

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 15-16, 2021
Consent Agenda Item 2(a)**

Applicant & Grantee: Pikes Peak Regional Water Authority
Water Activity Name: Regional Reuse Study
Water Activity Purpose: Municipal/Industrial and Other - Study
County: El Paso County
Drainage Basin: Arkansas River
Water Source: Fountain & Monument Creek Basins
Amount Requested: \$7,500 Arkansas Basin Account
\$7,500 Metro Basin
\$38,000 Statewide Account
\$53,000 Total Request

Matching Funds: **Basin Account Match = \$15,000**
• 39.4% of statewide request (meets 10% min)
Applicant & 3rd Party Match = \$80,000 (cash)
• 210.5% of the statewide request (meets 10% min)
Total Match (Basin request & Applicant Match) = \$95,000
• 250% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$7,500 from the Arkansas Basin Account, up to \$7,500 from the Metro Basin Account and up to \$38,000 from the Statewide Account to help fund the project: Regional Reuse Study

Water Activity Summary: The objective of the “Regional Reuse Study” is to identify key conveyance, storage and delivery infrastructure and management concepts and provide cost estimates for, regional reuse projects that could maximize the use and reuse of reusable water supplies within El Paso County.

The applicant states the study will provide technical analysis and planning support for various options to recapture, store, and deliver fully-reusable return flows in the Fountain and Monument Creek basins. Participants include entities within El Paso County that utilize unsustainable Denver Basin groundwater as well as entities with other groundwater issues. In addition, the analysis shall incorporate values to consider multiple-use storage needs within El Paso County.

The applicant will develop minimum operational criteria, to include storage volume, conveyance capacity in and out for peak and non-peak times, ability to connect to existing infrastructure, and identification of potential treatment requirements. Quantitative and

qualitative value sets will be used to identify top performing concepts, which will then undergo a more detailed feasibility analysis.

Discussion: The proposed project furthers the Colorado Water Plan stated support of water reuse and it meets goals in the Arkansas Basin Implementation Plan of developing cost effective solutions to local water supply gaps and working to eliminate groundwater dependence for municipal users. The study also meets the South Platte’s Basin Implementation Plan by enhancing current levels of municipal water reuse.

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
Woodmoor Water & Sanitation District	\$10,000	\$0	\$10,000	Secured
Triview Metropolitan District	\$10,000	\$0	\$10,000	Secured
Town of Monument	\$10,000	\$0	\$10,000	Secured
Forest Lakes Metropolitan District	\$10,000	\$0	\$10,000	Secured
Cherokee Metropolitan District	\$10,000	\$0	\$10,000	Secured
Donala Water & Sanitation	\$10,000	\$0	\$10,000	Secured
Security Water District	\$10,000	\$0	\$10,000	Secured
Colorado Springs Utilities	\$10,000	\$0	\$10,000	Secured
Sub-Total Matching Funds	\$80,000	\$0	\$80,000	
WSRF Arkansas Basin Account	\$7,500	\$0	\$7,500	Secured
WSRF Metro Basin Account	\$7,500	\$0	\$7,500	
WSRF Statewide Account	\$38,000	\$0	\$38,000	
Sub-Total WSRF Funds	\$53,000	\$0	\$53,000	
Total Project Costs	\$133,000	\$0	\$133,000	

CWCB Project Manager: Kevin Reidy



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 [2020 WSRF Criteria and Guidelines](#).

To receive funding from the WSRF, a proposed water activity must be recommended for approval by a Roundtable(s) **AND** 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 ben.wade@state.co.us 303-866-3441 x3238 (office)	Sam Stein Sam.stein@state.co.us 303-866-3441(office)
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WSRF Submittal Checklist (Required)

YES NO This request was recommended for CWCB approval by the sponsoring roundtable.

YES NO I have read and understand the [2020 WSRF Criteria and Guidelines](#).

YES NO Grantee will be able to contract with CWCB using the [Standard Contract](#).¹

Application Documents included:

YES NO Exhibit A: Statement of Work² (*Word – see Template*)

YES NO Exhibit B: Budget & Schedule² (*Excel Spreadsheet – see Template*)

YES NO Letters of Matching and/or Pending 3rd Party Commitments²

YES NO Map²

YES NO Photos/Drawings/Reports

YES NO Letters of Support

Contracting Documents³

YES NO Detailed/Itemized Budget³ (*Excel Spreadsheet – see Template*)

YES NO Certificate of Insurance⁴ (*General, Auto, & Workers' Comp.*)

YES NO Certificate of Good Standing⁽⁴⁾

YES NO W-9 Form⁴

YES NO Independent Contractor Form⁴ (*If applicant is individual, not company/organization*)

YES NO Electronic Funds Transfer (ETF) Form⁴

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.

⁴ 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	October 1	Basin Account
March	December 1	Basin/Statewide Account/Water Plan Grant Match ¹
May	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	Pikes Peak Regional Water Authority
Name of Water Activity	Regional Reuse Study
Approving Roundtable(s)	Basin Account Request(s) ¹
Arkansas Basin Roundtable	\$7,500
Metro Roundtable	\$7,500
Basin Account Request Subtotal	\$15,000
Basin Account Request Subtotal Approved by Roundtable	\$
Statewide Account Request ⁽¹⁾	\$38,000
Total WSRF Funds Requested (Basin & Statewide)	\$53,000
Total Project Costs	\$133,000 (not to exceed)

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

Grantee and Applicant Information	
Name of Grantee(s)	Pikes Peak Regional Water Authority
Mailing Address	231 Security Blvd. Colorado Springs, CO 80911
FEIN	84-1428849



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Grantee and Applicant Information	
Grantee's Organization Contact¹	Roy Heald
Position/Title	Treasurer
Email	r.heald@securitywsd.com
Phone	719-392-3475
Grant Management Contact²	Rebecca Hardekopf
Position/Title	Contract Invoicing
Email	rebecca.h@wsdistricts.com
Phone	719-447-1777 x 103
Name of Applicant (if different than grantee)	Pikes Peak Regional Water Authority
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).	
<p>The Pikes Peak Regional Water Authority (PPRWA) is an organization of more than a dozen public water suppliers and was formed by members to share information and to work jointly to address common issues concerning water supply. The PPRWA is located in El Paso County and is made up of Title 32 special districts as well as municipalities. PPRWA members are primarily located in the Arkansas Basin, with limited extension into the South Platte Basin.</p>	

Type of Eligible Entity (check one)	
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	Public (Districts): authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises
<input type="checkbox"/>	Private Incorporated: mutual ditch companies, homeowners associations, corporations
<input type="checkbox"/>	Private Individuals, Partnerships, and Sole Proprietors: are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.



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Type of Eligible Entity (check one)	
<input checked="" type="checkbox"/>	Non-governmental organizations: broadly, any organization that is not part of the government
<input type="checkbox"/>	Covered Entity: as defined in Section 37-60-126 Colorado Revised Statutes

Type of Water Activity (check one)	
<input checked="" type="checkbox"/>	Study
<input type="checkbox"/>	Implementation

Category of Water Activity (check all that apply)		
<input type="checkbox"/>	Nonconsumptive (Environmental)	
<input type="checkbox"/>	Nonconsumptive (Recreational)	
<input type="checkbox"/>	Agricultural	
<input checked="" type="checkbox"/>	Municipal/Industrial	
<input type="checkbox"/>	Needs Assessment	
<input type="checkbox"/>	Education & Outreach	
<input checked="" type="checkbox"/>	Other	Explain: Reuse recapture and storage

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	El Paso County
Latitude	38.812764
Longitude	-104.810679

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.</p> <p>The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, and Schedule.</p>



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Water Activity Overview
<p>The objective of the Regional Reuse Study is to identify key conveyance, storage and delivery infrastructure and management concepts and provide cost estimates for, regional reuse projects that could maximize the use and reuse of reusable water supplies within El Paso County.</p> <p>The Study will provide technical analysis and planning support for various options to recapture, store, and deliver fully-reusable return flows in the Fountain and Monument Creek basins. Participants include entities within El Paso County that utilize unsustainable Denver Basin groundwater as well as entities with other groundwater issues. In addition, the analysis shall incorporate values to consider multiple-use storage needs within El Paso County.</p> <p>The Study will develop minimum operational criteria, to include storage volume, conveyance capacity in and out for peak and non-peak times, ability to connect to existing infrastructure, and identification of potential treatment requirements. Quantitative and qualitative value sets will be used to identify top performing concepts, which will then undergo a more detailed feasibility analysis.</p>

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	<table border="1"> <tr> <td style="width: 50px;">Other</td> <td>Explain: Identify the top performing projects that will maximize the efficient collection and storage of reusable water supplies in El Paso County.</td> </tr> </table>	Other	Explain: Identify the top performing projects that will maximize the efficient collection and storage of reusable water supplies in El Paso County.
Other	Explain: Identify the top performing projects that will maximize the efficient collection and storage of reusable water supplies in El Paso County.		

Water Activity Justification
<p>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).</p> <p>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).</p>



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Water Activity Justification
<p>Encouraging a regional reuse program aids the development of a cost-effective, efficient system that will maximize the efficient recapture and use of reusable return flows for an increased number of regional water suppliers. The full re-use of reusable water supplies will help to meet the anticipated water supply gap in El Paso County. In addition, it is anticipated that storage will be a key component of a reuse project and be sized to provide multiple benefits for El Paso County water users.</p> <p>Maximizing the reuse of reusable water supplies helps to meet the identified El Paso County municipal water gap as well as create reuse mechanisms that will ensure that any additional water supplies brought to El Paso County to limit the dependence on Denver Basin Groundwater are fully used and reused.</p> <p><u>Colorado's Water Plan</u>: Section 6.3.2 specifically focuses on reuse. The state identifies the continued support of reuse in the state water planning process as a no-and-low regret action.</p> <p><u>Arkansas Roundtable</u>: The Arkansas BIP has identified supporting regional infrastructure development for cost-effective solutions to local water supply gaps and reducing or eliminating Denver Basins groundwater dependence for municipal users as goals. (<i>Colorado State Water Plan p 6-79</i>) The Regional Reuse Study would be the first step to help accomplish these goals by identifying projects that would be most effective at capturing, storing, and reusing water within El Paso County. Near term benefits would include maximizing the use and reuse of Denver Basin Groundwater, and as regional water providers transitioned away from Denver Basin Groundwater, a reuse system would already be in place for the most efficient use and reuse of new water supplies.</p> <p><u>Metro Roundtable</u>: South Platte BIP has a goal to continue the South Platte River Basin's leadership in wise water use, including MO#3 – "Enhance current levels of municipal water reuse ..."</p>

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

Matching Requirements: Basin Account Requests	
<p>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 2020 WSRF Criteria and Guidelines (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.</p>	
Contributing Entity	Amount and Form of Match (note cash or in-kind)



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Matching Requirements: Basin 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	
<p>Statewide Account grant requests require a 50% match as described in the 2020 WSRF Criteria and Guidelines. 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.</p>	
Contributing Entity	Amount and Form of Match (note cash or in-kind):
<i>Arkansas Basin and Metro Roundtable Basin Funds</i>	\$15,000
Woodmoor Water and Sanitation District	\$10,000 cash
Triview Metropolitan District	\$10,000 cash
Town of Monument	\$10,000 cash
Forest Lakes Metropolitan District	\$10,000 cash
Cherokee Metropolitan District	\$10,000 cash
Donala Water and Sanitation District	\$10,000 cash
Security Water District	\$10,000 cash
Colorado Springs Utilities	\$10,000 cash
Total Match	\$95,000
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	



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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.

Both PPRWA and Colorado Springs Utilities have completed numerous studies that have provided information about regional water needs, potential infrastructure projects, quantifying the potential water needs gap in El Paso County, and reuse; however, no study has looked holistically at potential regional reuse projects that collect, store, and deliver the most reusable water supplies possible. Please see Exhibit C for a list of studies being considered as part of the Regional Reuse Study effort.

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

The following were all awarded to PPRWA:

2011 - WSRF - "Rotating Agricultural Fallowing Public Policy Work Group" for \$20,000 (OE PDA 12IBC-15)

2011 - WSRF - "Basin Roundtable Project Exploration Committee: Flaming Gorge" for \$250,000 (OE PDA 13IBC-01)

2013 - WSRF - "Regional Water Infrastructure Feasibility Study" for \$75,000 (POGG1 2015-86)

2013 - WSRF - "Arkansas Basin Implementation Plan" for \$127,455 (C150545)

2014 - WSRF - "Arkansas Basin Implementation Plan – Section 4.3: Conservation" for \$10,000

2015 - WSRF - "Preliminary Engineering Report Area 3: Regional Water Supply Infrastructure in the Arkansas River Basin" for \$126,000 (CTGG1 2015-3445)

CO Water Plan Grants:

2018 - "El Paso County Groundwater Depletions: Project Implementation Strategies to Meet the Supply & Demand Gap" for \$112,500 (CTGG1 2019-2279)

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.

Arkansas Basin Roundtable

May 12, 2021

Via Electronic Mail: ben.wade@state.co.us

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

Re: Water Supply Reserve Fund Grant Application: Pikes Peak Regional Reuse Study

Dear Ben:

At its May 12, 2021 meeting, the Arkansas Basin Roundtable (ABRT) approved support of the Pikes Peak Regional Water Users Regional Reuse Study request for \$7,500 from the Arkansas Basin account and an additional \$38,000 from the Statewide account. The applicant is providing \$80,000 in matching funds and has requested \$7,500 from the Metro Basin Roundtable account.

This project supports the goals of the Colorado Water Plan and the Arkansas Basin Roundtable Implementation plan by maximizing utilization of existing municipal water supplies through studying storage and reuse of return flows within the Monument and Fountain Creek drainages. When implemented, this project will lessen reliance of participants on non-renewable Denver Basin wells through regional collaboration.

The Arkansas Basin Roundtable 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

/s/ Mark Shea

Mark Shea
Chair

Copy via email: Applicant; Needs Assessment Chair

Metro Basin Roundtable

May 19, 2021

Via Electronic Mail: ben.wade@state.co.us

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

Re: Water Supply Reserve Fund Grant Application: Pikes Peak Regional Reuse Study

Dear Ben:

At its May 13, 2021 meeting, the Metro Basin Roundtable (MBRT) voted unanimously to support of the Pikes Peak Regional Water Users Regional Reuse Study request for \$7,500 from the Metro Basin WSRF account and an additional \$38,000 from the Statewide account. The applicant is providing \$80,000 in matching funds and has requested \$7,500 from the Arkansas Basin Roundtable account.

This project supports the goals of the Colorado Water Plan and the Metro Basin Roundtable Implementation plan by maximizing utilization of existing municipal water supplies through studying storage and reuse of return flows within the Monument and Fountain Creek drainages. When implemented, this project will lessen reliance of participants on non-renewable Denver Basin wells through regional collaboration.

The Metro Basin Roundtable 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,



Barbara Biggs
Chair

Copy via email: Applicant; WSRF Committee Chair



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Colorado Water Conservation Board	
Water Supply Reserve Fund	
<u>Exhibit A - Statement of Work</u>	
Date:	April 13, 2021
Water Activity Name:	Regional Reuse Study
Grant Recipient:	Pikes Peak Regional Water Authority
Funding Source:	Water Supply Reserve Fund, Arkansas Roundtable, Metro Roundtable, Pikes Peak Regional Water Authority Regional Reuse Study Participants
Water Activity Overview: (Please provide brief description of the proposed water activity (no more than 200 words). Include a description of the overall water activity and specifically what the WSRF funding will be used for. (PLEASE DEFINE ALL ACRONYMS).)	
<p>The Regional Reuse Study is being completed to provide technical analysis and planning support for various options to recapture, store, and deliver fully-reusable return flows in the Fountain and Monument Creek basins from several identified participants. In addition, the analysis shall identify other water storage needs within El Pasos County that may be able to use the storage contemplated as part of this effort.</p> <p>The Study will develop minimum operational criteria, to include storage volume, conveyance capacity in and out for peak and non-peak times, ability to connect to existing infrastructure, and identification of potential treatment requirements for potential recapture, storage, and delivery projects. Quantitative and qualitative value sets will be used to identify top performing concepts, which will then undergo a feasibility analysis.</p>	
Objectives: (List the objectives of the project. (PLEASE DEFINE ACRONYMS).)	
The objective of the Regional Reuse Study is to identify, and provide cost estimates for, the top regional reuse projects that will maximize the use and reuse of reusable water supplies within El Paso County.	

Tasks
Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)



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Tasks	
Task 1 - (Name) Reconnaissance Study	
Description of Task:	
<p>Complete a Reconnaissance Study to:</p> <ol style="list-style-type: none"> a. Collect and review relevant project work performed in the region over the last 10 years specifically addressing the recapture, storage and delivery of reuse water. b. Gather data and formulate an inventory of previously identified water storage needs within El Paso County. c. Through discussion with potential reuse and storage participants and Colorado Springs Utilities, develop minimum operational criteria (to include storage volume, conveyance capacity in and out for peak and non-peak times, ability to connect to existing infrastructure and identification of potential treatment requirements) for potential recapture, storage and delivery projects. d. Gather data and formulate an inventory of water recapture, storage, and delivery projects with the potential to meet the minimum criteria identified in (b.) above. e. Produce and document preliminary data. f. Formulate concepts in sufficient detail to evaluate viability (tier one fatal flaw analysis). 	
Method/Procedure:	
<ul style="list-style-type: none"> • Collect and review relevant project work. • Gather data, inventory El Paso County storage needs. • Interview each participant on operational needs. • Gather data, inventory water recapture, storage, and delivery projects. • Produce and document preliminary data, formulate concepts. • Meet with Working Group made up of Project Participants. 	
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)	
Draft Reconnaissance Study.	
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)	
Draft Reconnaissance Study (electronic file)	



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Tasks
Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)
Task 2 - (Name) Comparative Analysis
Description of Task:
<p>Conduct a Comparative Analysis utilizing both quantitative and qualitative value sets to identify top performing concepts.</p> <ol style="list-style-type: none"> a. Identify possible storage alternative sites that satisfy fully (or in part) the group’s storage needs. b. Identify possible conveyance concepts to convey water into and from the alternative storage sites. c. Identify potential water treatment, if any, required prior to conveyance from alternative storage sites. d. Implement a qualitative screening methodology based on group criteria to rank possible alternatives.
Method/Procedure:
<ul style="list-style-type: none"> • Identify storage alternatives, conveyance concepts and potential water treatment. • Use qualitative screening methodology to draft Comparative Analysis. • Present to Working Group for input. • Distribute reviewed Comparative Analysis and integrate into draft Reuse Study.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
<p>Draft Comparative Analysis (electronic file) Presentation on Comparative Analysis Revised Comparative Analysis (electronic file)</p>
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Revised Comparative Analysis (electronic file)



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Tasks
Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)
Task 3 - (Name) Feasibility Analysis
Description of Task:
Using the three top-ranking alternatives from Task 1, these selected alternatives will undergo more detailed feasibility analysis and development in Task 3. <ol style="list-style-type: none"> 1. Conduct a Tier 2 Fatal Flaw analysis for the top-ranking alternatives. 2. Meet with the Working Group to review results of the fatal flaw analysis and confirm selection of the top three alternatives. 3. Provide Advancement of Cost Engineering (AACE) Class 4 cost estimate of the three top-ranking alternatives. 4. The Feasibility Analysis Report shall identify and include: <ol style="list-style-type: none"> a. Potential fatal flaws of the top performing sites from Task I. b. A compilation of pertinent data, and information used in identifying potential fatal flaws. c. A preliminary AAEC Class 4 capital cost estimate for each of the top-ranking alternatives
Method/Procedure:
<ul style="list-style-type: none"> • Perform fatal flaw analysis of select Task I alternatives. • Meet with Working Group to review results. • Prepare cost estimates for three top-ranking alternatives • Prepare and distribute draft Feasibility Analysis Report.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Presentation of fatal flaw results Draft Feasibility Analysis Report (electronic file)
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Draft Feasibility Analysis Report (electronic file)



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Tasks
Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)
Task 4 - (Name) Refined Costs Report
Description of Task:
<p>After review of the draft Reports from the previous tasks, the selected three alternatives will undergo further financial analysis for cost estimating purposes. The draft Refined Costs Report shall identify and include:</p> <ol style="list-style-type: none"> a. Opinion of probable costs for the permitting and construction costs of each alternative along with critical/major assumptions used. b. Opinion of probable costs for the annual operating costs of each alternative along with critical/major assumptions used.
Method/Procedure:
<ul style="list-style-type: none"> • Meet with Working Group to refine assumptions and concept plans of operation of up to three select alternatives. • Prepare conceptual plans to estimate those alternatives. • Prepare and distribute draft Refined Costs Report showing opinion of probably costs for permitting and construction of the select alternatives and annual operating costs.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Presentation of select alternatives Draft and distribute Refined Costs Report (electronic file)
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Draft and distribute Refined Costs Report (electronic file)
Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)



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Tasks	
Optional Task: Geotechnical Analysis	
Description of Task:	
<p>Geotechnical information may be necessary for the level of cost comparison requested for the top three alternatives that will be evaluated in the Regional Reuse Study. If no prior geotechnical analysis of those sites is available, the consultant would engage a geotechnical subconsultant to perform soil borings and laboratory tests, and report on expected construction requirements for each of the sites.</p>	
Method/Procedure:	
<ul style="list-style-type: none"> • Coordinate access with the property owners of the three site alternatives. • Perform site reconnaissance and get utilities marked for clearance at each site. • Drill two 50-foot soil borings at each site, six total. • Perform a total of approximately 80 laboratory tests to characterize soil conditions. • Prepare the preliminary geotechnical reports. 	
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)	
Preliminary geotechnical reports	
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)	
Preliminary geotechnical reports	



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Budget and Schedule

Exhibit B - Budget and Schedule: This Statement of Work shall be accompanied by a combined [Budget and Schedule](#) that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in [excel format](#). A separate [excel formatted](#) Budget is required for engineering costs to include rate and unit costs.

Reporting Requirements

Progress Reports: The grantee shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status of the tasks identified in the statement of work, including a description of any major issues that have occurred and any corrective action taken to address these issues. The CWCB may withhold reimbursement until satisfactory progress reports have been submitted.

Final Report: At completion of the project, the grantee shall provide the CWCB a Final Report on the grantee's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

Payments

Payment will be made based on actual expenditures, must include invoices for all work completed and must be on grantee's letterhead. The request for payment must include a description of the work accomplished by task, an estimate of the percent completion for individual tasks and the entire Project in relation to the percentage of budget spent, identification of any major issues, and proposed or implemented corrective actions.

The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the water activity and purchase order or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to CWCB within 90 days of the expiration of a purchase order or contract may be denied consideration for future funding of any type from CWCB.

Performance Requirements

Performance measures for this contract shall include the following:

(a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Grant Guidelines, the CWCB will pay out the last 10% of the budget when the final deliverable is completed to the satisfaction of CWCB staff. Once the final deliverable has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

(b) Accountability: Per the Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per the Grant Guidelines, Progress Reports must be submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.

(c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.

(d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.

Last Update: March 24, 2021



COLORADO

Colorado Water Conservation Board

Department of Natural Resources

Colorado Water Conservation Board

Water Supply Reserve Fund

EXHIBIT B - BUDGET AND SCHEDULE - Direct & Indirect (Administrative) Costs

Date: April 13, 2021

Water Activity Name: Regional Reuse Study

Grantee Name: Pikes Peak Regional Water Authority

<u>Task No.</u> ⁽¹⁾	<u>Description</u>	<u>Start Date</u> ⁽²⁾	<u>End Date</u>	<u>Matching Funds</u> (cash & in-kind) ⁽³⁾	<u>WSRF Funds</u> (Basin & Statewide combined) ⁽³⁾	<u>Total</u>
	Project Coordination and Reporting	Notice to Proceed (NTP)	NTP + 213 days	\$18,280	\$12,000	\$30,280
1 & 2	Reconnaissance Study and Comparative Analysis	NTP	NTP + 120 days	\$24,940	\$16,600	\$41,540
3	Feasibility Analysis	NTP + 120 days	NTP + 183 days	\$8,420	\$5,700	\$14,120
4	Refined Costs Report	NTP + 183 days	NTP + 213 days	\$8,060	\$5,400	\$13,460
Optional	Geotechnical Analysis	NTP + 183 days	NTP + 213 days	\$20,300	\$13,300	\$33,600
Total				\$80,000	\$53,000	\$133,000

(1) The single task that include costs for Grant Administration must provide a labor breakdown (see Indirect Costs tab below) where the total WSRF Grant contribution towards that task does not exceed 15% of the total WSRF Grant amount.

(2) Round values up to the nearest hundred dollars.

• Additional documentation providing a Detailed/Itemized Budget may be required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.

The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of the CWCB staff project manager. Once the Final Report has been accepted, the final payment has been issued, the water activity and purchase order (PO) or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to the CWCB with 90 days of the expiration of the PO or contract may be denied consideration for future funding of any type from the CWCB.

• Additionally, the applicant shall provide a progress report every 6 months, beginning from the date of contract execution

PIKES PEAK REGIONAL WATER AUTHORITY

El Paso County Department of Planning, 27 E. Vermijo, Colorado Springs CO 80903 (719) 520-6300

August 9, 2021

Mr. Ben Wade, Project Manager
Colorado Department of Water Resources
Water Supply Planning
1313 Sherman St., Rm. 721
Denver, CO 80203

Dear Ben:

The Pikes Peak Regional Water Authority (PPRWA) has received a \$10,000 cash contribution for the Regional Reuse Study from each of the following participating entities (for a total of \$80,000 in cash contributions):

Cherokee Metropolitan District	Town of Monument
Colorado Springs Utilities	Security Water District
Donala Water & Sanitation District	Triview Metropolitan District
Forest Lakes Metropolitan District	Woodmoor Water & Sanitation District

The PPRWA appreciates the Colorado Water Conservation Board, the Arkansas and Metro Basin Roundtables and these participating entities for their support of this important study.

Please let me know if you have any additional questions or need additional information.

Sincerely,
Pikes Peak Regional Water Authority



Roy E. Heald, Treasurer

Cherokee Metropolitan District, City of Fountain, Donala Water & Sanitation District, El Paso County, Forest Lakes Metropolitan District, Security Water District, Stratmoor Hills Water District, Town of Monument, Town of Palmer Lake, Triview Metropolitan District, Woodmen Hills Metropolitan District, Woodmoor Water & Sanitation District