



Last Update: August 3, 2017

## Colorado Water Conservation Board

### Water Supply Reserve Fund Grant Application

#### Instructions

All WSRF grant applications shall conform to the current [2016 WSRF Criteria and Guidelines](#).

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.

If you have questions, please contact the current CWCB staff Roundtable liaison:

#### Arkansas

Ben Wade  
[ben.wade@state.co.us](mailto:ben.wade@state.co.us)  
303-866-3441 x3238

#### Gunnison | North Platte | South Platte | Yampa/White

Craig Godbout  
[craig.godbout@state.co.us](mailto:craig.godbout@state.co.us)  
303-866-3441 x3210

#### Colorado | Metro | Rio Grande | Southwest

Megan Holcomb  
[megan.holcomb@state.co.us](mailto:megan.holcomb@state.co.us)  
303-866-3441 x3222

#### WSRF Submittal Checklist (Required)

X	I acknowledge this request for funding was recommended for CWCB approval by the sponsoring Basin Roundtable(s).
X	I acknowledge I have read and understand the <a href="#">2016 WSRF Criteria and Guidelines</a> .
X	I acknowledge the Grantee will be able to contract with CWCB using the <a href="#">Standard Contract</a> . <sup>(1)</sup>
Exhibit A	
X	<a href="#">Statement of Work</a> <sup>(2)</sup> (Word – see Exhibit A Template)
X	<a href="#">Budget &amp; Schedule</a> <sup>(2)</sup> (Excel Spreadsheet – see Exhibit A Template)
	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(2)</sup>
Exhibit C	
X	Map <sup>(2)</sup>
X	Photos/Drawings/Reports
X	Letters of Support
X	Certificate of Insurance <sup>(3)</sup> (General, Auto, & Workers' Comp.)
Contracting Documents	
	Certificate of Good Standing <sup>(3)</sup>
	W-9 <sup>(3)</sup>
	Independent Contractor Form <sup>(3)</sup> (If applicant is individual, not company/organization)
	Electronic Funds Transfer (ETF) Form <sup>(3)</sup>

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

(2) Required with application if applicable.

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

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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:	July
Desired Notice to Proceed Date:	July 2018

Water Activity Summary		
Name of Applicant	Big Thompson Conservation District	
Name of Water Activity	Irrigation Water Return Flow Filter Strip	
Approving Roundtable(s)	Basin Account Request(s) <sup>(1)</sup>	
Basin Account Request Subtotal	\$6,600	
Statewide Account Request <sup>(1)</sup>	\$	
Total WSRF Funds Requested (Basin & Statewide)	\$6,600	
Total Project Costs	\$ 61,835	

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



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Grantee and Applicant Information	
Name of Grantee(s)	Big Thompson Conservation District
Mailing Address	PO Box 441
FEIN	84-6000147
Grantee's Organization Contact <sup>(1)</sup>	Larry Lempka
Position/Title	District Manager
Email	info@bigthompson.org
Phone	970-624-7570
Grant Management Contact <sup>(2)</sup>	
Position/Title	Larry Lempka, District Manager
Email	info@bigthompson.org
Phone	970-624-7570
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).
Big Thompson Conservation District was formed in 1943 through the Soil Conservation Service to aid landowners due to the Dust Bowl. The District is now under the guidance of the USDA through NRCS and partners with Colorado State Conservation Board. The mission of the Big Thompson Conservation District to work for constructive land use providing for the conservation and preservation of natural resources, including adequate water reserves and uses, the control of wind and water erosion, noxious weed control and the reduction of damage resulting from floods.



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Type of Eligible Entity (check one)	
	<b>Public (Government):</b> 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	<b>Public (Districts):</b> authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises
	<b>Private Incorporated:</b> mutual ditch companies, homeowners associations, corporations
	<b>Private Individuals, Partnerships, and Sole Proprietors:</b> are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
	<b>Non-governmental organizations:</b> broadly, any organization that is not part of the government
	<b>Covered Entity:</b> as defined in <a href="#">Section 37-60-126 Colorado Revised Statutes</a>

Type of Water Activity (check one)	
X	Study
X	Implementation

Category of Water Activity (check all that apply)		
X	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 <b>decimal degrees</b> . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Counties	Larimer
Latitude	40 – 16' 52.72"
Longitude	105 – 05' 05.57"

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### Water Activity Overview

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.

**The Big Thompson Conservation District along with Colorado State University and support from Natural Resources Conservation Service are implementing Filter Strips along the Little Thompson River. The collaboration wishes to measure water quantity and quality entering the field where a filter strip has been planted to demonstrate the effectiveness and to actually identify the effectiveness showing the amount of nutrients, sediment and water filtered into the farm ground that comes from several square miles above the river and enters into a growing grass filter. We are measuring intake and outflow of the water as it comes into the filter strip and as it leaves into the river to demonstrate the effectiveness of living filters in relation to water quality as it returns to streams and rivers, and the potential for additional agricultural applications.**

### 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)	
1000 feet	Length of Stream Restored or Protected (linear feet)	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
3 Acres	Area of Restored or Preserved Habitat (acres)	
	Length of Pipe/Canal Built or Improved	
Reduced pollutants	Other	Explain: Filter Strip to reduce return flow from upland farmland returning directly to the Little Thompson River.

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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](#) <sup>(1)</sup>. 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](#)).

**1) This will maximize a Process (IPP)**

- A. Study the effects of Filter Strips to reduce sediment, nutrients and reduce direct flow of water directly back into the River.**
- B. To provide actual data of the effects of farmer initiated water treatment and the identified retention of nutrients, deposition and water placement into subsurface areas along a riparian area.**
- C. This data can be used to establish regulatory needs and applications.**

**2) Maximize use of existing South Platte water.**

- A. To demonstrate that return flows can be directed into waterways without adding additional nutrients and sediment to the river.**
- B. Improve water quality to return flows.**
- C. Increase subsurface migration of water into stream beds.**

**3) Protect & enhance environmental and recreational attributes**

- A. Reduce the amount of nutrients and sediment are returned to live rivers.**
- B. Help to keep the rivers healthy**
- C. Resilient agricultural activity along a restored stretch of flood repaired river.**

**4) Utilize effective communications and outreach to support program**

- A. Create a visual live learning laboratory to demonstrate the use of Filter Strips.**
- B. Create Signage to show the demonstration.**
- C. Create publications and material to show the results of the findings.**
- D. Encourage Tours and live visits to the site.**
- E. Develop workshop programs to promote the project.**

**5) Research new technologies and strategies to utilize low quality water supplies**

- A. To demonstrate how water can be filtered by live plants to improve water quality.**
- B. Allow return flows to enter the river through underground sources to reduce contaminates and reduce water temperature.**

Coordination of events, information and activities shall be made with the Education Committee.



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### Water Activity Justification

(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 3<sup>rd</sup> 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)
LLC, Inc. – Lempka Farm	In Kind \$ 6,435



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Matching Requirements: Basin Account Requests	
Big Thompson Conservation District	Cash \$8,500
Big Thompson Conservation District	In Kind \$800
Colorado State University	Cash \$15,000
Colorado State University	In-Kind \$25,000
Total Match	\$55,435
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.	

Matching Requirements: Statewide Account Requests	
<b>Statewide Account</b> 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 3 <sup>rd</sup> party) and shall be accompanied by a <b>letter of commitment</b> . Attach additional sheet if necessary.	
Contributing Entity	Amount and Form of Match (note cash or in-kind):
Total Match	\$ 40,000
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 complimentary to or assists in the implementation of other CWCB programs.



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### Related Studies

Little Thompson Watershed Master Plan 2014  
Hydraulic and Geomorphic Studies 2015  
Sediment Transfer Study 2016  
Water Supply Study 2016

### 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

Water Supply Study Phase I  
1) Big Thompson Conservation District and Little Thompson Watershed Coalition  
2) Water Supply Study Needs Assessment  
3) South Platte Round Table  
4) July 2015  
5) POGG1PDAA 2015 00271

### 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.

BTCD does not receive any tax funding and at present will not be effected at current levels of participation.

**Water Supply Reserve Fund – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**September 18-20, 2018**  
**Agenda Item 12(I)**

**Applicant & Grantee:** Big Thompson Conservation District  
**Water Activity Name:** Irrigation Water Return Flow Filter Strip  
**Water Activity Purpose:** Multipurpose/Study & Implementation  
**County:** Larimer  
**Drainage Basin:** South Platte  
**Water Source:** Little Thompson River  
**Amount Requested:** \$6,600 South Platte Basin Account  
**Matching Funds:** Applicant & 3<sup>rd</sup> Party Match (cash & in-kind) = \$55,735  
• 844% of the Basin Account request (meets 10% min)

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$6,600 from the South Platte Basin Account to help fund the project titled: Irrigation Water Return Flow Filter Strip.

**Water Activity Summary:** WSRF grant funds, if approved, will assist the Big Thompson Conservation District (BTCD) along with Colorado State University and Natural Resources Conservation Service demonstrate the effectiveness of using filter strips to agricultural and industrial entities, as well as other State and Federal agencies. The collaboration wishes to measure water quantity and quality entering the field where a filter strip has been planted to demonstrate the effectiveness and to actually identify the amount of nutrients, sediment and water that comes from several square miles above the river and enters into a growing grass filter. More specifically, WSRF funds will be expended to assist in the purchase of advertising, signage, an information kiosk, pamphlets, brochures, a video report, and to provide workshops that bring attention to their efforts and the resulting benefits.

**Discussion:** This effort will assist the South Platte Basin Roundtable achieve the goal to *Protect, Maintain, and Improve Conditions of Streams, Lakes, Wetlands, and Riparian Areas to Promote Self-Sustaining Fisheries and Functional Riparian and Wetland Habitat to Promote Long-Term Sustainability* as described in the South Platte Basin Implementation Plan in Section 1.9.7 Environmental and Recreational.

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

**Eligibility Requirements:** The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

**Evaluation Criteria:** This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to Basin Roundtable Chair's Recommendation Letter and the WSRF Grant Application for applicant's detailed response.

**Funding Summary/Matching Funds:**

<b><u>Funding Source</u></b>	<b><u>Cash</u></b>	<b><u>In-kind</u></b>	<b><u>Total</u></b>	<b><u>Status</u></b>
Big Thompson Conservation District	\$8,500	\$800	\$9,300	Secured
Lempka Farms LLC, Inc.	\$0	\$6,435	\$6,435	Pending
Colorado State University	\$25,000	\$15,000	\$40,000	Secured
Sub-total	\$33,500	\$22,235	\$55,735	
WSRF South Platte Basin Account	\$6,600	n/a	\$6,600	Secured
<b>Total Project Costs</b>	<b>\$40,100</b>	<b>\$22,235</b>	<b>\$62,335</b>	

**CWCB Project Manager:** Craig Godbout

South Platte Basin Roundtable  
Garrett Varra, Chair  
July 28, 2018

Craig Godbout  
Water Supply Planning Section  
Colorado Water Conservation Board  
1313 Sherman St., Room 718  
Denver, CO 80203

Re: Approval Recommendation for the Big Thompson Conservation District WSRF Grant Application: Irrigation Water Return Flow Filter Strip

Dear Mr. Godbout,

The South Platte Roundtable voted at its July 10, 2018 meeting, to approve a grant application for the "Irrigation Water Return Flow Filter Strip" proposed by the Big Thompson Conservation District. The Roundtable approved \$6,600 from the South Platte WSRF. There is no request for Statewide WSRF funding. The applicant's request for \$6,600 will be presented for consideration at the CWCB's August, 2018 board meeting.

The Roundtable underwent an evaluation and approval process, and believes this application meets the Threshold and Evaluation Criteria for the WSRF Grant Program and will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments. This request specifically recognizes that familiarity with the South Platte's water issues by regulatory agencies, elected officials, the business community, and the general public will bolster Colorado's ability to maintain sustainable water supplies.

As noted in the South Platte Basin Implementation Plan, Section 4.1.3: "The South Platte Basin is home to 80% of the State's population and accounts for 80% of the State's economy and tax base. It is an area with great diversity both economically and demographically that is facing 75% of the projected statewide municipal water supply gap. This Basin deserves and needs an intensive continued education, participation and outreach program designed to generate a lasting baseline of public awareness and support.

The grant will help bolster the efforts of Big Thompson Conservation District, with its partnership with Colorado State University to help disseminate educational materials through means of workshops, tours and published materials including current time data along with signage and video presentations of findings and applications. The South Platte Roundtable specifically asked the Big Thompson Conservation District to work closely with the Education Committee to support a focused and professional effort acknowledging local interests and defining local priorities, which can be replicated in other areas of the State.

This educational effort is a demonstration plot, based to further market the efforts to provide information that can be utilized by landowners, land managers and producers not only in agriculture, but industry as well to create a means to filter surface water to reduce sediment, nutrients and direct water entering waterways and riparian areas.

During the evaluation and approval process, there were no dissenting votes or opinions expressed and there was a quorum present.

This letter is intended to fulfill Threshold Criteria B (Part III 1.b. in the WSRF Application). The full WSRF Application will be provided separately by the applicant. Please let me know if you need any additional information. Thank you for your consideration.

Sincerely,



Garrett Varra, Chair  
South Platte Basin Roundtable