



**COLORADO WATER CONSERVATION BOARD**  
**WATER SUPPLY RESERVE ACCOUNT**  
**APPLICATION FORM**



Groundwater Quality Study, Phase 2c - Upper Black Squirrel Creek Alluvial Aquifer, El Paso County, Colorado

**Name of Water Activity/Project**

El Paso County by/through the Board of County Commissioners of El Paso County, Colorado, on behalf of its Aquifer Health and Groundwater Quality Study Committee.

**Name of Applicant**

Arkansas Basin Roundtable

**Amount from Statewide Account:**

\$41,932.50

**Amount from Basin Account(s):**

\$10,000

**Total WSRA Funds Requested:**

\$51,932.50

**Approving Basin Roundtable(s)**

*(If multiple basins specify amounts in parentheses.)*

**Application Content**

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**Required Exhibits**

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

**Appendices – Reference Material**

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

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### **Instructions**

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

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

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

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Documents/WSRACriteriaGuidelines.pdf>

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

Greg Johnson – WSRA Application  
Colorado Water Conservation Board  
1580 Logan Street, Suite 200  
Denver, CO 80203  
[gregory.johnson@state.co.us](mailto:gregory.johnson@state.co.us)

If you have questions or need additional assistance, please contact Greg Johnson at: 303-866-3441 x3249 or [gregory.johnson@state.co.us](mailto:gregory.johnson@state.co.us).

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

1.	Applicant Name(s):	El Paso County by its Board of County Commissioners and their appointed Groundwater Quality Study Committee		
	Mailing address:	Groundwater Quality Study Committee c/o Elaine Kleckner, Community Services Department 2002 Creek Crossing Colorado Springs, CO 80905		
	Taxpayer ID#:	84-6000764		
	Primary Contact:	Ms. Elaine Kleckner	Position/Title:	Project Administrator
	Email:	ElaineKleckner@elpasoco.com		
	Phone Numbers:	Cell: 719-499-1375	Office:	719-520-6999
	Alternate Contact:	Mr. Sean Chambers	Position/Title:	Committee Chair
	Email:	SChambers@Cherokeemetro.org		
	Phone Numbers:	Cell: 719-499-5430	Office:	719-597-5080

### 2. Eligible entities for WSRA funds include the following. What type of entity is the Applicant?

- ☒ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
- ☐ Public (Districts) – authorities, Title 32/special districts, (conservancy, conservation, and irrigation districts), and water activity enterprises.
- ☐ Private Incorporated – mutual ditch companies, homeowners associations, corporations.
- ☐ Private individuals, partnerships, and sole proprietors are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

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3. Provide a brief description of your organization

The Groundwater Quality Study Committee is a group appointed by the Board of County Commissioners of El Paso County. The BoCC established a Groundwater Quality Study Committee in 2009 to develop data necessary in the protection and enhancement of the alluvial storage space and groundwater dependent areas of the County. It is comprised of public, private and nonprofit sector members. Water providers and the Upper Black Squirrel Creek Groundwater Management District (UBSCGWMD) are active participants, and State and Federal agency representatives serve as technical advisors and project collaborators. The mission of this coalition is to evaluate existing water quality data on nitrates and other contaminants, fill data gaps and explore land use and water resources planning implications. (See attached Resolution.) The County, under a shared funding arrangement with Committee partners, contracted with the Colorado Geological Survey (CGS) to conduct Phase 1 of the Groundwater Quality Study. The report is available at:

<http://adm.elpasoco.com/Development%20Services/Pages/AdvisoryBoardsandCommittees.aspx>

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

N/A

5. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A link to this standard contract is included in Appendix 3. Please review this contract and check the appropriate box.

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The Applicant will be able to contract with the CWCB using the Standard Contract

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The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

6. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

N/A

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**Part II. - Description of the Water Activity/Project**

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

<input type="checkbox"/>	Nonconsumptive (Environmental or Recreational)
<input type="checkbox"/>	Agricultural
<input type="checkbox"/>	Municipal/Industrial
<input type="checkbox"/>	Needs Assessment
<input type="checkbox"/>	Education
<input checked="" type="checkbox"/>	Other

Explain:

Water quality study project for the protection of all water resources and uses within the Basin, and for the enhancement of the alluvial groundwater storage asset and water quality for Site no. 6 identified in SB06-193 as having potential for underground storage for all uses.

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

The study project has been scoped to generate baseline water quality data that will be useful to local health department, agricultural users, individual well and septic system homeowners, municipalities, and Upper Black Squirrel Creek Groundwater Management District and the Groundwater Commission.

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

<input checked="" type="checkbox"/>	Study	<input type="checkbox"/>	Implementation
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4. To catalog measurable results achieved with WSRA funds can you provide any of the following numbers?

<input type="checkbox"/>	New Storage Created (acre-feet)
<input type="checkbox"/>	New Annual Water Supplies Developed, Consumptive or Nonconsumptive (acre-feet)
<input checked="" type="checkbox"/>	Existing Storage Preserved or Enhanced (acre-feet)
<input type="checkbox"/>	Length of Stream Restored or Protected (linear feet)
<input type="checkbox"/>	Length of Pipe/Canal Built or Improved (linear feet)
<input type="checkbox"/>	Efficiency Savings (acre-feet/year OR dollars/year – <b>circle one</b> )
<input type="checkbox"/>	Area of Restored or Preserved Habitat (acres)
<input checked="" type="checkbox"/>	Other -- Explain:

Suitability and vulnerability of 500,000 AF Upper Black Squirrel

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

Latitude: 38.84

Longitude: -104.38

The Groundwater Quality Study Committee's area of interest is El Paso County, with an initial focus on the Upper Black Squirrel Creek drainage basin including the area immediately south of the UBSCGWMD boundary where oil and gas exploration is occurring. The basin encompasses approximately 350 square miles in east-central El Paso County, Colorado. The basin lies east of the City of Colorado Springs. (See attached map.)

5. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for. A full **Statement of Work** with a detailed budget and schedule is required as **Exhibit A** of this application.

The purpose of the project is to build on Phase 1 and work completed in 2011 and further water quality parameter sampling work completed in 2013 & 2014 under Phase 2a and 2b respectively, to continue and complete phase 2c of the El Paso County Groundwater Quality Study (Scope of Work Attached):

1) to refine the distribution, geometry, and hydrology of the alluvial and shallow bedrock aquifers in the northwestern portion of the Upper Black Squirrel Creek basin, and 2) to establish a groundwater monitoring network to detect and quantify impacts to water quality resulting from existing and proposed land uses that may degrade water supplies.

El Paso County is expected to use the data and recommendations to inform land use planning and determine if changes to policies and regulations are warranted. The study will also help other entities, such as special districts and UBSCGWMD make informed decisions regarding infrastructure planning. Installation of monitoring wells and establishing a groundwater monitoring program will support both water quality protection and water supply planning in the future. Establishing a water-quality baseline for the alluvial aquifer will be needed before conjunctive use/aquifer storage and recovery can occur to meet the water supply gap that has been identified by El Paso County.

Phase 1 of the Groundwater Quality Study was completed in March, 2011. The Phase 1 report, prepared by CGS, consists of a literature review, existing water quality data compilation/analysis, identification of potential contaminant sources based on land use, and a recommendation to implement the next phase. The U.S. Geological Survey (USGS) was a technical advisor for Phase 1 and will be the lead consultant for Phase 2. The USGS has worked with the Groundwater Quality Study Committee to develop the scope of work for Phase 2.

With this grant application, the Groundwater Quality Study Committee seeks to augment Phase 2 funding. Funds are requested for identification of and/or installation of monitoring wells to include in a long-term monitoring program, hydrogeologic evaluation, additional analysis aquifer characteristics and vulnerability potential, to provide for early detection of potential contamination issues that could impact human health and the environment.

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### Part III. – Threshold and Evaluation Criteria

1. Describe how the water activity meets these **Threshold Criteria**. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)

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

The project is consistent with the statute and shall not have any impact upon water rights or the existing system of adjudication. In fact, the Study's data set and land use tools be valuable assets in the long-range protection of water quality, sourcewater protections, land use planning, watershed health management, aquifer storage or water banking program parameter development and the overall enhancement of the all uses who rely upon the aquifer storage within the Basin.

- b) The water activity underwent an evaluation and approval process and was approved by the Basin Roundtable (BRT) and the application includes a description of the results of the BRT's evaluation and approval of the activity. At a minimum, the description must include the level of agreement reached by the roundtable, including any minority opinion(s) if there was not general agreement for the activity. The description must also include reasons why general agreement was not reached (if it was not), including who opposed the activity and why they opposed it. Note- If this information is included in the letter from the roundtable chair simply reference that letter.

*[To be completed following 6/20/14 Basin R.T. Needs Assessment]*

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<sup>1</sup> 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.



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- c) The water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes.<sup>2</sup> The Basin Roundtable Chairs shall include in their approval letters for particular WSRA grant applications a description of how the water activity will assist in meeting the water supply needs identified in the basin roundtable's consumptive and/or non-consumptive needs assessments.

Groundwater resources and aquifer storage capacity are absolutely essential to the support and vitality of life, economic viability, public health, agricultural way of life, high plains habitat and environmental health here in El Paso County and beyond. The preservation of El Paso County resources and in particular the water and alluvial storage resources of the Upper Black Squirrel Creek Basin are essential to the long-term efficient use of water and supply sustainability of water supplies in El Paso County. That sustainability and potential alluvial storage within the aquifer should reduce water waste via evaporation; allow for long-range water quality protection and land use planning tools, and the limitation on increased return flows down Fountain Creek and efforts to by El Paso County entities seeking water from the Arkansas River's main stem.

- d) **Matching Requirement:** For requests from the Statewide Fund, the applicants is required to demonstrate a **20 percent** (or greater) match of the request from the Statewide Account. Statewide requests must also include a minimum match of **5 percent** of the total grant amount from Basin Funds. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the application was submitted to the CWCB. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in **Exhibit A** of this application)

There are significant in-kind contributions from El Paso County, its Development Services Division, its Health Department, its Citizen volunteers, the Upper Black Squirrel Creek Groundwater Management District and its consultants, the Cherokee Metropolitan District and its consultants, the Meridian Metro Service District and its consultants, the Paint Brush Hills Metro District, Members of the Housing and Building Association, Colorado State Board of Land Commissioners, Mountain View Electric Association and the City of Colorado Springs. Financial Matches exceeding the above stated requirements are detailed in the attached Exhibit A

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<sup>2</sup> 37-75-104 (2)(c). Using data and information from the Statewide Water Supply Initiative and other appropriate sources and in cooperation with the on-going Statewide Water Supply Initiative, develop a basin-wide consumptive and nonconsumptive water supply needs assessment, conduct an analysis of available unappropriated waters within the basin, and propose projects or methods, both structural and nonstructural, for meeting those needs and utilizing those unappropriated waters where appropriate. Basin Roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs. Recommendations from this assessment shall be forwarded to the Interbasin Compact Committee and other basin roundtables for analysis and consideration after the General Assembly has approved the Interbasin Compact Charter.



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

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

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

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

### **Tier 2: Facilitating Water Activity Implementation**

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

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

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

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Continued: Explanation of how the water activity/project meets all applicable **Evaluation Criteria**.

**Please attach additional pages as necessary.**

The project meets the WSRA Tier 1 criteria in the following ways:

1. The project, its deliverable data set and the GIS groundwater vulnerability mapping (with currently land use, but amendable based upon changes to land use over time) will be essential tools that lead to more efficient use of the existing resources, protection of the storage vessel, and better long-term protection of the water resources and the alluvial storage resource that was quantified in the 2006 C.G.S. study by Ralf Topper.
2. Numerous local entities and both local and State agencies will be able to utilize the Phase 2 baseline water quality study results and related age dating vulnerability assessment mapping for policy decisions and revisions that seek to address the goal of prolonging the supply and quality of El Paso County groundwater resources. The local Designated Basin Management District (Upper Black Squirrel Creek) and the Colorado Groundwater Commission oversee the Upper Black Squirrel Creek Basin, including areas of agricultural interests, the municipal interests, and the El Paso County's Health Department and Development Services and the Pikes Peak Regional Water Authority are all vested in the long-term protection of the alluvial storage and water resources, but all recognize an insufficient data set on water quality, aquifer characteristics and vulnerability to contamination, specifically in the Upper Black Squirrel Basin's northwest quadrant where rapid urbanization has taken place overtop of relatively shallow bedrock in the area of Falcon, Colorado.
3. This unincorporated area of El Paso County is the primary source of drinking water for many rural residents, as well as numerous municipal entities and their customers. More than 35,000 people depend on this particular source of supply and it is also in this same general area that oil and gas development companies have been active writing leases with local landowners. The project will generate baseline water quality data that includes those constituents of concern that may result from oil and gas development activities and in this respect the study has been scoped to promote cooperation and collaboration among traditionally competitive consumptive water interests and a blossoming energy sector.
4. The collaborative protection and promotion of water quality and enhanced water storage will lead to greater cooperation, minimized evaporative losses from surface storage, better science based decisions, and utilization of El Paso County resources to meet El Paso County water demands, thereby reducing demand on the mainstem of the Arkansas and Platte Rivers and seeking to further develop efficient storage that can reduce the Fountain Creek return flow and stormwater issues while making the most of any mainstem and / or trans-mountain water resources utilized in El Paso County.

Letters of Support are attached.

The project meets the WSRA Tier 2 criteria in the following ways:

1. The Phase 2 Groundwater Quality Study has a sizable scope of work with valuable deliverables, which come at significant cost(s), but for which there are very important long-range land use planning and supply security implications. The total project study cost is approximately \$343,350.00 and despite very significant local buy in from a wide variety of entities across a wide spectrum of industries and institutions, there is an unmet funding need and monies from the WSRA would provide measurable and significant leverage of the local dollars, allowing this very valuable project to get under way.
2. Local stakeholders, including El Paso County, Cherokee Metro, Meridian Service Metro, Woodmen Hills Metro, State Land Board, Mountain View Electric Assoc., and the Upper Black Squirrel Creek Groundwater Management District have funded approximately 30% of the project, USGS matching funds can be leveraged up to about 42 % or \$144,000.00 if the full stream of adequate matching funds can be developed on top of the local stakeholder contributions. In addition to the seven (7) local entities making

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financial contributions, numerous others (including Colorado Springs Utilities, Counsel of Organizations and Neighbors, Division of Water Resources, Bentgrass Metro District, Paint Brush Hills Metro District Protect Our Wells and El Paso County Dept. of Public and Environmental Health) are making and have committed to ongoing in-kind technical and / or manpower contributions that are essential to the budget and success of the Phase 2 project.

3. El Paso County Health Department has committed to provide an intern, as needed, to assist USGS as needed and their Development Services Department is prepared to make available a multitude of land use, zoning, small area master planning, transportation and growth prediction mapping resources essential to the interface of vulnerability assessment with land use. Further, some of the municipal districts and the Groundwater Management District have committed their consultants, staff, laboratory facilities, well logs and other relevant records relevant to the scope of work.

### **The project meets the WSRA Tier 3 Criteria in the following ways:**

- 1 The project is essential to the protection of multiple use source of supply that supports everything from agriculture to industry. If these many competing uses are to continue on and co-exist, enhanced alluvial storage must be achieved and sourcewater protection must be implemented on a more scientific basis. This scope of work and the USGS as operators of the study have developed a data set and regression analysis , and continue to develop vulnerability mapping set that will allow policy makers appropriate tools and resources in their decisions on how the basin is protected from potential contamination and further quantify how the basin could be used as enhanced storage and water banking for future generations.
- 2 The project shall lead to further cooperation among competing users, better science for decision support, and the work product will be a recognized standard for the type of science necessary to on the water quality end of setting up an enhanced storage water banking system. The investment in alluvial storage and the complex relationship of administration with competing uses is contentious enough, good science must be the basis for policy that seeks to enhance the resource while avoiding a possible tragedy of the commons. The Upper Black Squirrel Creek Basin has been previously determined to be a suitable storage location through the 2006 CGS work that was partially funded by Roundtable dollars and this work is the next step towards quantifying how such an enhanced storage and banking operation would protect water quality in the face of urbanized growth, oil and gas development and historic agricultural interests.
- 3 The oil and gas specific work and its incorporation into a vulnerability assessment the is based in geoscience is a model that can be utilized across this state and beyond. With much public concern revolving around impacts to water quality, this study's technical approach offers part of the solution and so with a within a technical platform. The rapid growth of oil and gas development has been slow, but ongoing within the study area, and this study will hold tremendous value to other communities across the state looking for a well designed technical model of how to protect all parties and water resources.

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### Part IV. – Required Supporting Material

1. **Water Rights, Availability, and Sustainability** – This information is needed to assess the viability of the water project or activity. Please provide a description of the water supply source to be utilized, or the water body to be affected by, the water activity. This should include a description of applicable water rights, and water rights issues, and the name/location of water bodies affected by the water activity.

Source of Supply is the alluvial aquifer of the Upper Black Squirrel Creek Designated Groundwater Basin. This alluvial resource has been adjudicated as non-tributary to the Arkansas River's main stem, but lies completely within Division 2, upstream of the Chico Basin system, and within the greater Arkansas Basin. The Upper Black Squirrel Creek groundwater resources have long been determined to be over appropriated, and between 1965 and 1985 there were consistent and significant declines in the alluvial aquifer's water levels, as documented in DWR and USGS depth to water level data sets. The alluvial aquifer is the sourcewater water supply for numerous cattle and livestock operations, irrigated feed crop farmers, commercial flower & vegetable growers and sod farmers who utilize the same source of supply as tens of thousands of rural residential homeowners living on parcels of various size from 2.5 acre parcels. Due to the proximity of the Basin to urban Colorado Springs, the alluvial water resources of the Upper Black Squirrel have long been the source of municipal diversions since the early 1960's and at present four major metropolitan districts and many smaller community water systems rely upon this source as a primary water supply.

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

The project would consist of new data collection and analysis, including groundwater sampling and testing, as recommended in the Phase 1 report by CGS, groundwater age dating and vulnerability assessment GIS mapping to support and expand upon the conclusions reached by CGS in their 2006 report on storage capacity. Candidate wells have been selected after analysis of well permit database; and several new monitoring wells were permitted through the Division of Water Resources and professionally installed. The study would also focus on the geometry, hydrology and quantification of the alluvial aquifer in the northern and western portions of the basin and the shallow bedrock alluvial aquifers, areas where little is known and where little baseline data currently exists. The preliminary data and land use mapping is proving to be valuable and no further permitting is anticipated.

3. **Statement of Work, Detailed Budget, and Project Schedule**

The statement of work will form the basis for the contract between the Applicant and the State of Colorado. In

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short, the Applicant is agreeing to undertake the work for the compensation outlined in the statement of work and budget, and in return, the State of Colorado is receiving the deliverables/products specified. **Please note that costs incurred prior to execution of a contract or purchase order are not subject to reimbursement.** All WSRA funds are disbursed on a reimbursement basis after review invoices and appropriate backup material.

**Please provide a detailed statement of work using the template in Exhibit A.** Additional sections or modifications may be included as necessary. Please define all acronyms and include page numbers.

**Please see the official scope of work developed by the Committee in concert with input from Colorado Geological Survey and the USGS. That Scope includes a detailed budget and general project schedule by quarter for the Federal Fiscal Calendar. The Scope is broken into tasks with tasks having specific timelines for funding, work and completion.**

## **REPORTING AND FINAL DELIVERABLE**

**Reporting:** The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

**Final Deliverable:** At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

## **PAYMENT**

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 5 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.



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The above statements are true to the best of my knowledge:

**Signature of Applicant:** *Recommended by Sean Chambers, Chair of the Committee, and President of the Pikes Peak Regional Water Authority, signing at the time of R.T. Needs Assessment for purpose of moving the application forward. Following needs assessment, the Board of County Commissioners will formally approve and execute the application prior to Roundtable.*



**Print Applicant's Name:** Dennis Hisey, Chair of the El Paso County Board of County Commissioners

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

Greg Johnson – WSRA Application  
Colorado Water Conservation Board  
1580 Logan Street, Suite 200  
Denver, CO 80203  
[gregory.johnson@state.co.us](mailto:gregory.johnson@state.co.us)