

GRANT AWARD LETTER

SUMMARY OF GRANT AWARD TERMS AND CONDITIONS

State Agency Colorado Department of Natural Resources Colorado Water Conservation Board (CWCB) 1313 Sherman St, Room 718 Denver, CO 80203	Contract Number CMS 163996 CTGG1 2021-2281
Grantee Town of Erie	Grant Amount \$200,000.00
Grant Issuance Date The later of 09/30/2020 or the Grant Award Letter Effective date (the date the State Controller or an authorized delegate signs this Grant Letter)	
Grant Expiration Date 03/01/2025	Local Match Amount \$1,276,591.00
Grant Authority 2018 CWCB projects bill, HB18-218, section 11, Implementation of the Colorado Water Plan Appropriation.	
Grant Purpose This project involves the design, construction, and operation of a horizontal directionally drilled (HDD) well near the Town of Erie’s North Water Reclamation Facility (NWRF). The Town is developing an indirect potable (and non-potable) system capable of maximizing the efficient use of their new and existing Boulder Creek water rights through reuse of its Windy Gap water for augmentation purposes.	
Exhibits and Order of Precedence The following Exhibits and attachments are included with this Grant: 1. Exhibit A, Statement of Work. 2. Exhibit B, Budget. In the event of a conflict or inconsistency between this Grant and any Exhibit or attachment, such conflict or inconsistency shall be resolved by reference to the documents in the following order of priority: 1. The provisions of the main body of this Grant. 2. Exhibit A, Statement of Work. 3. Exhibit B, Budget.	
Principal Representatives For the State: Cole Bedford Department of Natural Resources Colorado Water Conservation Board 1313 Sherman St. Room 718 Denver, CO 80203 cole.bedford@state.co.us 303-866-3441 x3234 For Contractor: Todd Fessenden, Public Works Director Town of Erie 645 Holbrook St. P.O. Box 750 Erie, Co 80516 tfessenden@erieco.gov 303-926-2895	

SIGNATURE PAGE

THE SIGNATORIES LISTED BELOW AUTHORIZE THIS GRANT

STATE OF COLORADO

Jared S. Polis, Governor
Department of Natural Resources
Dan Gibbs, Executive Director

DocuSigned by:

Kirk Russell

By: ~~Kirk Russell~~, Section Chief

Date: September 15, 2020 | 7:06 PM PDT

In accordance with §24-30-202 C.R.S., this Grant is not valid until signed and dated below by the State Controller or an authorized delegate.

STATE CONTROLLER
Robert Jaros, CPA, MBA, JD

DocuSigned by:

Ion Cotsapas

By: ~~Robert Jaros~~

Date: September 16, 2020 | 11:24 AM PDT

1. GRANT

As of the Grant Issuance Date, the State Agency shown on the first page of this Grant Award Letter (the “State”) hereby obligates and awards to Grantee shown on the first page of this Grant Award Letter (the “Grantee”) an award of Grant Funds in the amounts shown on the first page of this Grant Award Letter. By accepting the Grant Funds provided under this Grant Award Letter, Grantee agrees to comply with the terms and conditions of this Grant Award Letter and requirements and provisions of all Exhibits to this Grant Award Letter.

2. TERM

A. Initial Grant Term and Extension

The Parties’ respective performances under this Grant Award Letter shall commence on the Grant Issuance Date and shall terminate on the Grant Expiration Date unless sooner terminated or further extended in accordance with the terms of this Grant Award Letter. Upon request of Grantee, the State may, in its sole discretion, extend the term of this Grant Award Letter by providing Grantee with an updated Grant Award Letter showing the new Grant Expiration Date. If the Work will be performed in multiple phases, the period of performance start and end date of each phase is detailed under the Project Schedule in Exhibit B.

B. Early Termination in the Public Interest

The State is entering into this Grant Award Letter to serve the public interest of the State of Colorado as determined by its Governor, General Assembly, or Courts. If this Grant Award Letter ceases to further the public interest of the State or if State, or other funds used for this Grant Award Letter are not appropriated, or otherwise become unavailable to fund this Grant Award Letter, the State, in its discretion, may terminate this Grant Award Letter in whole or in part by providing written notice to Grantee that includes, to the extent practicable, the public interest justification for the termination. If the State terminates this Grant Award Letter in the public interest, the State shall pay Grantee an amount equal to the percentage of the total reimbursement payable under this Grant Award Letter that corresponds to the percentage of Work satisfactorily completed, as determined by the State, less payments previously made. Additionally, the State, in its discretion, may reimburse Grantee for a portion of actual, out-of-pocket expenses not otherwise reimbursed under this Grant Award Letter that are incurred by Grantee and are directly attributable to the uncompleted portion of Grantee’s obligations, provided that the sum of any and all reimbursements shall not exceed the maximum amount payable to Grantee hereunder. This subsection shall not apply to a termination of this Grant Award Letter by the State for breach by Grantee.

3. DEFINITIONS

The following terms shall be construed and interpreted as follows:

- A. “**Budget**” means the budget for the Work described in Exhibit B.
- B. “**Business Day**” means any day in which the State is open and conducting business, but shall not include Saturday, Sunday or any day on which the State observes one of the holidays listed in §24-11-101(1) C.R.S.
- C. “**CORA**” means the Colorado Open Records Act, §§24-72-200.1 *et. seq.*, C.R.S.

- D. **“Grant Award Letter”** means this letter which offers Grant Funds to Grantee, including all attached Exhibits, all documents incorporated by reference, all referenced statutes, rules and cited authorities, and any future updates thereto.
- E. **“Grant Funds”** means the funds that have been appropriated, designated, encumbered, or otherwise made available for payment by the State under this Grant Award Letter.
- F. **“Grant Expiration Date”** means the Grant Expiration Date shown on the first page of this Grant Award Letter.
- G. **“Grant Issuance Date”** means the Grant Issuance Date shown on the first page of this Grant Award Letter.
- H. **“Exhibits”** exhibits and attachments included with this Grant as shown on the first page of this Grant
- I. **“Extension Term”** means the period of time by which the Grant Expiration Date is extended by the State through delivery of an updated Grant Award Letter
- J. **“Goods”** means any movable material acquired, produced, or delivered by Grantee as set forth in this Grant Award Letter and shall include any movable material acquired, produced, or delivered by Grantee in connection with the Services.
- K. **“Incident”** means any accidental or deliberate event that results in or constitutes an imminent threat of the unauthorized access or disclosure of State Confidential Information or of the unauthorized modification, disruption, or destruction of any State Records.
- L. **“Initial Term”** means the time period between the Grant Issuance Date and the Grant Expiration Date.
- M. **“Matching Funds”** means the funds provided Grantee as a match required to receive the Grant Funds.
- N. **“Party”** means the State or Grantee, and **“Parties”** means both the State and Grantee.
- O. **“PII”** means personally identifiable information including, without limitation, any information maintained by the State about an individual that can be used to distinguish or trace an individual’s identity, such as name, social security number, date and place of birth, mother’s maiden name, or biometric records; and any other information that is linked or linkable to an individual, such as medical, educational, financial, and employment information. PII includes, but is not limited to, all information defined as personally
- P. **“Services”** means the services to be performed by Grantee as set forth in this Grant Award Letter, and shall include any services to be rendered by Grantee in connection with the Goods.
- Q. **“State Confidential Information”** means any and all State Records not subject to disclosure under CORA. State Confidential Information shall include, but is not limited to, PII, and State personnel records not subject to disclosure under CORA. State Confidential Information shall not include information or data concerning individuals that is not deemed confidential but nevertheless belongs to the State, which has been communicated, furnished, or disclosed by the State to Contractor which (i) is subject to disclosure pursuant to CORA; (ii) is already known to Contractor without restrictions at the time of its disclosure to Contractor; (iii) is or subsequently becomes publicly available without breach of any obligation owed by Contractor to the State; (iv) is disclosed to Contractor, without confidentiality obligations, by

a third party who has the right to disclose such information; or (v) was independently developed without reliance on any State Confidential Information.

- R. **“State Fiscal Rules”** means the fiscal rules promulgated by the Colorado State Controller pursuant to §24-30-202(13)(a) C.R.S.
- S. **“State Fiscal Year”** means a 12 month period beginning on July 1 of each calendar year and ending on June 30 of the following calendar year. If a single calendar year follows the term, then it means the State Fiscal Year ending in that calendar year.
- T. **“State Records”** means any and all State data, information, and records, regardless of physical form, including, but not limited to, information subject to disclosure under CORA.
- U. **“Subcontractor”** means third-parties, if any, engaged by Grantee to aid in performance of
- V. **“Work”** means the delivery of the Goods and performance of the Services described in this Grant Award Letter.
- W. **“Work Product”** means the tangible and intangible results of the Work, whether finished or unfinished, including drafts. Work Product includes, but is not limited to, documents, text, software (including source code), research, reports, proposals, specifications, plans, notes, studies, data, images, photographs, negatives, pictures, drawings, designs, models, surveys, maps, materials, ideas, concepts, know-how, and any other results of the Work. “Work Product” does not include any material that was developed prior to the Grant Issuance Date that is used, without modification, in the performance of the Work.

Any other term used in this Grant Award Letter that is defined in an Exhibit shall be construed and interpreted as defined in that Exhibit.

4. **STATEMENT OF WORK**

Grantee shall complete the Work as described in this Grant Award Letter and in accordance with the provisions of Exhibit A. The State shall have no liability to compensate or reimburse Grantee for the delivery of any goods or the performance of any services that are not specifically set forth in this Grant Award Letter.

5. **PAYMENTS TO GRANTEE**

A. **Maximum Amount**

Payments to Grantee are limited to the unpaid, obligated balance of the Grant Funds. The State shall not pay Grantee any amount under this Grant that exceeds the Grant Amount for each State Fiscal Year shown on the first page of this Grant Award Letter. Financial obligations of the State payable after the current State Fiscal Year are contingent upon funds for that purpose being appropriated, budgeted, and otherwise made available. The State shall not be liable to pay or reimburse Grantee for any Work performed or expense incurred before the Grant Issuance Date or after the Grant Expiration Date.

B. **Matching Funds.**

Grantee shall provide the Local Match Amount shown on the first page of this Grant Award Letter and described in Exhibit A (the “Local Match Amount”). Grantee shall appropriate and allocate all Local Match Amounts to the purpose of this Grant Award Letter each fiscal year prior to accepting any Grant Funds for that fiscal year. Grantee does not by accepting this Grant Award Letter irrevocably pledge present cash reserves for payments in future fiscal

years, and this Grant Award Letter is not intended to create a multiple-fiscal year debt of Grantee. Grantee shall not pay or be liable for any claimed interest, late charges, fees, taxes or penalties of any nature, except as required by Grantee's laws or policies.

D. Reimbursement of Grantee Costs

The State shall reimburse Grantee's allowable costs, not exceeding the maximum total amount described in this Grant Award Letter for all allowable costs described in this Grant Award Letter and shown in the Budget, except that Grantee may adjust the amounts between each line item of the Budget without formal modification to this Agreement as long as the Grantee provides notice to the State of the change, the change does not modify the total maximum amount of this Grant Award Letter or the maximum amount for any state fiscal year, and the change does not modify any requirements of the Work. The State shall only reimburse allowable costs if those costs are: **(i)** reasonable and necessary to accomplish the Work and for the Goods and Services provided; and **(ii)** equal to the actual net cost to Grantee (i.e. the price paid minus any items of value received by Grantee that reduce the cost actually incurred).

E. Close-Out.

Grantee shall close out this Grant within 45 days after the Grant Expiration Date. To complete close out, Grantee shall submit to the State all deliverables (including documentation) as defined in this Grant Award Letter and Grantee's final reimbursement request or invoice. The State will withhold 5% of allowable costs until all final documentation has been submitted and accepted by the State as substantially complete. **REPORTING - NOTIFICATION**

F. Performance and Final Status

Grantee shall submit all financial, performance and other reports to the State no later than the end of the close out described in §5.E, containing an evaluation and review of Grantee's performance and the final status of Grantee's obligations hereunder.

G. Violations Reporting

Grantee shall disclose, in a timely manner, in writing to the State, all violations of federal or State criminal law involving fraud, bribery, or gratuity violations. The State may impose any penalties for noncompliance which may include, without limitation, suspension or debarment.

6. GRANTEE RECORDS

A. Maintenance and Inspection

Grantee shall make, keep, and maintain, all records, documents, communications, notes and other written materials, electronic media files, and communications, pertaining in any manner to this Grant for a period of three years following the completion of the close out of this Grant. Grantee shall permit the State to audit, inspect, examine, excerpt, copy and transcribe all such records during normal business hours at Grantee's office or place of business, unless the State determines that an audit or inspection is required without notice at a different time to protect the interests of the State.

B. Monitoring

The State will monitor Grantee's performance of its obligations under this Grant Award Letter using procedures as determined by the State. The State shall have the right, in its sole discretion, to change its monitoring procedures and requirements at any time during the term of this Agreement. The State shall monitor Grantee's performance in a manner that does not unduly interfere with Grantee's performance of the Work.

C. Final Audit Report

Grantee shall promptly submit to the State a copy of any final audit report of an audit performed on Grantee's records that relates to or affects this Grant or the Work, whether the audit is conducted by Grantee or a third party.

7. CONFIDENTIAL INFORMATION-STATE RECORDS

A. Confidentiality

Grantee shall hold and maintain, and cause all Subcontractors to hold and maintain, any and all State Records that the State provides or makes available to Grantee for the sole and exclusive benefit of the State, unless those State Records are otherwise publically available at the time of disclosure or are subject to disclosure by Grantee under CORA. Grantee shall not, without prior written approval of the State, use for Grantee's own benefit, publish, copy, or otherwise disclose to any third party, or permit the use by any third party for its benefit or to the detriment of the State, any State Records, except as otherwise stated in this Grant Award Letter. Grantee shall provide for the security of all State Confidential Information in accordance with all policies promulgated by the Colorado Office of Information Security and all applicable laws, rules, policies, publications, and guidelines. Grantee shall immediately forward any request or demand for State Records to the State's principal representative.

B. Other Entity Access and Nondisclosure Agreements

Grantee may provide State Records to its agents, employees, assigns and Subcontractors as necessary to perform the Work, but shall restrict access to State Confidential Information to those agents, employees, assigns and Subcontractors who require access to perform their obligations under this Grant Award Letter. Grantee shall ensure all such agents, employees, assigns, and Subcontractors sign nondisclosure agreements with provisions at least as protective as those in this Grant, and that the nondisclosure agreements are in force at all times the agent, employee, assign or Subcontractor has access to any State Confidential Information. Grantee shall provide copies of those signed nondisclosure restrictions to the State upon request.

C. Use, Security, and Retention

Grantee shall use, hold and maintain State Confidential Information in compliance with any and all applicable laws and regulations in facilities located within the United States, and shall maintain a secure environment that ensures confidentiality of all State Confidential Information wherever located. Grantee shall provide the State with access, subject to Grantee's reasonable security requirements, for purposes of inspecting and monitoring access and use of State Confidential Information and evaluating security control effectiveness. Upon the expiration or termination of this Grant, Grantee shall return State Records provided to Grantee or destroy such State Records and certify to the State that it has done so, as directed

by the State. If Grantee is prevented by law or regulation from returning or destroying State Confidential Information, Grantee warrants it will guarantee the confidentiality of, and cease to use, such State Confidential Information.

D. Incident Notice and Remediation

If Grantee becomes aware of any Incident, it shall notify the State immediately and cooperate with the State regarding recovery, remediation, and the necessity to involve law enforcement, as determined by the State. After an Incident, Grantee shall take steps to reduce the risk of incurring a similar type of Incident in the future as directed by the State, which may include, but is not limited to, developing and implementing a remediation plan that is approved by the State at no additional cost to the State.

E. Safeguarding PII

If Grantee or any of its Subcontractors will or may receive PII under this Agreement, Grantee shall provide for the security of such PII, in a manner and form acceptable to the State, including, without limitation, State non-disclosure requirements, use of appropriate technology, security practices, computer access security, data access security, data storage encryption, data transmission encryption, security inspections, and audits. Grantee shall be a "Third-Party Service Provider" as defined in §24-73-103(1)(i), C.R.S. and shall maintain security procedures and practices consistent with §§24-73-101 *et seq.*, C.R.S.

8. CONFLICTS OF INTEREST

Grantee shall not engage in any business or activities, or maintain any relationships that conflict in any way with the full performance of the obligations of Grantee under this Grant. Grantee acknowledges that, with respect to this Grant, even the appearance of a conflict of interest shall be harmful to the State's interests and absent the State's prior written approval, Grantee shall refrain from any practices, activities or relationships that reasonably appear to be in conflict with the full performance of Grantee's obligations under this Grant. If a conflict or the appearance of a conflict arises, or if Grantee is uncertain whether a conflict or the appearance of a conflict has arisen, Grantee shall submit to the State a disclosure statement setting forth the relevant details for the State's consideration.

9. INSURANCE

Grantee shall maintain at all times during the term of this Grant such liability insurance, by commercial policy or self-insurance, as is necessary to meet its liabilities under the Colorado Governmental Immunity Act, §24-10-101, *et seq.*, C.R.S. (the "GIA"). Grantee shall ensure that any Subcontractors maintain all insurance customary for the completion of the Work done by that Subcontractor and as required by the State or the GIA.

10. REMEDIES

In addition to any remedies available under any exhibit to this Grant Award Letter, if Grantee fails to comply with any term or condition of this Grant, the State may terminate some or all of this Grant and require Grantee to repay any or all Grant funds to the State in the State's sole discretion. The State may also terminate this Grant Award Letter at any time if the State has determined, in its sole discretion, that Grantee has ceased performing the Work without intent to resume performance, prior to the completion of the Work.

11. DISPUTE RESOLUTION

Except as herein specifically provided otherwise, disputes concerning the performance of this Grant that cannot be resolved by the designated Party representatives shall be referred in writing to a senior departmental management staff member designated by the State and a senior manager or official designated by Grantee for resolution.

12. NOTICES AND REPRESENTATIVES

Each Party shall identify an individual to be the principal representative of the designating Party and shall provide this information to the other Party. All notices required or permitted to be given under this Grant Award Letter shall be in writing, and shall be delivered either in hard copy or by email to the representative of the other Party. Either Party may change its principal representative or principal representative contact information by notice submitted in accordance with this §13.

13. RIGHTS IN WORK PRODUCT AND OTHER INFORMATION

Grantee hereby grants to the State a perpetual, irrevocable, non-exclusive, royalty free license, with the right to sublicense, to make, use, reproduce, distribute, perform, display, create derivatives of and otherwise exploit all intellectual property created by Grantee or any Subcontractors or Subgrantees and paid for with Grant Funds provided by the State pursuant to this Grant.

14. GOVERNMENTAL IMMUNITY

Liability for claims for injuries to persons or property arising from the negligence of the Parties, their departments, boards, commissions committees, bureaus, offices, employees and officials shall be controlled and limited by the provisions of the Colorado Governmental Immunity Act, §24-10-101, et seq., C.R.S.; the Federal Tort Claims Act, 28 U.S.C. Pt. VI, Ch. 171 and 28 U.S.C. 1346(b), and the State's risk management statutes, §§24-30-1501, et seq. C.R.S. No term or condition of this Contract shall be construed or interpreted as a waiver, express or implied, of any of the immunities, rights, benefits, protections, or other provisions, contained in these statutes.

15. GENERAL PROVISIONS**A. Assignment**

Grantee's rights and obligations under this Grant are personal and may not be transferred or assigned without the prior, written consent of the State. Any attempt at assignment or transfer without such consent shall be void. Any assignment or transfer of Grantee's rights and obligations approved by the State shall be subject to the provisions of this Grant Award Letter.

B. Captions and References

The captions and headings in this Grant Award Letter are for convenience of reference only, and shall not be used to interpret, define, or limit its provisions. All references in this Grant Award Letter to sections (whether spelled out or using the § symbol), subsections, exhibits or other attachments, are references to sections, subsections, exhibits or other attachments contained herein or incorporated as a part hereof, unless otherwise noted.

C. Entire Understanding

This Grant Award Letter represents the complete integration of all understandings between the Parties related to the Work, and all prior representations and understandings related to the Work, oral or written, are merged into this Grant Award Letter.

D. Modification

The State may modify the terms and conditions of this Grant by issuance of an updated Grant Award Letter, which shall be effective if Grantee accepts Grant Funds following receipt of the updated letter. The Parties may also agree to modification of the terms and conditions of the Grant in a formal amendment to this Grant, properly executed and approved in accordance with applicable Colorado State law and State Fiscal Rules.

E. Statutes, Regulations, Fiscal Rules, and Other Authority.

Any reference in this Grant Award Letter to a statute, regulation, State Fiscal Rule, fiscal policy or other authority shall be interpreted to refer to such authority then current, as may have been changed or amended since the Grant Issuance Date. Grantee shall strictly comply with all applicable Federal and State laws, rules, and regulations in effect or hereafter established, including, without limitation, laws applicable to discrimination and unfair employment practices.

F. Digital Signatures

If any signatory signs this agreement using a digital signature in accordance with the Colorado State Controller Contract, Grant and Purchase Order Policies regarding the use of digital signatures issued under the State Fiscal Rules, then any agreement or consent to use digital signatures within the electronic system through which that signatory signed shall be incorporated into this Contract by reference.

G. Severability

The invalidity or unenforceability of any provision of this Grant Award Letter shall not affect the validity or enforceability of any other provision of this Grant Award Letter, which shall remain in full force and effect, provided that the Parties can continue to perform their obligations under the Grant in accordance with the intent of the Grant.

H. Survival of Certain Grant Award Letter Terms

Any provision of this Grant Award Letter that imposes an obligation on a Party after termination or expiration of the Grant shall survive the termination or expiration of the Grant and shall be enforceable by the other Party.

I. Third Party Beneficiaries

Except for the Parties' respective successors and assigns described above, this Grant Award Letter does not and is not intended to confer any rights or remedies upon any person or entity other than the Parties. Any services or benefits which third parties receive as a result of this Grant are incidental to the Grant, and do not create any rights for such third parties.

J. Waiver

A Party's failure or delay in exercising any right, power, or privilege under this Grant Award Letter, whether explicit or by lack of enforcement, shall not operate as a waiver, nor shall any single or partial exercise of any right, power, or privilege preclude any other or further exercise of such right, power, or privilege.

Colorado Water Conservation Board
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Water Plan Grant - Exhibit A

Statement Of Work

Date:	September 10, 2020
Name of Grantee:	Town of Erie
Name of Water Project:	Horizontal Well Pilot Project
Funding Source:	Cash Funded, CWCB CWP Grant, Division of Local Affairs Energy Mineral Impact Assistance Fund Grant (application pending)

Water Project Overview:

Many water wells in Colorado are in shallow alluvial aquifers, some downstream of wastewater effluent discharges. These conditions present yield and water quality issues that are challenging for conventional vertical wells. Horizontal wells have been used extensively in other fields (oil and gas, dewatering, environmental), but have yet to be used extensively in water resources.

This project involves the design, construction, and operation of a horizontal directionally drilled (HDD) well near the Town of Erie's North Water Reclamation Facility (NWRf). The Town is developing an indirect potable (and non-potable) system capable of maximizing the efficient use of their new and existing Boulder Creek water rights through reuse of its Windy Gap water for augmentation purposes. The HDD well will be designed to maximize yield while also providing riverbank filtration (RBF) water quality improvements that will act as water pre-treatment, reducing water treatment plant upgrades. The Town will use the HDD Well Pilot results to improve designs for the rest of the system, which may ultimately include five (5) more HDD wells. The HDD Well Pilot results will also be distributed to other entities considering water supply development in shallow alluvial aquifers.

The grant will cover two tasks:

1. Engineering and Construction
2. Study (Pilot Operations, Reporting and Community Workshop)

Project Objectives:

The project objectives include:

1. Design and construct an HDD well near the NWRf.
2. Operate a pilot facility that diverts Boulder Creek water through the alluvial aquifer.
3. Install and operate advanced monitoring and sampling systems that can quantify the yield and water quality improvements from the HDD well.
4. Summarize the Pilot results in a public HDD Wells Best Practices document.
5. Coordinate a community workshop to disseminate the Pilot study results to entities interested in developing alluvial aquifer water supplies.

Tasks	
Task 1 – Engineering and Construction	
Description of Task:	
<p>This task will collect new and existing site data for design of an HDD well and pilot facility. Field investigation will include site survey and monitoring well drilling. Additional planning will include Division of Water Resources permitting and well construction variance applications. The HDD Well Pilot facility design will include:</p> <ul style="list-style-type: none"> • An HDD well, approximately 850 feet long, with a 600 foot screen, crossing under Boulder Creek • Pipelines allowing for discharge water to be pumped back to Boulder Creek (approximately 300 foot pipeline) or to an existing water reuse pipeline south of the NWRf treatment plant (approximately 3,400 foot pipeline) • Four (4) new monitoring wells near the HDD well • Hydrologic and water quality monitoring/ sampling equipment • A building for well controls, electrical, and communications equipment • A Boulder Creek stream gage installed upstream of the NWRf Facility <p>Following this work this task will also include the construction of the HDD Well Pilot facility, contractor management, and project coordination.</p> <p>Grant will cover the cost of developing the Technical Report on Construction and Testing Results and the Technical Specifications and Bid Documents, currently estimated at \$73,806.</p>	
Method/Procedure:	
<p>Task 1 methods and procedures will include:</p> <ul style="list-style-type: none"> • Sonic drilling for monitoring well installation and lithologic logging of the subsurface • Land survey of the pilot facility and surrounding area • Hydrogeologic, civil, and geotechnical design 	
Deliverable:	
<p>Task 1 will result in a grantee bid package (designs and specifications) suitable for procurement of contractors for construction of the HDD Well Pilot facility and a technical report on construction and testing results.</p>	

Tasks	
Task 2 – Study (Pilot Operations, Reporting and Community Workshop)	
Description of Task:	

Tasks

Task 2 will include the following sub-tasks:

- Development of a pilot operations/testing plan
- HDD well start-up, testing, and operations for 6-12 months
- Hydrologic system monitoring (surface water flow, groundwater levels, well pumping, etc.)
- Water quality monitoring (surface water and groundwater: temperature, specific conductivity, other parameters)
- Water quality sampling (surface water and groundwater)
- Pilot test data analysis

Grant will cover the cost of Pilot Operations (excluding the temporary pump install, the generator rental, and a portion of the project administration support) and Reporting currently estimated at \$126,194.

Method/Procedure:

Task 2 will begin with the development of a Pilot operations and testing plan. The goal will be to observe system performance under seasonally varying creek flow and water quality. The HDD well will be operated at different flow rates to determine maximum yields and water quality improvements under different creek conditions.

Field data collection will include use of data logging pressure transducers/meters to monitor hydrologic system and water quality parameters. Flow meters will monitor well yield, with discharge samples collected through an automated water sampling device. Water quality samples will be collected from Boulder Creek and monitoring wells. Samples will sent to an analytical laboratory for full drinking water parameter analysis or a subset of indicator analyses that can characterize RBF water quality improvements.

Deliverable:

An HDD Well Best Practices report will be prepared that summarizes initial field investigation, HDD well design, pilot facility infrastructure, Task 3 monitoring observations, and the results of well yield and water quality optimization. Conclusions and recommendations will be made to help aid future HDD well planning and design.

A community workshop will be prepared and advertised for water supply entities interested in developing alluvial aquifer water supplies. The workshop will be publicized through the South Platte, Metro, and Arkansas Basin Roundtables. Other entities known to be working in alluvial aquifers will also be contacted directly. The workshop will present the results of the HDD Well Pilot and the best practices report. The workshop will facilitate sharing of information between alluvial aquifer groundwater users.

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.

Reporting Requirements

Progress Reports: The applicant 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.

Reporting Requirements

Final Report: At completion of the project, the applicant shall provide the CWCB a Final Report on the applicant'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.

The CWCB will pay out the last 10% of the 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 purchase order or grant will be closed without any further payment.

Payment

Payment will be made based on actual expenditures and must include invoices for all work completed. 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.

Costs incurred prior to the effective date of this contract are not reimbursable. The last 10% of the entire grant will be paid out when the final deliverable has been received. All products, data and information developed as a result of this contract must be provided to CWCB in hard copy and electronic format as part of the project documentation.

Performance Measures

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 C. Per Water Plan Grant Guidelines, the CWCB will pay out the last 10% of the 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 purchase order or grant will be closed without any further payment.

(b) Accountability: Per Water Plan 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 Water Plan 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.

EXHIBIT B, BUDGET


 COLORADO Colorado Water Conservation Board Department of Natural Resources						
Colorado Water Conservation Board						
Water Plan Grant - Exhibit B Budget and Schedule						
Prepared Date: September 10, 2020						
Name of Applicant: Town of Erie						
Name of Water Project: Horizontal Well Pilot Project						
Project Start Date: 09/30/2020						
Project End Date: 3/1/2025						
Task No.	Task Description	Task Start Date	Task End Date	Grant Funding Request	Match Funding	Total
1	Engineering and Construction	9/30/2020	1/1/2021	\$73,806	\$1,157,650	\$1,231,456
2	Study (Pilot Operations, Reporting and Community Workshop)	9/30/2020	3/1/2025	\$126,194	\$118,941	\$245,135
Total				\$200,000	\$1,276,591	\$1,476,591
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Exhibit B
 CMS 163996
 CTGG1 2021-2281