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Colorado Water Conservation Board
Water Supply Reserve Fund Grant Application

Instructions		
<p>All WSRF grant applications shall conform to the current 2016 WSRF Criteria and Guidelines.</p> <p>To receive funding from the WSRF, a proposed water activity must be approved by a Roundtable(s) AND the Colorado Water Conservation Board (CWCB). The process for Roundtable consideration and recommendation is outlined in the 2016 WSRF Criteria and Guidelines. The CWCB meets bimonthly according to the schedule on page 2 of this application.</p> <p>If you have questions, please contact the current CWCB staff Roundtable liaison:</p>		
<p>Arkansas</p> <p>Ben Wade ben.wade@state.co.us 303-866-3441 x3238</p>	<p>Gunnison North Platte South Platte Yampa/White</p> <p>Craig Godbout craig.godbout@state.co.us 303-866-3441 x3210</p>	<p>Colorado Metro Rio Grande Southwest</p> <p>Megan Holcomb megan.holcomb@state.co.us 303-866-3441 x3222</p>

WSRF Submittal Checklist (Required)	
X	I acknowledge this request was recommended for CWCB approval by the sponsoring roundtable.
X	I acknowledge I have read and understand the 2016 WSRF Criteria and Guidelines .
X	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract . ⁽¹⁾
Application Documents	
X	Exhibit A: Statement of Work ⁽²⁾ (<i>Word – see Template</i>)
X	Exhibit B: Budget & Schedule ⁽²⁾ (<i>Excel Spreadsheet – see Template</i>)
	Letters of Matching and/or Pending 3 rd Party Commitments ⁽²⁾
X	Map ⁽²⁾
X	Photos/Drawings/Reports
	Letters of Support
Contracting Documents ⁽³⁾	
	Detailed/Itemized Budget ⁽³⁾ (<i>Excel Spreadsheet – see Template</i>)
	Certificate of Insurance ⁽⁴⁾ (<i>General, Auto, & Workers' Comp.</i>)
	Certificate of Good Standing ⁽⁴⁾
X	W-9 Form ⁽⁴⁾
	Independent Contractor Form ⁽⁴⁾ (<i>If applicant is individual, not company/organization</i>)
	Electronic Funds Transfer (ETF) Form ⁽⁴⁾

(1) Click "Grant Agreements". For reference only/do not fill out or submit/required for contracting

(2) Required with application if applicable.

(3) Additional documentation providing a Detailed/Itemized Budget maybe required for contracting.

Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.



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(4) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.

Schedule		
CWCB Meeting	Application Submittal Dates	Type of Request
January	December 1	Basin Account; BIP
March	February 1	Basin/Statewide Account; BIP
May	April 1	Basin Account; BIP
July	June 1	Basin Account; BIP
September	August 1	Basin/Statewide Account; BIP
November	October 1	Basin Account/BIP

Desired Timeline	
Desired CWCB Hearing Month:	March 2020
Desired Notice to Proceed Date:	April 2020

Water Activity Summary	
Name of Applicant	Garfield County School District 16
Name of Water Activity	Diamond Ditch Piping Project
Approving Roundtable(s)	Basin Account Request(s) ⁽¹⁾
Colorado Basin Roundtable	\$ 25,000
Basin Account Request Subtotal	\$ 25,000
Statewide Account Request ⁽¹⁾	\$ 0
Total WSRF Funds Requested (Basin & Statewide)	\$ 25,000
Total Project Costs	\$173,000

(1) Please indicate the amount recommended for approval by the Roundtable(s)



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Grantee and Applicant Information	
Name of Grantee(s)	Garfield County School District No. 16
Mailing Address	PO Box 68, Parachute, CO 81635
FEIN	84-6001236
Grantee's Organization Contact ⁽¹⁾	John Martinez
Position/Title	Director of Maintenance
Email	jmartinez@garfield16.org
Phone	970-285-5701 ext. 5131
Grant Management Contact ⁽²⁾	Rose Belden
Position/Title	Garfield County School District No. 16 Director of Business Services
Email	RBelden@garfield16.org
Phone	970-285-5701 ext. 5114
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

(1) Person with signatory authority

(2) Person responsible for creating reimbursement invoices (Invoice for Services) and corresponding with CWCB staff.

Description of Grantee
Provide a brief description of the grantee's organization (100 words or less).
Garfield County School District is a public K-12 educational district located in central Garfield County serving the Parachute, Battlement Mesa and Rulison communities.

Type of Eligible Entity (check one)	
	Public (Government): municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
X	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, any organization that is not part of the government
	Covered Entity: as defined in Section 37-60-126 Colorado Revised Statutes

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Type of Water Activity (check one)	
	Study
X	Implementation

Category of Water Activity (check all that apply)		
	Nonconsumptive (Environmental)	
	Nonconsumptive (Recreational)	
X	Agricultural	
X	Municipal/Industrial	
	Needs Assessment	
X	Education & Outreach	
	Other	Explain:

Location of Water Activity	
Please provide the general county and coordinates of the proposed activity below in decimal degrees . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	Garfield County
Latitude	39.456480
Longitude	-108.064712

Water Activity Overview
<p>Please provide a summary of the proposed water activity (200 words or less). Include a description of the activity and what the WSRF funding will be used for specifically (e.g. studies, permitting, construction). Provide a description of the water supply source to be utilized or the water body affected by the activity. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, area of habitat improvements. If this project addresses multiple purposes or spans multiple basins, please explain. The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, and Schedule.</p> <p>The Diamond Ditch Piping Project will replace an open-ditch delivery system sourced from Parachute Creek, a tributary to the Colorado River, with approximately 2,000 feet of 24-inch ADS pipe. The existing open-ditch system is approximately 6,000 feet long and has been mostly piped except for the first 2,000 feet which has significant conveyance losses, estimated at 20% of diversions. These high losses through the first 2,000 feet impact the ability of the ditch users to receive the irrigation water needed particularly at the athletic fields at Grand Valley High School. Additionally, the ditch work in the first 2,000 feet will address significant hazards to the ditch from sheer 30' earthen embanks looming above the ditch and undercutting of the ditch embankment by Parachute Creek. The NRCS is providing in-kind ditch piping and grading design for the project. The requested funds will only be used for construction of the pipeline and embankment grading, including material costs and contractor fees. Diamond Ditch is utilized by five others including hay irrigators, soon to be greenhouse agricultural production and three residences. Recently there has been as much as 38 acres of irrigation.</p>



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Measurable Results		
To catalog measurable results achieved with WSRF funds please provide any of the following values.		
	New Storage Created (acre-feet)	
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
	Existing Storage Preserved or Enhanced (acre-feet)	
	Length of Stream Restored or Protected (linear feet)	
~200 AF/year (assuming average of 3 cfs diverted and estimated 20% loss)	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
	Area of Restored or Preserved Habitat (acres)	
2,000 Feet (33% of the Ditch)	Length of Pipe/Canal Built or Improved	
	Other	Explain:

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Water Activity Justification

Provide a description of how this water activity supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), and the respective [Roundtable Basin Implementation Plan and Education Action Plan](#) ⁽¹⁾. The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).

For applications that include a request for funds from the Statewide Account, the proposed water activity shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan criteria for state support (CWP, Section 9.4, pp. 9-43 to 9-44;) (Also listed pp. 4-5 in [2016 WSRF Criteria and Guidelines](#)).

This project is needed to improve efficiency of an existing raw water irrigation conveyance system supplying irrigation water mainly for Grand Valley High School athletic fields but also for neighboring residential lots, agriculture parcels as well as supplying water to Oil & Gas industry related parcels. This project will reduce diversions of unconsumed water in the Colorado Basin, and reduce selenium levels to improve water quality downstream. The existing system conserves energy by providing raw water irrigation for School District and homeowners' use instead of potable water being pumped, treated, and then used for irrigation.

Piping the Diamond Ditch will improve the efficiency of water delivery and eliminate losses due to evaporation and seepage from the ditch, aligning with Sections 6.3.4, 6.3.5, and 10.3 of the Colorado Water Plan (CWP), as well as the Colorado Basin Implementation Plan (CO BIP), Statewide Water Supply Initiative (SWSI) and the Middle Colorado Watershed Council (MCWC) 2016 Watershed Plan goals. This effort aims to reach a high level of active and passive conservation and is a multi-beneficial project through coordination with shared water uses, including the School District, Puckett Land Company, agriculture business, homeowners, and the City.

CWP

Section 6 of the CWP lists action items and goals for agricultural water efficiency, conservation and viability in Section 6. Specifically, Section 6.3.4 describes actions to conserve irrigation water consumption (both directly consumed and unconsumed). This project will replace an open-ditch delivery system with a pipeline, which is one of the methods that 6.3.4 specifically mentions as a method for reducing diversions of unconsumed water.

Section 6.3.5 of the CWP describes the nexus of water conservation and energy conservation. The School District's use of raw water irrigation also conserves energy by reducing the amount of water that would alternatively be pumped from the Colorado River or pumped and treated if served by a municipal potable water treatment plant.

Section 10.3 of the CWP identified critical actions for "encouraging ditch-wide and regional planning to explore system-wide conservation and efficiency opportunities." The primary purpose of this project aligns with these critical actions and the desire to encourage high levels of conservation across the Colorado River Basin.

CO BIP

The proposed project aligns with the CO BIP themes identified in Section 2.4 (page 43) and more specifically, the Middle Colorado Region priority themes discussed in Section 3 (page 111).

Theme 1 identifies the need to Protect and Restore Healthy Streams, Rivers, Lake and Riparian Areas and particularly identifies unmet instream flows and degraded aquatic environmental habitat. This proposed project builds on recent efforts that replaced the Diamond Ditch headgate and will allow the Diamond Ditch to operate more efficiently and reduce diversion demands providing additional flows in Parachute Creek. Decreasing seepage loss in the Diamond Ditch will also support efforts to reduce high salinity return flows to the Colorado River another top theme for the Middle Colorado Region.



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Theme 3 focuses on the need to secure growing water demand to Secure Safe Drinking Water supplies. Continued raw water irrigation along the Diamond Ditch users extends the ability of the local water providers by reducing the peak service summer demands that water treatment plants are designed to meet.

Theme 4 identifies the Basin's desire to Encourage a High Level of Basinwide Conservation. This basin theme identifies agricultural and municipal conservation efforts should be to reach a high level of active and passive conservation targets. The Diamond Ditch Piping Project directly addresses this Basin priority in regards to both agricultural and municipal demands.

SWSI 2010

SWSI identified an existing Colorado River Basin Agricultural shortage of 100,000 AFY and a predicted M&I/SSI Shortage of 48,000 AFY. SWSI Section 8 identifies recommendations to move forward to meet Colorado's water supply needs and identified the following which the District aims to meet with this project:

1. Actively encourage projects to address multiple purposes, including municipal, industrial, environmental, agricultural.
5. Support meeting Colorado's nonconsumptive water needs.
8. Evaluate multi-purpose projects or packages of projects to develop new water supplies for use on the West Slope and Front Range.

MCWC 2016 Watershed Plan

In the 2016 Watershed Plan Chapter 5 identifies the organization's top 8 goals. Goal 3 is identified as "promote smart, efficient water use and conservation." Piping the Diamond Ditch is in line with this guiding goal of the watershed council.

(1) Access Basin Implementation Plans or Education Action Plans from Basin drop down menu.

Matching Requirements: Basin Account Requests

Basin (only) Account grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3rd party and shall be accompanied by a **letter of commitment** as described in the 2016 WSRF Criteria and Guidelines (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)
Bookcliff Conservation District Cost Share Grant	\$ 5,000 cash (Application submitted on 9/13/2019)
NRCS Design	\$15,000 in-kind
Garfield School District No. 16	\$125,000 cash
Garfield School District No. 16	\$ 3,000 in-kind
Total Match	\$148,000
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.	

Matching Requirements: Statewide Account Requests

Statewide Account grant requests require a 50% match as described in the 2016 WSRF Criteria and Guidelines. A minimum of 10% match shall be from Basin Account funds (cash only). A minimum of 10% match shall be provided by the applicant or 3rd party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3rd party) and shall be accompanied by a **letter of commitment**. Attach additional sheet if necessary.



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Contributing Entity	Amount and Form of Match (note cash or in-kind):
Total Match	\$
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	

Related Studies

Please provide a list of any related studies, including if the water activity is complementary to or assists in the implementation of other CWCB programs.

Garfield County School District No. 16 rebuilt the Diamond Ditch headgate in 2016 with their own funds. The headgate was rebuilt with precast concrete and operable slidegates for a total cost of approximately \$40,000.

Previous CWCB Grants

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order

Garfield County School District No. 16 has not applied for a WSRF grant before.

Tax Payer Bill of Rights

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.

The District has been De-Bruced and will not be limited in grant funding from the WSRF.

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(f)**

Applicant & Grantee: Garfield County School District No. 16
Water Activity Name: Diamond Ditch Piping Project
Water Activity Purpose: Multi-Purpose/Implementation
County: Garfield
Drainage Basin: Colorado
Water Source: Parachute Creek
Amount Requested: \$25,000 Colorado Basin Account
Matching Funds: Applicant Match = \$148,000
• 592% of the Basin Account request (meets 25% min)

Staff Recommendation:
Staff recommends approval of up to \$25,000 from the Colorado Basin Account to help fund the project: Diamond Ditch Piping Project.

Water Activity Summary: WSRF Funds, if approved will assist Garfield County School District No. 16 replace an open ditch delivery system sourced from Parachute Creek with approximately 2,000 feet of 24-inch ADS pipe. The existing system is approximately 6,000 feet long and has been mostly piped except for the first 2,000 feet which has significant conveyance losses, estimated at 20% of diversion. These losses impact the ability of the ditch users to receive irrigation water needed particularly at the athletic fields at Grand Valley High School. Additional, the ditch work will address significant hazards to the ditch from sheer the 30 feet earthen embankments looming above the ditch and undercutting of the ditch embankment by Parachute Creek. NRCS is providing in-kind ditch pipeline and grading design for the project. The requested WSRF Grant funds will be used for construction of the pipeline and embankment grading, including materials costs and contractor fees. Diamond Ditch is utilized by five others including hay irrigators, soon to be greenhouse agricultural production and three residences. Recently there has been as much as 38 acres of irrigation under the ditch.

Discussion: This effort will assist the Colorado Basin Roundtable meet the Goals and Measurable Outcomes to *Secure Safe Drinking Water* supplies as described in their Basin Implementation Plan. This effort also assists Colorado's Water Plan by taking actions to conserve irrigation water as indicated in Section 6.3.5.

Issues/Additional Needs: Prior to entering into a grant contract with the state, the applicant must submit all letters of matching commitment, otherwise there are no additional issues or needs.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
Garfield County School District No. 16	\$125,000	\$3,000	\$128,000	Secured
NRCS	\$0	\$15,000	\$15,000	Pending
Bookcliff Conservation District	\$5,000	\$0	\$5,000	Pending
Sub-total	\$130,000	\$18,000	\$148,000	
WSRF Colorado Basin Account	\$25,000	\$0	\$25,000	Secured
Total Project Costs	\$155,000	\$18,000	\$173,000	

CWCB Project Manager: Craig Godbout

THE COLORADO BASIN ROUNDTABLE
C/O P.O. BOX 1120
GLENWOOD SPRINGS, COLORADO 81602

December 18, 2019

Megan Holcomb
Colorado Water Conservation Board
Water Supply Planning Section
1313 Sherman Street
Denver CO

Dear Megan:

The Colorado Basin Roundtable voted unanimously at its Nov. 25, 2019 meeting to support Garfield County School District 16 Diamond Ditch project with \$25,000 from the CBRT WSRF Basin Fund. The original request was \$50,000 but the Roundtable reduced the funding due to the demand on its Basin funding reserve.

The Diamond Ditch Piping Project will replace an open-ditch delivery system sourced from Parachute Creek, a tributary to the Colorado River, with approximately 2,000 feet of 24-inch ADS pipe. The existing open-ditch system is approximately 6,000 feet long and has been mostly piped except for the first 2,000 feet which has significant conveyance losses, estimated at 20% of diversions. These high losses through the first 2,000 feet impact the ability of the ditch users to receive the irrigation water needed particularly at the athletic fields at Grand Valley High School. Additionally, the ditch work in the first 2,000 feet will address significant hazards to the ditch from sheer 30' earthen embanks looming above the ditch and undercutting of the ditch embankment by Parachute Creek.

This project to improve the efficiency of water delivery, reduce losses and improve safety comports with tenants of the Colorado Water Plan and the Basin Implementation Plan.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Jim Pokrandt", with a stylized flourish extending from the end of the name.

Jim Pokrandt
Chair, Colorado Basin Roundtable