



COLORADO

Colorado Water Conservation Board

Department of Natural Resources
1313 Sherman Street, Room 718
Denver, CO 80203

February 14, 2024

LAKE COUNTY
505 HARRISON AVE
PO BOX 55
LEADVILLE, CO 80461

RE: Official Notice to Proceed – WSRF GRANT – POGG1 2024-3042

Dear Grantee:

We are pleased to inform you that the Colorado Department of Natural Resources, Colorado Water Conservation Board (CWCB) has approved your request for funding of your project pursuant to the Grant Program(s) ("Program"). This letter authorizes you to proceed with the approved project in accordance with the terms of this Grant Award Letter.

Attached to this letter are the terms and conditions of your Grant. Please review these terms and conditions as they are requirements of this Grant to which you Grantee agree by accepting the Grant Funds.

In addition, it is the Grantee's responsibility to monitor the progress of the project, submit required reports and invoices prior to the expiration of the contract.

If you have any questions regarding your grant award, contact Ben Wade, CWCB Project Manager at 303-866-3441 or at Ben.wade@state.co.us. Please send all grant correspondence directly to the project manager.

Thank you.

Best,

//s//

Doriann Vigil
Program Assistant II
O 303-866-3441
1313 Sherman Street, Rm. 719
Denver, CO 80203
Dori.vigil@state.co.us / cwcb.state.co.us





STATE OF COLORADO
Department of Natural Resources

Page 1 of 1

ORDER		*****IMPORTANT*****				
Number:	POGG1,PDAA,202400003093	The order number and line number must appear on all invoices, packing slips, cartons, and correspondence.				
Date:	2/13/24	BILL TO				
Description:	WSRF - LAKE COUNTY WATER RES. ASSESSMENT	COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
Effective Date:	02/21/24	SHIP TO				
Expiration Date:	02/21/29	COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
BUYER		SHIPPING INSTRUCTIONS				
Buyer:		Delivery/Install Date: -				
Email:		FOB:				
VENDOR						
LAKE COUNTY						
505 HARRISON AVE PO BOX 55						
LEADVILLE, CO 80461						
Contact:	Sarah Mudge					
Phone:	719-293-0177					
VENDOR INSTRUCTIONS						
EXTENDED DESCRIPTION						
Grant for LAKE COUNTY WATER RES. ASSESSMENT Project per attached Exhibit A Scope of Work and Exhibit B Budget".						
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
1	G1000		0	0.00	\$20,140.00	<input type="checkbox"/>
Description: WSRF - LAKE COUNTY WATER RES. ASSESSMENT						
Service From: 02/21/24		Service To: 02/21/29				
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
2	G1000		0	0.00	\$131,050.00	<input type="checkbox"/>
Description: WSRF - LAKE COUNTY WATER RES. ASSESSMENT						
Service From: 02/21/24		Service To: 02/21/29				
TERMS AND CONDITIONS						
https://www.colorado.gov/osc/purchase-order-terms-conditions						
DOCUMENT TOTAL = \$151,190.00						



Colorado Water Conservation Board	
Water Supply Reserve Fund	
Exhibit A - Statement of Work	
Date:	2/7/2024
Water Activity Name:	Lake County Water Resource Assessment
Grant Recipient:	Lake County
Funding Source:	WSRF Statewide & Arkansas Basin Accounts
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 Grantee will use grant funding for environmental, engineering and analysis services to study the feasibility and future use potential of the Grantee's existing water rights portfolio and associated infrastructure and conveyance structures. This work will entail two interrelated parts: first an assessment of the Grantee's water resource portfolio to determine the most efficient use of this limited resource, including an assessment of existing and potential storage facilities for Lake County water and how they would benefit the implementation of the Grantee's Blanket Augmentation Plan decree; and secondly a more focused assessment of the De Lappe Ditch, determining the work to be done to rehabilitate the ditch to a usable state and how it may be integrated into the Blanket Augmentation Plan and the Grantee's broader water resource development goals.</p>	
Objectives: (List the objectives of the project. (PLEASE DEFINE ACRONYMS).)	
<ul style="list-style-type: none">- Analysis of county water rights and associated infrastructure to determine most efficient use of current water portfolio and maximize service capabilities of the Blanket Aug Plan- Understand financial investment needed to bring the De Lappe Ditch back to the standards necessary for transport of water- Provide the Grantee with options to consider for future water use planning including potential storage facilities	

Tasks
Task 1 – Master Development Plan
Description of Task:
<p>1a: General Water Resource Assessment: The Grantee will hire an engineering firm to provide an analysis of the county's water portfolio, including current and potential future use and produce a Master Development Plan for the most efficient and productive use of the Grantee's limited water resources.</p> <p>1b: Storage Facility Assessment: The Grantee will hire an engineering firm to provide an assessment of current storage capabilities, including the existing Hayden Pond and the never-constructed Birdseye Reservoir detailed in the Grantee's Blanket Augmentation Plan. The firm will also assess the feasibility of water storage at two sites not covered in the original Blanket Augmentation Plan, but that may be beneficial to the county's water plans going forward.</p>
Method/Procedure:



Tasks
<p>1a: This task will include the following:</p> <ul style="list-style-type: none"> - Accounting of water available vs. current and anticipated demand - Assessment of current county water-related infrastructure to inform on next steps on necessary and priority infrastructure improvements - Determining the most beneficial use of the De Lappe Ditch and how that can plan into future water use planning - Analyze how existing water users can be transitioned to regular customers of any future Water Enterprise - Analysis of how service capabilities under the Blanket Aug Plan can be maximized <p>1b: Assess current, decreed, and potential future water storage as an addendum to the Master Development Plan</p> <ul style="list-style-type: none"> - Analysis of Hayden Pond's potential for use beyond recreation and possibility of its use for storage and delivery related to the Blanket Aug Plan - Assessment of potential for Birdseye Reservoir and how that can benefit Blanket Aug Plan - Property nearby current Mount Massive Golf Course can be serviced by the De Lappe Ditch - "Lily Ponds" on the base of Mt. Elbert and nearby the county's Derry 3 Augmentation Station/Headgate
<p>Grantee Deliverable: (Describe the deliverable the grantee expects from this task)</p>
<p>A Master Development Plan from the engineer detailing the results of their assessment including recommended next steps for implementation of the Blanket Aug Plan and an associated Water Enterprise, as well as how infrastructure will need to be maintained, constructed, or rehabilitated to make near- and long-term progress.</p>
<p>CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)</p>
<p>A Master Development Plan from the engineer detailing the results of their assessment including recommended next steps for implementation of the Blanket Aug Plan and an associated Water Enterprise, as well as how infrastructure will need to be maintained, constructed, or rehabilitated to make near- and long-term progress. An additional document will be provided to CWCB briefly elaborating on the Grantee's findings from the report.</p>

Tasks
<p><u>Task 2 – Ditch Survey and Analysis</u></p>
<p>Description of Task:</p>
<p>2a: Topographic Survey: A licensed and well-qualified surveyor will conduct a topographic survey of the project/Ditch limits, a total distance of approximately 1.4 miles.</p> <p>2b: Ditch Hydraulic Analysis: The contracted engineering firm will provide a limited hydraulic analysis of the proposed De Lappe Ditch cross section.</p>
<p>Method/Procedure:</p>

**Tasks**

2a: Due to the heavy tree cover and length of the Ditch, it is anticipated most of the data will be collected via a traditional 2–3-person survey crew with limited GPS control survey in areas open to sky. This task includes approximately 17 days of field data collection and 5 days of office time to process the survey data. This survey will exclude recovery of property corners and boundary information, however, if survey monuments are recovered during the field survey, they will be shown on the final deliverable. The Grantee will provide mapping and property boundary information as necessary.

2b: Using an anticipated max flow rate of 5 CFS to be used as the design flow for the Ditch, the Grantee will provide a limited hydraulic analysis of the proposed De Lappe Ditch cross section utilizing Bently Flow Master software. Geometry of the ditch section, longitudinal slope of the Ditch and ditch bottom material will be utilized in determining the capacity and size of the Ditch. 1-2' of freeboard over the 5 CFS water surface elevation is anticipated and will be confirmed with the County during the design process.

Existing culverts throughout the Ditch alignment will be evaluated to determine if they have capacity for 5 CFS event or if upsizing of culverts will be necessary. Analysis is limited to the 5 CFS flow rate.

Grantee Deliverable: (Describe the deliverable the grantee expects from this task)

2a: Limits: +/- 1.4 mile long Ditch corridor as described above +/- 20 LF width along the Ditch corridor cross sections of the ditch every +/- 50 LF and at key features (culvert crossings, roadways and changes in direction). Pipe inverts of existing culverts within the Ditch corridor Inverts/stream bed elevations at the Arkansas River intersection/headgate location PDF and AutoCAD files

2b: Drainage Memorandum, Vicinity Map, Hydraulic Calculations, Flow Master Cross-Sections - Flow Master Culvert Analysis

CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)

All documentation provided as deliverable to the CWCB, plus the addition of an analysis of how this work will be used in future water use planning.

Tasks**Task 3 – Environmental Analysis and Planning**

Description of Task:

3a: Aquatic Resource Delineation and Summary Report - Based on a preliminary review of the Project, jurisdictional wetlands and/or surface waters (aquatic features) have the potential to be present within the limits of the project. The Grantee will conduct field reconnaissance to delineate the extents of aquatic features within the project limits.

3b: United States Army Corps of Engineers (USACE) Permitting Support - To allow for the proposed improvements to the De Lappe Ditch near the Arkansas River, a Permit will be required through the Army Corps of Engineers' Pueblo Regulatory Office.

Method/Procedure:

3a: The contracted engineering firm will conduct one (1) day of field reconnaissance to delineate the extents of aquatic features within the project limits in accordance with the U.S. Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual and regional supplement. One (1) upland and one (1) USACE Wetland Determination Data Form will be completed for each aquatic resource, if applicable. One (1) Ordinary High-Water Mark (OHWM) form will be completed for each surface water resource, if applicable. Aquatic resource locational data will be collected via handheld Global Navigation Satellite System receiver.

3b: The accomplishment of this task will require two separate sub-tasks:



Tasks
<ol style="list-style-type: none"> 1. USACE Nationwide Permit Application and Pre-Construction Notification 2. U.S. Fish and Wildlife Service (USFWS) Technical Assistance for USACE Nationwide Permit & Cultural Resource Survey for USACE Permit
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Aquatic Resource Delineation Report, US Army Corps Nationwide Permit Pre-Construction Notification, Listed Species Habitat Assessment Memorandum, Cultural Resource Memorandum, OAHP Form 1420
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Aquatic Resource Delineation Report, US Army Corps Nationwide Permit Pre-Construction Notification, Listed Species Habitat Assessment Memorandum, Cultural Resource Memorandum, OAHP Form 1420

Tasks
<u>Task 4 – Design</u>
Description of Task:
<p>4a: Headgate Analysis and Design - The contracted engineering firm will develop a proposed design for the reconstruction of the existing headgate.</p> <p>4b: Ditch Design - The contracted engineering firm will develop final construction plans for the De Lappe Ditch.</p> <p>4c: Grading, Erosion and Sediment Control (GESC) Plans and Stormwater Management Plan (SWMP) Report - It is anticipated the project limits and disturbance area will exceed 1 acre. Therefore, a Grading, Erosion and Sediment Control Plan and Stormwater Management Plan Report will be required.</p>
Method/Procedure:
<p>4a: The Grantee will hire an engineering firm to evaluate up to three (3) headgate alternatives.</p> <p>4b: The contracted engineering firm will provide plans including the following: cover sheets, general notes, overall site plan, typical sections, ditch plan and profiles, headgate plan, headgate details, construction details.</p> <p>4c: The contracted engineering firm will prepare the following drawings and report: GESC Cover Sheet, GESC Notes, GESC Standard Details, Initial GESC Plan, Final GESC Plan, SWMP Report</p>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
A structural reinforcement design and calculations of the headgate structure that will be used to operate the headgate. This design will include Headgate analysis and calculations, headgate plan, and headgate details.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
The complete plans as detailed in the Grantee Deliverable will also be provided to the CWCB.

**Tasks****Task 5 – Project Meetings and Coordination**

Description of Task:

The Grantee will hire an engineering firm to provide limited support for project meetings and coordination

Method/Procedure:

This task will include the following: Two field meetings with project partners during the design phase. One will be during the final design of phase to coordinate require mitigation and protection features. A second meeting on site will be conducted immediately prior to construction to coordinate the construction approach for compliance with permits and requirements.

Grantee Deliverable: (Describe the deliverable the grantee expects from this task)

Support from the contracted engineering firm with other entities and agencies.

CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)

A report delineating coordination with other entities and agencies that were met with in pursuit of this task.

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

**Reporting Requirements**

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.



COLORADO

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Conservation Board

Department of Natural Resources

Colorado Water Conservation Board

Water Supply Reserve Fund

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

Date: 2/7/2024

Water Activity Name: Lake County Water Resource Assessment

Grantee Name: Lake County Government

<u>Task No.</u>	<u>Description</u>	<u>Start Date</u>	<u>End Date</u>	<u>Matching Funds</u>	<u>WSRF Funds</u>	<u>Total</u>
<u>1</u>	Master Development Plan	2/21/2024	2/21/2029	\$25,350	\$24,650	\$50,000
<u>2</u>	Topographic and Ditch Survey	2/21/2024	2/21/2029	\$25,000	\$27,700	\$52,700
3	Environmental Analysis and Permitting	2/21/2024	2/21/2029	\$0	\$32,000	\$32,000
4	Design	2/21/2024	2/21/2029	\$0	\$58,900	\$58,900
5	Project Meetings and Coordination	2/21/2024	2/21/2029	\$0	\$7,800	\$7,800
Total				\$50,350	\$151,050	\$201,400