

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
March 20-21, 2019
Agenda Item 24(g)

Applicant & Grantee: Overland Ditch and Reservoir Company
Water Activity Name: Overland Reservoir, Construct Reservoir Level Gauge
Water Activity Purpose: Agricultural/Implementation
County: Delta
Drainage Basin: Gunnison
Water Source: Cow Creek
Amount Requested: \$19,000 Gunnison Basin Account
\$19,238 Statewide Account
\$38,238 Total Request

Matching Funds: Applicant Match (cash & in-kind) = \$9,560
 • 49% of the Statewide Account request (meets 10% min)
Basin Account Match = \$19,000
 • 99% of the Statewide Account Match (meets 10% min)
Total Match (Applicant/3rd Party & Basin Account) = \$28,560
 • 148% of the Statewide Account request (meets 50% min)

Staff Recommendation:

Staff recommends approval of up to \$19,000 from the Gunnison Basin Account, and \$19,238 from the Statewide Account to help fund the project titled: Overland Reservoir, Construct Reservoir Level Gauge.

Water Activity Summary: WSRF grant funds, if approved, will assist the Overland Ditch and Reservoir company replace an existing gauge rod in the Overland Reservoir. The existing rod is subject to movement due to ice forces and shifting movements of the existing riprap and is in poor condition which results in faulty readings. During the last few annual inspections by the Colorado Division of Water Resources, Division 4 State Dam Safety Engineer and Water Commissioner, the inadequacy of the existing reservoir level gauging system has been a checklist item requiring correction. The proposed activity consists of replacing the existing gauge rod with a reinforced, post-tensioned concrete stem wall and footing that will be marked at the required intervals and will be stable enough to resist the forces of ice and shifting rip-rap. The requested funding will be used for the construction work described above as well as permitting, bidding, final design and project administration. This reservoir can serve an area of up to 4,400 irrigated acres plus potable water systems.

Discussion: This effort will assist the Gunnison Basin Roundtable achieve the goal of protecting existing water uses in the Gunnison Basin as called for in the Gunnison Basin Implementation Plan, as well as assisting the state achieve the goal of maintaining existing storage as indicated in Chapter 10, Section 10.3 of Colorado's Water Plan.

Issues/Additional Needs: No issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to Basin Roundtable Chair's Recommendation Letter and the WSRF Grant Application for applicant's detailed response.

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>	<u>Status</u>
Overland Ditch & Reservoir Company	\$4,500	\$5,060	\$9,560	Secured
WSRF Gunnison Basin Account	\$19,000	\$0	\$19,000	Secured
Sub-total	\$23,500	\$5,060	\$28,560	
WSRF Statewide Account	\$19,238	\$0	\$19,238	
Total Project Costs	\$42,738	\$5,060	\$47,798	

CWCB Project Manager: Craig Godbout

*The Gunnison Basin Roundtable
210 West Spencer, Suite B
Gunnison, CO 81230*

February 4, 2019

Mr. Craig Godbout
Water Supply Management Section
COLORADO WATER CONSERVATION BOARD
1313 Sherman St., Room 718
Denver, CO 80203

Re: WSRF Grant Request: Construction of Overland Reservoir Level Gauge Project

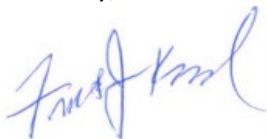
Dear Mr. Godbout:

This letter is presented to advise you that the grant application submitted by the Overland Ditch and Reservoir Company for \$19,238 from Statewide Account funds and \$19,000 from Basin Account funds from the Water Supply Reserve Fund for the Construction of Overland Reservoir Level Gauge Project was reviewed by the Gunnison Basin Roundtable and its Project Screening Committee. The request for funding was approved by a unanimous vote of the Gunnison Basin Roundtable during our meeting on January 21, 2019.

This water activity meets the provisions of Section 37-75-104(2), Colorado Revised Statutes. The requirements/language from the statute is provided in Part 3 of the Criteria and Guidelines. In addition, this project meets Goals 1, 2, 3, 5, 6, 7, and 8 of the Gunnison Basin Implementation Plan.

Thank you for your support of this grant application.

Sincerely,



Frank J. Kugel
Gunnison Basin Roundtable

cc: Kathleen Curry (email)
Tom Alvey (email)
Overland Ditch and Reservoir Company, applicant (email)



Last Update: July 31, 2018

Colorado Water Conservation Board
Water Supply Reserve Fund
Grant Application

Instructions

All WSRF grant applications shall conform to the current [2016 WSRF Criteria and Guidelines](#).

To receive funding from the WSRF, a proposed water activity must be approved by a Roundtable(s) **AND** the Colorado Water Conservation Board (CWCB). The process for Roundtable consideration and recommendation is outlined in the 2016 WSRF Criteria and Guidelines. The CWCB meets bimonthly according to the schedule on page 2 of this application.

If you have questions, please contact the current CWCB staff Roundtable liaison:

Arkansas

Ben Wade
ben.wade@state.co.us
 303-866-3441 x3238

**Gunnison | North Platte |
 South Platte | Yampa/White**

Craig Godbout
craig.godbout@state.co.us
 303-866-3441 x3210

**Colorado | Metro | Rio Grande |
 Southwest**

Megan Holcomb
megan.holcomb@state.co.us
 303-866-3441 x3222

WSRF Submittal Checklist (Required)

X	I acknowledge this request was recommended for CWCB approval by the sponsoring roundtable.
X	I acknowledge I have read and understand the 2016 WSRF Criteria and Guidelines .
X	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract . ⁽¹⁾
Application Documents	
X	Exhibit A: Statement of Work ⁽²⁾ (<i>Word – see Template</i>)
X	Exhibit B: Budget & Schedule ⁽²⁾ (<i>Excel Spreadsheet – see Template</i>)
	Letters of Matching and/or Pending 3 rd Party Commitments ⁽²⁾
X	Map ⁽²⁾
	Photos/Drawings/Reports
	Letters of Support
Contracting Documents⁽³⁾	
	Detailed/Itemized Budget ⁽³⁾ (<i>Excel Spreadsheet – see Template</i>)
	Certificate of Insurance ⁽⁴⁾ (<i>General, Auto, & Workers' Comp.</i>)
	Certificate of Good Standing ⁽⁴⁾
	W-9 Form ⁽⁴⁾
	Independent Contractor Form ⁽⁴⁾ (<i>If applicant is individual, not company/organization</i>)
	Electronic Funds Transfer (ETF) Form ⁽⁴⁾

(1) Click "Grant Agreements". For reference only/do not fill out or submit/required for contracting

(2) Required with application if applicable.

(3) Additional documentation providing a Detailed/Itemized Budget maybe required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.

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



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Schedule		
CWCB Meeting	Application Submittal Dates	Type of Request
January	December 1	Basin Account; BIP
March	February 1	Basin/Statewide Account; BIP
May	April 1	Basin Account; BIP
July	June 1	Basin Account; BIP
September	August 1	Basin/Statewide Account; BIP
November	October 1	Basin Account/BIP

Desired Timeline	
Desired CWCB Hearing Month:	March, 2019
Desired Notice to Proceed Date:	April 30, 2019

Water Activity Summary		
Name of Applicant	Overland Ditch and Reservoir Company	
Name of Water Activity	Overland Reservoir, Construct Reservoir Level Gauge	
	Approving Roundtable(s)	Basin Account Request(s) ⁽¹⁾
	Gunnison Basin	\$19,000
	Basin Account Request Subtotal	\$19,000
	Statewide Account Request ⁽¹⁾	\$19,238
	Total WSRF Funds Requested (Basin & Statewide)	\$38,238
	Total Project Costs	\$47,798

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



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Grantee and Applicant Information	
Name of Grantee(s)	Overland Ditch and Reservoir Company
Mailing Address	30095 Redlands Mesa Road, Hotchkiss, CO 81419
FEIN	84-0434803
Grantee's Organization Contact ⁽¹⁾	Shellie Gies
Position/Title	Secretary/Treasurer
Email	overlandditch@gmail.com
Phone	970-210-1247
Grant Management Contact ⁽²⁾	Bruce Marvin
Position/Title	Engineering Consultant
Email	westeng23@gmail.com
Phone	970-242-5202
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

(1) Person with signatory authority

(2) Person responsible for creating reimbursement invoices (Invoice for Services) and corresponding with CWCB staff.

Description of Grantee
Provide a brief description of the grantee's organization (100 words or less).
<p>The Overland Ditch and Reservoir Company (ODRC) was incorporated in 1895 as a non profit irrigation company. Its principle assets are Overland Reservoir which contains an active volume of 6,163 acre-feet, the water rights for the reservoir, the Overland Ditch, and direct flow rights for 214.7 cubic feet per second from 5 tributaries to the Overland Ditch. The reservoir and ditch were built between 1895 and 1905. Overland Reservoir was enlarged several times through 1954. The company delivers an average of approximately 17,000 acre-feet of water annually to the service area. There are 10,000 shares of stock outstanding, all of which are applied to agricultural usage The service area includes about 4,400 acres of irrigable land 3,707 acres of which are currently irrigated. Current irrigated land use includes 182 parcels with a crop distribution of about 74.9 percent grass-pasture, 20.3 percent alfalfa, 0.3 percent grapes, 0.7 percent small grains, 0.3 percent spring wheat and 3.5 percent orchards. The ODRC has developed and sustains recreational access and facilities for the citizens of the State of Colorado at the Overland Reservoir. The reservoir is very popular for camping, fishing, boating and other recreation. The reservoir is also the only Colorado Division of Wildlife fishery in the watershed. A map showing the location of Overland Reservoir and its service area is included in the Exhibits attached to this application.</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.
	Public (Districts): authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises
X	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, any organization that is not part of the government
	Covered Entity: as defined in Section 37-60-126 Colorado Revised Statutes

Type of Water Activity (check one)	
	Study
X	Implementation

Category of Water Activity (check all that apply)	
	Nonconsumptive (Environmental)
	Nonconsumptive (Recreational)
X	Agricultural
	Municipal/Industrial
	Needs Assessment
	Education & Outreach
	Other
	Explain:

Location of Water Activity	
Please provide the general county and coordinates of the proposed activity below in decimal degrees . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	Delta
Latitude	39.089° N
Longitude	107.643° W



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Water Activity Overview

Please provide a summary of the proposed water activity (200 words or less). Include a description of the activity and what the WSRF funding will be used for specifically (e.g. studies, permitting, construction). Provide a description of the water supply source to be utilized or the water body affected by the activity. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, area of habitat improvements. If this project addresses multiple purposes or spans multiple basins, please explain. The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, and Schedule.

The existing gauge rod for Overland Reservoir consists of a 4" diameter coupled steel pipe which is supported on and attached to rip rap on the upstream slope of the dam. This pipe is subject to movement due to ice forces and shifting movements of the supporting rip rap. The pipe is broken and offset in several locations. Recent surveys have revealed errors in the current gauge rod system ranging up to 0.7 ft and averaging about 0.3 ft. The existing gauge rod is marked at 0.5 foot elevation increments. Dam Safety regulations require that a gauge rod be installed with marks at 0.1 ft elevation increments which means that the maximum gauge rod error should be less than 0.05 foot. During the last few annual inspections by the Colorado Division of Water Resources, Division 4 State Dam Safety Engineer and Water Commissioner, the inadequacy of the existing reservoir level gauging system has been a checklist item requiring correction. Additionally, in general, installation or rehabilitation of reservoir level gauging systems has become a very high priority of the Division Engineer for all reservoirs within Division 4. In fact, the Division 4 Engineer has advised several dam owners that reservoir storage releases will not be allowed in 2019 until adequate reservoir level gauging systems are established. The proposed activity consists of replacing the existing gauge rod with a reinforced, post-tensioned concrete stemwall and footing that will be marked at the required intervals and will be stable enough to resist the forces of ice and shifting rip-rap. The requested funding will be used for the construction work described above as well as permitting, bidding, final design and project administration. This reservoir can serve an area of up to 4,400 irrigated acres plus potable water systems (see the paragraph "Description of Grantee" for more detailed land use information).

Measurable Results

To catalog measurable results achieved with WSRF funds please provide any of the following values.

	New Storage Created (acre-feet)	
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
	Existing Storage Preserved or Enhanced (acre-feet)	
	Length of Stream Restored or Protected (linear feet)	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
	Area of Restored or Preserved Habitat (acres)	
	Length of Pipe/Canal Built or Improved	
X	Other	Explain: Ability to satisfy Colo Division of Natural Resources requirements for reservoir level gauge accuracy.



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Water Activity Justification

Provide a description of how this water activity supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), and the respective [Roundtable Basin Implementation Plan and Education Action Plan](#) ⁽¹⁾. The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).

For applications that include a request for funds from the Statewide Account, the proposed water activity shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan criteria for state support (CWP, Section 9.4, pp. 9-43 to 9-44;) (Also listed pp. 4-5 in [2016 WSRF Criteria and Guidelines](#)).

A. Gunnison Basin Implementation Plan (BIP):

1. Primary goal - Protect existing water uses in the Gunnison Basin - An accurate reservoir level gauging system is not only necessary for purposes of water administration, there are also safety considerations. For example, if a reservoir needs to be drawn down in an emergency situation, it is still important, if at all possible, to control the rate of drawdown so as not to create upstream slope stability problems. It is unlikely that the lack of an accurate reservoir level gauging system would result in mandated breaching or abandonment (although, if there was compete, long term refusal by a dam owner to provide the required gauging provisions, it is not entirely inconceivable that the dam would eventually be considered in permanent violation of regulations and possibly unsafe, resulting in a breach order). But in the Leroux Creek drainage basin (the drainage basin immediately adjacent and to the west of the Overland reservoir drainage basin), the State Division Engineer, in the fall of 2018, advised the owners of 3 dams on the Leroux Creek drainage system that new or rehabilitated reservoir gauging systems would be required in order for water storage releases to be made in 2019. Therefore, there is a very real risk of a reservoir being taken out of service if there is not an adequate level gauging system. Even a temporary disruption in the normal water delivery schedule could have serious consequences for agricultural interests in the service area and assuring that there is no such disruption definitely falls under the category of protecting existing water uses in the Gunnison Basin. The water rights for approximately half of the active storage in Overland Reservoir are very senior, having a pre-1922 appropriation date and are therefore exempt from curtailment under the Colorado River Compact. The State of Colorado places a very high value on these pre-compact water rights because of their potential use in mitigating the potential for curtailments resulting from a Colorado River compact call.

2. Complementary goals:

a. Discourage the conversion of productive agricultural land to all other uses within the context of private property rights - It is possible that a single year interruption or disruption of stored water deliveries could make the difference between enterprise viability and non-feasibility, and could be followed by conversion of a portion of the irrigated land in the service area to other uses. This is particularly the case because stored water releases are often used to sustain crops during critical dry parts of the year.

b. Improve agricultural water supplies to reduce shortages - The BIP (Table 13) identified the agricultural needs shortage for the North Fork of the Gunnison as 68,000 ac-ft/yr, by far the highest (by a factor of 4) of all the Gunnison River sub-basins. Any degree of storage water delivery disruptions would further increase already acute shortages in the basin.

c. Quantify and protect environmental and recreational water uses - Overland reservoir is large enough and accessible enough that it is an attractive and popular destination for camping, hunting and fishing. Water released from Overland Reservoir occurs mostly during mid to late summer months when natural stream flows are at their lowest. Therefore, the water released from Overland has the effect of maintaining vital and healthy fish habitat in the segment of Cow Creek between the dam and the Overland Ditch diversion during the driest parts of the year. This stretch of Cow Creek is a productive and popular fishery because of the reservoir releases. Additionally, the irrigation return flows from these water releases contribute to minimum stream flows in channels downstream from the irrigated lands (including the main stem of the Gunnison River) during the critical periods. These flow contributions would be lost during any delivery disruption.

d. Maintain or, where necessary, improve water quality throughout the Gunnison basin - The direct flows in Cow Creek from reservoir releases as well as the irrigation return flows mentioned above likely have a dilution effect on downstream waters without which water quality would likely decrease.



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Water Activity Justification

e. Describe and encourage the beneficial relationship between agricultural and environmental and recreational water uses - see items A.2.c and A.2.d above.

f. Restore, maintain and modernize critical water infrastructure including hydropower - The goal of this project is to restore and maintain Overland Reservoir infrastructure components.

3. BIP Proposed Projects (Table 18 - Proposed Gunnison Basin Projects) - Enlargement of Overland Reservoir is specifically identified in Table 18 under Reference Item number 11 - "Overland Reservoir Enlargement (Part2)". Part of the work which would be required for the proposed enlargement of Overland Reservoir would be to replace and extend the reservoir level gauge. The reservoir level gauge described herein will be constructed so as to include reservoir level stages sufficiently high to encompass those of the proposed enlargement. Therefore, the proposed water activity described in this application will accomplish part of the enlargement work. Also, any neglect in addressing concerns of the State Engineer will definitely not work in favor of promoting the enlargement.

B. Evaluation Criteria for State Support (from the Colorado Water Plan as presented in the 2016 WSRF Criteria and Guidelines):

1. Does the project proponent demonstrate a commitment to collaboration? Does the project proponent:

a. Address more than one type of need - Overland Reservoir provides water for a combination of agricultural, environmental and recreational uses.

b. Consult with a broad set of local stakeholders and local governments before or early in the regulatory process or provide meaningful opportunities for input - The list of stakeholders includes all shareholders in ODRC. All of these individuals and entities have been consulted and given the opportunity for input. As mentioned in the section of this application entitled "Water Activity Overview" During annual safety inspections performed in the last several years by the Colorado Division of Water Resources, Division 4 Dam Safety Engineer and Water Commissioner the inadequacy of the existing reservoir level gauging system has been an item of concern, and part of the discussions have included how best to address the need for a reliable reservoir level gauging system. The U.S. Bureau of Reclamation provided funding for preparation of a 2008 Water Management Plan (WMP) (see the section of this application entitled "Related Studies") which included discussions of the need for improved accuracy of water measurement devices. In chapter 5 of the WMP one of the issues which was identified was "Water measurement and accounting/Accuracy of several measuring devices". Under the section for goals and objectives, Goal 1, Objective 1 was to "Meet the requirements set by the DWR Water Commissioner". As mentioned above, the Colorado DWR, Division 4 Dam Safety Engineer and Water Commissioner identified the need to provide a suitable reservoir level gauging system as a requirement. In the section of the WMP which lists high priority projects and prioritizes specific project items as part of the "Infrastructure Improvement Program", priority number 4 of 5 priorities consists of "Install additional measuring devices to improve water accounting". Therefore, even though rehabilitation or replacement of the reservoir level gauging system is not specifically mentioned as a priority project item, is clearly included as part of needs for improving the accuracy of water measurement devices, installing additional measuring devices to improve water accounting and meeting the requirements of the Colorado DWR. The WMP was a collaborative effort between the ODRC and the U.S. Bureau of Reclamation.

2. Does the project proponent address an identified water gap? Is the project:

a. Included in a BIP - As mentioned in item A.3. above, enlargement of Overland Reservoir was specifically identified as a proposed project in the Gunnison BIP and the new reservoir level gauge will be a necessary component in that enlargement process.

b. Identified as meeting a defined need in a basin needs assessment - See item A.2.b. above.

c. Identified as meeting a defined need in the SWSI - The 2010 SWSI report (section 4.3.2) presented a projected 2050 water supply shortage for the Gunnison River basin of 16,000 ac. ft./yr, which represents 7 percent of the 1,722,000 projected Statewide shortage. Prevention of the disruption or curtailment of any otherwise normal water deliveries from Overland Reservoir avoids further increasing that need.

d. Identified as part of the no-and-low-regrets scenario planning process - The Colorado Water Plan (Page 6-8) included the following component for definition of "regret": "Significant consequences to Colorado's agriculture, environment, or economy because Colorado's water community did not



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Water Activity Justification

implement projects and methods consistent with Colorado's water values". Under this definition, disruption of water deliveries from Overland Reservoir would certainly be considered a regret.

3. Does the project proponent demonstrate sustainability? - Using the UN World Commission on Environment and Development definition of "sustainability" as "development that meets the needs of the present without compromising the ability of future generations to meet their own needs", maintaining Overland Reservoir satisfies that definition since it benefits both current and future generations with no adverse impacts.

Does the project proponent:

- a. avoid adverse effects to environmental and recreational interests - see item A.2.c. above.
- b. avoid adverse impacts to, mitigate, or enhance water quality such as exceeding water quality standards or impairment of classified uses. - see item A.2.d. above.
- c. Mitigate or avoid economic and social impacts on agricultural and rural communities - See item A.1 and items A.2.a and A.2.b above. Avoiding disruptions in agricultural storage water deliveries is an important component in maintaining the viability of the entire agriculture community that relies on the Overland Reservoir for critical late-season irrigation water.
- d. Maximize the use of water resources (through reuse, firming the yield of existing supplies, water sharing arrangements, improving or modernizing aging infrastructure, or aquifer storage and recharge projects) - The proposed project consists of improving and modernizing aging infrastructure.
- e. Demonstrate that the project will not unreasonably increase the risk of non-compliance with any interstate compact or the curtailment of existing water rights - A portion of the water rights for the current active storage in Overland Reservoir have appropriation dates extending back to 1902 and about half of the stored water rights have pre-1922 appropriation dates. Pre-1922 water rights are not subject to curtailment under the Colorado River Compact and are, therefore highly valuable in developing curtailment mitigation strategies such as "water banking". The State has a strong stated interest in preserving all pre-1922 water rights within the Colorado River system and any degree of threat to any of these rights or their associated structures would increase the risk of curtailment resulting from a Colorado River Compact call.

4. Does the project proponent establish the fiscal and technical feasibility of the project? Does the project proponent demonstrate:

- a. Overall cost-effectiveness - There are a number of options to create a reliable reservoir level gauging system. Part of the project engineering process will be to evaluate options to determine the most cost-effective method to accomplish the project goals.
- b. Local investment or contribution - The ODRC is contributing to the cost of the project by means of shareholder assessments, possible loans and potential other funding sources.
- c. An intent to leverage any state grant or loan with private, local or federal funding. - See item B.4.b above.
- d. Technical and legal availability of water supplies for the project - Assuming that a new reservoir level gauging system is installed in the very near future Overland Reservoir will continue to operate as it historically has in accordance with its water rights and shareholder water needs. A detailed yield analysis performed in 2013 indicated that Overland Reservoir has a relatively good yield performance. It fills in about 65 percent of the years and the average annual storage is about 94 percent of the full storage capacity of 6,163 ac-ft. In other words, Overland Reservoir stores about 5,800 acre-feet in an average year.
- e. Readiness to proceed upon receipt of necessary funding and permits (i.e. completed preliminary planning and design work, obtained necessary water rights, secured necessary financial commitments) - Sufficient planning, investigation and design work has been performed to date so that all aspects of the work have been identified and characterized and a reliable cost estimate has been developed. The work on the structure is expected to be performed during the fall of 2019 and prior to that time all permitting and design details will be obtained and/or developed. The ODRC is confident that the funding and financing requirements will be met.

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



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Matching Requirements: Basin Account Requests	
<p>Basin (only) Account grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3rd party and shall be accompanied by a letter of commitment as described in the 2016 WSRF Criteria and Guidelines (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.</p>	
Contributing Entity	Amount and Form of Match (note cash or in-kind)
Total Match	
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.	

Matching Requirements: Statewide Account Requests	
<p>Statewide Account grant requests require a 50% match as described in the 2016 WSRF Criteria and Guidelines. A minimum of 10% match shall be from Basin Account funds (cash only). A minimum of 10% match shall be provided by the applicant or 3rd party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3rd party) and shall be accompanied by a letter of commitment. Attach additional sheet if necessary.</p>	
Contributing Entity	Amount and Form of Match (note cash or in-kind):
Gunnison Basin Roundtable	\$19,000 cash
Overland Ditch and Reservoir Company	\$ 4,500 cash
Overland Ditch and Reservoir Company	\$ 5,060 in-kind
Total Match	\$28,560
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	



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Related Studies

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

Overland Ditch and Reservoir Company Water Management Plan (RHN Water Resources Consultants, LLC, September, 2008).

See item B.1.b. in the section of this application entitled “Water Acitivity Justification” for a discussion of how the water activity detailed in this application will further goals outlined in the above referenced Water Management Plan.

Previous CWCB Grants

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

Applicant Name: Overland Ditch and Reservoir Company
Water Activity Name: Overland Reservoir, Update Hydrologic Yield Information
Approving RT: Gunnison Basin
CWCB board meeting date: March, 2008
Purchase Order Number: 08 PDA 08000000038

Tax Payer Bill of Rights

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

There are no applicant TABOR limitations related to the potential grant funds for this water activity.



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Colorado Water Conservation Board	
Water Supply Reserve Fund	
<u>Exhibit A - Statement of Work</u>	
Date:	11/28/18
Water Activity Name:	Overland Reservoir, Construct Reservoir Level Gauge
Grant Recipient:	Overland Ditch and Reservoir Company
Funding Source:	Gunnison Basin Account/Statewide Account
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.)	
<p>The proposed activity consists of replacing the existing reservoir level gauge rod with a reinforced, post-tensioned concrete stemwall and footing that will be marked at the required reservoir level intervals and will be stable enough to resist the forces of ice and shifting rip-rap. The work will include removing the existing gauge rod pipe and rip rap along the gauge wall alignment. The alignment for the new gauge wall will be graded and excavated for the footing. The reservoir level gauge markings will consist of numerals at one foot elevation increments and stainless steel drilled-in-place wedge anchors placed at 0.1 foot elevation increments between the one foot marks. All of these elevation marks will be surveyed during installation to assure that they are placed at their exact respective locations along the top of the wall. After completion of the gauge wall and installation of the numbers and other marks, the wall will be backfilled with rip rap taking care not to disturb the wall. This new reservoir level gauge will extend to a high enough elevation to include reservoir storage levels which would be achieved with the proposed enlargement of Overland Reservoir. The WSRF funding will be used for engineering, construction, inspection and documentation.</p>	
Objectives: (List the objectives of the project)	
<ol style="list-style-type: none"> 1. Remove the existing non-functional reservoir level gauge system 2. Install a new calibrated reservoir level gauging system that will be stable against ice and shifting influences. 3. Extend the new gauging system to a high enough elevation to include potential future reservoir level possibilities. 	



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Tasks
Provide a detailed description of each task using the following format:
<u>Task 1 - Final Permitting and Engineering</u>
Description of Task: Obtain necessary permits, approvals and prepare construction documents
Method/Procedure: This task will include obtaining all environmental, land use, access and other related permits. The work will also include any necessary field investigations and surveys. Final design drawings and specifications will be prepared including review and approval by the Colorado State Engineer, Dam Safety department.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task) Approved and signed permits.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task) Approved and signed permits, investigation reports, drawings and specifications.



Last Update: January 9, 2018

Tasks
<u>Task 2 - Construction</u>
Description of Task: Construct the reservoir level gauge including all related quality assurance testing and inspections.
Method/Procedure: This task will encompass all activities related to constructing the new reservoir level gauge including construction surveys, mobilization and demobilization of all necessary equipment, removal of the existing reservoir level gauge, temporary removal of rip rap, preparation of the foundation, furnishing all materials, forming and placing the concrete, post-tensioning the wall, installing the level gauge numerals and marks, backfilling the wall, performing all necessary quality assurance tests, and all quality assurance inspections.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task) Invoices and payment requests.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task) Invoices, payment requests, grant disbursement requests and project status reports.
Provide a detailed description of each task using the following format:



Last Update: January 9, 2018

Tasks
Provide a detailed description of each task using the following format:
<u>Task 3 - Completion Documentation</u>
Description of Task: Document all construction activities.
Method/Procedure: This task will include preparing a construction report containing a description and chronology of all construction activities, photo records, field changes to the design, unexpected conditions encountered, quality assurance test results and inspection reports and any notes from any significant meetings. Also, as-constructed drawings will be prepared. Also included will be a summary of matching contributions.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task) Quality assurance testing performed by entities other than the engineer.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task) Final construction report, as-constructed drawings and summary of matching contributions.



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Budget and Schedule

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

Reporting Requirements

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

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

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

Payments

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

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

Performance Requirements

Performance measures for this contract shall include the following:

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

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

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

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



Colorado Water Conservation Board

Water Supply Reserve Fund

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

Date: 11/28/18

Water Activity Name: Overland Reservoir, Construct Reservoir Level Gauge

Grantee Name: Overland Ditch and Reservoir Company

<u>Task No.</u> ⁽¹⁾	<u>Description</u>	<u>Start Date</u> ⁽²⁾	<u>End Date</u>	<u>Matching Funds</u> <u>(cash & in-kind)</u> ⁽³⁾	<u>WSRF Funds</u> <u>(Basin & Statewide combined)</u> ⁽³⁾	<u>Total</u>
1	Final Permitting and Engineering	5/1/2019	8/31/2019	\$2,500	\$4,328	\$6,828
2	Construction	9/1/19	11/30/19	\$7,060	\$32,203	\$39,263
3	Completion Documentation	12/1/19	4/1/20	\$0	\$1,707	\$1,707
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
Total				\$9,560	\$38,238	\$47,798

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

(2) Start Date for funding under \$100K - 45 Days from Board Approval; Start Date for funding over \$100K - 90 Days from Board Approval.

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

- Additional documentation providing a Detailed/Itemized Budget may be required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.
- Reimbursement eligibility commences upon the grantee's receipt of a Notice to Proceed (NTP)
- NTP will not be accepted as a start date. Project activities may commence as soon as the grantee enters contract and receives formal signed State Agreement.

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

- Additionally, the applicant shall provide a progress report every 6 months, beginning from the date of contract execution
- Standard contracting procedures dictate that the Expiration Date of the contract shall be 5 years from the Effective Date.

LEGEND:



OVERLAND SERVICE AREA

UPPER OVERLAND DITCH

OVERLAND RESERVOIR

COW CREEK



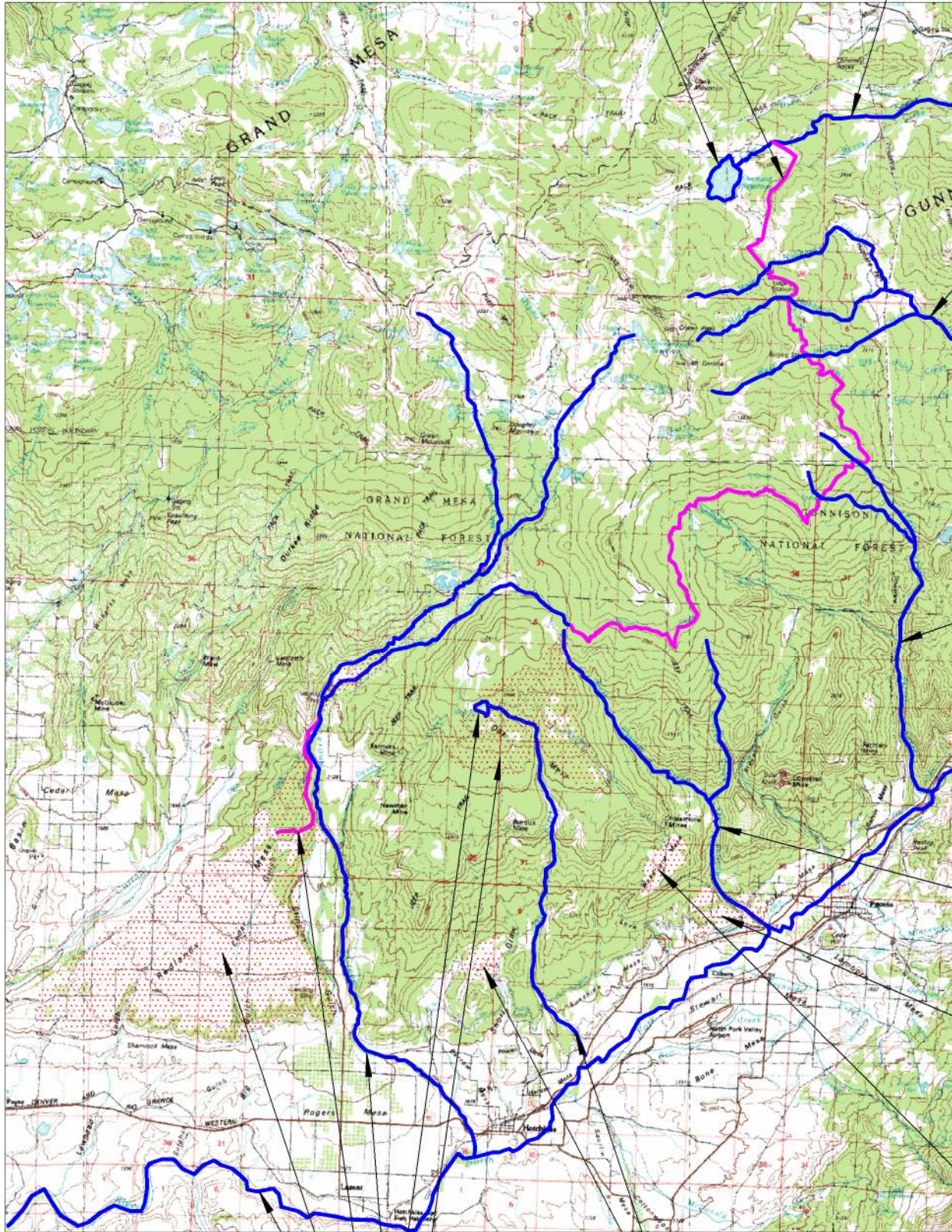
HUBBARD CREEK

TERROR CREEK

ROATCAP CREEK

STUCKER MESA

WAKEFIELD MESA



NORTH FORK GUNNISON RIVER

REDLANDS MESA

LOWER OVERLAND DITCH

LEROUX CREEK

OAK MESA

WEST RESERVOIR

WOLF PARK

JAY CREEK



SCALE IN FEET

OVERLAND LOCATION MAP