, pipelines, controls
	ENGINEER:	Baker & Associates, Inc.; Scottsbluff, NE
	CONTRACTOR:	Scott & Son, Inc.; Torrington, WY
	YEAR COMPLETED:	2004
	SESSION LAW YEAR:	2002
423.	**PROJECT:**	**Torrington Water Supply**
	SPONSOR:	City of Torrington
	LOCATION:	Goshen County
	PROGRAM:	New Development
	APPROPRIATION:	$4,500,000
	ACTUAL EXPENDITURES:	$3,391,795
	DESCRIPTION:	Three wells, pump station, pipeline, blending facilities
	ENGINEER:	Baker & Associates, Inc.; Scottsbluff, NE
	CONTRACTOR:	Charles Sargent Irrigation; Scottsbluff, NE Strong Construction, Inc.; Torrington, WY Ed Hawley, LLC; Torrington, WY Timberline Electronic & Control Corp.; Morrison, CO.
	YEAR COMPLETED:	2008
	SESSION LAW YEAR:	1998, 2008
424.	**PROJECT:**	**Turnerville Water Supply Project**
	SPONSOR:	Turnerville Water and Sewer District
	LOCATION:	Lincoln County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$743,994
	ACTUAL EXPENDITURES:	$678,616
	DESCRIPTION:	Transmission pipelines, spring rehabilitation, storage tank
	ENGINEER:	Forsgren Associates; Evanston, WY

	CONTRACTOR:	Associated Brigham Contractors, Inc.; Brigham City, UT
	YEAR COMPLETED:	2009
	SESSION LAW YEAR:	2004, 2006
425.	**PROJECT:**	**Upper Bluff Rehabilitation**
	SPONSOR:	Upper Bluff Irrigation District
	LOCATION:	Washakie County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$436,000
	ACTUAL EXPENDITURES:	$399,913
	DESCRIPTION:	Pump stations (2), measuring devices, canal repairs
	ENGINEER:	Nelson Engineering; Jackson, WY
	CONTRACTOR:	Big Horn Red-Mix; Greybull, WY
	YEAR COMPLETED:	1993
	SESSION LAW YEAR:	1980
426.	**PROJECT:**	**Upper Hanover Water Supply**
	SPONSOR:	Hanover Irrigation District
	LOCATION:	Washakie County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$1,200,000
	ACTUAL EXPENDITURES:	$1,086,100
	DESCRIPTION:	Wasteways, flumes, canal lining
	ENGINEER:	Donnell & Associates; Worland, WY
	CONTRACTOR:	Big Horn Red-Mix; Greybull, WY Pope Construction; Casper, WY
	YEAR COMPLETED;	1994
	SESSION LAW YEAR:	1991
427.	**PROJECT:**	**Upper Little Warm Springs Water Supply**
	SPONSOR:	Warm Springs Water District
	LOCATION:	Fremont County
	PROGRAM:	New Development
	APPROPRIATION:	$1,600,000
	ACTUAL EXPENDITURES:	$1,426,485
	DESCRIPTION:	Pipelines, pumps, storage tank, controls
	ENGINEER:	Jorgensen Engineering; Jackson, WY
	CONTRACTOR:	Foster Construction; Riverton, WY
	DATE COMPLETED:	2001
	SESSION LAW DATE:	1996
428.	**PROJECT:**	**Upton Tank Replacement**
	SPONSOR:	Town of Upton
	LOCATION:	Weston County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$158,800
	ACTUAL EXPENDITURES:	$158,800
	DESCRIPTION:	Water storage standpipe
	ENGINEER:	Wester-Wetstein & Associates, Inc.; Laramie, WY
	CONTRACTOR:	Salt Creek Welding, Inc.; Mills, Wyoming
	DATE COMPLETED:	2002
	SESSION LAW DATE:	2002

429. PROJECT: **Upton Water Supply**

SPONSOR:	Town of Upton
LOCATION:	Weston County
PROGRAM:	New Development
APPROPRIATION:	$365,000
ACTUAL EXPENDITURES:	$328,375
DESCRIPTION:	Well and pipeline
ENGINEER:	Weston Engineering; Upton, WY High Plains Engineering; Newcastle, WY
CONTRACTOR:	Cyclone Drilling; Gillette, WY Sundance P&H; Sundance, WY
DATE COMPLETED:	1996
SESSION LAW DATE:	1991, 1992

430. PROJECT: **Upton Well**

SPONSOR:	Town of Upton
LOCATION:	Weston County
PROGRAM:	New Development
APPROPRIATION:	$395,000
ACTUAL EXPENDITURES:	$50,360
DESCRIPTION:	Connect an existing well to the Town's water system*
ENGINEER:	Bearlodge Engineering; Sundance, Wyoming
CONTRACTOR:	None
YEAR COMPLETED:	2016
SESSION LAW YEAR:	2009, 2014, 2015

*Following completion of the project design, the town could not obtain a WYDEQ well permit for the existing well. The project was terminated by the WWDC and the remaining funds were reverted back into Account I.

431. PROJECT: **Vista West Water Supply**

SPONSOR:	Vista West Water and Sewer District
LOCATION:	Crook County
PROGRAM:	New Development
APPROPRIATION:	$540,000
ACTUAL EXPENDITURES:	$523,135
DESCRIPTION:	Wells, pipeline, storage
ENGINEER:	Weston Engineering; Upton, WY
CONTRACTOR:	Dan Hart Patrol; Upton, WY Water System Management; Gillette, WY
DATE COMPLETED:	1998
SESSION LAW DATE:	1994

432. PROJECT: **Wamsutter Water Supply**

SPONSOR:	Town of Wamsutter
LOCATION:	Sweetwater County
PROGRAM:	Rehabilitation
APPROPRIATION:	$140,000
ACTUAL EXPENDITURES:	$125,354
DESCRIPTION:	Transmission Pipeline
ENGINEER:	PMPC; Saratoga, WY
CONTRACTOR:	Jackman Construction, Inc.; Green River, WY
COMPLETION DATE	June 2002
SESSION LAW	2001

433. PROJECT: **Wamsutter Water Supply Rehabilitation Project**

SPONSOR:	Town of Wamsutter
LOCATION:	Sweetwater County
PROGRAM:	Rehabilitation
APPROPRIATION:	$258,500
ACTUAL EXPENDITURES:	$258,500
DESCRIPTION:	Construction of a methane stripping facility, new storage tank, transmission pipeline and connection of well to the town's elevated storage tank.
ENGINEER:	Nelson Engineering; Jackson, WY
CONTRACTOR:	Edward Hawley, LLC; Torrington, WY
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2006

434. PROJECT: **Wamsutter Well**

SPONSOR:	Town of Wamsutter
LOCATION:	Sweetwater County
PROGRAM:	New Development
APPROPRIATION:	$542,700
ACTUAL EXPENDITURES:	$487,243
DESCRIPTION:	Complete ESS well and transmission pipeline
ENGINEER:	PMPC; Saratoga, WY
CONTRACTOR:	Mechanical Systems Inc.; Cheyenne, WY
YEAR COMPLETED:	2011
SESSION LAW YEAR:	2009

435. PROJECT: **Wamsutter Well 2010**

SPONSOR:	Town of Wamsutter
LOCATION:	Sweetwater County
PROGRAM:	New Development
APPROPRIATION:	$757,100
ACTUAL EXPENDITURES:	$352,720
DESCRIPTION:	Transmission pipeline and equipment to connect Well No. 9 to the Towns water system.
ENGINEER:	PMPC Civil Engineers; Saratoga, WY
CONTRACTOR:	Mechanical Systems, Inc.; Cheyenne, WY
YEAR COMPLETED:	2012
SESSION LAW YEAR:	2010

436. PROJECT: **Wardwell Water Supply Improvements**

SPONSOR:	Wardwell Water and Sewer District
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$4,602,900
ACTUAL EXPENDITURES:	$4,206,459
DESCRIPTION:	Constructed a new pump station, water storage tank and transmission pipeline.
ENGINEER:	609 Consulting LLC, Casper WY
CONTRACTOR:	Hedquist Construction, Inc. Casper WY, Engineering America West, Inc. Loveland CO, and Andreen Hunt Construction, Inc Casper WY.
YEAR COMPLETED:	2013
SESSION LAW YEAR:	2008

437. PROJECT: **Washakie Rural Water Supply Project**

SPONSOR:	Washakie Rural Improvement and Service District
LOCATION:	Washakie County
PROGRAM:	New Construction
APPROPRIATION:	$11,263,000
ACTUAL EXPENDITURES:	$ 9,879,591
DESCRIPTION:	A rural potable water system extending from the Hot Springs County line on the south to the Big Horn County line on the north and encompasses most of the private lands along both sides of the Big Horn River. The project also includes construction of the water transmission and distribution system. Potable water storage tanks and a booster pumping facility were also constructed.
ENGINEER:	BRS, Inc.; Riverton, WY Engineering Associates; Cody, WY
CONTRACTOR:	Brandon Construction; Powell, Wyoming Phase I and II LAMAX Construction; Basin, WY Phases II, IV and V
YEAR COMPLETED:	2008
SESSION LAW YEAR:	1999, 2001, 2003, 2004, and 2006

438. PROJECT: **Weather Modification – Wind River Mountains**

SPONSOR:	State of Wyoming
FUNDING PARTNERS:	Arizona Department of Water Resources, Central Arizona Project, Colorado River Board of California – Six Agency Committee, Southern Nevada Water Authority, Utah Department of Natural Resources
LOCATION:	Wind River Range, Fremont and Sublette Counties
PROGRAM:	New Development
APPROPRIATION:	$ 240,000 (State of Wyoming Cost Share)
ACTUAL EXPENDITURES:	$ 683,649* ($170,912 WY; $512,737 External) *Includes USBR funded NCAR research as part of project
DESCRIPTION:	Operational cloud seeding – Winter ‘14-15
CONTRACTOR:	Weather Modification, Inc.; Fargo, ND
YEAR COMPLETED:	2015
SESSION LAW YEAR:	2014

439. PROJECT: **Weather Modification – Wind River Mountains 2016**

SPONSOR:	State of Wyoming
FUNDING PARTNERS:	Arizona Department of Water Resources, Central Arizona Project, Colorado River Board of California – Six Agency Committee, and Southern Nevada Water Authority
LOCATION:	Wind River Range, Fremont and Sublette Counties
PROGRAM:	New Development
APPROPRIATION:	$ 170,000 (State of Wyoming Cost Share)
ACTUAL EXPENDITURES:	$ 475,224.65 ($123,894 WY; $351,331 External)
DESCRIPTION:	Operational cloud seeding – Winter ‘15-16
CONTRACTOR:	Weather Modification, Inc.; Fargo, ND
YEAR COMPLETED:	2016
SESSION LAW YEAR:	2015

440. PROJECT: **Weather Modification - Wind River Mountains 2017**

SPONSOR:	State of Wyoming
FUNDING PARTNERS:	Central Arizona Project, Colorado River Board of California – Six Agency Committee, and Southern Nevada Water Authority
LOCATION:	Wind River Range, Fremont and Sublette Counties
PROGRAM:	New Development
APPROPRIATION:	$ 160,000 (State of Wyoming Cost Share)
ACTUAL EXPENDITURES:	$ 417,851.44 ($104,462.86 WY; $313,388.58 External)
DESCRIPTION:	Operational cloud seeding – Winter '16-17)
CONTRACTOR:	Weather Modification, Inc.; Fargo, ND
YEAR COMPLETED:	2017
SESSION LAW YEAR:	2016

441. PROJECT: **Westside/Rock Springs Water Supply**

SPONSOR:	City of Green River/City of Rock Springs/Sweetwater County Joint powers Water Board
LOCATION:	Sweetwater County
PROGRAM:	New Development & Rehabilitation
APPROPRIATION:	$450,000 – New Development $625,000 - Rehabilitation
ACTUAL EXPENDITURES:	$450,000 – New Development $600,390-Rehabilitation
DESCRIPTION:	Transmission mains
ENGINEER:	Nelson Engineering Inc.; Jackson, WY
CONTRACTOR:	Patrick Construction Inc.; Lander, WY
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1998

442. PROJECT: **Wheatland – Black Mountain Water Supply**

SPONSOR:	Town of Wheatland
LOCATION:	Platte County
PROGRAM:	New Development
APPROPRIATION:	$100,000
ACTUAL EXPENDITURES:	$ 99,455
DESCRIPTION:	Drilling Black Mountain No. 3 well
ENGINEER:	Wester-Wetstein & Associated, Inc.; Laramie, WY
CONTRACTOR:	D.C. Drilling Co.; Lusk, WY
YEAR COMPLETED	2004
SESSION LAW YEAR	2003

443. PROJECT: **Wheatland Black Mountain II Water Supply Project**

SPONSOR:	Town of Wheatland
LOCATION:	Platte County
PROGRAM:	New Development
APPROPRIATION:	$222,440
ACTUAL EXPENDITURES:	$222,440
DESCRIPTION:	Pump, pump house, transmission line
ENGINEER:	Wester-Wetstein & Associates; Laramie, WY
CONTRACTOR:	Edward Halley, LLC, Torrington; WY
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2007

444. PROJECT **Wheatland Irrigation District Laramie River Diversion Improvements**

SPONSOR:	Wheatland Irrigation District
LOCATION:	Platte County
PROGRAM:	Rehabilitation
APPROPRIATION:	$456,500
ACTUAL EXPENDITURES:	$384,638
DESCRIPTION:	Headgate structure replacement, automation
ENGINEER:	Kennedy Engineering; Wheatland, WY
CONTRACTOR:	Foster Construction; Riverton, WY Sutron Corporation; Sterling, VA
DATE COMPLETED:	2002
SESSION LAW DATE:	1997

445. PROJECT: **Wheatland No. 7 Well**

SPONSOR:	Town of Wheatland
LOCATION:	Platte County
PROGRAM:	New Development
APPROPRIATION:	$ 502,500
ACTUAL EXPENDITURES:	$ 349,457
DESCRIPTION:	Design and construction of new well and connection.
ENGINEER:	Wester-Wetstein & Associates, Laramie, WY
CONTRACTOR (Well)	Charles Sargent Irrigation, Inc., Broken Bow, NE
CONTRACTOR (Connection)	High Plains Construction, Inc., Casper, WY
YEAR COMPLETED:	2017
SESSION LAW YEAR:	2015

446. PROJECT: **Wheatland Rehabilitation 2011**

SPONSOR:	Wheatland Irrigation District
LOCATION:	Platte County
PROGRAM:	Rehabilitation
APPROPRIATION:	$723,600
ACTUAL EXPENDITURES:	$583,690
DESCRIPTION:	King and Dutton reservoir outlets works, Deadhead Wasteway rehabilitation
ENGINEER:	Anderson Consulting Engineers; Ft. Collins, CO
CONTRACTOR:	Dietzler Construction; Yoder, WY; Norb Olind Construction; Wheatland, WY
YEAR COMPLETED:	2016
SESSION LAW YEAR:	2011

447. PROJECT: **Wheatland Re-regulating Reservoirs**

SPONSOR:	Wheatland Irrigation District
LOCATION:	Platte, Albany, Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$150,080
ACTUAL EXPENDITURES:	$ 74,591
DESCRIPTION:	Gudahl Res., automate gate on Lower No. 1 Canal
ENGINEER:	States West Water Resources; Cheyenne, WY.
MATERIALS:	Rubicon Systems America; Loveland, CO
YEAR COMPLETED:	2010
SESSION LAW YEAR:	2006

448. PROJECT: **Wheatland Reservoir No. 1**

SPONSOR:	Wheatland Irrigation District
LOCATION:	Platte County
PROGRAM:	Rehabilitation
APPROPRIATION:	$392,000
ACTUAL EXPENDITURES:	$ 80,288
DESCRIPTION:	Dam rehabilitation
ENGINEER:	States West Water Resources Corp.; Cheyenne, WY
CONTRACTOR:	Lamax Construction; Basin, WY
DATE COMPLETED:	1994
SESSION LAW DATE:	1992

449. PROJECT: **Wheatland Sand Lake Dam/Canon Canal Rehab.**

SPONSOR:	Wheatland Irrigation District
LOCATION:	Platte County
PROGRAM:	Rehabilitation
APPROPRIATION:	$632,000
ACTUAL EXPENDITURES:	$525,448
DESCRIPTION:	Canal lining, new outlet, spillway on Sand Lake Dam
ENGINEER:	Inberg-Miller Engineers, Inc.; Casper, WY
CONTRACTOR:	Three Sons, LLC; Hanna, WY
DATE COMPLETED:	2003
SESSION LAW DATE:	1998

450. PROJECT: **Wheatland Water Supply**

SPONSOR:	Town of Wheatland
LOCATION:	Platte County
PROGRAM:	Rehabilitation
APPROPRIATION:	$222,000
ACTUAL EXPENDITURES:	$203,916
DESCRIPTION:	Construction of a new well, installation of new storage facilities and piping to connect the improvements to the Town's water system.
ENGINEER:	Kennedy Engineering; Wheatland, WY
CONTRACTOR:	Scott & Son, Inc.; Torrington, WY
YEAR COMPLETED:	2003
SESSION LAW YEAR:	2001

451. PROJECT: **Wild Rose Water Supply**

SPONSOR:	Wild Rose Service and Improvement District
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$126,000
ACTUAL EXPENDITURES:	$126,000
DESCRIPTION:	Canal, pipeline, reservoir
ENGINEER:	Centennial Engineering; Sheridan, WY
CONTRACTOR:	Fletcher Construction; Sheridan, WY
YEAR COMPLETED:	1987
SESSION LAW YEAR:	1987

452. **PROJECT:** **Willwood Dam Rehabilitation**
SPONSOR: Willwood Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $480,000
ACTUAL EXPENDITURES: $305,111
DESCRIPTION: Dam repairs
ENGINEER: Engineering Associates; Cody, WY
CONTRACTOR: Cop Construction; Billings, MT
YEAR COMPLETED: 1992
SESSION LAW YEAR: 1990

453. **PROJECT:** **Willwood Dam Rehabilitation**
SPONSOR: Willwood Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $1,620,000
ACTUAL EXPENDITURES: $1,106,280
DESCRIPTION: Replacement of multiple gates, controls, automation, and power backup at existing dam structure
ENGINEER: Engineering Associates; Cody, WY
CONTRACTOR: Sletten Construction; Cody, WY
YEAR COMPLETED: 2018
SESSION LAW YEAR: 2012

454. **PROJECT:** **Willwood Irrigation District Rehabilitation 2014**
SPONSOR: Willwood Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $164,000
ACTUAL EXPENDITURES: $122,870
DESCRIPTION: Automate Gates on Willwood Draw Check & Spillway
ENGINEER: Sage Civil Engineering; Cody, WY
CONTRACTOR: Willwood Irrigation District
MATERIALS: Rubicon Systems America; Fort Collins, CO
YEAR COMPLETED: 2015
SESSION LAW YEAR: 2014

455. **PROJECT:** **Willwood Irrigation District Rehabilitation 2016**
SPONSOR: Willwood Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation
APPROPRIATION: $533,000
ACTUAL EXPENDITURES: $260,381
DESCRIPTION: Converting segment of ditch to buried pipe
ENGINEER: Engineering Associates; Cody, WY
CONTRACTOR: J&E Irrigation; Basin, WY
YEAR COMPLETED: 2018
SESSION LAW YEAR: 2016

456. PROJECT: **Willwood Rehabilitation 2009**

SPONSOR:	Willwood Irrigation District
LOCATION:	Park and Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$284,000
ACTUAL EXPENDITURES:	$112,015
DESCRIPTION:	Replace ditch with buried pipe on Lateral 131
ENGINEER:	Engineering Associates, Inc.; Cody, WY
MATERIALS:	J&E Irrigation, Inc.; Basin, WY
YEAR COMPLETED:	2010
SESSION LAW YEAR:	2009

457. PROJECT: **Willwood Rehabilitation 2010**

SPONSOR:	Willwood Irrigation District
LOCATION:	Park and Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,500,000
ACTUAL EXPENDITURES:	$1,326,905
DESCRIPTION:	Replace ditch with buried pipe on Lateral 84
ENGINEER:	Sage Civil Engineering; Cody, WY
MATERIALS:	Waterworks Irrigation, Inc.; Ralston, WY
YEAR COMPLETED:	2014
SESSION LAW YEAR:	2010, 2011

458. PROJECT: **Wind River Irrigation**

SPONSOR:	Eastern Shoshone and Northern Arapaho Tribes
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$3,500,000
ACTUAL EXPENDITURES:	$3,467,834
DESCRIPTION:	Rehabilitation
ENGINEER:	Various
CONTRACTOR:	Various
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2015

459. PROJECT: **Worland Eastside Transmission Line**

SPONSOR:	City of Worland
LOCATION:	Washakie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$2,650,000
ACTUAL EXPENDITURES:	$1,630,335
DESCRIPTION:	Construction of a water pipeline.
ENGINEER:	Donnell & Allred, Inc. Worland WY
CONTRACTOR:	Ahanu Construction, Inc. Billings MT
YEAR COMPLETED:	2013
SESSION LAW YEAR:	2009

460. PROJECT: **Wright Water Supply**

SPONSOR:	Town of Wright
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$450,000

ACTUAL EXPENDITURES: $231,591
DESCRIPTION: Well, pipeline
ENGINEER: J.M. Montgomery; Laramie, WY
CONTRACTOR: Larry's Inc.; Gillette, WY
YEAR COMPLETED: 1989
SESSION LAW YEAR: 1987

461. PROJECT: Wright Water Supply
SPONSOR: Wright Water and Sewer District
LOCATION: Campbell County
PROGRAM: Rehabilitation
APPROPRIATION: $50,000
ACTUAL EXPENDITURES: $50,000
DESCRIPTION: Well and pipe rehabilitation
ENGINEER: Bruce Engineering; Gillette, WY
CONTRACTOR: Weston Groundwater Engineering; Upton, WY
YEAR COMPLETED: 1999
SESSION LAW YEAR: 1997

462. PROJECT: Wright Water Supply 2011
SPONSOR: Wright Water & Sewer District
LOCATION: Campbell County
PROGRAM: New Development
APPROPRIATION: $1,809,000
ACTUAL EXPENDITURES: $1,263,034
DESCRIPTION: RJ-3 well house / RJ-7 well connection, transmission pipeline
ENGINEER: HDR, Gillette, WY
CONTRACTOR: Construction Dynamics, Casper, WY / DRM, Gillette, WY
YEAR COMPLETED: 2014
SESSION LAW YEAR: 2011/2012

463. PROJECT: Wright Well and Pipeline
SPONSOR: Wright Water & Sewer District
LOCATION: Campbell County
PROGRAM: New Development
APPROPRIATION: $600,000
ACTUAL EXPENDITURES: $330,805
DESCRIPTION: Installation of well pumping equipment, control building, SCADA controls and transmission pipelines.
ENGINEER: Stetson Engineering, Inc.
CONTRACTOR: Hot Iron, Inc.
YEAR COMPLETED: 2008
SESSION LAW YEAR: 2002

464. PROJECT: Yoder Water Supply
SPONSOR: Town of Yoder
LOCATION: Goshen County
PROGRAM: New Development
APPROPRIATION: $577,200
ACTUAL EXPENDITURES: $433,391
DESCRIPTION: Pump facilities and transmission pipeline
ENGINEER: Banner Associates; Laramie, WY

CONTRACTOR:	Interstate Irrigation; Yuma, CO
DATE COMPLETED:	1996
SESSION LAW DATE:	1990, 1991

465. PROJECT: **Yoder Water Supply**

SPONSOR:	Town of Yoder
LOCATION:	Goshen County
PROGRAM:	New Development
APPROPRIATION:	$180,000
ACTUAL EXPENDITURES:	$179,232
DESCRIPTION:	Completion of Level II well and connection to water supply system
ENGINEER:	Camp Creek Engineering; Laramie, WY
CONTRACTOR:	Goshen County Construction; Torrington, WY
YEAR COMPLETED:	2013
SESSION LAW YEAR:	2011

466. PROJECT: **Yoder Water Well**

SPONSOR:	Town of Yoder
LOCATION:	Goshen County
PROGRAM:	New Development
APPROPRIATION:	$30,000
ACTUAL EXPENDITURES:	$14,722
DESCRIPTION:	Drilled a well
ENGINEER:	Wells Engineering; Lusk, WY
CONTRACTOR:	Midwest Farm Service; Scottsbluff, NE
DATE COMPLETED:	1987
SESSION LAW DATE:	1986