



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

### I. Project Information

Project Name: City of Union, Oregon - Wastewater Facility Improvements - 2016

Type of Project: Wastewater  Check box if project type includes storage

Funding Request Type:  Loan  Grant

Funding Amount Requested: \$ \$2,300,000 Total cost of project: \$ \$4,681,000

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

### II. Applicant Information

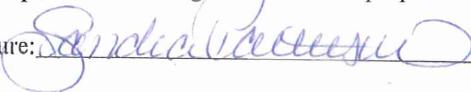
<b>Principal Contact: Rod McKee, P.E.</b>	<b>Fiscal Officer: Sandra Patterson</b>
Address: <u>342 S. Main / P.O. Box 529</u> <u>Union, Oregon 97883</u>	Address: <u>342 S. Main / P.O. Box 529</u> <u>Union, Oregon 97883</u>
Phone: <u>541-562-5197</u> Fax: <u>541-562-5196</u>	Phone: <u>541-562-5197</u> Fax: <u>541-562-5196</u>
Email: <u>rodckee@cityofunion.com</u>	Email: <u>admin@cityofunion.com</u>

<b>Involved Landowner 1: Eastern Oregon Agricultural Resource Center - Tim DelCurto</b>	<b>Involved Landowner 2: Buffalo Peak Golf Course (Union County)</b>
Address: <u>P.O. Box E</u> <u>Union, Oregon 97883</u>	Address: <u>1224 E. Fulton Street</u> <u>Union, Oregon 97883</u>
Phone: <u>541-562-5129</u> Fax: _____	Phone: <u>541-562-5527</u> Fax: _____
Email: <u>tim.delcurto@oregonstate.edu</u>	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:  Date: January 15, 2016

Print Name: Sandra Patterson Title/Organization: City Administrator/City Clerk, City of Union

### 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 Union, Oregon, currently discharges its municipal treated wastewater effluent (treated effluent) into Catherine Creek from October 1 through June 30 of each year, when the flow in Catherine Creek is 17 cubic feet per second (cfs) or greater. National Pollutant Discharge Elimination System (NPDES) Permit No.101624, which governs operation of the wastewater treatment facility (WWTF), has been administratively extended since 2009 to provide time for the U.S. Environmental Protection Agency and Oregon Department of Environmental Quality (DEQ) to finalize*

*acceptable treated effluent pollutant levels for ammonia and temperature, while verifying the permitted levels of five-day Biochemical Oxygen Demand (BOD5), Total Suspended Solids (TSS), chlorine, alkalinity, and pH.*

*Through a public meeting outreach program of City council work sessions, City council meetings, and town hall meetings, the City of Union proactively proposes to change the wastewater treatment method from a technology that discharges pollutants directly to Catherine Creek to a technology that would improve the environment; reduce fish, shellfish, and other aquatic life exposure to harmful pollutants; and redirect treated wastewater effluent from a waste stream to a beneficial use. Catherine Creek is a critical native salmon and steelhead-rearing stream and is a tributary to the Grande Ronde River and other Waters of the State.*

*The proposed project would expand the current Buffalo Peak Golf Course (owned and operated by Union County) land application site and irrigation system and would utilize current land application (irrigation) pumps to transport treated wastewater effluent from the WWTF through a new transfer pipe to a new storage pond and an additional land application site on Eastern Oregon Agricultural Research Center (EOARC) land. The storage pond is preliminarily sized at 12 acres to adequately contain treated effluent flows generated during non-irrigation months. Treated effluent generated during non-irrigation months is currently discharged directly to Catherine Creek. The proposed storage pond would consist of two 6-acre cells. The two cells would be provided to allow maintenance and management flexibility in case of failure. The cells would be lined with an approved liner system to minimize the possibility of seepage into the underlying alluvial aquifer.*

*Treated wastewater effluent generated during the non-irrigation season would be stored in the pond until the irrigation season begins. Upon commencement of the irrigation season, treated wastewater effluent from the storage pond would be pumped to a center pivot irrigation system that would apply the treated wastewater effluent to a newly developed, 50-acre field. Alternatively, a portion of the stored, treated wastewater effluent can be pumped to Buffalo Peak Golf Course and land applied through the existing irrigation system. Treated wastewater effluent would be applied to the hay crop or the golf course at the agronomic rate (the rate of nutrient application would equal the ability for the hay crop to absorb the nutrients). This treatment technology increases the probable production of the proposed 50-acre field, simultaneously producing a beneficial hay crop. Land application technology uses nutrients inherently present in treated wastewater effluent as a natural form of fertilizer. Overall, the project, as currently proposed, would capitalize on an existing land application system (Buffalo Peak Golf Course), expand the land application system, make use of a previously wasted resource, remove pollutants from Catherine Creek, improve Waters of the State, and make a currently marginally productive pasture into a productive hay field.*

*The City of Union is listed as 41 percent low to medium income (LMI). However, the City of Union believes that the actual LMI percentage is substantially higher than the listed LMI percentage. To verify the City of Union LMI percentage, the City is conducting an independent income survey. Therefore, the City respectfully requests assistance to finance this project.*

## 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:*

*It is estimated that 20 to 30 temporary construction and professional jobs would result before and during the project. The work is expected to last approximately 1 year. During the construction phase, services such as restaurants, gas stations, and similar establishments would maintain and, potentially, increase their workforces.*

*Post-Construction:*

*When the project is completed, one additional half-time employee would be needed to monitor and maintain the new storage pond, land application site, pumps, associated ancillary equipment, and manage the hay cutting/removal team. Present WWTF employees would retain their current positions and workload.*

*For the hay harvest, at full production, three to four cuttings of alfalfa should be routinely removed from the hay field annually. This work would be accomplished by seasonal workers and would likely require two people for one week per cutting or approximately 8 to 16 work days, depending on weather conditions. At least one additional half-time job is expected to be needed at the Buffalo Peak Golf Course to manage increased irrigation volume and increased grounds keeping needs.*

*Land application wastewater treatment technology would provide a broader base for wastewater treatment and removal than the current WWTF, which is a mechanical plant. The City of Union has some suitable sites that could attract new commercial and industrial businesses to the community if an adequate wastewater treatment system is available. Probable sites include:*

- Bronson Lumber company site*
- Old lumber mill site*

(b) Increases in economic activity:

*The construction effort will require carpenters, heavy equipment operators, surveyors, engineers, plumbers, and electricians, some of whom may temporarily relocate to Union. Although public contract documents are written to encourage the use of local vendors and labor, some construction materials will not be available locally and will be imported from sources outside the immediate area. It is expected that local vendors will supply hand tools, lodging, food, materials, and fuel.*

*Improved long-term economic activity increases will result from the new hay production facility and associated farm work. Fishing opportunities could improve as a result of removing treated wastewater effluent flow and*

*associated pollutants to Catherine Creek. With improved fisheries, more anglers may frequent Union and utilize the locally available accommodations and services.*

*By land application of the wastewater effluent, the type of potential commercial and industrial users the City of Union might accept can be expanded when compared to NPDES limitations on discharge to Catherine Creek. This will improve the City's ability to attract new industrial or commercial activities.*

(c) Increases in efficiency or innovation:

*Land application of treated effluent to Buffalo Peak Golf Course varies annually, depending on weather, but usually occurs over a four- to six-month period (October 1 through June 1). The City of Union's WWTF treated approximately 41,000,000 gallons of sewer influent from the community in 2014. Approximately one-half of the treated effluent was used to irrigate the Buffalo Peak Golf Course. The other half was treated, chlorinated, de-chlorinated, and discharged to Catherine Creek.*

*With the implementation of the wastewater improvements and creation of a new land application site, all 41,000,000 gallons of annually treated wastewater effluent production will be land applied, converting approximately 21,000,000 gallons of treated wastewater effluent to beneficial use as irrigation water. Using treated wastewater effluent for irrigation, rather than discharging it to Catherine Creek, increases water efficiency by reducing the overall use of Prescott Ditch irrigation water and, in cases of a severe shortage, City of Union municipal water at the golf course.*

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

*The project improves the production of approximately 50 acres of marginally productive pasture. The 50-acre parcel that will become the land application site and produce alfalfa hay is currently a marginally productive area due to lack of irrigation and nutrients. Treated wastewater effluent used as irrigation water provides needed irrigation water and nutrients. Nutrients normally present in treated wastewater effluent are beneficial to hay crops. As a result, the 50-acre parcel will become more fertile and will produce a useable and marketable crop.*

*Additionally, during drought periods, the irrigation water volume in Prescott Ditch that provides supplementary irrigation water to the golf course may diminish or become unavailable when it is needed to supplement treated effluent for golf course irrigation. When this occurs, irrigation water must then be replaced with potable water from the City's municipal water supply. With the application of additional treated wastewater effluent for irrigation, makeup water from the City's municipal water supply (treated potable water) should not be needed.*

*Wastewater infrastructure in the area will be expanded and enhanced with the addition of a treated wastewater effluent transfer pipeline, pumping system, storage ponds, and pivot irrigation system. As a result of the improvements, the marginally productive EOARC farm ground will become more valuable with improved crop production potential. Lease of the farm ground to local farming interests and/or sale of the hay crop will help offset annual maintenance costs associated with the operation of a WWTF and the corresponding land application sites.*

(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:

*The water quality of Catherine Creek will be improved by removing the treated wastewater effluent discharge to the State of Oregon's river system. The primary pollutants being removed, which negatively affect fish, invertebrates, and the aquatic environment, are phosphorus, ammonia, warm water, BOD5, TSS, pH, and alkaline. By removing the treated effluent discharge to Catherine Creek, in-stream pollutants will be unaffected by the operations of the City of Union's WWTF.*

*Cleaner, higher quality water in Catherine Creek is expected to improve native fish habitat of cultural significance to Indian tribes, recreational fishing, and fish populations and subsequent spawning for salmonid and bull trout. Improved fishing is expected to be followed by an increase in the number and frequency of anglers*

*in the region, which will translate to an increase in the use of available City services. With the removal of nutrients and pollutants to Catherine Creek, the aesthetic quality of the water will be enhanced. Nutrient-induced foam and aquatic plant growth resulting from pollutant loading will be reduced.*

*Aesthetically improved water is expected to promote the recreational use of Catherine Creek for activities such as Indian tribe cultural field trips, swimming, rafting, fishing, and wading.*

(f) Increases in irrigated land for agriculture:

*This project creates a 50-acre increase in irrigated agricultural land at the proposed City of Union land application site on EOARC property. The land application site will convert marginal-quality seasonal pasture land into a productive hay crop field, thus reusing treated wastewater effluent for a beneficial use rather than wasting it into Catherine Creek.*

*By utilizing treated wastewater effluent for irrigation purposes, a portion of the irrigation water (Prescott Ditch) currently used at the golf course could become available for other agricultural irrigation users.*

***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:

*Floods normally occur during spring ice breakup, and the associated snow and ice melt water can overtop Catherine Creek. This condition has been amplified historically when ice jams occur during spring runoff or when rain combines with warm water to accelerate snowmelt.*

*Removing the City of Union's treated wastewater effluent discharge to Catherine Creek and storing it in a pond for seasonal land application will reduce flows to Catherine Creek by approximately 21,000,000 gallons during the NPDES Permit-allowed discharge period (October 1 to June 1). Eliminating treated effluent discharge will increase the available capacity of Catherine Creek to accommodate high flows.*

*Removal of a waste stream to Catherine Creek by storing and land application on a proposed hay crop and moving the flow to a land application site will remove toxins and pollutant discharge to Catherine Creek, improve fish habitat (of cultural importance to Indian tribes), utilize wastewater nutrients in a hay crop, improve water quality by eliminating the discharge impacting the land application site, and support the natural hydrograph of the stream. Once established, a perennial crop such as alfalfa will also aid soil stability during a flood event.*

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

*As a result of irrigating with treated wastewater effluent on a hay crop, the top-most aquifer will be recharged with water passing the plant root zone during irrigation. As a result, the overall water content of the upper aquifer will increase. Increased near-surface water is expected to benefit plant life, small animal habitat, and bird activity in the vicinity of the proposed land application site. Water not used by plant uptake will be naturally purified as it moves through the soil toward the shallow aquifer. The reuse of treated wastewater effluent for irrigation reduces irrigation water requirements whether they originate from a groundwater or surface water source.*

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

*The water quality in Catherine Creek will immediately improve since discharge of treated wastewater effluent to Catherine Creek will be discontinued, and runoff from the proposed land application site will be contained on*

*site. It is further expected that treated wastewater effluent used for irrigation will allow naturally occurring surface water currently consumed by plants on the land application site to flow toward the riparian zone. Additional water in the riparian zone will benefit and foster plant life and animal habitat.*

**(d) Water conservation:**

*An annual volume of approximately 21,000,000 gallons of water will be conserved as a result of this project. This conservation will occur by moving the WWTF discharge from Catherine Creek to a land application site where the treated effluent would be utilized for irrigation of Buffalo Peak Golf Course and a new hay field (the annual quantity of water conservation will increase as the City grows). Presently, if treated wastewater effluent coupled with Prescott Ditch irrigation water is insufficient to meet the golf course land application site demands, makeup water from the City's municipal water supply (potable water) well must be used to supplement irrigation. Water balance calculations show that this project will eliminate the need to supplement irrigation at the golf course with treated municipal (potable) water as well as Prescott Ditch irrigation water that also originates from Catherine Creek.*

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

*This project adds 50 acres of high quality hay crop production ground to the area's agricultural base through the land application of treated wastewater effluent from the City of Union's WWTF. Currently, the proposed land application site is dormant for most of the year. Crop conversion is limited to spring grazing. When completed, the proposed land application site will actively grow a crop for up to six months per year (weather permitting). The addition of 50 acres of irrigated cropland to Union County will positively impact greenhouse gases by utilizing carbon dioxide gas through plant photosynthesis and manufacturing oxygen gas.*

*This project ensures irrigation water availability to Buffalo Peak Golf Course even when drought conditions prevail. The fairways and putting greens will remain usable and provide a secondary function that protects the City from range fires while adding to the area's vista. Treated wastewater effluent contains nutrients that promote healthy plants, which, in turn, reduces the amount of commercial fertilizer applied during the growing season.*

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

*The upper Grande Ronde River Subbasin Total Maximum Daily Load (TMDL) document lists sensitive species in Catherine Creek as bull trout, native Chinook salmon, and native steelhead trout. The TMDL includes temperature, aquatic weeds, algae, dissolved oxygen, nutrients, and pH as parameters that currently exceed the target of water quality standards.*

*This project removes treated wastewater effluent discharge to Catherine Creek. Through implementation of this project and the removal of treated wastewater effluent to Catherine Creek, the adverse effects of the treated wastewater effluent on Catherine Creek will be eliminated, and the TMDL-listed parameters of the subbasin are expected to improve by the amount of the pollutants removed.*

***Social/Cultural Benefits ORS 541.673(4)***

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

*This project improves water quality in Catherine Creek in keeping with the federal Clean Water Act goal to make America's waters swimmable and fishable. Health and safety exposure risk from contact with Catherine Creek water is reduced by less potential human and livestock interaction with treated wastewater effluent. Removing chlorine, ammonia, phosphate, BOD5, E. coli, and TSS from the discharge to Catherine Creek improves fish habitat. Improved fish habitat is important for cultural reasons to Indian tribes that may have historically hunted and gathered in the area. The food supply available for human consumption is also improved by the ability to feed cattle from the hay produced on the land application site.*

**(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:**

*A total of 42 percent of Union's citizens fall below the LMI levels, as reported in the 2009-13 American Community Survey (ACS) MHI, Population, and Other Demographics by City table as published by Portland State University. Additionally, the average income in Union is 79 percent of the state average. The City of Union is currently performing an independent survey to verify the LMI ratio. To ensure the public is fully informed about and understands the need for the project, all City council meetings are advertised and open to the public. To enhance community interaction, two workshops and two town hall meetings have been held. Improvements to the WWTF will benefit Union's citizens through improved infrastructure that is expected to attract new industries to the community and replace jobs lost in the last couple of decades due to the declining regional timber harvest. This project contributes to making the community vibrant and alleviate the current demographic trend towards an aging, retired population.*

(c) The promotion of recreation and scenic values:

*Recreation and scenic values would improve as a result of this project. Removing nutrients that promote algae and aquatic weed growth from Catherine Creek will improve water quality and raise oxygen levels for fish and aquatic life habitat, as well as increase opportunities for fishing with more fish present in the stream and water quality better suited for swimming and wading. Photo opportunities will also increase and values culturally important to Indian tribes will be maintained. Improvements that are unique to this project include:*

- *A new, vibrant alfalfa hay field*
- *12-acre pond*
- *Improved golf course vegetation*
- *Increased deer habitat*
- *New water fowl resting/rearing area*

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

*Removal of treated wastewater effluent from Catherine Creek provides a specific action that will allow monitoring of water quality in Catherine Creek before and after the waste stream is removed. Data derived from this specific event will be valuable for fish studies, TMDL refinements, and for the general scientific knowledge bases.*

(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:

*State and local priorities to improve fish runs and habitat for salmon, bull trout, and steelhead trout (listed fish are of cultural significance to Indian tribes) will be supported by this project through improved Catherine Creek water quality. The removal of TSS, BOD5, and toxins are immediate water quality improvements that will lead to clearer water, improved fish spawning beds, improved (reduced) temperature, and reductions of algae and aquatic weed growth. Overall, any improvements to Catherine Creek will aid restoration and protection of native fish species and a subsequent cultural significance to Indian tribes.*

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

*Integrated water resource strategies are safeguarded by this project. This project converts 21,000,000 gallons of treated wastewater effluent and 50 acres of marginally productive rangeland into a system that will produce a hay crop for animal feed, simultaneously eliminating land application site runoff. This project also eliminates all WWTF discharge and associated pollutants to Catherine Creek. Discontinuing treated effluent discharge from the WWTF to Catherine Creek addresses TMDL limits in Catherine Creek. The following summarizes meetings open to the public that specifically addressed the project. Agendas are attached for verification.*

*Meeting with OSU about partnering - August 20, 2014*

*City Council meeting to review proposed partnership with OSU - October 13, 2014*

*City Council meeting to further discuss OSU and project - December 8, 2014*

*One Stop meeting - April 1, 2015*

*City Council Work Session to discuss the One Stop meeting and funding options - April 28, 2015*

Town Hall Meetings regarding project - September 22, 2015, and October 13, 2015 (included PowerPoint presentations)  
City Council meeting to approve resolution to apply for grant funds - January 11, 2016

**2. Identify Project Location.**

(a) Attach map of project implementation area if appropriate. List map(s) in this space and attach to application. *Figures B-1 and B-2 are attached. Figure B-1 shows the City of Union, the service area boundary, and the location of the existing WWTF. Figure B-2 shows a conceptual layout of the improvements, including new pipelines, pump stations, a 12-acre treated wastewater effluent storage pond, and the 50-acre center pivot irrigation system.*

(b) Township      Range      Section      Quarter-Quarter Section  
    04S              39E              24

(c) Tax Lot Number(s)  
1700 and 7700

(d) Latitude/Longitude  
45.205663 / 117.891157

(e) County  
Union

(f) Watershed  
Catherine Creek - HUC 6: 170601040507

(g) River/Stream Mile (where applicable)  
River Mile 16.8

**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.**  
*The land application site will be placed on EOARC land owned by Oregon State University. See attached letter from EOARC dated January 15, 2016, and attached notes from the meeting held August 20, 2014.*

**(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: 2016 to 2018**

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

Project Key Tasks	2015				2016				2017 & Beyond
	1 <sup>st</sup> Qtr	2 <sup>nd</sup> Qtr	3 <sup>rd</sup> Qtr	4 <sup>th</sup> Qtr	1 <sup>st</sup> Qtr	2 <sup>nd</sup> Qtr	3 <sup>rd</sup> Qtr	4 <sup>th</sup> Qtr	
Land Use Agreements		X	X	X					
Project Funding		X	X	X					
Agreement for Engineering Services				X	X				
Engineering Design						X	X	X	
Construction Bid Process									X
Award Construction Contract									X
Construction									X
Close Out Construction Contract									X

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

*Inclement weather, an unusually long winter season, bitter cold, and/or winter snowfall. However, weather conditions would deter, not prevent, completion of the project.*

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

*A Feasibility Analysis is provided in Chapter 5 of the City of Union's 2015 Wastewater Facilities Plan (WWFP). A PDF of the WWFP has been provided on the accompanying flash drive.*

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

*Record tons of hay produced. Test Catherine Creek for toxic constituents after treated wastewater effluent is removed from the flow, especially during critical and low flow periods. Compare to levels when discharging as recorded in current Discharge Monitoring Reports.*

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

*Union County, Union School District, EOARC, Chamber of Commerce, DEQ, Representative Greg Barreto, Oregon Department of Fish and Wildlife, Union Soil and Water Conservation District*

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

*The City of Union has partnered with EOARC for the completion of the project. EOARC is providing 15 acres of land for the treated wastewater effluent storage, and approximately 20 acres for future treatment lagoons, together with 50 acres for the application site.*

*The City of Union has also partnered with Union County to improve land application of treated wastewater on the Buffalo Peak Golf Course land application site.*

**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.

*Please see the attached email from Karen Quigley.*

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.

*Project notification was sent to the Confederated Tribes of the Umatilla Indian Reservation (see the attached email to Gary Burke) and the Confederated Tribes of the Warm Springs (see the attached email to Austin Greene).*

**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.**

*The City of Union holds an administratively extended NPDES Permit (Permit No. 101624) for operations at the WWTF. A copy of NPDES Permit No. 101624 is included with the attached 2015 City of Union Wastewater Facilities Plan.*

**(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.**

*A 1200-C Permit will be required for constructing the treated wastewater effluent storage ponds and a building permit will be needed for the proposed pump house. Permits will be secured during the design phase of the project. A Water Pollution Control Facilities Permit will regulate the completed land application facility. This permit will replace the current NPDES Permit.*

**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.**

*This project is detailed in the 2015 WWFP. A pdf of the WWFP is included on the accompanying flash drive.*

**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.**

*Sixty acre-feet operational storage. The pond will have 2 to 3 feet of freeboard.*

**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 #

**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.

%

*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

%

*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.

In the Type column below matching funds may include:	In the Status column below matching funds may have the following status:
<ul style="list-style-type: none"> <li>• <b>Cash</b> - Cash is direct expenditures made in support of the feasibility study by the applicant or partner*.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Secured</b> - Funding commitments already secured from other sources.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>In-Kind</b> - The value of in-kind labor, equipment rental and materials essential to the feasibility study provided by the applicant or partner.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Pending</b> - 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.</li> </ul>

\* “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>City Funds</i>	<input checked="" type="checkbox"/> cash <input type="checkbox"/> in-kind	<input checked="" type="checkbox"/> secured <input type="checkbox"/> pending	\$150,000	September 15
<i>IFA Financing, Loan and Grant</i>	<input checked="" type="checkbox"/> cash <input type="checkbox"/> in-kind	<input type="checkbox"/> secured <input checked="" type="checkbox"/> pending	\$2,120,000	July 16
<i>In-kind City Labor</i>	<input type="checkbox"/> cash <input checked="" type="checkbox"/> in-kind	<input checked="" type="checkbox"/> secured <input type="checkbox"/> pending	\$30,000	Grant and loan administration 2016 to 2018
	<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		

