



R & E Grant Application 13 Biennium

Project #:
13-105

Deschutes Fish Passage Project

Project Information

R&E Project Request: \$200,000.00
Match Funding: \$1,382,000.00
Total Project: \$1,582,000.00
Start Date: 3/1/2015
End Date: 6/30/2017
Project Email: alan.d.ritchey@state.or.us
Project Biennium: 13 Biennium
Organization: ODFW - Salem Headquarters

Applicant Information

Name: Alan Ritchey
Address: 4034 Fairview Industrial Dr SE
Salem, OR 97302
Telephone: 503-947-6229
Email: alan.d.ritchey@state.or.us

Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Project Summary

This project is part of ODFW's 25 Year Angling Plan.

Activity Type: Passage

Summary: This project will install a new fish ladder at a large dam on the Deschutes River. The North Canal Diversion Dam is a complete upstream fish passage barrier at all flows to redband trout, brown trout, and mountain whitefish. This dam was originally installed over 100 years ago and is currently 38 feet tall. R&E funds will be used to purchase materials and fabricate a fish ladder that will restore fish passage at this barrier identified on the Statewide Fish Passage Priority List.

Objectives: The primary objective of this project is to install a fish ladder at a large concrete diversion dam on the Deschutes River. North Canal Diversion Dam has been in existence blocking fish passage since 1912. This site is a complete upstream barrier at all flows to redband trout, brown trout, and mountain whitefish. The proposed ladder is consistent with current fish passage criteria, has been reviewed extensively by ODFW throughout its design, and will meet the biological needs of

all life history types of native migratory fish present in the project area. Project implementation will restore upstream access to valuable habitat in the Deschutes River.

The proposed project is a vertical slot style fish ladder that will meet fish passage needs at all but the most extreme high and low flow conditions. Vertical slot fishways provide a swim through route through the ladder without requiring fish to jump between pools. This fishway type allows passage at any depth in the water column and is self-adjusting, which reduces day to day operational concerns for the water users compared to other fishway types.

Other project objectives include an improved angling experience in the upper and middle Deschutes River, assist ODFW in meeting our commitment to a collaborative fish passage solution at this site, and add to the cumulative effects of other restoration projects recently completed and under development in the Deschutes Basin.

**Fishery
Benefits:**

The Deschutes River is a renowned fishing destination for anglers targeting a premier steelhead and trout fishery. The project site is located within the City of Bend where many anglers live or base their fishing trips from. A consumptive recreational fishery is present above and below the project site in an area open for public access. Eliminating this complete barrier to upstream passage will provide connectivity for trout populations above and below the project area, increasing fish productivity, which will significantly improve angling success throughout the upper and middle Deschutes.

Oregon's 25 Year Angling Enhancement Plan (ODFW 2009) identifies the protection and enhancement of naturally produced fish in their native ranges as the foundation for long term recreational fishery management in Oregon. Implementation of this project immediately supports Goal 1 identified in this Plan, to maintain and restore naturally produced fish that provide a recreational fishing opportunity.

**Watershed
Benefits:**

This project will reconnect the Deschutes River at a barrier that has been in existence for over 100 years. This fish ladder will immediately open up over a mile of mainstem Deschutes River habitat. In the coming years this project is expected to be combined with a separate fish passage project that will result in unimpeded fish passage at all artificial barriers in the 107 mile stretch of river from Lake Billy Chinook upstream to Wickiup Reservoir. Combined with a new fish screen project scheduled at this diversion, fish will be protected in their up and downstream migrations. This will promote genetic diversity and increase the available habitat for fish to seek necessary spawning and rearing habitat. The upper Deschutes River has a greatly altered flow regime due to the storage and release of water for irrigation purposes. This generates highly variable habitat and flow conditions above and below the project area. Fish are not currently able to seasonally migrate to more favorable sections of the river due to the barrier at North Canal Dam. This precludes access to spawning habitat and areas of thermal refugia. Construction of this fish ladder will facilitate critical seasonal migration and genetic exchange.

This project is identified on the ODFW Statewide Fish Passage Priority List in addition to being a District and Region priority. The Upper Deschutes River Subbasin Fish Management Plan (ODFW 1996) identifies fish barriers as one of three primary concerns affecting fish management in this section of the Deschutes River

**Current
Situation:**

The North Canal Diversion Dam was originally installed over 100 years ago. The dam is approximately 38 feet tall with no fish passage provisions. This has created a complete barrier to upstream fish passage. Two separate irrigation canals serving three irrigation districts exist on the east bank that conveys water for agricultural and hydroelectric purposes. One of these canals is equipped with a fish screen consistent with current fish screen criteria. The other canal is still operating with a fish screen installed in the 1940's. ODFW has entered an agreement with the irrigation district to replace this antiquated fish screen. This screen replacement project is currently being designed with implementation planned for the coming years. This fish passage project combined with a new fish screen funded through a separate process will provide both upstream and downstream passage at this large diversion dam on the Deschutes River for the first time in over 100 years.

ODFW and the water users at this dam entered into a Fish Passage Plan Agreement in 2010. The terms of this agreement obligated the water users to raise \$400,000 towards the construction of this fish ladder. ODFW agreed to secure \$600,000 to contribute to this project. This R&E request will assist ODFW in meeting the terms of this agreement and lead to the completion of this long sought after fish passage project. Other ODFW programs are contributing the remaining \$400,000 to round out the ODFW agreement.

Alternatives:

An earlier proposal combined this fish ladder with a new fish screen. The proposed ladder design at that time was a concrete pool and weir structure. That proposal was considered cost prohibitive at the time and competing projects delayed the project such that the fish screen was finished on its own and is still operating today. Since that time a pre-fabricated steel fishway technology was developed for the Caldera project at Blue Lake. The Caldera project is considered a successful prototype for application at the North Canal Diversion Dam project.

A fish passage waiver was a legal option at this site. This alternative would require mitigation that created a net benefit compared to providing passage at this site. The benefits of restoring fish passage at this site on the Deschutes are great and ODFW sees far more benefit in working with the water users to raise the funds necessary to install a fish ladder at this site.

Designer: This project design has already been completed through water user funding. Black Rock Consulting and L/B Engineering Inc provided the engineering services on this project. The plan set has been developed and certified by a licensed engineer.

Methods: This fish ladder project is being patterned after a similar ladder installed at Blue Lake several years ago. The Blue Lake ladder is regarded as a successful fish ladder strategy. The stainless steel ladder will be fabricated off site and transported to the dam for installation. Fabricating the ladder in a metal shop environment eliminates common project constraints associated with in-water work periods, unpredictable weather and river flows. Necessary permits will be obtained, however off channel construction and the lack of inwater work associated with this project is expected to eliminate permits commonly required for instream projects.

ODFW fish passage approval has already been secured. The design team worked with the ODFW Fish Passage Program to ensure the design meets the biological needs of fish species and lifestages present at the project site. ODFW Engineering has been consulted on this project and supports the fish passage proposal. ODFW Engineering staff time is not necessary on this project as no capital improvement, construction, grading, or other project component is associated with an ODFW facility.

Construction will be contracted out by the irrigation districts. Purchase of materials will begin spring 2015, fabrication and installation will begin summer/fall 2015 with final project completion by June 2017.

Inspector: The design engineer will inspect the completed work under contract to the irrigation districts. ODFW will inspect the completed work to ensure the fish ladder is appropriately built, installed, and functioning for native migratory fish.

Funding Elements: The total project estimate is \$1,582,000. R&E funds will be used to purchase stainless steel and other supplies necessary for ladder construction and labor required to fabricate the ladder. This budget line item is estimated to cost \$583,240. Materials purchase is expected to begin spring 2015. The project proponents are able to spend \$100,000 of this application request during the 2013-15 biennium. ODFW staff time will not be charged to R&E. This \$200,000 request will be matched with other fund sources to complete the site preparation, fabrication, and installation. Depending on the timeline of R&E Fund allocation and project implementation, R&E funds may also be used for costs associated with ladder installation. OWEB funds will be requested to complete this project.

Partners: Yes
 Central Oregon Irrigation District, North Unit Irrigation District, and Swalley Irrigation District operate the dam and fish ladder once it is installed. They obtained the engineered plans and are contributing funds towards project implementation.

Existing Plan: Yes
 The Upper Deschutes River Subbasin Fish Management Plan (ODFW 1996) identifies fish barriers as one of three primary concerns affecting fish management in this section of the Deschutes River. This barrier is also identified on the ODFW Statewide Fish Passage Priority List.

Affected Contacted: Yes

Affected Supportive: Yes

Affected Comments: All three water users at this site support the project and a letter of support is attached.

Project Schedule/Participants/Funding

Activity	Date	Participants
Begin acquisition of materials	4/1/2015	Irrigation Districts
Continue acquisition of materials	8/1/2015	Irrigation Districts
Begin fish ladder fabrication	10/1/2015	Private contractor
Install fish ladder	7/1/2016	Private contractor
Final project completion	6/30/2017	Private contractor
Obtain necessary permits	9/1/2015	Irrigation Districts

Affected Species: Brown Trout
 Mountain Whitefish

Redband Trout

Project Permits

This project has no permits.

Project Monitoring

Organization	Address	Activity	Frequency
Central Oregon Irrigation District	1055 SW Lake Ct. Redmond, OR 97756	Assess fish passage and ladder function	At least weekly when diverting water
North Unit Irrigation District	2024 Beech Street Madras, OR 97741	Assess fish passage and ladder function	At least weekly when diverting water
ODFW	,	Assess fish passage and ladder function	At least quarterly for first three years.

Project Maintenance

Organization	Address	Activity	Frequency
Central Oregon Irrigation District	1055 SW Lake Ct. Redmond, OR 97756	Ladder inspection and maintenance as needed	At least weekly when diverting water
North Unit Irrigation District	2024 Beech Street Madras, OR 97741	Ladder inspection and maintenance as needed	At least weekly when diverting water

Project Match Funding

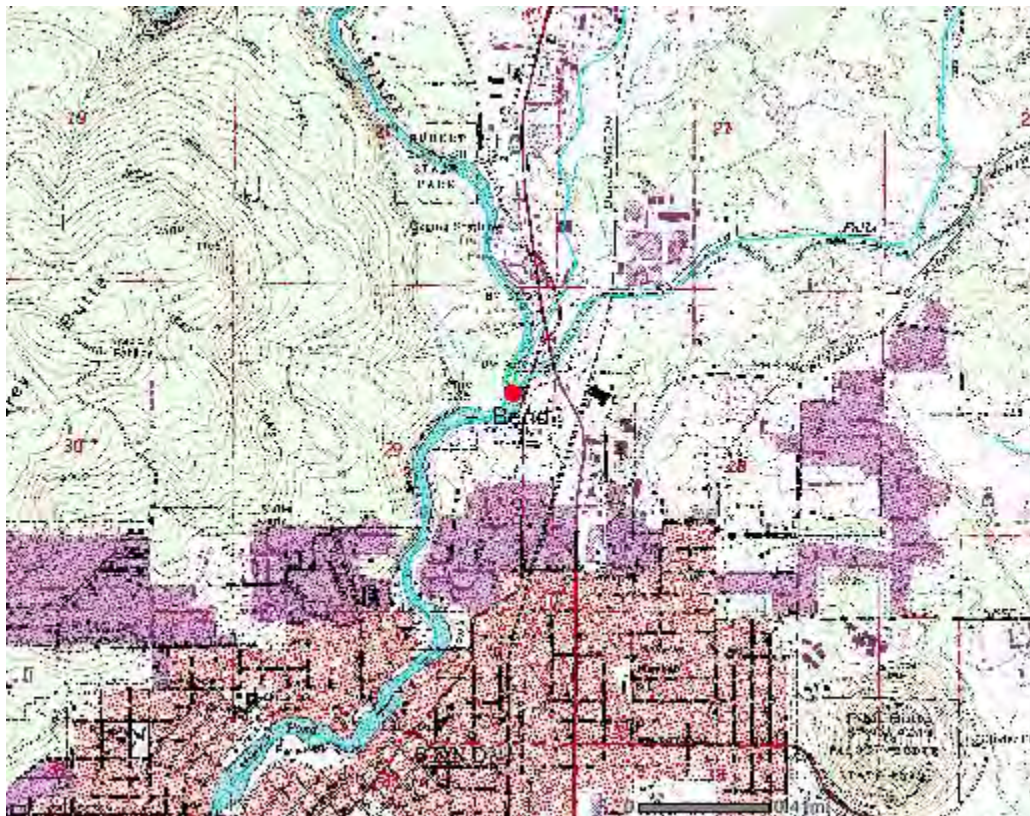
Funding Source	Cash	In-Kind	Other	Description	Total	Secured?	Conditions?	Comments
R&E Request	\$200,000.00	\$0.00	\$0.00		\$200,000.00	No	No	
NUID, COID, and Swalley Irrigation Districts	\$400,000.00	\$0.00	\$0.00	Cash contribution from irrigation districts that use this diversion structure.	\$400,000.00	Yes	No	
ODFW Screens & Passage	\$200,000.00	\$0.00	\$0.00		\$200,000.00	No	No	
ODFW/COID Hydro	\$200,000.00	\$0.00	\$0.00		\$200,000.00	No	No	
OWEB	\$582,000.00	\$0.00	\$0.00		\$582,000.00	No	No	Pending OWEB submission
				Total Match Funding:	\$1,582,000.00			

Project Budget

Item	Item Type	Units	Unit Cost	R&E Funds	Match Funds	Total
Assembly labor	Contracted Services	1				
Backfill and compaction	Contracted Services	1				
Boom truck rental	Contracted Services	1				
brush clearing/site prep	Contracted Services	1				
Catwa k contracting fee-15%	Contracted Services	1				
Catwa k equipment rental	Contracted Services	1				
Catwa k fuel surcharge	Contracted Services	1				
Catwa k labor	Contracted Services	1				
Catwa k materials and fabrication	Contracted Services	1				
Catwa k on site assembly	Contracted Services	1				
Catwa k supervision and coordination	Contracted Services	1				
Clearing and grubbing	Contracted Services	1				
Columns and footings labor	Contracted Services	1				
Columns and footings materials	Contracted Services	1				
Columns and footings pumps/bracing	Contracted Services	1				
Columns and footings shoring rental	Contracted Services	1				
Crane services	Contracted Services	1				
Engineered fill	Contracted Services	1				
Final grading/cleanup	Contracted Services	1				
Fish ladder contracting fee-10%	Contracted Services	1				
Fish ladder demo/concrete cutting	Contracted Services	1				
Fish ladder fabrication	Contracted Services	1				
Fish ladder fuel surcharge	Contracted Services	1				
Fish ladder on site assembly	Contracted Services	1				
Fish ladder pipe support coating	Contracted Services	1				
Fish Ladder site mobilization	Contracted Services	1				
Fish ladder supervision and coordination	Contracted Services	1				
Fish ladder support structure fabrication	Contracted Services	1				
Fish ladder transportation	Contracted Services	1				

The Project Budget has been redacted because it contains proprietary information.

Project Map



Additional Files

Click a link to view that particular file.

[Irrigation Districts support letter](#)

[North Canal Dam Picture](#)

[ODFW Director's office letter of support](#)

[ODFW District support letter](#)

[ODFW Fish Passage Approval](#)

[ODFW signature authorization form](#)



Oregon

John A. Kitzhaber, MD, Governor

Department of Fish and Wildlife

Office of the Director

4034 Fairview Industrial Dr SE

Salem, OR 97302-1142

503-947-6044

Fax: 503-947-6042

www.dfw.state.or.us

October 28, 2014



Lonnie Johnson
Restoration and Enhancement Board Chair
Oregon Department of Fish & Wildlife
4034 Fairview Industrial Drive SE
Salem, Oregon 97302

Dear ^{Lonnie} ~~Mr. Johnson~~:

I am pleased to support the Deschutes Fish Passage Project request for funding submitted to the Fish Restoration and Enhancement Program (R&E) to assist with installation of a new fish ladder at the North Canal Diversion Dam. At a height of 38 feet, the North Canal Diversion Dam blocks all fish passage to critical habitat in the Deschutes River.

The proposed project is part of a plan to maintain and restore naturally produced redband trout that provide popular recreational fishing opportunities in the Deschutes River.

The overall project is anticipated to cost nearly \$1.6 million. The Oregon Department of Fish and Wildlife (Department) negotiated a Fish Passage Plan Agreement in 2010 and needs \$600,000 in funding to complete this high priority project. Other Department programs are providing \$400,000 of those funds, and I support this R&E request to fund the remaining \$200,000.

Sincerely,

Curtis E. Melcher
Interim Director



Oregon

John A. Kitzhaber, MD, Governor

Department of Fish and Wildlife

Deschutes Watershed District

East Region

61374 Parrell Road

Bend, Oregon 97702

(541) 388-6363

FAX (541) 388-6281

November 4, 2014



Restoration and Enhancement Board

Re: North Canal Dam Fish Passage Project

The Deschutes District of the Oregon Department of Fish and Wildlife strongly supports the grant application requesting Restoration and Enhancement Program funds for the construction of a fishway on the North Canal Dam. The dam is located at River mile 165 on the Deschutes River within the City of Bend in central Oregon. It is an approximately 40 foot high concrete structure constructed in 1912 for the impoundment and delivery of irrigation water. It is a complete barrier to all fish migration throughout the year.

Fish passage at the North Canal Dam will provide connectivity for populations of native redband and brown trout in the upper Deschutes River. The storage and release of water for irrigation purposes results in a greatly altered hydrograph in the Deschutes River. This leads to very high flows above the dam and low flows below the dam during the summer months and the inverse during the non-irrigation season. Passage at North Canal Dam will facilitate the migration of trout to favorable habitats as conditions change seasonally. The current lack of passage also precludes exchange of genetic material between populations upstream and downstream of the dam.

The North Canal Dam is on the Deschutes River within the City of Bend. As such, it is in close proximity to large population centers in central Oregon. The Deschutes River is a renowned trout fishery in both upstream and downstream reaches. The recreational fishery in the project area is constrained by the lack of fish passage at North Canal Dam. Construction of a fishway at the site will increase trout production and significantly improve the quality of the recreational fishery and help meet the demand from an urban population.

Brett Hodgson



Deschutes District Fish Biologist
541-388-6009



November 6, 2014

Restoration and Enhancement Board
Oregon Department of Fish and Wildlife
4034 Fairview Industrial Drive SE
Salem, OR 97302

Dear R and E Board members,

The three irrigation districts that divert water at the North Canal Diversion Dam (NCDD)- Central Oregon Irrigation District, North Unit Irrigation District and Swalley Irrigation District- are writing this joint letter to show our support for the ODFW R and E application for \$200,000 to help fund construction of a \$1,582,000 fish ladder at the dam.

As part of a voluntary agreement (Fish Passage Plan Agreement) between the three districts and ODFW, signed in 2010, the three districts will have contributed \$400,000 of their own proceeds to this project by April 2015. In addition the three districts have invested a significant amount of staff time over the past few years working with engineers experienced with fish ladders, to design the fish ladder. The districts are also in the process of obtaining the necessary permits to begin construction work near the River, such as constructing a gravel road and removing old pipe that is no longer in use so that work on the fish ladder can commence once funding is obtained. The agreement states that ODFW is to provide \$600,000 and if the total cost to design and build the fish ladder exceeds \$1 million the parties are to reconvene and discuss how to secure the additional funds.

We believe this partnership of local irrigation district funds and funds procured by ODFW- as well as staff time already invested by all four entities to develop the fish ladder project- is a good example of local/state and irrigation district/ODFW collaboration. This partnership has demonstrated and will ensure over the coming months, that the project is completed with the most in-kind services that the four parties can dedicate to it, in order to reduce the total funds needed.

We agree with the content of the R and E grant application. We recommend the R and E Board approve the request for funding. We appreciate your consideration of this grant request.

Sincerely,

Craig Horrell
Manager, Central Oregon Irrigation District

Mike Britton, Manager
North Unit Irrigation District

Suzanne Batterfield, Manager
Swalley Irrigation District



Oregon

John A. Kitzhaber, M.D., Governor

Department of Fish and Wildlife

Fish Division
4034 Fairview Industrial Drive SE
Salem, OR 97302
503-947-6200
Fax: 503-947-6202
www.dfw.state.or.us

November 6th, 2014



Mike Britton
North Unit Irrigation District
2024 NW Beech St
Madras, OR 97741

Craig Horrell
Central Oregon Irrigation District
1055 SE Lake Rd
Redmond, OR 97756

Suzanne Butterfield
Swalley Irrigation District
64672 Cook Ave
Bend, OR 97701

Re: Fish Passage Approval for North Canal Dam Fish Ladder Project; PA-05-0027

Dear North Unit Dam Operators,

The Oregon Department of Fish and Wildlife (ODFW) has reviewed, and approves, as required by Oregon Fish Passage Law ORS 509.585, the fish passage design plans for the proposed new vertical slot fishway at North Canal Dam located on the Deschutes River. The Deschutes River is a tributary of the Columbia River and this project is located in Deschutes County. The project will construct a new vertical slot fishway comprised of 50 slots or "steps" each with a nine-inch upstream to downstream water surface elevation differential. The new fishway will provide fish passage over the 38-foot tall dam at all fish passage design flows, which will provide connectivity to resident and fluvial redband trout populations, greatly improving conditions for native fish in this reach of the Deschutes basin.

ODFW Fish Passage program staff have reviewed the fish passage plan and all corresponding designs, with final iterations received by ODFW on 10/27/14, and we find the project meets all ODFW criteria and requirements for fish passage at a dam and fishway as stated in OAR 635-412-0035 (1,2). ODFW fish passage approval is contingent on specific items which include:

1. Pursuant to OAR 635-412-0035 (10) if in-water work for this project is necessary, all in water work shall occur during the ODFW in-water work window, unless otherwise approved by the Department, and a fish salvage shall be performed by a qualified person in possession of a valid ODFW issued collection permit prior to any de-watering or in-

stream construction activities. All best management practices for in-water work shall be followed including but not limited to, measures to protect against runoff/sedimentation, petroleum products, and other contaminants from entering the stream.

2. The project owners shall be responsible for all monitoring and maintenance required such that the fishway provides adequate fish passage as described in the fish passage plans. Maintenance activities shall include debris removal from the fishway as necessary. Monitoring shall entail visual observations made during site visits and adjustments to the fish ladder based on those observations. Visual observations shall pay special attention to the jump height at the ladder entrance and exit, the water surface elevation differential at each vertical slot, and the freeboard (vertical difference between top of ladder walls and water surface elevation). If jump heights are observed to be in excess of nine inches, it is likely that debris has accumulated in one of the slots and the debris should be removed. If other factors such as, scour, damage, or permanent degradation has caused ladder differentials to exceed nine inches, ODFW shall be notified and the project owners shall be responsible for coordinating, developing, and implementing a solution to the issue.
3. The fish ladder shall be operated in accordance with hydraulic design parameters as described in the project plans. Water surface elevations upstream of North Canal Dam are not expected to fluctuate significantly throughout the year due to the controlled nature of the river in this stretch. However, it may be necessary to make fish ladder adjustments as flows increase and decrease on the Deschutes. Flows within the fishway may be adjusted by incrementally opening or closing the top "exit" gate, which controls flows into the fishway. For best attraction, ODFW prefers the ladder to be operated with approximately 4 feet of water depth in the exit pool. A staff gauge, graduated in tenths of a foot, shall be installed into the exit pool to perform this measurement. As flows increase or decrease it may be necessary to open or close the exit gate to achieve this desired hydraulic condition. The ladder shall always be controlled to maintain flow depths in the exit pool ranging from 2.83' (95% exceedance flow condition) to 4.15' (5% exceedance flow condition). If monitoring shows that depths at the exit pool are out of this range, adjustments shall be made to bring the ladder flow depth back into compliance. If flows allow for the ladder to operate with 4' of depth within the exit pool, this is the desired hydraulic condition for fish passage.
4. A post construction monitoring report shall be submitted to ODFW following construction, and for the first three years following construction. The monitoring reports shall include photos of the ladder at different operating flows, notes on maintenance or operational issues, performance of the fishway, and any other noteworthy observations, specifically any observations or evidence of fish leaping or falling out of the fishway (such as dead fish on the rocks beneath the fishway). The post construction monitoring report shall be submitted to the ODFW Fish Screening and Passage Program (Ritchey, Loffink) and the ODFW Deschutes District office in Bend (Hodgson) immediately following construction. Yearly monitoring reports shall be submitted to the same ODFW staff December 31st of the first three years following construction.
5. If monitoring shows that the fishway is not functioning as desired, or if reports show evidence of fish falling out of the fishway, the Owner(s) and ODFW shall work collaboratively towards developing and implementing a remedy to the issue.
6. The Department shall be allowed to inspect the project site at reasonable times for the duration of this approval. Unless prompted by emergency or other exigent

circumstances, inspection shall be limited to regular and usual business hours, including weekends.

Please retain this correspondence for your records, as this documents ODFW's approval of fish passage at this site. Please pass this information to the appropriate construction staff, the project owner, and project managers as you deem fit. It is the project owner's responsibility to maintain fish passage at this site as detailed in this approval letter. Thank you for your cooperation and patience as we worked through the fish passage approval details for this project. If you have any questions regarding the content of this letter, please contact me by calling 503-947-6256.

Sincerely,



Ken Loffink
Assistant Fish Passage Coordinator

Cc: ODFW: Ritchey, Hodgson, Apke, Hooton, Lambert
Kevin Crew; Black Rock Consulting



Applicant Signature Page
Fish Restoration and Enhancement Program
(Oregon Department of Fish and Wildlife Applicants)

I hereby make an application for financial assistance under the terms and conditions of the Fish Restoration and Enhancement Program as described in my project application. I acknowledge that:

- This proposal is an identified priority at the district, region, and/or state level and has been identified as such in the application (**check box** for appropriate level).
- This proposal is consistent with any applicable goals, policies, rules, species or basin management plans adopted by the F&W Commission and this has been explained in the application.
- This proposal will not be used to cover, back fill, or fund shift elements that have been cut or defunded as part of agency budget reductions. Approved deferred maintenance or projects with division approval are exceptions.

I understand that if my project proposal is approved for Restoration and Enhancement (R&E) Program funding, the following will apply:

- Applicants must sign an agreement containing the terms and conditions for the project implementation, release of funds, and documentation of completion. Non-compliance may impact future funding opportunities.
- The R&E Program will not pay for expenses which occur before the approved start date or after the end date.
- Funding is available one biennium only without prior authorization by the R&E Board.
- Applicant agrees to notify the R&E Program of all funds not needed for the project upon determination.
- Any inappropriate expenses using R&E funds will be corrected by the applicant immediately. By the close of the biennium any expenses exceeding, or not identified in, the grant approval will be reverted to a local cost code.
- Copies of all landowner, monitoring and maintenance agreements must be submitted to the R&E Program.
- Educational products resulting from projects are public domain.
- Information collected is subject to Oregon Public Records Law.
- As applicable, the project will be consistent with all federal, state, and local regulations, including the State Land Use Planning Goals & Local Land Use Plans, prior to any on the ground work.

By signing this application, I certify to the best of my knowledge that the information contained in the application are true, complete and accurate. If awarded funding the applicant agrees to follow all terms and conditions outlined in the agreement.

Project Title: Deschutes Fish Passage Project

Applicant Name: Alan Ritchey Title: Fish Screens and Passage Program Manager

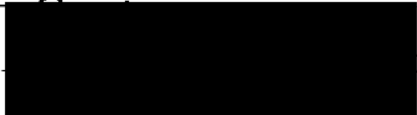
Applicant Signature:  Date: 10-27-14

Manager Certification:

To be completed by Watershed Manger, Hatchery Coordinator, Program Manager, or higher level manager.

- I concur with the statements above and the applicant has permission to request these funds.

Manger Name: Bruce McIntosh Title: Asst. Administrator Inland Fish

Manager Signature:  Date: 11/4/14