



Last Updated: June 2020

Colorado Water Conservation Board

Water Plan Grant Application

Instructions

To receive funding for a Water Plan Grant, applicant must demonstrate how the project, activity, or process (collectively referred to as “project”) funded by the CWCB will help meet the measurable objectives and critical actions in the Water Plan. Grant guidelines are available on the CWCB website.

If you have questions, please contact CWCB at (303) 866-3441 or email the following staff to assist you with applications in the following areas:

Water Storage Projects
Conservation, Land Use Planning
Engagement & Innovation Activities
Agricultural Projects
Environmental & Recreation
Projects

Matthew.Stearns@state.co.us
Kevin.Reidy@state.co.us
Ben.Wade@state.co.us
Alexander.Funk@state.co.us
Chris.Sturm@state.co.us

FINAL SUBMISSION: Submit all application materials in one email to

waterplan.grants@state.co.us

in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents. In the subject line, please include the funding category and name of the project.

Water Project Summary

Name of Applicant	Genesee Water & Sanitation District	
Name of Water Project	Enlargement of Genesee Reservoir No. 1	
CWP Grant Request Amount		\$1,500,000
Other Funding Sources <u>CWCB Construction Loan</u>		\$2,742,000
Other Funding Sources _____	\$	
Other Funding Sources _____	\$	
Applicant Funding Contribution	\$	
Total Project Cost		\$4,242,000



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Applicant & Grantee Information	
Name of Grantee(s)	Genesee Water & Sanitation District
Mailing Address	2310 Bitterroot Lane, Golden, CO 80401
FEIN	84-0748170
Organization Contact	Scott Jones
Position/Title	District Manager
Email	sjones@geneseeewater.com
Phone	303-278-9780
Grant Management Contact	Scott Jones, Erin Carriere, Carole Marie
Position/Title	District Manager, Director of Administration, Administrative Assistant
Email	sjones@geneseeewater.com , ecarriere@geneseeewater.com , cmarie@geneseeewater.com
Phone	303-278-9780
Name of Applicant (if different than grantee)	Applicant is the same as the Grantee
Mailing Address	
Position/Title	
Email	
Phone	
Description of Grantee/Applicant	
Provide a brief description of the grantee's organization (100 words or less).	
<p>The Genesee Water & Sanitation District is a Special District organized under the laws of the State of Colorado. The District is considered a governmental subdivision of the State of Colorado and as a corporate body has all the powers of a public or quasi-municipal corporation, with facilities, services and financial arrangements that conform as far as practicable to the approved Service Plan and Resolution of Approval of the Board of Commissioners of Jefferson County, Colorado. As required by Chapter 89, Article 18 of the Colorado Revised Statutes 1963 and the 1965 Supplement, this approved Service Plan was incorporated into the Order which formed the District: Civil Action No. 42093-3 dated July 3, 1973.</p>	



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Type of Eligible Entity (check one)	
	Public (Government): Municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
X	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: Private parties may be eligible for funding.
	Non-governmental organizations (NGO): Organization that is not part of the government and is non-profit in nature.
	Covered Entity: As defined in Section 37-60-126 Colorado Revised Statutes .

Type of Water Project (check all that apply)	
	Study
X	Construction
	Identified Projects and Processes (IPP)
	Other

Category of Water Project (check the primary category that applies and include relevant tasks)	
X	<p>Water Storage - Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity and Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap.</p> <p><i>Applicable Exhibit A Task(s):</i> Task 1 – Final Design Engineering & Permitting Task 2 – Reservoir Enlargement Construction</p>
	<p>Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning.</p> <p><i>Applicable Exhibit A Task(s):</i></p>
	<p>Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website.</p> <p><i>Applicable Exhibit A Task(s):</i></p>
	<p>Agricultural - Projects that provide technical assistance and improve agricultural efficiency.</p> <p><i>Applicable Exhibit A Task(s):</i></p>
	<p>Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation.</p> <p><i>Applicable Exhibit A Task(s):</i></p>



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	Other	Explain:
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Location of Water Project

Please provide the general county and coordinates of the proposed project below in **decimal degrees**. The Applicant shall also provide, in Exhibit C, a site map if applicable.

County/Countries	Jefferson County
Latitude	39° 40' 24" North
Longitude	105° 16' 15" West

Water Project Overview

Please provide a summary of the proposed water project (200 words or less). Include a description of the project and what the CWP Grant funding will be used for specifically (e.g., studies, permitting process, construction). Provide a description of the water supply source to be utilized or the water body affected by the project, where applicable. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, and area of habitat improvements, where applicable. If this project addresses multiple purposes or spans multiple basins, please explain.

The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.

The project involves increasing the storage capacity in the District's existing Genesee Reservoir No. 1 by enlarging the existing embankment dam and modifying inlet and outlet piping so that active storage capacity can be increased by 46 acre-feet. This would increase the District's raw water storage capacity by about 50 percent. Genesee Reservoir No. 1 is an existing off-channel reservoir that is filled with water pumped from Bear Creek near Kittredge, CO. The Colorado Water Plan Grant will be used to offset reservoir enlargement design, permitting, and construction costs. The construction of the reservoir enlargement is currently scheduled for 2022. The water provided by the enlargement will increase drought protection and protect the health and safety of more than 3,900 people who depend on a reliable, high quality, municipal water supply within the District's boundaries. The enlargement will also increase the District's operational reliability and protect the District's existing conditional water rights by putting some of the District's water rights to beneficial use. In extreme drought periods, the Project would allow the District to use its state-of-the-art drinking water plant, that was put on-line in September of 2017, to reuse sewage effluent when it is legally able to do so. The additional water storage could also be made available to other Bear Creek water users through temporary leases or water purchases. The additional water supply could also provide some limited water based recreation opportunities.



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Measurable Results		
To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:		
30	New Storage Created (acre-feet)	
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
16	Existing Storage Preserved or Enhanced (acre-feet)	
	Length of Stream Restored or Protected (linear feet)	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
	Area of Restored or Preserved Habitat (acres)	
	Quantity of Water Shared through Alternative Transfer Mechanisms	
	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning	
	Number of Coloradans Impacted by Engagement Activity	
X	Other	Explain: The 16 acre-feet of enhanced storage noted above would be converted from augmentation water to actual wet water that can be treated and delivered to the District's customers.

Water Project Justification
<p>Provide a description of how this water project supports the goals of Colorado's Water Plan, the most recent Statewide Water Supply Initiative, and the applicable Roundtable Basin Implementation Plan and Education Action Plan. The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).</p> <p>The proposed water project shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan Framework for State of Colorado Support for a Water Project (CWP, Section 9.4, pp. 9-43 to 9-44;)</p>
<ul style="list-style-type: none">• This Project increases water storage by enlarging an existing off-channel reservoir and helps reduced the water storage and water demand deficit in the State of Colorado, the South Platte River and Bear Creek River basins and in Jefferson County.• The additional storage provides additional insurance against droughts and provides for additional protection due to increased climate change.• The revised inlet and outlet piping for the enlarged reservoir would allow for the reuse of water during drought emergencies, if it became necessary to do so.• The enlarged reservoir could provide some limited water-based recreational opportunities.



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Related Studies

Please provide a list of any related studies, including if the water project is complementary to or assists in the implementation of other CWCB programs.

1. Feasibility Study to Increase Raw Water Storage for the Genesee Water & Sanitation District, prepared for the Genesee Water & Sanitation District and the Colorado Water Conservation Board by W. W. Wheeler & Associates, Inc., July 2020. The feasibility study was partially funded by a Colorado Water Conservation Board Feasibility Study Grant in the amount of \$37,387 that was awarded to the District on April 24, 2019.

Previous CWCB Grants, Loans or Other Funding

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order; 6) Percentage of other CWCB funding for your overall project.

1. The Colorado Water Conservation Board approved a Water Project Loan for the Project that was awarded to the Genesee Water Sanitation District (applicant and grantee) at the September 2020 Board meeting.

2. The above-referenced Colorado Water Conservation Board Feasibility Study Grant in the amount of \$37,387 that was awarded to the District on April 24, 2019.

Taxpayer Bill of Rights

The Taxpayer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect your application.

The Project will be fully funded through the District's Enterprise Fund through a Revenue Pledge, which is exempt from TABOR issues.



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Submittal Checklist	
	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract .
Exhibit A	
	Statement of Work ⁽¹⁾
	Budget & Schedule ⁽¹⁾
	Engineer's statement of probable cost (projects over \$100,000)
	Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾
Exhibit C	
	Map (if applicable) ⁽¹⁾
	Photos/Drawings/Reports
	Letters of Support (Optional)
	Certificate of Insurance (General, Auto, & Workers' Comp.) ⁽²⁾
	Certificate of Good Standing with Colorado Secretary of State ⁽²⁾
	W-9 ⁽²⁾
	Independent Contractor Form ⁽²⁾ (If applicant is individual, not company/organization)
Engagement & Innovation Grant Applicants ONLY	
	Engagement & Innovation Supplemental Application ⁽¹⁾

(1) Required with application.

(2) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.

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ENGAGEMENT & INNOVATION GRANT FUND SUPPLEMENTAL APPLICATION

Introduction & Purpose

Colorado's Water Plan calls for an outreach, education, public engagement, and innovation grant fund in Chapter 9.5.

The overall goal of the Engagement & Innovation Grant Fund is to enhance Colorado's water communication, outreach, education, and public engagement efforts; advance Colorado's water supply planning process; and support a statewide water innovation ecosystem.

The grant fund aims to engage the public to promote well-informed community discourse regarding balanced water solutions statewide. The grant fund aims to support water innovation in Colorado. The grant fund prioritizes measuring and evaluating the success of programs, projects, and initiatives. The grant fund prioritizes efforts designed using research, data, and best practices. The grant fund prioritizes a commitment to collaboration and community engagement. The grant fund will support local and statewide efforts.

The grant fund is divided into two tracks: engagement and innovation. The Engagement Track supports education, outreach, communication, and public participation efforts related to water. The Innovation Track supports efforts that advance the water innovation ecosystem in Colorado.

Application Questions

*The grant fund request is referred to as "project" in this application.

Overview (answer for both tracks)
<p>In a few sentences, what is the overall goal of this project? How does it achieve the stated purpose of this grant fund (above)?</p> <p>The project objective is to increase the District's existing raw water storage capacity by about 50 percent to provide additional drought protection, increase its operational reliability and flexibility, and protect its existing water rights. The enlarged reservoir could also provide limited water-based recreation activities.</p>
<p>Who is/are the target audience(s)? How will you reach them? How will you involve the community?</p> <p>The target audience will be the District's existing customers who will be asked to finance the project through modest increases in monthly water bills. The District will continue to engage its customers through newsletters, flyers, and public meetings.</p>
<p>Describe how the project is collaborative or engages a diverse group of stakeholders. Who are the partners in the project? Do you have other funding partners or sources?</p> <p>Some of the key stakeholders that will benefit from this project include the following:</p> <ul style="list-style-type: none"> • The Genesee Foundation, which is the primary home owners association in the District, as well as nine other but smaller HOA's. • The District's customers.



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Overview (answer for both tracks)
<ul style="list-style-type: none">• The Genesee Fire Protection District.• The Foothills Fire Protection District.• The Bear Creek Watershed Association. <p>The other stakeholders listed above do not have available funding sources.</p>
Describe how you plan to measure and evaluate the success and impact of the project?
Successfully bidding, constructing, and operating the project to provide increased drought protection to the District customers over the 50-year design life of the project.
What research, evidence, and data support your project?
The CWCB water project loan feasibility report prepared by W. W. Wheeler & Associates, Inc. in July of 2020.
Describe potential short- and long-term challenges with this project.
The short-term challenges include preparing a dam enlargement design package for approval by the Colorado Division of Water Resources and successfully bidding and constructing the dam enlargement project. The long-term challenges include operating and maintaining the enlarged reservoir and its appurtenances. These are challenges that the applicant has previously overcome on many similar projects.
<p>Please fill out the applicable questions for either the Engagement Track or Innovation Track, unless your project contains elements in both tracks. If a question does not relate to your project, just leave it blank. Please answer each question that relates to your project. Please reference the relevant documents and use chapters and page numbers (Colorado's Water Plan, Basin Implementation Plan, PEPO Education Action Plan, etc.).</p>
Engagement Track
Describe how the project achieves the education, outreach, and public engagement measurable objective set forth in Colorado's Water Plan to "significantly improve the level of public awareness and engagement regarding water issues statewide by 2020, as determined by water awareness surveys."
The District will continue to conduct public outreach with its customers to help them understand that importance of additional raw water storage to provide a more reliable water supply and protect the health and safety of its customers during future droughts and reduced Bear Creek flows due to climate change. The District will also continue to promote water conservation to discourage lawn irrigation.
Describe how the project achieves the other measurable objectives and critical goals and actions laid out in Colorado's Water Plan around the supply and demand gap; conservation; land use; agriculture; storage; watershed health, environment, and recreation; funding; and additional.



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The project will increase raw water storage by enlarging an existing, off-channel reservoir and will help reduce the overall water supply and demand gap in the South Platte River and Jefferson County. An increased surface area of the reservoir could also provide enhanced water-based recreation.
Describe how the project achieves the education, outreach, and public engagement goals set forth in the applicable Basin Implementation Plan(s).
The District will conduct public outreach with its customers to help them understand that importance of additional raw water storage to provide a more reliable water supply and protect the health and safety of its customers during future droughts and reduced Bear Creek flows due to climate change.
Describe how the project achieves the basin roundtable's PEPO Education Action Plans.
Not Applicable

Innovation Track (Not Applicable to this Project)
Describe how the project enhances water innovation efforts and supports a water innovation ecosystem in Colorado.
Describe how the project engages/leverages Colorado's innovation community to help solve our state's water challenges.
Describe how the project helps advance or develop a solution to a water need identified through TAP-IN and other water innovation challenges. What is the problem/need/challenge?
Describe how this project impacts current or emerging trends; technologies; clusters, sectors, or groups in water innovation.



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Colorado Water Conservation Board	
Water Plan Grant - Exhibit A	

Statement Of Work	
Date:	December 1, 2020
Name of Grantee:	Genesee water & Sanitation District
Name of Water Project:	Enlargement of Genesee Reservoir No. 1
Funding Source:	Colorado Water Plan Grant for Water Storage Projects
Water Project Overview:	
<p>The project involves increasing the storage capacity in the District's existing Genesee Reservoir No. 1 by enlarging the existing embankment dam and modifying inlet and outlet piping so that active, treatable storage capacity can be increased by 46 acre-feet. Genesee Reservoir No. 1 is an existing off-channel reservoir that is filled with water pumped from Bear Creek near Kittredge, CO. The Colorado Water Plan Grant will be used to offset final design engineering, permitting, and construction costs associated with the reservoir enlargement. Construction is currently scheduled for 2022. The water provided by the enlargement will increase drought protection and protect the health and safety of more than 3,900 people who are dependent on a reliable, high quality municipal water supply within the District's boundaries. The enlargement will also increase the District's operational reliability and protect the District's existing conditional water rights. In extreme drought conditions, the project would allow the District to reuse treated sewage effluent when legally allowed to do so, to provide emergency water supplies. The additional water storage could also be made available to other Bear Creek water users through temporary leases or water purchases. The additional water supply could also provide water based recreation for the local citizens</p>	
Project Objectives:	
<p>The project objective is to increase the District's existing raw water storage capacity by about 50 percent to provide additional drought protection, increase its operational reliability and flexibility, and protect its existing water rights. The enlarged reservoir could also provide limited water-based recreation activities.</p>	



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Tasks
Task 1 – Final Design Engineering & Permitting
Description of Task: Complete a final design package of drawings, specifications, and engineering calculations for approval by the Colorado Dam Safety Department of the Colorado Division of Water Resources and obtain local, state, and federal permits for the project.
Method/Procedure:
The final design includes documenting hydrologic analysis, hydraulic calculations, site geology evaluations, geotechnical analysis, and structural analysis to support the construction drawings and specifications. The permitting will involve obtaining local grading and stormwater permits from Jefferson County and a Nationwide 404 Permit from the U.S. Army Corps of Engineers.
Deliverable:
Approved construction documents from the Colorado Dam Safety Department and local and federal permits for the construction. This work will be documented in monthly engineering invoices.

Tasks
Task 2 – Reservoir Enlargement Construction
Description of Task: Construction Cost Reimbursement for Reservoir Enlargement
Method/Procedure:
The existing dam will be enlarged with additional fill and an upstream crest parapet wall that will provide additional flood routing storage for the raised normal high water line. The enlargement will also involve modifying the existing side channel spillway and provide a new membrane liner for the enlarged reservoir. The inlet and outlet piping will also be revised to allow complete use of the dead storage in the reservoir as a raw water drinking water treatment source. See Exhibit B for the anticipated construction bid tab.
Deliverable:
Monthly construction contractor pay estimates and construction engineering invoices will be provided for reimbursement during the construction period. At the end of construction, a letter accepting the construction will be required from the Colorado Dam Safety Department.

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.

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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.

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 B. 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.



Water Plan Grant - Exhibit B

Budget and Schedule

Name of Applicant: Genesee Water & Sanitation District

Name of Water Project: Enlargement of Genesee Reservoir No. 1

Project Start Date: June 1, 2021

Project End Date: December 1, 2022

Task No.	Task Description	Task Start Date	Task End Date	Grant Funding Request	Match Funding	Total
NA	CWCB Loan Origination Fee	1/1/2023	2/1/2023	\$0	\$42,000	\$42,000
1	Engineering & Permitting	6/1/2021	12/1/2022	\$420,690	\$140,230	\$560,920
2	Construction	6/1/2022	12/1/2022	\$2,729,310	\$909,770	\$3,639,080
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
Total				\$3,150,000	\$1,092,000	\$4,242,000



Genesee

FIRE PROTECTION DISTRICT

June 17, 2020

The Genesee Fire Protection District (GFPD) Board understands that the Genesee Water & Sanitation District is proposing an expansion of the existing water storage pond located on the Bitterroot campus. This expansion would increase storage in the pond by about 30-acre feet of water. While development of this project is not a critical component for fire protection and is not required for GFPD to continue maintaining a high level of fire protection within the District, the GFPD Board acknowledges that having redundancy and additional capacity in the available water supply is a potential benefit to the Fire District.

Board of Directors
Genesee Fire Protection District

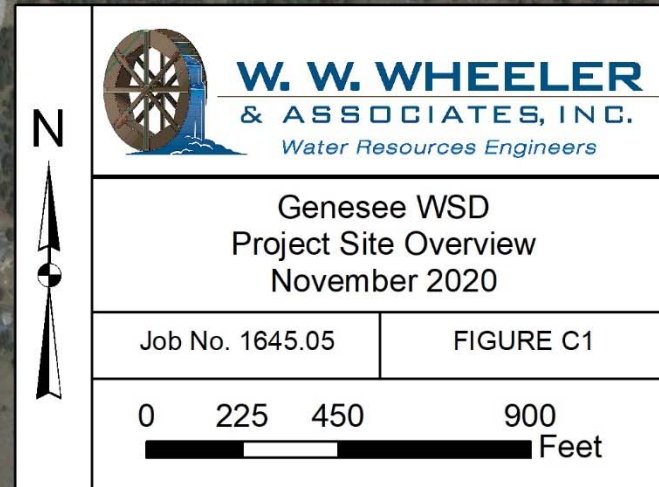
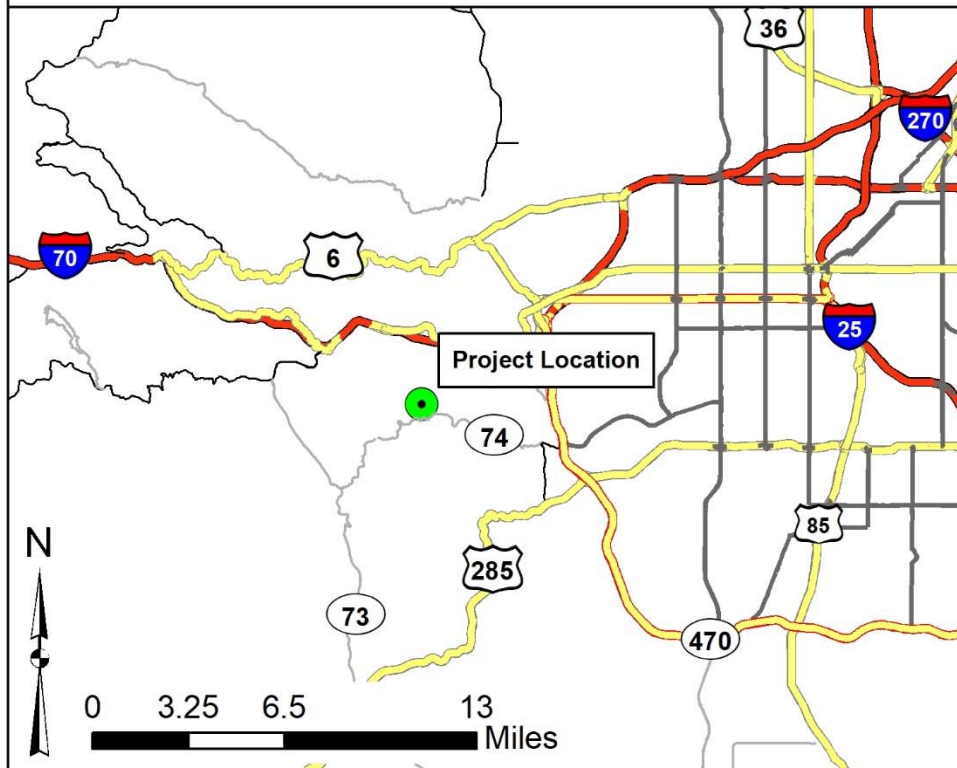
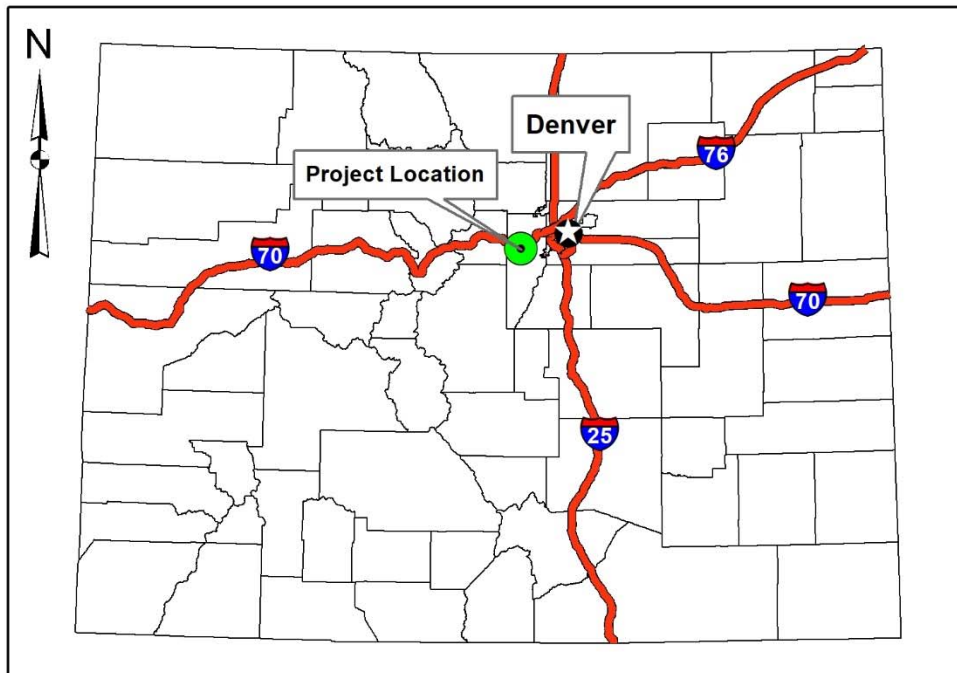




Figure C2. View of Genesee Dam No. 1 Reservoir, looking downstream at the upstream slope and service spillway.



Figure C3. View of Genesee Dam No. 1 reservoir rim, looking upstream from the dam crest.



Figure C4. View of Genesee Dam No. 1 spillway, looking upstream at the spillway control section.



Figure C5. View of Genesee Dam No. 1 downstream slope, looking right from the left abutment.