

Last Update: September 18, 2020

Colorado Water Conservation Board

Water Supply Reserve Fund Grant Application

Instructions

All WSRF grant applications shall conform to the current <u>2020 WSRF Criteria and Guidelines.</u>

To receive funding from the WSRF, a proposed water activity must be recommended for approval by a Roundtable(s) <u>AND</u> the approved by the Colorado Water Conservation Board (CWCB). The process for roundtable consideration and recommendation is outlined in the 2020 WSRF Criteria and Guidelines. The CWCB meets bimonthly.

If you have questions, please contact the WSRF Grant Program Manager (for all Roundtables) or your Roundtable Liaison:

Ben Wade <u>ben.wade@state.co.us</u> 303-866-3441 x3238 (office) Sam Stein Sam.stein@state.co.us 303-866-3441(office)

WSRF Submittal Checklist (Required)			
YES <u>X</u> NO	This request was recommended for CWCB approval by the sponsoring roundtable.		
YES <u>X</u> NO	I have read and understand the 2020 WSRF Criteria and Guidelines.		
YES <u>X</u> NC⊐	Grantee will be able to contract with CWCB using the <u>Standard Contract</u> . ¹		
	Application Documents included:		
YES <u>X</u> NO□	Exhibit A: Statement of Work ² (Word – see Template)		
YES <u>X</u> NO□	Exhibit B: Budget & Schedule ² (Excel Spreadsheet – see Template)		
YES <u>X</u> NO□	Letters of Matching and/or Pending 3 rd Party Commitments ²		
YES <u>X</u> NO□	Map ²		
YES <u>X</u> NO□	Photos/Drawings/Reports		
YES <u>X</u> NO□	Letters of Support		
	Contracting Documents ³		
YES NO	Detailed/Itemized Budget ³ (Excel Spreadsheet – see Template)		
YES¤ NO¤	Certificate of Insurance ⁴ (General, Auto, & Workers' Comp.)		
YES¤ NO¤	Certificate of Good Standing ⁽⁴⁾		
YES NO	W-9 Form ⁴		
YES NO	Independent Contractor Form ⁴ (If applicant is individual, not company/organization)		
YESD NOD	Electronic Funds Transfer (ETF) Form ⁴		

¹Click "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	October 1	Basin Account	
March	December 1	Basin/Statewide Account/Water Plan Grant Match ¹	
Мау	February 1	Basin Account	
July	April 1	Basin Account	
September	June 1	Basin/Statewide Account	
November	August 1	Basin Account	

¹ If either the basin or statewide match includes matching funds from a pending Water Plant Grant, both must be submitted by December 1st deadline for March Board meeting review.

Water Activity Summary			
Name of Applicant Northern Colorado		o Water Conservancy District (NCWCD)	
Name of Water Activity	Colorado Airborne Snow Observatory Expansion Plan		
Approving Roundtable(s)		Basin Account Request(s) ¹	
Arkansas Basin		\$5,000	
Colorado Basin		\$5,000	
Gunnison Basin		\$5,000	
Metro Basin		\$5,000	
South Platte Basin		\$5,000	
Basin Account Request Subtotal		\$25,000	
Basin Account Request Subtotal Approved by Roundtable		\$25,000	
Statewide Account Request ⁽¹⁾		\$20,000	
Total WSRF Funds Requested (Basin & Statewide)		\$45,000	
Total Project Costs		\$89,000	

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

	Grantee and Applicant Information
Name of Grantee(s)	Northern Colorado Water Conservancy District (NCWCD)



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	Grantee and Applicant Information
Mailing Address	220 Water Ave, Berthoud CO 80513
FEIN	84-6000204
Grantee's Organization Contact ¹	Bradley D. Wind, P.E.
Position/Title	General Manager
Email	bwind@northernwater.org
Phone	970-622-2320
Grant Management Contact ²	Emily Carbone
Position/Title	Water Resources Specialist
Email	ecarbone@northernwater.org
Phone	970-622-2224
Name of Applicant (if different than grantee)	Same as above
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).

Northern Water is a conservancy district that delivers water to municipal and agricultural entities, providing water to over a million people in northern Colorado. Northern Water jointly operates and maintains the Colorado-Big Thompson Project, a federally owned water project that delivers supplemental water to northeastern Colorado, with the Bureau of Reclamation. Northern Water also manages a variety of other water projects and infrastructure. In addition, Northern Water provides regional leadership through data collection and delivery (including water supply forecasts), water efficiency programs, source water protection and interagency cooperation.

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.	
Х	Public (Districts): authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises	
	Private Incorporated: mutual ditch companies, homeowners associations, corporations	



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Type of Eligible Entity (check one)		
	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	

Type of Water Activity (check one)

Study Implementation

Х

Category of Water Activity (check all that apply)			
х	Nonconsum	ptive (Environmental)	
х	Nonconsumptive (Recreational)		
х	Agricultural		
х	Municipal/Industrial		
	Needs Assessment		
х	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/Counties	Various, many along continental divide. See target watersheds here (map also included at end of document, Figure 1.): <u>https://arcg.is/0XX0uC</u>	
Latitude		
Longitude		

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.



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Water Activity Overview

Through pilot studies for Denver Water and in the Gunnison Basin, the Airborne Snow Observatories (ASO) has proven to be a powerful new tool for snowpack monitoring and operational water management decisions. To date, however, the ASO pilot projects in Colorado have been geographically scattered and lack consistent funding. A geographically expanded Colorado ASO program—with a consistent funding plan—will revolutionize water management in Colorado. There remain barriers, however, to widespread adoption and consistent funding of ASO. This project will address those barriers and provide a roadmap to an expanded, collaborative Colorado ASO program that is independent of annually-variable project funds.

Specifically, this project will demonstrate the value of an expanded ASO program, identify logical basin groups to fly each year and potential sustainable funding options, provide forecasted ASO costs, and provide presentation materials for reaching out to stakeholders to turn the roadmap into action. This detailed ASO expansion roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management.

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)		
	Efficiency Savings (indicate acre-feet/year OR dollars/year)		
	Area of Restored or Preserved Habitat (acres)		
	Length of Pipe/Canal Built or Improved (linear feet)		
X	Other	Explain: Until an expanded ASO flight program begins, it will be difficult to justify an exact number of acre-feet preserved or dollars saved. This plan, and the resulting ASO flights, will allow municipalities to make more informed decisions about water management which will lead to quantifiable savings down the line.	

Water Activity Justification

Provide a description of how this water activity supports the goals of <u>Colorado's Water Plan</u>, the most recent <u>Statewide Water Supply Initiative</u>, and the respective <u>roundtable Basin Implementation Plan and Education Action</u> <u>Plan</u>⁽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 2020 WSRF Criteria and Guidelines).



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Water Activity Justification

The Airborne Snow Observatories (ASO) uses paired airborne lidar and imaging spectrometer sensors coupled with a snow dynamics model to measure snow depth and albedo and retrieve Snow Water Equivalent (SWE, the liquid depth of water stored in the snowpack) across large river basins at a high spatial resolution (Figure 2). The resulting data provides high elevation snowpack measurements with detail, accuracy, and decision-support value unprecedented in water management (Figure 1). The added value of these measurements to the water community has been thoroughly demonstrated through a multitude of pilot flights in Colorado and California. For example, in a 2019 pilot flight series in the Blue River watershed with Denver Water—during a time when the SNOTEL stations in the watershed had melted out—ASO data provided an accurate volume estimate of 115,000AF of water remaining in the high elevations (Figure 3). This provided Denver Water's operations manager the information needed to accurately reduce Dillon Reservoir levels to account for the incoming runoff, which in turn allowed downstream reservoir operators and other Colorado River reservoir operators to re-time outflows and cancel Coordinated Reservoir Operations (CROS) that could have otherwise led to downstream flooding and lost water supply.

Expanding ASO data collection to cover municipal source water basins on both sides of the continental divide, and throughout the state (see map in figure 3), would apply a proven value-added method to maximizing use of water supplies. Having accurate knowledge of the volume of the water stored in the snowpack in these headwaters provides water managers the information needed to remove much of the "guesswork" from operations decisions. This allows reservoir storage to be maximized, optimizes flood control preparations, and provides environmental and recreation managers and agricultural producers more accurate information on the quantity and timing of water that will be sent downstream. It will also allow operations managers to make more informed decisions regarding their management of transbasin diversions. The provision of detailed and accurate ASO snowpack data in the years to come will form the foundation for a future that optimizes the use of native supplies for the benefit of multiple parties throughout the state. Further, these data will be invaluable in the planning and operation of future water infrastructure projects.

Rather than building new mountain storage, this project aims to optimize the use and knowledge of existing supplies. This project promotes collaboration across municipal water providers and will provide a mutually beneficial data product. This project aligns with these actions identified in section H of the Colorado Water Plan (Summary of Actions).

6.1.3 Scenario Planning & Developing an Adaptive Water Strategy - Promote use of scenario planning and adaptive strategies

6.1.5 Scenario Planning & Developing an Adaptive Water Strategy - Support innovative and collaborative science.

6.2 Meeting Colorado's Water Gaps through the development of municipal partnerships

6.5.7 Municipal, Industrial, and Agricultural Infrastructure Projects and Methods – Storage Opportunity Assessment.

7.1.10 Watershed Health and Management - Coordinate statewide watershed-coalition and partnership plans, projects, monitoring, and adaptive management strategies

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



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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 <u>2020 WSRF Criteria and Guidelines</u> (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)
See following Statewide account requests	
Total Match	\$
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 <u>2020 WSRF Criteria and Guidelines</u>. At least of 10% of the required Statewide Account Grant request match shall be cash from Basin Account funds whether that is from one or multiple basins; and the remaining 40% of the required match may be provided from any source, including other grants, cash from the Basin Account, or any combination of cash, in-kind services, or in-kind materials.and shall be accompanied by a **letter of commitment**. Attach additional sheet if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind):
Northern Water	\$5,000 (in kind)
Denver Water	\$10,000 (in kind)
Airborne Snow Observatories, Inc.	\$5,000 (in kind)
Collaborative Workgroup (Colorado Springs Utilities, City of Aspen, City of Fort Collins, Colorado River District, City of Boulder, City of Greeley, Thornton Water, Pueblo Water, Eagle River Water & Sanitation District, Aurora Water, City of Westminster, and the Ruedi Water and Power Authority)	\$24,000 (in kind)
WSRF - Arkansas Basin Account	\$5,000 (cash)
WSRF - Colorado Basin Account	\$5,000 (cash)
WSRF - South Platte Basin Account	\$5,000 (cash)



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Matching Requirements: Statewide Account Requests				
WSRF - Metro Basin Account	\$5,000 (cash)			
WSRF – Gunnison Basin Account	\$5,000 (cash)			
Total Match	\$69,000			
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.

The ASO program has been active in Colorado since 2013, with numerous science, applied science, and operations support efforts. The following list details ASO activity in CO to-date and planned, along with funding source and application:

- Uncompany River above Ridgway Reservoir; 1-4 flights per year 2013-2017 NASA Terrestrial Hydrology Program, Science support
- Grand Mesa; NASA Terrestrial Hydrology Program, Science support
- Rio Grande and Conejos Rivers; 1-2 flights per year 2015-2016, 2 flights planned in Conejos 2021 CWCB Rio Grande Forecast Improvement Project; Applied science support
- Upper Gunnison River (East and Taylor Rivers); 1-2 flights per year 2016, 2018-2019 Dept. of Energy East River Watershed Function Scientific Focus Area, Science support CWCB Project funds, Applied science
- Blue River above Dillon Reservoir, 2 flights 2019, 2 flights planned 2021 Denver Water, Operations support
- Animas River above Durango; 2 flights planned 2021 CWCB Project funds, Operations support
- Pinos River above Vallecito Reservoir; 2 flights planned 2021 CWCB Project funds, Operations support
- Dolores River above McPhee Reservoir; 2 flights planned 2021 CWCB Project funds, Operations support



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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

Colorado River Connectivity Channel Project (previously called Windy Gap Bypass Project)

- Applicant: Windy Gap Water Activity Enterprise (Municipal Subdistrict, Northern Colorado Water Conservancy District)
- Water Plan Grant (CMS 162919, CTGG1 2021-2091) issued in July 2020.
- The state legislature appropriated \$2.2 million from the severance tax perpetual base fund for the CWCB to make a grant to the Municipal Subdistrict for this Project (see §39-29-109(2)(a)(I.5)(XII) C.R.S.).

Species Trust Grant – To Help with 2013 Flood Damage for the Heyborne Project

- Sub-award between Northern Colorado Water Conservancy District and Ducks Unlimited, Inc.
- CMS 67152
- Issued July 2014

Emergency Flood Recovery Assessment, Design, and Recovery

- Applicant: Northern Colorado Water Conservancy District
- Funding Source: Water Supply Reserve Account, South Platte Basin Roundtable
- CMS 62427
- Issued in October 2013

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.

N/A



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Figure 1. Map Showing Headwater basins of partner water providers throughout the South Platte, Colorado, and Arkansas basins. A phased implement plan will be developed to build-up to annual flights in these and other priority watersheds (For more information, please see Attachment A, Task 4). This map is available here: https://arcg.is/0XX0uC



Colorado Airborne Snow Observatory Expansion Plan Target Watersheds

0 15 30 60 mi 1.2,311,162 0 15 30 60 mi 1.2,311,162 0 20 40 80 km

Esri, USGS, Esri, HERE, Gampin, FAO, NOAA, USGS, Bureau of Land



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Figure 2. Lidar imagery of 3-meter resolution snow depth in the Maroon Bells.





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Figure 3. ASO snow water equivalent for April and June (2019) from 9000-14,200 ft. elevation for the Blue River watershed. The elevation of the SNOTEL stations demonstrates that ASO captures the high-elevation snowpack data that the SNOTELS miss.





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Water Supply Reserve Fund Water Activity Summary Sheet March 10-11, 2021 Consent Agenda Item 2(a)					
Applicant & Grantee:	Northern Colorado Water Conservancy District				
Water Activity Name:	Colorado Airborne Snow Observatory Expansion Plan				
Water Activity Purpose:	Agricultural, Education/Outreach, Municipal/Industrial, Nonconsumptive (Environmental & Recreational) - Study				
County:	Multiple counties in listed Basins				
Drainage Basin:	Arkansas, Colorado, Gunnison, South Platte				
Water Source:	Multiple sources in each River Basin				
Amount Requested:	\$5,000 Arkansas Basin Account \$5,000 Colorado Basin Account \$5,000 Gunnison Basin Account \$5,000 Metro Basin Account \$5,000 South Platte Basin Account <u>\$20,000 Statewide Account</u> \$45,000 Total Request				
Matching Funds:	 Basin Account Match = \$25,000 125% of statewide request (meets 10% min) Applicant & 3rd Party Match (in-kind) = \$44,000 220% of the statewide request (meets 10% min) Total Match (Basin request & Applicant Match) = \$69,000 347% of the statewide request (meets 50% min) 				

Staff Recommendation:

Staff recommends approval of up to \$5,000 from the Arkansas, Colorado, Gunnison, Metro & South Platte Basin Accounts and up to \$20,000 from the Statewide Account to help fund the project: Colorado Airborne Snow Observatory Expansion Plan

Water Activity Summary: Through pilot studies for Denver Water and in the Gunnison Basin, the Airborne Snow Observatories (ASO) has proven to be a powerful new tool for snowpack monitoring and operational water management decisions. To date, the ASO pilot projects in Colorado have been geographically scattered and lack consistent funding. A geographically expanded Colorado ASO program—with a consistent funding plan—will revolutionize water management in Colorado. There remain barriers, however, to widespread adoption and consistent funding of ASO. If approved, WSRF funds will assist in addressing those barriers and provide a roadmap to an expanded, collaborative Colorado ASO program that is independent of annually-variable project funds.

The applicant believes this project will demonstrate the value of an expanded ASO program, identify logical basin groups to fly each year and potential sustainable funding options, provide forecasted ASO costs, and provide presentation materials for reaching out to stakeholders to turn the roadmap into action. The applicants believes a detailed ASO expansion roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management.

Discussion: This effort will assist meeting Basin Roundtable goals as well as aligning with actions identified in Section H of the Water Plan.

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

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
Northern Water	\$0	\$5,000	\$5,000	Secured
Denver Water	\$0	\$10,000	\$10,000	Secured
Airborne Snow Observatories, Inc.	\$0	\$5,000	\$5,000	Secured
Collaborative Workgroup (Colorado Springs Utilities, City of Aspen, City of Fort Collins, Colorado River District, City of Boulder, City of Greeley, Thornton Water, Pueblo Water, Eagle River Water & Sanitation District, Aurora Water, City of Westminster, and the Ruedi Water and Power Authority)	\$0	\$24,000	\$24,000	Secured
Sub Total Matching Funds	\$0	\$44,000	\$44,000	
WSRF Arkansas Basin Account	\$5,000	\$0	\$5,000	Secured
WSRF Colorado Basin Account	\$5,000	\$0	\$5,000	Secured
WSRF Gunnison Basin Account	\$5,000	\$0	\$5,000	Secured
WSRF Metro Basin Account	\$5,000	\$0	\$5,000	Secured
WSRF South Platte Basin Account	\$5,000	\$0	\$5,000	Secured
WSRF Statewide Account	\$20,000	\$0	\$20,000	
Sub Total WSRF Funds	\$45,000	\$0	\$45,000	
Total Project Costs	\$45,000	\$44,000	\$89,000	

CWCB Project Manager: Erik Skeie

Arkansas Basin Roundtable

November 20, 2020

Via Electronic Mail: sam.stein@state.co.us

Mr. Sam Stein Colorado Water Conservation Board 1313 Sherman Street, Room 721 Denver, CO 80203

Re: Water Supply Reserve Fund Grant Application: Northern Colorado Water Conservancy District (NCWCD) Colorado Airborne Snow Observatory (ASO) Expansion Plan

Dear Sam:

At its November 11, 2020 meeting, the Arkansas Basin Roundtable (ABRT) approved support of the Northern Colorado Water Conservancy District (NCWCD) Colorado Airborne Snow Observatory Expansion Plan grant application for \$5,000 of Arkansas Basin Roundtable funding to support this multi-basin water supply project.

The Airborne Snow Observatory (ASO) has proven to be a powerful new tool for snowpack monitoring and operational water management decision support. A geographically expanded Colorado ASO program will revolutionize water management in Colorado. This project will address barriers, provide a roadmap to an expanded, collaborative Colorado ASO program independent of annually-variable project funds, identify logical basin groups to fly each year and potential sustainable funding options, and unite water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management.

This project fully supports the Colorado Water Plan and aligns with actions identified in multiple parts of section H of the Colorado Water Plan: 6.1.3 Scenario Planning & Developing an Adaptive Water Strategy - Promote use of scenario planning and adaptive strategies; 6.1.5 Scenario Planning & Developing an Adaptive Water Strategy - Support innovative and collaborative science; 6.2 Meeting Colorado's Water Gaps through the development of municipal partnerships; 6.5.7 Municipal, Industrial, and Agricultural Infrastructure Projects and Methods – Storage Opportunity Assessment; and 7.1.10 Watershed Health and Management - Coordinate statewide watershed-coalition and partnership plans, projects, monitoring, and adaptive management strategies.

The ABRT approved supporting this application by consensus and there were no dissenting views. Should you have any questions or concerns, please feel free to contact me either by telephone, 719-668-8028, or by email, mshea@csu.org.

MD Shea

Mark Shea, Chair

Copy via email: Applicant; Abby Ortega, Needs Assessment Chair

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

November 23, 2020

Ben Wade Colorado Water Conservation Board 1313 Sherman St., Room 721 Denver, CO 80203

Re: Colorado Basin Roundtable support for WSRF Basin and WSRF State grants for Northern Water's Colorado Airborne Snow Observatory Expansion Plan Project

Dear Ben,

At our November 23rd meeting, the Colorado Basin Roundtable voted to approve a Colorado Basin Roundtable WSRF Grant of \$5,000 and to support a State WSRF Grant for Northern Water's *Colorado Airborne Snow Observatory Expansion Plan Project*. This project will develop a roadmap for creating a sustainable Airborne Snow Observatory (ASO) flight program in Colorado that would ultimately benefit multiple basins and a diverse group of water stakeholders. The result of the project will be a comprehensive planning document that shows the costs and benefits of ASO, as well as a conceptual roadmap for available funding streams and how to make ASO sustainable over the long term. This plan, and the funding roadmap, will be presented at various outreach events including basin roundtables and water conferences.

Northern Water's WSRF application meets the Colorado Basin Roundtable WSRF Guidelines and WSRF Grant Program Criteria. Additionally, this project will help advance the Colorado Basin Implementation Plan. Having accurate knowledge of the volume of the water stored in the snowpack in the Colorado Basin and neighboring basins provides water managers the information needed to remove much of the "guesswork" from operations decisions. The provision of detailed and accurate ASO snowpack data in the years to come will form the foundation for a future that optimizes the use of Colorado Basin supplies for the benefit of multiple parties in the basin. Further, these data will be invaluable in the planning and operation of future water infrastructure projects in the Basin.

Upon review and consideration of Northern Water's proposal, the Colorado Basin Roundtable unanimously voted to approve the full \$5,000 of Colorado Basin WSRF funds requested by the applicant and to support their State WSRF Grant application.

Regards,

Jason V. Turner, Chair

November 20, 2020

Kevin Reidy Colorado Water Conservation Board 1313 Sherman St., Room 721 Denver, CO 80203

Re: Gunnison Basin Roundtable support for WSRF Basin and WSRF State grants for Northern Water's Colorado Airborne Snow Observatory Expansion Plan Project

Dear Kevin,

At our November 16th meeting, the Gunnison Basin Roundtable voted to approve a Gunnison Basin Roundtable WSRF Grant of \$5,000 and to support a State WSRF Grant for Northern Water's *Colorado Airborne Snow Observatory Expansion Plan Project*. This project will develop a roadmap for creating a sustainable Airborne Snow Observatory (ASO) flight program in Colorado that would ultimately benefit multiple basins and a diverse group of water stakeholders. The project team has assembled a unique water stakeholder workgroup from across Colorado to provide a range of valuable perspectives for how to best establish a sustainable Colorado ASO program and to plan optimal data collection zones throughout Colorado. The result of the project will be a comprehensive planning document that shows the costs and benefits of ASO, as well as a conceptual roadmap for available funding streams and how to make ASO sustainable over the long term. This plan, and the funding roadmap, will be presented at various outreach events including basin roundtables and water conferences.

Northern Water's WSRF application fully meets the Gunnison Basin Roundtable WSRF Guidelines and WSRF Grant Program Criteria. Additionally, this project will help advance the Gunnison Basin Implementation Plan. Having accurate knowledge of the volume of the water stored in the snowpack in the Gunnison Basin and neighboring basins provides water managers the information needed to remove much of the "guesswork" from operations decisions. The provision of detailed and accurate ASO snowpack data in the years to come will form the foundation for a future that optimizes the use of Gunnison Basin supplies for the benefit of multiple parties in the basin. Further, these data will be invaluable in the planning and operation of future water infrastructure projects in the Basin.

Upon review and consideration of Northern Water's proposal, the Gunnison Basin Roundtable unanimously voted to approve the full \$5,000 of Gunnison Basin WSRF funds requested by the applicant and to support their State WSRF Grant application.

Sincerely,

Kathleen Curry

Kathleen Curry, Chair Gunnison Basin Roundtable November 18, 2020

Ben Wade Colorado Water Conservation Board 1313 Sherman St., Room 721 Denver, CO 80203

Re: Metro Basin Roundtable support for WSRF Basin and WSRF State grants for Northern Water's *Colorado Airborne Snow Observatory Expansion Plan Project*

Dear Ben,

At our November 12th meeting, the Metro Roundtable voted to approve a Metro Basin Roundtable WSRF Grant of \$5,000 and to support a State WSRF Grant of \$20,000 for Northern Water's *Colorado Airborne Snow Observatory Expansion Plan Project*. This project will develop a roadmap for creating a sustainable Airborne Snow Observatory (ASO) flight program in Colorado that would ultimately benefit multiple basins and a diverse group of water stakeholders. The project team has assembled a unique water stakeholder workgroup from across Colorado to provide a range of valuable perspectives for how to best establish a sustainable Colorado ASO program and to plan optimal data collection zones throughout Colorado. The result of the project will be a comprehensive planning document that shows the costs and benefits of ASO, as well as a conceptual roadmap for available funding streams and how to make ASO sustainable over the long term. This plan, and the funding roadmap, will be presented at various outreach events including basin roundtables and water conferences.

Northern Water's WSRF application fully meets the Metro Basin Roundtable WSRF Guidelines and the CWCB's WSRF Grant Program Criteria. Additionally, this project will help advance the South Platte Basin Implementation Plan. Having accurate knowledge of the volume of the water stored in the snowpack in the South Platte Basin and neighboring basins provides water managers the information needed to remove much of the "guesswork" from operations decisions. The provision of detailed and accurate ASO snowpack data in the years to come will form the foundation for a future that optimizes the use of native South Plate Basin supplies for the benefit of multiple parties in the basin. Further, these data will be invaluable in the planning and operation of future water infrastructure projects in the Basin.

Upon review and consideration of Northern Water's proposal, the Metro Roundtable unanimously voted to approve the full \$5,000 of Metro Basin WSRF funds requested by the applicant and to support their \$20,000 State WSRF Grant application.

nant

Barbara Biggs, Chair Metro Roundtable

November 23, 2020

Ben Wade Colorado Water Conservation Board 1313 Sherman St., Room 721 Denver, CO 80203

Re: South Platte Basin Roundtable support for WSRF Basin and WSRF State grants for Northern Water's Colorado Airborne Snow Observatory Expansion Plan Project

Dear Ben,

At our November 10th meeting, the South Platte Basin Roundtable unanimously voted to approve a South Platte Basin Roundtable WSRF Grant of \$5,000 and to support a State WSRF Grant for Northern Water's *Colorado Airborne Snow Observatory Expansion Plan Project*. This project will develop a roadmap for creating a sustainable Airborne Snow Observatory (ASO) flight program in Colorado that would ultimately benefit multiple basins and a diverse group of water stakeholders. The project team has assembled a unique water stakeholder workgroup from across Colorado to provide a range of valuable perspectives for how to best establish a sustainable Colorado ASO program and to plan optimal data collection zones throughout Colorado. The result of the project will be a comprehensive planning document that shows the costs and benefits of ASO, as well as a conceptual roadmap for available funding streams and how to make ASO sustainable over the long term. This plan, and the funding roadmap, will be presented at various outreach events including basin roundtables and water conferences.

Northern Water's WSRF application fully meets the South Platte Basin Roundtable WSRF Guidelines and WSRF Grant Program Criteria. Additionally, this project will help advance the South Platte Basin Implementation Plan. Having accurate knowledge of the volume of the water stored in the snowpack in the South Platte Basin and neighboring basins provides water managers the information needed to remove much of the "guesswork" from operations decisions. The provision of detailed and accurate ASO snowpack data in the years to come will form the foundation for a future that optimizes the use of native South Plate Basin supplies for the benefit of multiple parties in the basin. Further, these data will be invaluable in the planning and operation of future water infrastructure projects in the Basin.

Upon review and consideration of Northern Water's proposal, the South Platte Basin Roundtable unanimously voted to approve the full \$5,000 of South Platte Basin WSRF funds requested by the applicant and to support their State WSRF Grant application.

Garrett Varra, Chair South Platte Basin Roundtable



Northern Colorado Water Conservancy District 220 Water Avenue • Berthoud, Colorado 80513 800-369-7246 • www.northernwater.org

October 22, 2020

The proposed Colorado Airborne Snow Observatory (ASO) Expansion Plan roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management.

Additionally, we recognize that a robust and financially sustainable ASO program will have benefits far beyond the municipal sector. The agricultural, recreation, environmental, and industrial sectors will all see benefits from the added accuracy of snowpack measurement from ASO.

This project is a relatively low-cost project yet has the potential for substantial water management benefits. Developing a sustainable and geographically expansive ASO program in Colorado will have mutual benefits across multiple basins, and this project will provide a roadmap to make such a program a reality.

Northern Water, like many water providers and other stakeholders, will benefit greatly from this project. ASO data will increase the accuracy of water supply forecasts that water managers depend on. This will result in more efficient water use in the Colorado-Big Thompson Project and in water systems statewide.

Notably, the in-kind municipal partners on this project represent multiple basins and span both sides of the Continental Divide, which demonstrates that this project will contribute to statewide relationship building.

Northern Water will contribute \$5,000 of in-kind support to the ASO Expansion Plan project if funding is awarded by CWCB. Our participation will include activities such as contracting, assisting with project coordination, participating in monthly stakeholder meetings and providing GIS data.

Sincerely,

DocuSigned by:

General Manager Northern Water



October 15, 2020

RE: Letter of In-Kind Support for Coordinated ASO

Denver Water would like to express our support for the Colorado Airborne Snow Observatory (ASO) Expansion Plan application being submitted to various basin roundtables for funding under the Water Supply Reserve Fund (WSRF) grant program. This project is relatively low-cost, yet has the potential for substantial water management benefits. Developing a sustainable and geographically expansive ASO program in Colorado will have mutual benefits across multiple basins, and this project will provide a roadmap to make such a program a reality.

The proposed ASO expansion roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management. Additionally, we recognize that a robust and financially sustainable ASO program will have benefits far beyond the municipal sector. The agricultural, recreation, environmental, and industrial sectors will all see benefits from the added accuracy of snowpack measurement from ASO.

Notably, the in-kind municipal partners on this project represent multiple basins and span both sides of the Continental Divide, which demonstrates that this project will contribute to statewide relationship building.

We fully support this plan and will offer in-kind support of \$10,000. Our participation will include activities such as project coordination, organizing and participating in monthly stakeholder meetings, providing and analyzing GIS data, and developing and synthesizing stakeholder input. If you have any questions, please contact me at 303-880-6636 or laurna.kaatz@denverwater.org.

hmp

Laurna Kaatz Climate Program Manager Denver Water



October 15, 2020

RE: Letter of In-Kind Support for Coordinated ASO

Airborne Snow Observatories, Inc. would like to express our support for the Colorado Airborne Snow Observatory (ASO) Expansion Plan application being submitted to various basin roundtables for funding under the Water Supply Reserve Fund (WSRF) grant program. This project is relatively low-cost, yet has the potential for substantial water management benefits. Developing a sustainable and geographically expansive ASO program in Colorado will have mutual benefits across multiple basins, and this project will provide a roadmap to make such a program a reality.

The proposed ASO expansion roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management. Additionally, we recognize that a robust and financially sustainable ASO program will have benefits far beyond the municipal sector. The agricultural, recreation, environmental, and industrial sectors will all see benefits from the highly accurate snowpack measurements from ASO.

Notably, the in-kind municipal partners on this project represent multiple basins and span both sides of the Continental Divide, which demonstrates that this project will contribute to statewide relationship building.

We fully support this plan and will offer in-kind support of \$5,000. Our participation will include providing strategic and technical advising, as well as sample data and existing case studies. If you have any questions, please contact me at 206-465-8783 or jeffrey.s.deems@airbornesnowobservatories.com

Jeffrey S Deems Co-Founder | Chief Technical Officer-Hardware | Formulation Lead Airborne Snow Observatories, Inc.



Utilities electric · stormwater · wastewater · water PO Box 580 Fort Collins, CO 80522

970.221-6700 970.221.6619 fax • V/TDD: 711 utilities @fcgov.com fcgov.com/utilities

October 19, 2020

Fort Collins Utilities would like to express our support for the Colorado Airborne Snow Observatory (ASO) Expansion Plan application being submitted to various basin roundtables for funding under the Water Supply Reserve Fund (WSRF) grant program. This project is relatively low-cost, yet has the potential for substantial water management benefits. Developing a sustainable and geographically expansive ASO program in Colorado will have mutual benefits across multiple basins, and this project will provide a roadmap to make such a program a reality.

The proposed ASO expansion roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management.

Additionally, we recognize that a robust and financially sustainable ASO program will have benefits far beyond the municipal sector. The agricultural, recreation, environmental, and industrial sectors will all see benefits from the added accuracy of snowpack measurement from ASO.

Notably, the in-kind municipal partners on this project represent multiple basins and span both sides of the Continental Divide, which demonstrates that this project will contribute to statewide relationship building.

We fully support this plan and will offer in-kind support to help the implementing group gather the information they need and answer the questions we have.

Sincerely,

Meagan Smith Water Resources Engineer Water Resources Division Fort Collins Utilities



October 21, 2020

To whom it may concern:

City of Boulder would like to express its support for the Colorado Airborne Snow Observatory (ASO) Expansion Plan application being submitted to various basin roundtables for funding under the Water Supply Reserve Fund (WSRF) grant program. This project is relatively low-cost yet has the potential for substantial water management benefits. As a specific example, the City of Boulder is investigating tools such as snowpack measurement and ASO data to incorporate into its annual water supply assessment and drought response. Developing a sustainable and geographically expansive ASO program in Colorado will have mutual benefits across multiple basins, and this project will provide a roadmap to make such a program a reality.

The proposed ASO expansion roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management.

Additionally, we recognize that a robust and financially sustainable ASO program will have benefits far beyond the municipal sector. The agricultural, recreation, environmental, and industrial sectors will all see benefits from the added accuracy of snowpack measurement from ASO.

Notably, the in-kind municipal partners on this project represent multiple basins and span both sides of the Continental Divide, which demonstrates that this project will contribute to statewide relationship building.

We fully support this plan and will offer in-kind support to help the implementing group gather the information they need and answer the questions we have.

Him Hullon

Kim Hutton Water Resources Manager City of Boulder



October 14, 2020

To Whom It May Concern:

The City of Westminster would like to express our support for the Colorado Airborne Snow Observatory (ASO) Expansion Plan application being submitted to various basin roundtables for funding under the Water Supply Reserve Fund (WSRF) grant program. This project is relatively low-cost, yet has the potential for substantial water management benefits. Developing a sustainable and geographically expansive ASO program in Colorado will have mutual benefits across multiple basins, and this project will provide a roadmap to make such a program a reality.

The proposed ASO expansion roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management.

Additionally, we recognize that a robust and financially sustainable ASO program will have benefits far beyond the municipal sector. The agricultural, recreation, environmental, and industrial sectors will all see benefits from the added accuracy of snowpack measurement from ASO.

Notably, the in-kind municipal partners on this project represent multiple basins and span both sides of the Continental Divide, which demonstrates that this project will contribute to statewide relationship building.

We fully support this plan and will offer in-kind support to help the implementing group gather the information they need and answer the questions we have.

Sincerely,

DocuSigned by: Maz E. Kirschbaum

-59330DBBF0B7466... Max E. Kirschbaum Director of Public Works and Utilities Water Resources 15151 E. Alameda Pkwy., Ste3600 Aurora, CO 80022 303-739-7370



Worth Discovering • auroragov.org

October 19, 2020

To Whom it May Concern:

Aurora Water would like to express our support for the Colorado Airborne Snow Observatory (ASO) Expansion Plan application being submitted to various basin roundtables for funding under the Water Supply Reserve Fund (WSRF) grant program. This project is relatively low-cost yet has the potential for substantial water management benefits. Developing a sustainable and geographically expansive ASO program in Colorado will have mutual benefits across multiple basins, and this project will provide a roadmap to make such a program a reality.

The proposed ASO expansion roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management.

Additionally, we recognize that a robust and financially sustainable ASO program will have benefits far beyond the municipal sector. The agricultural, recreation, environmental, and industrial sectors will all see benefits from the added accuracy of snowpack measurement from ASO.

Notably, the in-kind municipal partners on this project represent multiple basins and span both sides of the Continental Divide, which demonstrates that this project will contribute to statewide relationship building.

We fully support this plan and will offer in-kind support to help the implementing group gather the information they need and answer the questions we have.

Richard Vidman

Richard A. Vidmar, P.E. Integrated Basin and Ecosystems Services Manager Aurora Water rvidmar@auroragov.org



October 19, 2020

Colorado Springs Utilities would like to express our support for the Colorado Airborne Snow Observatory (ASO) Expansion Plan application being submitted to various basin roundtables for funding under the Water Supply Reserve Fund (WSRF) grant program. This project is relatively low-cost, yet has the potential for substantial water management benefits. Developing a sustainable and geographically expansive ASO program in Colorado will have mutual benefits across multiple basins, and this project will provide a roadmap to make such a program a reality.

The proposed ASO expansion roadmap is key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management.

Additionally, we recognize that a robust and financially sustainable ASO program will have benefits far beyond the municipal sector. The agricultural, recreational, environmental, and industrial sectors will all see planning benefits from the added accuracy of snowpack measurement from ASO.

Notably, the in-kind municipal partners on this project represent multiple basins and span both sides of the Continental Divide, which demonstrates that this project will contribute to statewide relationship building.

We fully support this plan and will offer in-kind support to help the implementing group gather the information they need and answer the questions we have.

Sincerely,

Kalsoum Abbasi, P.E. Planning Supervisor, Water Conveyance Colorado Springs Utilities

1521 South Hancock Expressway P.O. Box 1103, Mail Code 1825 Colorado Springs, CO 80947-1825

Phone 719-668-8758 kabbasi@csu.org



October 15, 2020

The Board of Water Works of Pueblo (Pueblo Water) would like to express our support for the Colorado Airborne Snow Observatory (ASO) Expansion Plan application being submitted to various basin roundtables for funding under the Water Supply Reserve Fund (WSRF) grant program. This project is relatively low-cost yet has the potential for substantial water management benefits. Developing a sustainable and geographically expansive ASO program in Colorado will have mutual benefits across multiple basins, and this project will provide a roadmap to make such a program a reality.

The proposed ASO expansion roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management. Additionally, we recognize that a robust and financially sustainable ASO program will have benefits far beyond the municipal sector. The agricultural, recreation, environmental, and industrial sectors will all see benefits from the added accuracy of snowpack measurement from ASO. Notably, the in-kind partners on this project represent multiple basins and span both sides of the Continental Divide, which demonstrates that this project will contribute to statewide relationship building.

We fully support this plan and will offer in-kind support to help the implementing group gather the information they need to implement the program.

Seth J. Clayton Executive Director



Infrastructure Maintenance Center 12450 Washington Street Thornton, CO 80241-2405 Water Resources Division 720-977-6600 FAX 720-977-6202 www.thorntonco.gov

October 16, 2020

The city of Thornton would like to express its support for the Colorado Airborne Snow Observatory (ASO) Expansion Plan application submittal to various basin roundtables for funding under the Water Supply Reserve Fund (WSRF) grant program.

This project is relatively low-cost, yet has the potential for substantial water management benefits. Developing a sustainable and geographically expansive ASO program in Colorado will have mutual benefits across multiple basins and this project will provide a roadmap to make such a program a reality.

The proposed ASO expansion roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management.

Additionally, Thornton recognizes that a robust and financially sustainable ASO program will have benefits far beyond the municipal sector. The agricultural, recreation, environmental, and industrial sectors will all see benefits from the added accuracy of snowpack measurement from ASO.

Notably, the in-kind municipal partners on this project represent multiple basins and span both sides of the Continental Divide, which demonstrates that this project will contribute to statewide relationship building.

Thornton fully supports this plan and will offer in-kind support to help the implementing group gather the information they need.

Sincerely,

DocuSigned by: ant En37PP&F1#P01P4te

Deputy Infrastructure Director, City of Thornton

EH/sl

October 15, 2020



The City of Aspen Water Department would like to express our support for the Colorado Airborne Snow Observatory (ASO) Expansion Plan application being submitted to various basin roundtables for funding under the Water Supply Reserve Fund (WSRF) grant program. This project is relatively low-cost, yet has the potential for substantial water management benefits. Developing a sustainable and geographically expansive ASO program in Colorado will have mutual benefits across multiple basins, and this project will provide a roadmap to make such a program a reality.

The proposed ASO expansion roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management.

Additionally, we recognize that a robust and financially sustainable ASO program will have benefits far beyond the municipal sector. The agricultural, recreation, environmental, and industrial sectors will all see benefits from the added accuracy of snowpack measurement from ASO.

Notably, the in-kind municipal partners on this project represent multiple basins and span both sides of the Continental Divide, which demonstrates that this project will contribute to statewide relationship building.

We fully support this plan and will offer in-kind support to help the implementing group gather the information they need and answer the questions we have.

Sincerely,

Steve Hunter, PE, PH Utility Resource Manager City of Aspen Water Department steve.hunter@cityofaspen.com



City of Greeley 1001 11th Avenue Greeley, CO 80631

October 15, 2020

To Whom It May Concern,

The City of Greeley would like to express our support for the Colorado Airborne Snow Observatory (ASO) Expansion Plan application being submitted to various basin roundtables for funding under the Water Supply Reserve Fund (WSRF) grant program. This project is relatively low-cost, yet has the potential for substantial water management benefits. Developing a sustainable and geographically expansive ASO program in Colorado will have mutual benefits across multiple basins, and this project will provide a roadmap to make such a program a reality.

The proposed ASO expansion roadmap is the key to overcoming challenges in uniting water partners throughout Colorado to develop a sustainable ASO program that aligns with Colorado's tradition of being an internationally recognized leader in water management.

Additionally, we recognize that a robust and financially sustainable ASO program will have benefits far beyond the municipal sector. The agricultural, recreation, environmental, and industrial sectors will all see benefits from the added accuracy of snowpack measurement from ASO.

Notably, the in-kind municipal partners on this project represent multiple basins and span both sides of the Continental Divide, which demonstrates that this project will contribute to statewide relationship building. We fully support this plan and will offer in-kind support to help the implementing group gather the information they need and answer the questions we have.

Sean Chambers Water and Sewer Director



October 20, 2020

To whom it may concern:

The Colorado River District is providing this letter as a sign of support for the Colorado Airborne Snow Observatory (ASO) Expansion Plan application being submitted to various basin roundtables for funding under the Water Supply Reserve Fund (WSRF) grant program.

We believe this proposal will provide significant water management benefits by developing a sustainable, high resolution data collection program that could extend across multiple basins. This proposal will develop a roadmap to help bring this initiative to fruition.

Development of new data and tools is the key to overcoming water supply and demand challenges in Colorado. Additionally, this will help unite water managers throughout Colorado while developing a state-of-the-art system that is consistent with Colorado's approach of being a leader in natural resource management.

To successfully provide multi-sector benefits, it is recognized that a regional data collection effort, like ASO, is expensive and therefore requires robust funding support. This proposed investment will support modeling and forecasting tools that benefit agricultural, recreational, environmental, and industrial sectors, spanning both sides of the Continental Divide, further contributing to statewide relationship building.

In conclusion, the Colorado River District supports the ASO Expansion Plan proposal. To the extent possible, we will provide in-kind support to the project through participation in the steering and implementing group and by providing technical assistance.

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Andrew A. Mueller General Manager