

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
July 20-21, 2016
Agenda Item 16(f)

Applicant & Fiscal Agent: Bauer Lake Water Company

Water Activity Name: Jackson Lake/Bauer Lake #2 Ditch Upgrade Project

Water Activity Purpose: Agricultural

County: Montezuma

Drainage Basin: Southwest

Water Source: Chicken Creek, Mancos River and Jackson Lake

Amount Requested/Source of Funds: \$55,000 Southwest Basin Account
\$55,000 Total Grant Request

Matching Funds: Applicant Match (\$3,000: in-kind) = 5.5% of total project costs (\$58,000)
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$55,000 from the Southwest Basin Account to help fund the project titled: Jackson Lake/Bauer Lake #2 Ditch Upgrade Project.

Water Activity Summary: WSRA funds, if approved, will be expended to fund the replacement of a diversion dam, headgate, conveyance pipe and Parshall Flume in the Bauer Lake Ditch. The existing 36" conveyance pipe will be replaced with approximately 100 feet of 53" elliptical pipe, and both the Jackson Gulch ditch, and the Bauer Lake ditch will undergo additional cleaning, grading and berm work to improve water delivery efficiencies. These facilities are used to irrigate over 1200 acres of land that produces grains, produce, alfalfa and grass used for hay and pasture land.

Discussion: This project meets the goals and objectives identified in the Southwest Basin Implementation Plan. This project is a component of the Mancos Sub Basin IPP 9-M and is consistent with the Multi-Basin IPP addressing "Ditch Company Improvements and Efficiency Project".

Issues/Additional Needs: No issues or additional needs have been identified.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria.

Tier 1-3 Evaluation Criteria: n/a

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Bauer Lake Water Company	\$0	\$3,000	\$3,000
WSRA Southwest Basin Account	\$55,000	n/a	\$55,000
Total Project Costs	\$55,000	\$3,000	\$58,000

CWCB Project Manager: Craig Godbout

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 will help promote the development of a common technical platform. In accordance with the revised WSRA Criteria and Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

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 scope 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.

Engineering: All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of professional engineer licensed by the State of Colorado to practice Engineering.

SOUTHWEST BASINS ROUNDTABLE

Michael Preston, Chair
c/o Dolores Water Conservancy District
P.O. Box 1150
Cortez, Colorado 81321
970-565-7562

April 22, 2016

Mr. Craig Godbout
Water Supply Management Section
Colorado Water Conservation Board
1580 Logan Street, Suite 600
Denver, Colorado 80203

SUBJECT: Jackson Lake-Bauer Lake#2 Ditch Upgrade Project, \$55,000 from Southwest Basin Account

Dear Mr. Godbout:

The Southwest Basin Roundtable approved funding of \$55,000 from the Basin Account for the Jackson Lake-Bauer Lake#2 Ditch Upgrade Project. The application was considered in detail and approved at the April 13, 2016 meeting of the Southwest Basin Roundtable. There was a quorum of Roundtable members present.

The proposed project is part of Mancos Sub Basin IPP 9-M in the Southwest BIP and consistent with the Multi-Basin IPP addressing "Ditch Company Improvement and Efficiency Projects."

The completed Grant Application will be forwarded directly to you by the applicant. Please contact the applicant directly or me at 970-565-7562, mpreston@frontier.net, if you have questions or wish to discuss this application in more detail.

Sincerely,



Michael Preston
Southwest Basin Roundtable Chair



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT APPLICATION FORM

Today's Date: June 8, 2016

Jackson Lake – Bauer Lake #2 Ditch Upgrade Project

Name of Water Activity/Project

Bauer Lake Water Company

Name of Applicant

South West Basin
RoundTable

Amount from Statewide Account:

0

Amount from Basin Account(s):

\$ 55,000

Total WSRA Funds Requested:

\$ 55,000

Approving Basin Roundtable(s)

(If multiple basins specify amounts in parentheses.)

FEIN: 84-0964609

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Required Exhibits

- A. Statement of Work, Budget, and Schedule
- B. Project Map
- C. As Needed (i.e. letters of support, photos, maps, etc.)

Appendices – Reference Material

- 1. Program Information
- 2. Insurance Requirements
- 3. WSRA Standard Contract Information (Required for Projects Over \$100,000)
- 4. W-9 Form (Required for All Projects Prior to Contracting)

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Revised October 2013

Instructions

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable **AND** the Colorado Water Conservation Board (CWCB). The process for Basin Roundtable consideration and approval is outlined in materials in Appendix 1.

Once approved by the local Basin Roundtable, the applicant should submit this application **with a detailed statement of work including budget and schedule as Exhibit A** to CWCB staff by the application deadline.

WSRA applications are due with the roundtable letter of support 60 calendar days prior to the bi-monthly Board meeting at which it will be considered. Board meetings are held in January, March, May, July, September, and November. Meeting details, including scheduled dates, agendas, etc. are posted on the CWCB website at: <http://cwcb.state.co.us> Applications to the WSRA Basin Account are considered at every board meeting, while applications to the WSRA Statewide Account are only considered at the March and September board meetings.

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf>. In addition, the applicant should also refer to the [Supplemental Scoring Matrix](#) applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests .

The application, statement of work, budget, and schedule **must be submitted in electronic format** (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Craig Godbout - WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
Craig.godbout@state.co.us

If you have questions or need additional assistance, please contact Craig Godbout at: 303-866-3441 x3210 or craig.godbout@state.co.us.

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

1.	Applicant Name(s):	Bauer Lake Water Company			
	Mailing address:	38244 Rd j.5 Mancos CO 81328			
	FEIN #:	084-0964609			
	Primary Contact:	Don Janz	Position/Title:	Secretary	
	Email:	Don.janz69@gmail.com			
	Phone Numbers:	Cell:	9707496184	Office:	
	Alternate Contact:		Position/Title:		
	Email:				
	Phone Numbers:	Cell:		Office:	

2. Eligible entities for WSRA funds 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) – authorities, Title 32/special districts, (conservancy, conservation, and irrigation districts), and 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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3. Provide a brief description of your organization

The Bauer Lake # 2 and Lower Bauer West Lateral also known as the Bauer Lake Water Company is the applicant looking to perform much needed upgrades on the ditch from Jackson Lake to Bauer Lake #2. The ditch is used to transfer 500 plus acre feet of water which is used to irrigate 1200 plus acres of land that produces, produce, grains, grass and alfalfa forage used in the form of pastures and hay ground. (See attached map) We have 29 Members and 87 shares in the lake. We have an annual assessment of \$140 per share for operations, plus loan payments (variable by distance to their location and shares).

This project supports the Southwest Basin Roundtable's Implementation Plan (BIP) "Goal B of Meeting Agricultural Needs". The specific goal is to "implement efficiency measures to maximize beneficial use and production". The project is to implement irrigation system improvements to improve water delivery and maximize beneficial uses. Along with being categorized as a goal of the BIP, this project meets goals within the Colorado Water Plan as well. According to Chapter 10's Critical Agricultural Actions table, this project specifically meets item #3 to "Provide grants, loans, and technical support to update and improve Colorado's aging agricultural infrastructure, especially where improvements provide multiple benefits". This project is the repair and replacement of a ditch and culvert with an estimated age of at least +35 years.

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

The company has the means to perform the work and can complete such improvements.

5. 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 link to this standard contract is included in Appendix 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.

6. 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.

None

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Part II. - Description of the Water Activity/Project

1. What is the primary purpose of this grant application? (Please check only one)

☐ Nonconsumptive (Environmental or Recreational)

☒ Agricultural

☐ Municipal/Industrial

☐ Needs Assessment

☐ Education

☐ Other Explain:

2. If you feel this project addresses multiple purposes please explain.

N/A

3. Is this project primarily a study or implementation of a water activity/project? (Please check only one)

☐ Study

☒ Implementation

4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

New Storage Created (acre-feet)

New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet)

Existing Storage Preserved or Enhanced (acre-feet)

Length of Stream Restored or Protected (linear feet)

Length of Pipe/Canal Built or Improved (linear feet)

Efficiency Savings (acre-feet/year OR dollars/year – **circle one**)

Area of Restored or Preserved Habitat (acres)

Other -- Explain:

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4. To help us map WSRA projects please include a map (Exhibit B) and provide the general coordinates below:

Jackson Lake

Latitude: 37.39875

Longitude: 208.27403

Bauer Lake 37.38255/ 10829837

5. 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. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

This project will incorporate several segments (A,B,C and D) which are all along the 11,000 foot of ditch, which is requiring repair work and upgrade improvements in order to achieve water transfer efficiency. All of this work will be part of this grant.

- A. The Headgate and the Diversion dam between Bauer Lake and Chicken Creek is in desperate need of repairs/ improvements. At Jackson Gulch the ditch will also need repairing along with the headgate in order for water to flow efficient to Chicken Creek. They have not had any major work done in 35+- years.
- B. After a slide several years ago, cracking occurred which made a leak, and a 36" diameter pipe was installed to bridge the damaged area. Now the pipe and the ditch grade in this area causes the water to back up and limits water flow. Possible fixes may include removing it completely (the cracks may have healed over the years}, or replacing the 36" with a larger 48" pipe (approximately 100 ft. long), and re-grading the ditch on both sides to allow better flow and elevation grade control.
- C. This area has exposed sandstone that is a foot above the desired grade, which is limiting flow. It needs to be excavated down to the appropriate grade which due to the location, getting a large enough piece of equipment in there to rip this section is not feasible, so we are looking at the possibility of using Dexpan in order to achieve the required grade.
- D. The Parshall Flume is in need of replacement to accurately measure flow.

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Part III. – 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.)

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

Yes the water activity is consistent with this section. No water rights or property rights will be jeopardized by this project.

- 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.

Yes the application was approved at the last BRT meeting and all information requested is included in the letter from the Roundtable chair.

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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- 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.

The information requested is included in the letter from the Roundtable chair.

- d) Matching Requirement: For requests from the **Statewide Fund**, the applicants will be required to demonstrate a **25 percent** (or greater) match of the total grant request from the other sources, including by not limited to Basin Funds. A minimum match of 5% of the total grant amount shall be from Basin funds. A minimum match of 5% of the total grant amount must come from the applicant or 3rd party sources. 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 contract or purchase order between the applicant and the State of Colorado is executed. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

Bauer Lake Water Company will provide in-kind services for its 5% match

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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2. For Applications that include a request for funds from the **Statewide Account**, describe how the water activity/project meets all applicable **Evaluation Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines and repeated below.) Projects will be assessed on how well they meet the Evaluation Criteria. **Please attach additional pages as necessary.**

Evaluation Criteria – the following criteria will be utilized to further evaluate the merits of the water activity proposed for funding from the Statewide Account. In evaluation of proposed water activities, preference will be given to projects that meet one or more criteria from each of the three “tiers” or categories. Each “tier” is grouped in level of importance. For instance, projects that meet Tier 1 criteria will outweigh projects that only meet Tier 3 criteria. The applicant should also refer to the Supplemental Scoring Matrix applied to Evaluation Criteria Tiers 1-3 for Statewide Account requests. WSRA grant requests for projects that may qualify for loans through the CWCB loan program will receive preference in the Statewide Evaluation Criteria if the grant request is part of a CWCB loan/WSRA grant package. For these CWCB loan/WSRA grant packages, the applicant must have a CWCB loan/WSRA grant ratio of 1:1 or higher. Preference will be given to those with a higher loan/grant ratio.

Tier 1: Promoting Collaboration/Cooperation and Meeting Water Management Goals and Identified Water Needs

- a. The water activity addresses multiple needs or issues, including consumptive and/or non-consumptive needs, or the needs and issues of multiple interests or multiple basins. This can be demonstrated by obtaining letters of support from other basin roundtables (in addition to an approval letter from the sponsoring basin).
- b. The number and types of entities represented in the application and the degree to which the activity will promote cooperation and collaboration among traditional consumptive water interests and/or non-consumptive interests, and if applicable, the degree to which the water activity is effective in addressing intrabasin or interbasin needs or issues.
- c. The water activity helps implement projects and processes identified as helping meet Colorado’s future water needs, and/or addresses the gap areas between available water supply and future need as identified in SWSI or a roundtable’s basin-wide water needs assessment.

Tier 2: Facilitating Water Activity Implementation

- d. Funding from this Account will reduce the uncertainty that the water activity will be implemented. For this criterion the applicant should discuss how receiving funding from the Account will make a significant difference in the implementation of the water activity (i.e., how will receiving funding enable the water activity to move forward or the inability obtaining funding elsewhere).
- e. The amount of matching funds provided by the applicant via direct contributions, demonstrable in-kind contributions, and/or other sources demonstrates a significant & appropriate commitment to the project.

Tier 3: The Water Activity Addresses Other Issues of Statewide Value and Maximizes Benefits

- f. The water activity helps sustain agriculture & open space, or meets environmental or recreational needs.
- g. The water activity assists in the administration of compact-entitled waters or addresses problems related to compact entitled waters and compact compliance and the degree to which the activity promotes maximum utilization of state waters.
- h. The water activity assists in the recovery of threatened and endangered wildlife species or Colorado State species of concern.
- i. The water activity provides a high level of benefit to Colorado in relationship to the amount of funds requested.

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j. The water activity is complimentary to or assists in the implementation of other CWCB programs.
Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**.

Please attach additional pages as necessary

N/A

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Part IV. – 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 water rights issues, and the name/location of water bodies affected by the water activity.

Jackson Lake to Bauer Lake headgate and diversion improvements and repair of an existing ditch that moves 500 acre feet of water rights for several of our shareholders. The project will assist in maintaining irrigation rights in the Mancos River Valley and continue to provide reliable delivery of the water supply. The project will be constructed in the off irrigation season to prevent affecting any users.

2. Please provide a brief narrative of any related studies or permitting issues.

No related studies or permitting issues on this project

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.** All WSRA funds are disbursed on a reimbursement basis after review invoices and appropriate backup material.

Please provide a detailed statement of work using the template in Exhibit A. Additional sections or

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modifications may be included as necessary. Please define all acronyms and include page numbers.

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.

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 10 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: *Don R. Janz*

Print Applicant's Name: Don R. Janz

Project Title: Jackson Lake Bauer Lake #2 Ditch Upgrade Project

Date: June 8, 2016

Return an electronic version (hardcopy may also be submitted) of this application to:

Craig Godbout – WSRA Application
Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203
303-866-3441, ext. 3210 (office)
303-547-8061 (cell)
craig.godbout@state.co.us

Exhibit A
Statement of Work
Date: June 8, 2016

WATER ACTIVITY NAME-Jackson Lake- Bauer Lake #2 Ditch upgrade

GRANT RECIPIENT- Bauer Lake Water Company

FUNDING SOURCE - Basin Account

INTRODUCTION AND BACKGROUND

The Bauer Lake #2 and Lower Bauer West Lateral also known as the Bauer Lake Water Company is in need of upgrades. This irrigation company is comprised of two ditches. One ditch goes from Jackson Lake to Bauer Lake #2 and is in desperate need of repairs. The other ditch involved goes down the Chicken Creek canyon and picks up the water from the Jackson ditch to take it to the Lower Bauer lake. These ditches are used to transfer 500 plus acre feet of water for agriculture use. This water is used to irrigate over 1200 acres of land that produces grains, produce, alfalfa and grass used for hay and pasture land. (see attached map)

OBJECTIVES

The objective of this project is to provide a permanent fix on an existing ditch that has not seen any major repairs performed in over 35 years. This will include repairing and improving Head-gate structure, excavating sandstone, replacing a Parshall Flume, and cleaning and grading ditches in order to improve water flow efficiency. A construction company familiar with this type of work will be contracted.

TASKS

This project will incorporate several segments requiring repair work and upgrade improvements in order to achieve water transfer efficiency.

TASK 1- This project will incorporate several segments, but only one task requiring repair work and upgrade improvements in order to achieve water transfer efficiency. (see attached drawing)

A. The Head-gate and the Diversion Dam between Bauer Lake and Chicken Creek is in desperate need of repairs/improvements. At Jackson Gulch the ditch will also need repairing along with cleaning for the water to flow efficiently to Chicken Creek so it than can be diverted into the Bauer Lake Ditch. They have not had any major work done in 35+ years.

B. After a slide several years ago, cracking occurred in the Bauer Lake ditch making a large leak. A 36" pipe was installed to bridge the damaged area. Now that pipe and the ditch grade in the area causes the water to back up and limits water flow. The fix will include removing the pipe completely and replacing the 36" pipe with a larger 53" squash pipe (approximately 100 ft. long), and re-grading the ditch on both sides to improve water flow and elevation grade control.

C. The Bauer Lake ditch has exposed sandstone that limits the water flow because it is a foot above the desired grade. The sandstone will be removed down to the appropriate grade. Due to the location it is not feasible to get a large piece of equipment to the area to rip this section. The rock will have to be drilled and a product called Dexpan will be used to crack and break up the sandstone so removal of the sandstone can be completed in order to achieve required grade.

D. The Parshall Flume in Bauer Lake ditch is damaged and does not measure the water flow accurately. This will be replaced.

E. After accomplishing segments A-D additional ditch cleaning, grading and berm work will be necessary to accommodate the increased flow in other parts of the Bauer Lake Ditch.

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.

Materials	Labor	Equipment
53" x41"x 100' Squash pipe/bands and flared ends plus freight \$ 11,000	Labor will consist of a 6 man crew working 600 man-hours at \$25 an hour for the duration of the project.	Mini Excavator
1 Head gate \$ 3,000		Backhoe
Parshall Flume \$ 2,500		Skid Steers
176# of Dexpan \$ 600.00		UTV's
Concrete structures around head gate/diversion dam, flumes and existing structures. \$ 12,900		Generator, Air Compressor
		Hammer Drill
		Portable Welder/Torch
\$ 30,000	\$ 15,000	\$ 30,000.00

In-Kind Contributions (If Applicable)				
Project Personnel:	super	inspector		
Hourly Rate:	25	25		Total
Task 1 -	1	1		2
Task 2 -	n/a	n/a		
Total Hours:	60	60		120
Total Cost:	1500	1500		3000

Time Line- Assuming PO issuance in September

September 19, 2016

Initial gathering of equipment, supplies, and materials

Starting with Segment A estimated time of completion 1 week.

September 26, 2016

Segment C estimated time of completion 1 week.

October 3, 2016

Segment D estimated time of completion 1 week.

October 10, 2016

Segment B and E estimated time of completion 1 week.

Segments A, B, C, D, and E are anticipated to take 4 weeks and are desired to be completed the fall of 2016. Weather depending one or more segments maybe held over to spring of 2017 if not able to complete this year.

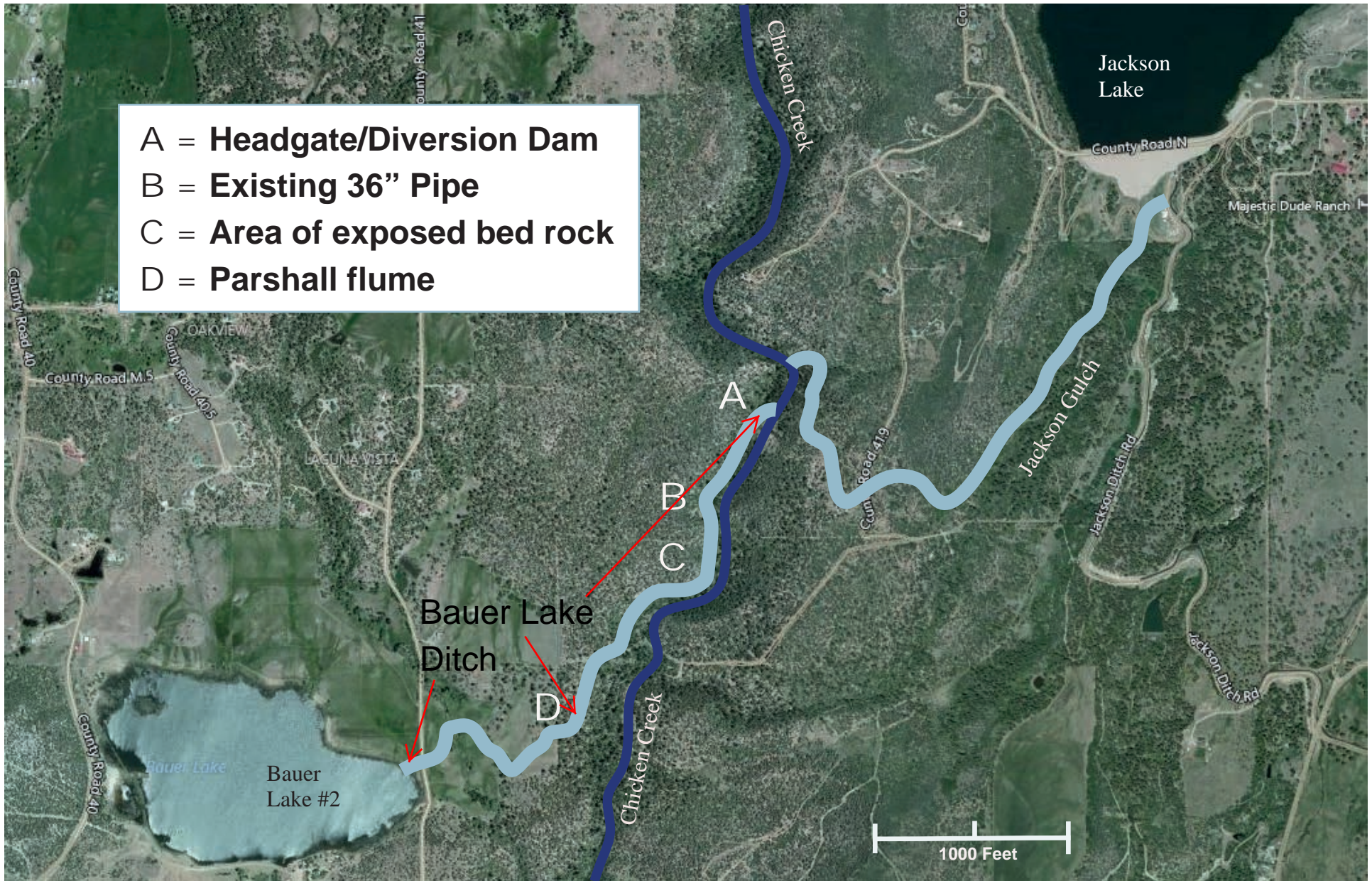
REPORTING AND FINAL DELIVERABLE

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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.

Jackson Lake - Bauer Lake #2 Ditch Upgrade

4/3/16



Jackson Lake - Mancos Overview

