



**OREGON WATER RESOURCES DEPARTMENT
WATER SUPPLY DEVELOPMENT ACCOUNT
LOAN AND GRANT APPLICATION**

I. Project Information

Project Name: City of Greenhorn Water Improvements

Type of Project: Municipal Drinking Water System Improvements Check box if project type includes storage

Funding Request Type: Loan Grant

Funding Amount Requested: \$ \$187,500 Total cost of project: \$ \$250,000

Note: Grant funding requests must demonstrate cost match of at least 25% of total project cost. This may include in-kind.

II. Applicant Information

Principal Contact: Dale McLouth	Fiscal Officer: Dennis Koellmeier
Address: 28932 S Cramer Rd Molalla, OR 97038	Address: 2781 Oxford St West Linn, OR 97068
Phone: 503-310-0913 Fax:	Phone: 503-655-2732 Fax:
Email: dalemclouth@molalla.net	Email: rockingk55@hotmail.com

Involved Landowner 1:	Involved Landowner 2:
Address:	Address:
Phone: Fax:	Phone: Fax:
Email:	Email:

**Please include a supplementary document that lists all additional involved landowners if applicable.*

Certification:

I certify that this application is a true and accurate representation of the proposed project work and that I am authorized to sign as the Applicant or Co-Applicant. By the following signature, the Applicant certifies that they are aware of the requirements of an Oregon Water Resources Department funding award and are prepared to implement the project if awarded.

Applicant Signature: Dale McLouth Date: 1/18/16
 Print Name: Dale McLouth Title/Organization: Mayor / City of Greenhorn

III. Project Summary

Please provide a description of the need, purpose and nature of the project. Include what the applicant intends to complete and how the applicant intends to proceed.

The City of Greenhorn's current water system is in a state of disrepair and needs improvements in order to protect public health and natural resources. These improvements include additional storage, new conveyance piping, and improvements to spring catchments to provide sanitation improvements to the drinking water system. Specifically, improvements include addition of a 4,000 gallon storage tank; improvements to two springs including lockable doors, filters, and valving; new 4-inch pipeline to connect water sources to storage, and other miscellaneous improvements to infrastructure.

IV. Project Specifics

Instructions: Answer all questions in this section by typing the answer below the question, using additional space as needed.

- 1. Describe how the project will provide public benefits in each of the three public benefit categories.** Project applications will be scored and ranked based on the economic, environmental and social/cultural public benefits identified below. Describe the conditions prior to and after project implementation to demonstrate changes resulting from the project. Descriptions should be quantitative when possible. Information provided must be sufficient to allow evaluation of the public benefits of the project. **Please see the Public Benefit and Evaluation Guidance document for a description of how public benefits will be evaluated.** Applications that do not demonstrate public benefit in each of the three categories (economic, environmental, social/cultural) will be deemed incomplete. Leave blank any categories that are not applicable to project.

Economic Benefits ORS 541.673(2)

- (a) Job creation or retention:

Construction of the improvements will provide job opportunities to skilled workers in the local area including Baker and Grant Counties.

- (b) Increases in economic activity:

Residents and property owners of Greenhorn spend substantial amounts of their time annually in the area purchasing fuel, food and sundries, construction materials, and other goods. Additionally, the cities of John Day, Baker City, Prairie City, Granite and Sumpter receive substantial commerce from the residents and property owners of Greenhorn.

- (c) Increases in efficiency or innovation:

Currently, one spring is not being used due to health reasons. The second spring overflows and wastes water resources. Improvements will allow improved storage of water in early summer seasons and allow the release of natural drainage into the Lightning Creek Watershed. The addition of filters and improved resource circulation in the community will improve efficiency to resource conveyance and public health.

- (d) Enhancement of infrastructure, farmland, public resource lands, industrial lands, commercial lands or lands having other key uses:

Installation of additional water storage and emergency fire suppression water supply will aid in protecting public resource lands, and private property.

- (e) Enhanced economic value associated with tourism or recreational or commercial fishing, with fisheries involving native fish of cultural significance to Indian tribes or with other economic values resulting from restoring or protecting water instream:

These projects will help restore late season water flows to the Lightning Creek Watershed as well as provide safe drinking water resources for the residents and property owners of Greenhorn who contribute to the tourist and recreational industry in Baker and Grant Counties.

- (f) Increases in irrigated land for agriculture:

This project will not increase irrigated land for agriculture.

Environmental Benefits ORS 541.673(3)

- (a) A measurable improvement in protected streamflows that accomplishes one or more of the following:
- (A) Supports the natural hydrograph;
 - (B) Improves floodplain function;

- (C) Supports state- or federally-listed sensitive, threatened or endangered fish species;
- (D) Supports native fish species of cultural importance to Indian tribes; or
- (E) Supports riparian habitat important for wildlife:

The project will support the natural hydrograph by allowing residents and property owners to utilize stored water during peak demand times from July to November, and reduce diversion of necessary water flows from Lightning Creek Watershed during these times.

Additionally, through protecting and improving the Lightning Creek Watershed during the summer and fall months, this project will aid in the protection of riparian habitat for endangered Bull Trout and other native wildlife species.

- (b) A measurable improvement in groundwater levels that enhances environmental conditions in groundwater restricted areas or other areas:

N/A

- (c) A measurable improvement in the quality of surface water or groundwater:

This project will improve late season diversion of spring water which will reduce water temperatures in surface streams. Lightning Creek, Clear Creek and the upper John Day River basin is currently subject to enhanced endangered species protection plans and most of the basin is subject to water temperatures problems .

- (d) Water conservation:

Improvement to the springs, valves, and piping will improve the efficiency of water catchment and use. Currently, water quality problems with dead-end piping require long flushing periods which wastes resources. Improvement of infrastructure will reduce the duration of flushing and allow for resource conservation.

- (e) Increased ecosystem resiliency to climate change impacts:

As mentioned previously groundwater/springs will be affected by reduced snowpack expected with climate change. These improvements will help conserve these resources.

- (f) Improvements that address one or more limiting ecological factors in the project watershed:

Bull Trout and water quality temperature limits

Social/Cultural Benefits ORS 541.673(4)

- (a) The promotion of public health and safety and of local food systems:

This project is focused on improving drinking water quality, fire protection, and public safety through improved system security.

- (b) A measurable improvement in conditions for members of minority or low-income communities, economically distressed rural communities, tribal communities or other communities traditionally underrepresented in public processes:

The City of Greenhorn has no independent demographic data but Grant and Baker Counties both are home of minority and low income communities. Greenhorn does have a typical demographic mix of men, women, and children who are dependent on safe clean drinking water.

- (c) The promotion of recreation and scenic values:

The lifeblood of this community is recreation and is a jump-off point for access to wilderness areas with camping, fishing, and hunting opportunities.

- (d) Contribution to the body of scientific data publicly available in this state:

N/A

(e) The promotion of state or local priorities, including but not limited to the restoration and protection of native fish species of cultural significance to Indian tribes:

The Lightning Creek Watershed contributes to habitat for the endangered Bull Trout run and other protected wildlife in the area. These species are of significance to the Confederated Tribes of Umatilla and Warm Springs.

(f) The promotion of collaborative basin planning efforts, including but not limited to efforts under Oregon's Integrated Water Resources Strategy:

This project is small and remotely located. For the most part, it is stand alone. That being said, the community is willing to contribute, at minimum, 25% of the seasonally stored water resources back to the Lightning Creek Watershed.

2. Identify Project Location.

(a) Attach map of project implementation area if appropriate. List map(s) in this space and attach to application. *Please refer to the attached Greenhorn Water System Study.*

(b) Township Range Section Quarter-Quarter Section
10 35E 9 SW

(c) Tax Lot Number(s)
N/A

(d) Latitude/Longitude
*44*42'34.8"/ 118*29'25.6"*

(e) County
Grant County

(f) Watershed
Lighining/Clear Creek, John Day River

(g) River/Stream Mile (where applicable)
headwaters

3. (a) Will the project result in a physical change on private land? Yes No

If yes, attach evidence that landowners are aware of and agree to the proposal. List attachments below.

(b) Will the project result in monitoring on private land? Yes No

If yes, attach evidence that landowners agree to the proposal and are aware that monitoring information is public record. List attachments below.

4. Provide a project schedule, including beginning and completion dates. Use the following table as a guide. Attach a separate sheet to application if needed.

Estimated Project Duration: August 1, 2016 to October 30, 2017

Place an "X" in the appropriate column to indicate when each Key Task of the project will take place.

Project Key Tasks	2016				2017				20 & Beyond
	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	
<i>Finalize the Water System Study (Complete)</i>	X								
<i>Initiate Baker County Funding Meetings</i>	X								
<i>Apply for Water Resources Grant</i>	X								
<i>Finalize Project Funding</i>		X							
<i>Design and Bid Improvements</i>			X						
<i>Construct Improvements</i>				X					
<i>Close out project</i>							X	X	

5. Describe any conditions that may affect the completion of the project.

Lack of funding and extreme weather conditions.

6. Attach a completed feasibility analysis if one has been completed.

Please see attached.

7. Provide suggestions for interim and long-term project performance benchmarks.

Reduction in actual water use, reduction of wasted water, improvement in late summer release quantities.

8. Provide letters of support for the proposed project (list in this space and attach to application).

Please see attached.

9. Describe partnerships and collaborative efforts associated with the project.

Baker County is tentatively partnering on this project as a 25% financial contributor.

10. Consultations/communications with affected Indian tribes and with the Legislative Commission on Indian Services regarding the project.

Has the Legislative Commission on Indian Services been contacted to identify tribes affected by the project?

Yes No

Please provide correspondence as an attachment to this application.

Information on affected tribes was available on -line via previous work in the drainage basin by the US Forest Service.

Has there been consultation/communications with affected Indian tribes?

Yes No

Please provide a description of consultation/communication that occurred and attach documents to this application if applicable.

11. Provide a description of:

(a) Required local, state and/or federal [permits](#) and/or authorizations for project implementation that have been secured to date. Please attach secured permits/authorizations to the application.

There is no need for permits. All improvements will be located within existing easements granted from the US Forest Service and private private property owners and/or municipally owned property.

(b) Required local, state and/or federal permits and/or authorizations that will be secured in the future to implement the project. Describe efforts to date in securing these permits and/or authorizations.

The US Forest Service will need to approve the final construction plans once completed.

12. Provide any additional supplemental materials to demonstrate ability to implement the project. Examples include project plans and specifications, engineering details and [water availability analysis](#). List documents in this space and attach to application.

Please see attached.

V. Storage Project Requirements (if not a storage project continue to Section VI)

For any storage project please contact Water Resources Grant Administrator, Jon Unger, at (503) 986-0869 prior to completing the application.

13. Storage Project Type: Above Ground Below Ground

14. If above-ground storage, would the proposed storage project be located in-channel?

Yes No N/A

15. Identify the capacity in acre-feet of the proposed storage project.

4,000 gallons, or 1.23% of an acre foot

16. Has a water right application been filed for the proposed storage project?

Application not yet made.

Water right application made; permit not yet issued Application #

Permit issued. Application # Permit #504

For Questions 17 & 18 answer the following:

(a) Does the proposed storage project impound surface water on a perennial stream?

Yes No Uncertain

(b) Does the proposed storage project divert water from a stream that supports state- or federally-listed sensitive, threatened or endangered fish species?

Yes No Uncertain

(c) Does the proposed storage project divert more than 500 acre-feet of water annually?

Yes No

17. Water Dedicated Instream N/A

For above ground storage projects seeking grant funding: If you answered “yes” to any of the questions posed in a-c above a minimum volume of water equal to at least 25% of the stored water must be dedicated to instream use.

Identify percentage of stored water to be dedicated to instream use.

25 %

Note: Any storage project dedicating 25% of stored water to instream use will automatically receive a median score in the environmental public benefit category with the opportunity to demonstrate additional environmental benefit to increase the score.

18. Seasonally Varying Flow Prescription

For all storage projects: If you answered “yes” to any of the questions posed in a-c above the project will need a **Seasonally Varying Flow (SVF) Prescription**, determining the duration, timing, frequency and volume of flows (including ecological baseflow), necessary for protection and maintenance of biological, ecological, and physical functions outside of the official irrigation season. The initial step in defining the SVF for the project is to schedule an SVF meeting with OWRD. For assistance and more information please contact Water Resources Grant Administrator Jon Unger at (503) 986-0869.

Identify whether the storage project will need a Seasonally Varying Flow Prescription.

Yes No Uncertain

VI. Environmental Public Benefit for Conservation Projects Dedicating Water Instream (if not a conservation project continue to Section VII)

19. Identify percentage of conserved water to be dedicated to instream use. N/A

25 %

Note: Any project that conserves water and dedicates at least 25% of the conserved water quantity to instream use will automatically receive a median score in the environmental public benefit category with the opportunity to demonstrate additional environmental benefit to increase the score. Water dedicated to instream use must be permanently placed instream and protected by the Oregon Water Resources Department.

VII. Financial Information

For Loan Applicants – Since loan applications do not require cost match, loan applicants who do not offer a cost match need not complete Section A and can disregard the match funding columns in Sections B and C. Budget and costs of key tasks must be identified in sections B & C. Loan applicants will be required to provide additional financial information related to their ability to repay the loan. This request for information will take place after the scoring and ranking process for those projects that are recommended for funding.

For Grant Applicants – Complete Sections A, B and C.

Section A – Cost Match Information

Applicants must demonstrate a minimum 25% funding match based on the total project cost. The match may include: a) applicant funds or secured funding commitment from other sources; b) pending funding commitment from other sources; and/or c) the value of in-kind labor, equipment rental, and materials essential to the project. For secured funding, the applicant must attach a funding award letter from the match funding source that specifically mentions the dollar amount shown in the “Amount/Dollar Value” column. For pending resources, documentation showing a request for the matching funds must accompany the application. Funds expended prior to grant agreement are not reimbursable nor do they qualify for cost match without prior authorization by the Department.

<p>In the Type column below matching funds may include:</p>	<p>In the Status column below matching funds may have the following status:</p>
<ul style="list-style-type: none"> • Cash - Cash is direct expenditures made in support of the feasibility study by the applicant or partner*. 	<ul style="list-style-type: none"> • Secured - Funding commitments already secured from other sources.
<ul style="list-style-type: none"> • In-Kind - The value of in-kind labor, equipment rental and materials essential to the feasibility study provided by the applicant or partner. 	<ul style="list-style-type: none"> • Pending - Pending commitments of funding from other sources. In such instances, Department funding will not be released prior to securing a commitment of the funds from other sources. Pending commitments of the funding must be secured within 12 months from the date of the award.

* “Partner” means a non-governmental or governmental person or entity that has committed funding, expertise, materials, labor, or other assistance to a proposed project planning study. OAR 690-600-0010.

Match Funding Source (if in-kind, briefly describe the nature of the contribution)	Type (✓ One)	Status (✓ One)	Amount/ Dollar Value	Date Match Funds Available (Month/Year)
<i>Baker County Pre-Dedicated Fund- Pending approval of Baker County budget process</i>	<input checked="" type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input checked="" type="checkbox"/> pending	\$50,000	July 16
<i>City of Greenhorn Residents/Property Owners</i>	<input type="checkbox"/> cash <input checked="" type="checkbox"/> in-kind	<input type="checkbox"/> secured <input type="checkbox"/> pending	\$12,500	January 2016
	<input type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input type="checkbox"/> pending		
	<input type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input type="checkbox"/> pending		

