



COLORADO WATER CONSERVATION BOARD
WATER SUPPLY RESERVE ACCOUNT
GRANT APPLICATION FORM



Repairing Grand Mesa Reservoir #6 Outlet Pipe

Name of Water Activity/Project

Approving Basin Roundtable

19,840.00

Amount from Statewide Account

Total Amount of Funds Requested

Amount from Basin Account

19,840.00

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Part A. - Description of the Applicant (Project Sponsor or Owner);

1.	Applicant Name(s):	Grand Mesa Reservoir Company (Lois Davidson)		
	Mailing address:	4668 Lands End Road Whitewater, Colorado 81527		
	Taxpayer ID#:	30-0189562	Email address:	maravia@wildblue.net
	Phone Numbers: Business:	N/A		
	Home:	970-242-2879		
	Fax:	N/A		

2. Person to contact regarding this application if different from above:

Name:

Position/Title

3. Eligible entities that may apply for grants from the WSRA include the following. What type of entity is the Applicant?

- ☐ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
- ☐ Public (Districts) – special, water and sanitation, conservancy, conservation, irrigation, or water activity enterprises.
- ☒ Private Incorporated – mutual ditch companies, homeowners associations, corporations.
- ☐ Private individuals, partnerships, and sole proprietors are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

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4. Provide a brief description of your organization

The Grand Mesa Reservoir Company (GMRC) was first incorporated in 1888 by a group of ranchers living in the Kannah Creek area of Mesa County southeast of Whitewater, Colorado. There are currently 17 shareholders of 883 shares of GMRC stock. Several shareholders are grand children/great grandchildren of ranchers who were involved in the GMRC by 1908. The company was formed to store water for watering stock animals year round and irrigating fields after spring runoff season.

The GMRC owns five reservoirs close to the intersection of Colorado Highway 65 and Lands End Road on top of Grand Mesa (Grand Mesa Reservoirs #6, 8, 9 and Scales Reservoirs # 1 & 3). The total decreed water capacity, dated 1916, of these reservoirs is 1286 acre feet of water. The actual capacity of the reservoirs is 1036 acre feet. The water stored in these reservoirs is still used to irrigate hay fields and pasture land and water stock animals, primarily cattle and horses, of the shareholders in the Kannah Creek drainage during the late summer and early fall. The reservoirs owned by the GRMC drain into Kannah Creek which is a tributary of the Gunnison River.

5. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.

N/A

6. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A copy of this standard contract is included in Attachment 3. Please review this contract and check the appropriate box.

☒

The Applicant will be able to contract with the CWCB using the Standard Contract

☐

The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

7. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

There are no TABOR issues that affect the Grand Mesa Reservoir Company.

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Part B. - Description of the Water Activity

1. Name of the Water Activity/Project:

Slip-line the Grand Mesa Reservoir #6 outlet pipe.

2. What is the purpose of this grant application? (Please check all that apply.)

☐

Environmental compliance and feasibility study

☐

Technical Assistance regarding permitting, feasibility studies, and environmental compliance

☐

Studies or analysis of structural, nonstructural, consumptive, nonconsumptive water needs, projects

Study or Analysis of:

☐

Structural project or activity

☐

Nonstructural project or activity

☐

Consumptive project or activity

☐

Nonconsumptive project or activity

☒

Structural and/ or nonstructural water project or activity

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3. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for.

The Grand Mesa Reservoir Company (GMRC) had the outlet pipe of Grand Mesa Reservoir #6 (GM#6) inspected using a closed circuit television camera last fall (2010) at the request of the state dam engineer. The inspection showed the pipe has exceeded its expected lifetime with slippage breaks at pipe joints and longitudinal cracks in the pipe. There is enough damage to the outlet pipe to warrant its repair and mitigation immediately adjacent to the pipe by existing cracks to avoid future structural damage. The mitigation work adjacent to the pipe would be done at the same time the pipe is repaired. The GMRC would like to have a cured-in-place pipe (CIPP) installed in the outlet pipe of GM#6. It is the least expensive way to repair the pipe. We would prefer to make *in situ* repairs while the damage is minor rather than wait until there is major damage which would require excavation in order to repair the outlet pipe. Having to excavate the outlet pipe would mean the loss of 172 acre feet of water storage capacity until funds and permits can be obtained to replace or repair the pipe. GM#6 is upstream of Carson Lake which is the City of Grand Junction's main drinking water supply.

The GMRC would like to be able to repair the GM#6 outlet pipe by installing a CIPP before the damage escalates to the point where *in situ* repairs can not be done. The GMRC is asking the Gunnison Basin Roundtable for a \$19,840 grant to install a cured-in-place pipe inside the outlet pipe of GM#6.

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Part C. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)

This project is a structural project of a privately incorporated reservoir company and meets the Threshold Criteria.

- a) The water activity is consistent with Section 37-75-102 Colorado Revised Statutes.¹

Repairing the outlet pipe of GM#6 by installing a cured-in-place pipe would allow the Grand Mesa Reservoir Company to continue to use the reservoir to store water for irrigation purposes late summer and fall (after spring runoff). The reservoir has a decreed capacity of 212.6 acre feet of water with an actual capacity of 172 acre feet.

¹ 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

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- b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRT's evaluation and approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

This project will be reviewed by the Selection Committee of the Gunnison Basin Roundtable and then the full Roundtable at their August or October meeting.

- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.² The Basin Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

This project will be reviewed by the Selection Committee of the Gunnison Basin Roundtable and then the full Roundtable at their August or October meeting.

² 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.

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- d) Matching Requirement: For requests from the Statewide Fund, the applicants is required to demonstrate a 20 percent (or greater) match of the request from the Statewide Account. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the application was submitted to the CWCBC. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in Part D of this application)

\$2,000.00

Grand Mesa Reservoir Company

\$2,160.00 (in kind)

engineering design and construction management will be provided by the City of Grand Junction Utility Engineer

2. For Applications that include a request for funds from the Statewide Account, describe how the water activity meets the **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)

N/A

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Part D. – Required Supporting Material

1. Water Rights, Availability, and Sustainability

This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights and the name/location of water bodies affected by the water activity.

The GMRC was formed in 1888 and currently owns five reservoirs in Mesa County on top of Grand Mesa in the Kannah Creek drainage of the Gunnison River Basin. The conditional and absolute water decrees date from 1916. The total actual storage capacity of these reservoirs is 1036 acre feet. Grand Mesa Reservoir #6 has an actual storage capacity of 172 acre feet of water, 16.6% of the total. The water that fills these reservoirs is from snow melt and rain.

2. Please provide a brief narrative of any related or relevant previous studies.

none

3. Statement of Work, Detailed Budget, and Project Schedule

The statement of work will form the basis for the contract between the Applicant and the State of Colorado. In short, the Applicant is agreeing to undertake the work for the compensation outlined in the statement of work and budget, and in return, the State of Colorado is receiving the deliverables/products specified. Please note that costs incurred prior to execution of a contract or purchase order are not subject to reimbursement.

Please provide a detailed statement of work using the following template. Additional sections or modifications may be included as necessary. Please define all acronyms. If a grant is awarded an independent statement of work document will be required with correct page numbers.

Statement of Work

WATER ACTIVITY NAME – Repairing Grand Mesa Reservoir #6 Outlet Pipe

GRANT RECIPIENT – Grand Mesa Reservoir Company

FUNDING SOURCE – Gunnison Basin Account

INTRODUCTION AND BACKGROUND

A closed circuit television inspection of the 10 inch diameter, 104 foot long outlet pipe of Grand Mesa Reservoir #6 (GM#6) showed enough damage that the Grand Mesa Reservoir Company (GMRC) would like to repair the pipe by having a cured-in-place pipe installed before any of the slippage at pipe joints or cracks cause any structural damage and *in situ* repairs would not suffice to fix the pipe. The Grand Mesa Reservoir Company would also like to mitigate the effects of existing cracks or breaks immediately adjacent to the pipe during the installation of the liner.

OBJECTIVES

The object of this project is to repair the outlet pipe of Grand Mesa Reservoir #6 *in situ* before any of the damage to the outlet pipe causes structural damage around the outlet pipe and possibly compromising the dam.

TASKS

Provide a detailed description of each task using the following format

TASK 1 – Design

Description of Task

Professional design services

Method/Procedure

Engineering design drawings of cured in place pipe (CIPP) and submit them to the state dam engineer for approval.

Deliverable

Work would be done between August and December of 2011.

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TASK 2 – Installation of CIPP

Description of Task

Repair the outlet pipe of Grand Mesa Reservoir #6 (GM#6)

Method/Procedure

Installation of a cured-in-place pipe (CIPP) inside the outlet pipe of GM#6 and mitigation work immediately adjacent to the pipe by existing cracks.

Deliverable

Work would be done between August and November of 2012 when the reservoir is accessible and empty.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

Reports will be filed in a timely manner if the grant for this project is approved.

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BUDGET

Provide a detailed budget by task including number of hours and rates for labor and unit costs for other direct costs (i.e. mileage, \$/unit of material for construction, etc.). A detailed and perfectly balanced budget that shows all costs is required for the State's contracting and purchase order processes. Sample budget tables are provided below. Please note that these budget tables are examples and will need to be adapted to fit each individual application. Tasks should correspond to the tasks described above.

Total Costs				
	Labor	Other Direct Costs	Matching Funds (If Applicable)	Total Project Costs
Task 1 – design and approval	--	\$0.00	\$0.00	\$0.00
Task 2 –installation of CIPP		\$19,840.00	\$ 2,000.00	\$21,840.00
In-Kind Contributions				
Engineering Design & construction management		\$ 2,160	0.00	\$ 2,160.00
Total Costs:	\$ 0.00	\$22,000.00	\$ 2,000.00	\$24,000.00

Item:	Materials	Equipment/ Supplies	cost		Total
Task 1 – design	----	-----	\$1,500		\$ 1,500.00
Task 2 –installation of CIPP	----	-----	\$210/LF X 104ft		\$21,840.00
Task 2—Const. Mgt	-----	-----	\$ 660		\$ 660.00
Total Units:	-----	-----			
Total Cost:	-----	-----	\$24,000.00		\$24,000.00

In-Kind Contributions			
Project Personnel:	City of Grand Junction Utility ENGR: Bret Guillory		Total
Task 1a –design	\$1,500.00		\$1,500.00
Task 1b –Const. Mgt	660.00		660.00
Total In-Kind Cost:	\$2,160.00		\$2,160.00

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SCHEDULE

Provide a project schedule including key milestones for each task and the completion dates or time period from the Notice to Proceed (NTP). This dating method allows flexibility in the event of potential delays from the procurement process. Sample schedules are provided below. Please note that these schedules are examples and will need to be adapted to fit each individual application.

Task	Start Date	Finish Date
1- design & approval	August 2011	December 2011
2- install CIPP	August 2012	November, 2012

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 5 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

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The above statements are true to the best of my knowledge:

Signature of Applicant:

Print Applicant's Name: Lois Davidson for the Grand Mesa Reservoir Company

Project Title: Slip-lining the Outlet Pipe of Grand Mesa Reservoir #6