

Application #:
Date Received:
Date Acted On:
Recommended Denied
SGT Contact
Signature:

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	oeneral information	
01	OWEB Funds Requested (round to nearest dollar) \$15000	Total Project Cost \$ 19830
Na	lame of Project (five words or fewer) Wise Place - Irrigation	Efficiency
Pr	roject Location (if more than one, include location/landown This project occurs at (check one): X A single site	ner information on each map) Multiple sites
	Watershed: Walla Walla Watershed	waterpie sites
	County or Counties: Umatilla	
	Township, Range, Section (e.g.T1N, R5E, S12): T6N, R35E	E, S35
	Latitude, Longitude (e.g. 44.9429, -123.0351: 45°57'20.9	01"N, 118°23'49.01"W
	Subbasin (10-digit hydrological unit code): 170701207	
	River or Creek Name (if applicable): Walla Walla River	River Mile (if applicable: 45.9
1	Have you previously submitted an application to OWER	either through the regular or small

1. Have you previously submitted an application to OWEB, either through the regular or small a program, for this project, or one similar to it on the same property?Yes Grant # If yes, explain	grant <u>X</u> No
2. Does this application propose a grant for a property in which OWEB previously invested fund purchase of fee title or a conservation easement; or is OWEB currently considering an acquisition this property? Yes Grant # X No If yes, explain	

II. Contact Information

Applicant Org.: Walla Walla Basin Watershed Foundation

Contact: Wendy Harris

Mailing Address: 810 S Main St, Milton Freewater, OR

Phone: 541-938-2170

Landowner(s).: Sean Roloff

Landowner Address: 53677 Locust Rd, Milton Freewater, OR

Phone: 509-520-5435

Project Manager for the Grantee Org: Wendy Harris
Project Manager for the Grantee: Wendy Harris

Project Manager Address: 810 S Main St, Milton Freewater, OR

Payee Org.: Walla Walla Basin Watershed Foundation

Contact: Chris Sheets

Mailing Address: 810 S Main St, Milton Freewater, OR

Phone: 541-938-2170

Technical Contact: Wendy Harris

Tax ID: 93-1255989

Zip: 97862

Email: wendy.harris@wwbwc.org

Zip: 97862

Email: SRoloff27@gmail.com

Phone: 541-938-2170

Zip: 97862

Email: wendy.harris@wwbwc.org

Tax ID: 93-1255989

Zip: 97862

Email: chris.sheets@wwbwc.org

Phone: 541-938-2170

Email: wendy.harris@wwbwc.org

III. Project Information Priority Watershed Concern: the project will address — Check *One* Only. Instream Process & Function Riparian Process & Function Urban Impact Reduction Private Road Impact Reduction Wetland Process & Function Upland Process & Function Fish Passage Water Quantity & Quality/ Irrigation Efficiency Small Grant Team Priority Project Type(s) addressed by the project (list specific eligible project type): Water Quantity 1-a. Is the project consistent with the local watershed assessment or action plan? X Yes Name primary assessment/plan Walla Walla Subbasin Plan No N/A—The watershed does not yet have an assessment or action plan 1-b. Is the project consistent with the local Agricultural Water Quality Management Area Plan? X Yes No 1-c. Is the project consistent with any developed plan for the property (e.g., local conservation or stewardship)? X No Yes If yes, name the plan(s): 2. Describe the current watershed PROBLEM(s) you are seeking to address. The Walla Walla River is a tributary of the Columbia River that supports ESA listed bull trout and summer steelhead and reintroduced spring Chinook salmon as well as many other fish and wildlife species. The Walla Walla River is a primary source of irrigation water for thousands of acres of farm ground in the Milton-Freewater, OR area. As is often the case, water demand is highest for both irrigation and instream needs during late spring, summer and fall. Reliance on Walla Walla River water has created an unnatural hydrograph for the system - high winter/spring flows rushing to the Columbia River and limited summer/fall flows being diverted for irrigation use. Low flows have been documented as the primary limiting factor for fish in the Walla Walla River. Irrigated agriculture around Milton-Freewater provides up to 20%+ (\$85+ million) of the area's economic productivity. This project will help reestablish a more natural hydrograph by reducing water withdrawals during low-flow (spring/summer/fall) time periods. The landowner, Roloff Farms, has taken the orchard out on this property during the last couple of years, but will be replanting a new orchard with a much more efficient irrigation water delivery system for the trees. Water conserved through this project will contribute to maintaining/improving instreams flows in the Walla Walla River for fish and wildlife.

3. Describe the SOLUTION(s) you are proposing to address the current problem(s). Attach a site map, color photo(s), and (if applicable) preliminary project drawings or designs.

Roloff Farms is proposing to convert 5.02 acres from flood irrigation to a more efficient pumped mainline/lateral sprinkler system for an orchard irrigated from the East Crockett ditch located north of the town of Milton-Freewater, Oregon, in Umatilla County. A filter will also be installed to assist with clogging of water lines and sprinkler heads. Water in the East Crocket ditch is diverted from the Little Walla Walla which receives its water from the Walla Walla River. The Walla Walla River is flow limited during much of the irrigation season. This project will improve irrigation efficiency during low-flow time periods and result in additional water being protected instream for ESA listed bull trout and summer steelhead and reintroduced spring Chinook.

With the assistance of OWEB and BPA funding, Roloff Farms has already converted the majority of their orchards from flood irrigation to the more efficient micro sprinklers. This project would convert the last 5.02 acres. An application has been submitted through the Conserved Water Program to protect instream the water savings from the conversion of this orchard, along with the orchards that were previously converted. The conserved water application estimates a water savings of 28.73 gpm from converting this property from flood irrigation to the more efficient sprinklers.

4. Insurance Information If applicable, select all the activities that are part of your submit the DAS Risk Assessment Tool for items 1-5:	project (check all that apply). You will be required to
1. Working with hazardous materials (not including n such as hydraulic fluid)	naterials used in the normal operation of equipment
2. Earth moving work around the footprint of a well	
3. Aerial application of chemicals	
4. Transporting individuals on the water	
5. Removal or alteration of structures that hold back tidegates and other water control devices (this does not water for irrigation)	water on land or instream including dams, levees, dikes, include temporary diversion dams used solely to divert
6. Applicant's staff or volunteers are working with king required, additional insurance is required)	ds related to the project (DAS Risk assessment tool not
7. Applicant's staff are applying herbicides or pesticion insurance is required	des (DAS Risk assessment tool not required, additional
OWEB considers these projects to carry a greater risk to and the community. If boxes 1-5 are checked above, the https://www.oregon.gov/das/Risk/Pages/CntrctrInsReq.asgregarding the insurance policy and requirements can be Policies document available on the OWEB website.	ox, with this application. Additional information
5. Technical Guidance Source (check at least one and i	dentify the Practice Code, or page and paragraph).
NRCS Field Office Technical Guide Practice Code 441 Oregon Road/Stream Crossing Restoration Guide Page # / Para Nonpoint Source Pollution Control Guidebook Page # / Para Urban Subwatershed Restoration Manual Page # / Para	Guide to Placing Large Wood in Streams Page # / Para Forest Practices Tech Note #4 Page # / Para Forest Practices Tech Note #5 Page # / Para Tribal Natural Resource Plans and Water Plans (attach the relevant page or pages)
6. Maintenance and Post-Implementation Monitoring	
a) Project maintenance is the responsibility of the lan maintained? (See application instructions.)	downer. What aspects of the project will be

Who will maintain? Landowner

What will be maintained? sprinklers, mainline & lateral pipes

How will it be maintained? Landowner will clean filter and sprinkler heads and clear water lines as needed in order to maintain propper function of the system.

of years, # of times/year As needed for 10 years

b) Post-implementation monitoring including photo points and visual inspection is *required* for small grants (Year-Two Status Report). What (if any) *additional* aspects of the project will be monitored post-implementation? (See application instructions)

Who will monitor? Wendy Harris, Walla Walla Basin Watershed Council

What will be monitored? Ensure sprinklers have been maintained and are being used properly

Site monitoring protocols? The project manager will photo monitor that materials and equipment installed under this project has reminaed in place and remains in use. In addition, the project manager will confirm each year with the Wallla Walla Irrigation District Manager that less water is being delivered to project site as stated in the conserved water documentation from OWRD. A copy of the final OWRD conserved water documentation from this project will be provided to OWEB.

of years, # of times/year WWBWC will monitor site twice a year for two years.

Amount/Value Column, provide a total dollar amount or value for each funding source.

7. Who will be responsible for writing the Year-Two Status	Report?
Organization: Walla Walla Basin Watershed Foundation	Name: Wendy Harris Zip: 97862
Mailing Address: 810 S Main St, Milton Freewater, OR	Email: wendy.harris@wwbwc.org
Phone: 541-938-2170	
8. Have the required permits been obtained for the project of the	-
 Is this project required as a condition of a local, state, of (e.g., a manure storage and management project required) 	
Yes <u>X</u> No	
10. Project Partners. Show all anticipated funding sources, a contributions. Be sure to provide a dollar value for each fundin-kind contributions, briefly describe the nature of the contributions.	ding source. If the funding source is providing

Funding Source Name the partner and contribution	Cash	In-Kind	Amount/ Value
OWEB:	15000		15000
Landowner:	240	4590	4830

Total Estimated Funds (add all amounts in the far right column)	\$19830

The total should equal the total cost of the project on page 1

11. Project Budget (Word). Itemize projected costs for each budget category that apply to your project. A minimum of 25% match is required. See application instructions and additional team conditions for further guidance.

PLEASE NOTE: Budgets may be submitted in either Word or Excel formats. Documents can be found on the OWEB Forms webpage.

Fill in the amounts, rounded to the nearest dollar; do not include cents.

Expense Category	No. of Units	Unit Cost	OWEB Funds	Match Funds (In-Kind/Cash)	Description —what will be purchased and by whom/who will perform the work.
					whom payroll taxes are paid. List
position titles; include only cost					
Operations Manager	30	\$49	\$1470	\$0	
		\$0	\$0	\$0	
		BTOTAL (1)	\$1470	\$0	staff for project implementation
			\$0	\$4590	-staff for project implementation.
Irrigation Installation	270	\$17			
		\$0	\$0	\$0	
		\$0	\$0	\$0	
		BTOTAL (2)	\$0	\$4590	· · · · · · · · · · · · · · · · · · ·
MATERIALS AND SUPPLIES. Ref course of the project. Costs to (fers to iter OWEB mus	ns purchased at be directly	l by or invoiced related to the	d to the applicar implementation	nt organization, and are "used up" in the n of this grant.
1-1/4" PVC 90 – SS	19	.94	18		
1-1/4" PVC Tee – SSS	2	1.08	2	\$0	
2 x 1-1/4 PVC RB – SS	3	1.12	3	\$0	
2" PVC 90 – SS	1	1.59	2	\$0	
2" x 2" x 1-1/4" PVC Tee - SSS	8	1.98	16	\$0	
3 x 2 PVC RB – SS	3	2.28	7		
3" x 3" x 1-1/4" PVC Tee – SSS	6	7.26	44		
1-1/4" 1-1/4" x 1" PVC Tee — SSS	6	1.16	7		
1-1/4" x 1" PVC RB - SS	1	.67	1		
1-1/4" Spg x 1" Insert PVC Adapter	18	1.89	34		
1" Spg x 1" Insert PVC Adapter	7	180	13		
1" PVC 90 – SS	7	.55	4		
#316R 1" Oetiker Clamp Stainless	110	.28	31		
1" Blue-stripe hose 660' roll	18	88.33	1590		
1" PVC Insert Coupler	15	.72	11	-	
6" x 6" x 3" PVC Tee – SSS	3	35.64	107		
3" PVC Tee – SSS	3	6.83	20		
3 x 2 PVC RB – ST	3	2.28	7		
Nelson 2" Air/Vac	3	94.52	284		
3" PVC Flanges	6	16.20	97		
Bolts/Nuts by LB	20	4.05	81		And a state of the

3" Grayline LOBFV	3	97.79	293		
3" PVC 90 – SS	6	4.77	29	288	
6" PVC Pipe 160# Gasketed	960	3.86	3705		
3" PVC Pipe SCH 40	40	1.67	67		
3" 160# PVC Pipe SW	120	.92	110		
2" 160# PVC Pipe	140	.54	75		
1-1/4" 160# PVC Pipe	760	.27	205		
721 Glue GAL	1	81.39	81		
721 Glue QT	1	23.66	24		
711 Glue QT	4	24.82	99		
P70 Primer QT	2	22.06	44		
R10, acme, P2 9deg red plate #45 It purple 2TN	480	3.59	1723		
FT2 Feedtube Assy 30"	480	1.87	898		
6" PVC Tee – SSS	1	35.64	36		
.25" x 24" Steel Stake	480	1.11	533		
6" PVC 90 – SS	2	22.68	45		
6" PVC 90 Flange	2	32.25	64		
Sontag 6"x36" with 6" flanges	1	1580.00	1340	240.00	
Misc. Parts to complete System	1	250.00	250		
	SUI	BTOTAL (3)	\$12,000.00	\$240.00	
TRAVEL. Applicant staff mileage.	For rates	see: https://	www.oregon.gov	//oweb/manag	e-grant/Pages/payments-budget.aspx
		\$0	\$0	\$0	
		\$0	\$0	\$0	
	SU	BTOTAL (4)	\$0	\$0	
OTHER. Land use signature costs	, project p	permit costs	small equipmen	nt repair, com	mercial equipment rental.
		\$0	\$0	\$0	
		\$0	\$0	\$0	
	SUI	BTOTAL (5)	\$0	\$0	
MODIFIED TOTAL D	IRECT CO	······································	\$0	\$0	
INDIRECT COSTS. Not to exceed and Policies document for eligible	10% of M		l Direct Costs (M	TDC). See the	current Budget Categories Definitions
Indirect Costs	1100000000	to exceed 6 of MTDC	\$1330	\$0	
POST-GRANT					
Year-Two Status Report			\$200	\$0	(Not to exceed \$200)
Post-Project Plant Establishment			\$0	\$0	(Not to exceed \$1,000)
	PROJE	CT TOTALS	\$15000	\$4830	(Not to exceed \$15,000 in OWEB funds)

We, the undersigned, attest that to the best of our knowledge the information contained in this application is true, that the proposed project is not required by a state or federal agency directive, and that the project will be completed within 24 months from the date of the team funding recommendation of the application. We understand that the submitted application is a matter of public record.

Also, should funding for this project be awarded we understand:

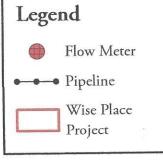
- 1) We may not incur any project expenses until all designated signatories have signed an OWEB grant agreement,
- 2) We will be required to provide proper accounting of project expenses, and
- 3) We will be required to provide necessary and normal maintenance to sustain the value of the project once it is completed.

By their signatures, the landowner(s) attest that they have no plans to sell their property as of the date of this application, are authorized to sign as landowner, and they agree to provide, upon prior request and at a mutually acceptable time, site access to the applicant or representatives of OWEB for a period up to two years following project completion to allow project work to be implemented, monitored, and maintained.

Applicant Mendy Xaris	Date	12/20/2019
Landowner	Date	12/20/19
Fiscal Agent Ohio Sheets	Date	12/20/2019
Attachment Checklist		
Cooperative agreement, if 2 or more landowners (Optional) May be signatures on Application ALL Landowners must sign the Grant Agreem		d in lieu of ALL Landowner
Racial and Ethnic Impact Statement (Required)		
Restoration Metrics form (Required)		
Other materials (as required by team)		
Optional Forms at time Application		
(Required at the time of Request for Release of Funds, see instructions)	
☐ Irrigation Efficiency		
Culvert/Stream Crossing		
Secured Match		
Land Use		



Wise Place Irrigation Efficiency Projects





0 0.015 0.03 0.06 0.09 Miles





Figure 1 - Looking southwest at the northern portion of the property that has been cleared in preparation of installing new efficient sprinkler system and trees.



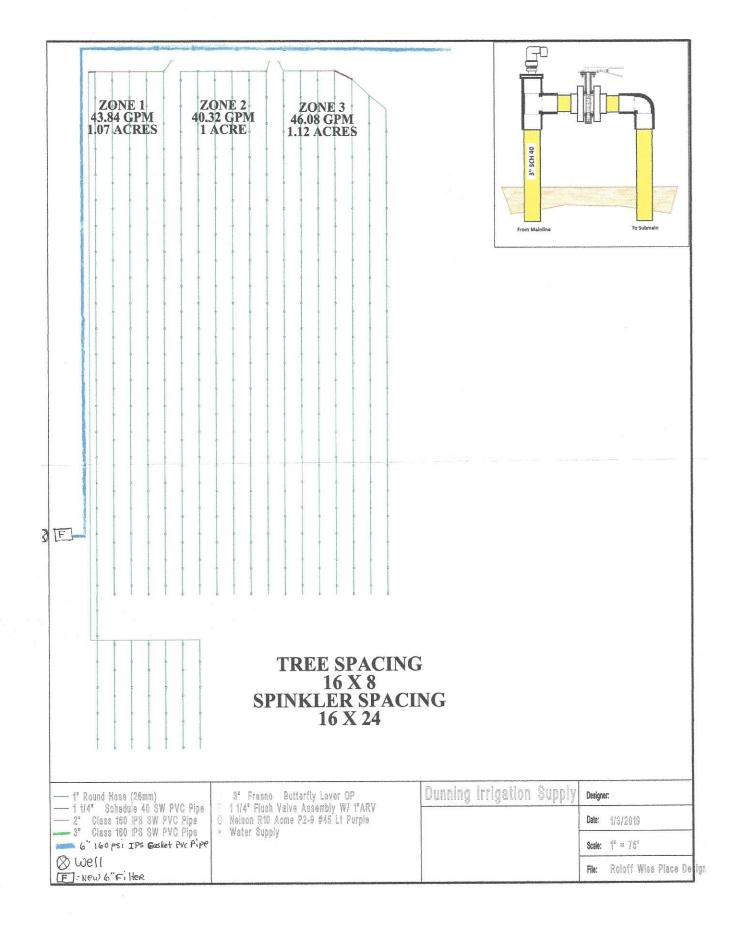
Figure 2 - Looking northeast at the northern portion of the property.



Figure 3 - Looking northeast at the southern portion of the property that has been cleared in preparation of installing new efficient sprinkler system and trees.



Figure 4 – Looking southwest at the well that will be tied into for the sprinkler system's water supply. The irrigation system will be connected to the well on the northeast side of the ditch, away from the well.





Racial and Ethnic Impact Statement

This form is used for information purposes only and must be included with the grant application.

Chapter 600 of the 2013 Oregon Laws require applicants to include with each grant application a racial and ethnic impact statement. The statement provides information as to the disproportionate or unique impact the proposed policies or programs may have on minority persons¹ in the State of Oregon if the grant is awarded to a corporation or other legal entity other than natural persons.

CIVV	arded to a corporation of other legal entity other than natural persons.
1.	The proposed grant project policies or programs could have a disproportionate or unique positive impact on the following minority persons:
	Indicate all that apply: Women Persons with Disabilities African-Americans Hispanics Asians or Pacific Islanders American Indians Alaskan Natives
2.	The proposed grant project policies or programs could have a disproportionate or unique negative impact on the following minority persons:
	Indicate all that apply: Women Persons with Disabilities African-Americans Hispanics Asians or Pacific Islanders American Indians Alaskan Natives
3.	The proposed grant project policies or programs will have no disproportionate or unique impact on minority persons.
oro HE atta	ou checked numbers 1 or 2 above, on a separate sheet of paper, provide the rationale for the existence of icies or programs having a disproportionate or unique impact on minority persons in this state. Further evide evidence of consultation with representative(s) of the affected minority persons. EREBY CERTIFY on this 17day of December, 2019, the information contained on this form and any achment is complete and accurate to the best of my knowledge. Signature Printed Name:Wendy Harris Title:Operations Manager

¹ "Minority persons" are defined in SB 463 (2013 Regular Session) as women, persons with disabilities (as defined in ORS 174.107), African-Americans, Hispanics, Asians or Pacific Islanders, American Indians and Alaskan Natives.



Restoration Metrics Form

OWEB receives a portion of its funds from the federal government and is required to report how its grantees have used both federal and state funds. The information you provide in the following form will be used for federal and state reporting purposes.

Please complete all portions of the form below as they apply to your project and submit all pages (do not exclude any pages). Please provide specific values, do not enter values like "2-3" or "<100". Enter your best approximation of what the project will accomplish.

If you have any questions, please contact Ginger Lofftus, OWEB PCSRF Reporting Assistant, at 503-986-5372 (ginger.lofftus@state.or.us)

Section 1. Project Overview

Answer all five questions below, even if you have answered a similar question in a previous section in the grant

ар	plication.
1.	Land Use Setting: CHECK ONE BOX ONLY. Urban/Suburban/Exurban (Projects located within urban growth boundaries or rural residential areas) Rural (Projects located outside urban growth boundaries or rural residential areas.)
2.	Dominant Watershed Setting: CHECK ONE BOX ONLY. Example: Your project involves managing erosion in the upland area with some erosion control extended to the riparian area. Because most of the work is to occur in the upland area, you would check only the Upland box below.
	 ■ Estuary (where freshwater meets and mixes with saltwater of ocean tides.) ■ Riparian (adjacent to a water body, within the active floodplain.) ■ Instream (below the ordinary high-water mark or within the active channel — includes fish passage.) ■ Upland (above the floodplain.) ■ Groundwater (Projects that recharge groundwater or primarily affect the subsurface water table.) ■ Wetland (areas inundated or saturated by surface or groundwater at a frequency and duration sufficient to support a prevalence of vegetation typically adapted for life in saturated soil conditions.
3.	Total Acres Treated: 5 Total Stream Miles Treated: 19 (do not include upstream stream miles made accessible to fish with passage improvements)
4	Project Monitoring: All OWEB funded restoration projects require post-implementation status reporting including photo point monitoring. Please indicate below: 1) the location of the monitoring activities relative to the project, including photo point locations, 2) whether effectiveness monitoring is planned, and 3) whether additional monitoring will be conducted for this project.
	 4.1) Identify the location for the planned monitoring activities relative to the restoration project location. Check as many boxes as apply. ☑ Onsite ☑ Downstream ☑ Upslope
	4.2) Effectiveness monitoring will be conducted for this project. Please note that effectiveness monitoring cannot be funded with OWFB Small Grant Funds.

	Will this project conduct monitoring activities beyone eporting and photo point monitoring?	nd the required post-implementation status
	Yes No If you answer yes, select the monit ection 2.	oring activities below, if you answer no proceed to
A S J	all proposed monitoring activities Adult Fish: presence/absence/abundance/ distribution survey(s) Spawning surveys uvenile Fish: presence/absence/abundance/ distribution survey(s) Upland vegetation (Presence/Absence) instream Habitat surveys	Water quality Macroinvertebrates Water quantity Noxious weed (Presence/Absence) Photo Points Riparian vegetation (Presence/Absence) Other (explain):
Provide valine that is the project Restoration total cost of the activity	2. Project Activities alues for each Project Activity applicable to your application. All data entered and about completed projects will be reported as on Inventory (OWRI). For each activity type where you of the project (OWEB and all other funding sources, you have some of all of the activity cost percentages show an agement and other general project costs among these.	ed in this form should be what you plan to do with the end of the project to the Oregon Watershed u enter metrics, estimate the percentage of the shown in III. 9. of this application) that applies to uld equal 100%. Please distribute all administrative,
You would sections or	A project will remove a fish passage barrier, place land enter the appropriate metrics into the Fish Passage of this form. Then, estimate the percentage of the tot rds Fish Passage activities, 25% towards Instream Ha	, Instream Habitat, and Riparian Habitat activity; al cost of the project for each activity. For instance:
Fish Scree prevent fit channels.	eening Projects: Projects that result in the instal sh from passing into areas that do not support fish	lation or improvement of screening systems that survival, for example, into irrigation diversion
	Estimate the percentage of total cost of the project	
New Fish	Screens Installed Estimate the number of new screens installed (do n replaced)	ot count diversions where existing screens are
cfs	Estimate the cubic feet per second of flow influen	ced by new screen(s) installed (to nearest 0.01 cfs)
Existing So	creens Replaced, repaired or modified	
#	Estimate the number of existing screens replaced	, repaired or modified
cfs	Estimate the cubic feet per second of flow influence	ed by existing screen(s) screens (to nearest 0.01 cfs)

Fish Passage Improvement: Projects that improve fish migration by addressing a migration barrier problem. Complete sections A-E as they apply to the proposed project. For projects that improve fish passage at road crossings complete both sections A (define the problem) and B (define the treatment). Non-road crossing improvements are reported in sections C and D. Section E should be completed for all fish passage improvement projects. Refer to the application instructions for additional information and examples.

A	. Road Crossings – Define <i>Existing</i> Fish Passage Problem
	1. Culverts hindering fish passage # crossings
	2. Bridges hindering fish passage# crossings
	3. Fords hindering fish passage # crossings
В	Road Crossings – Define the Fish Passage <i>Improvements</i> to be implemented by this project
	1. Culverts installed/improved - <i>Improvements include</i> installing baffles inside culverts or installing/improving engineered bypasses (e.g. weirs) directly below a culvert outlet to improve passage.
	# crossings str. mi with improved access*
	2. Bridges installed/improved -Improvements include installing/improving engineered bypasses (e.g. weirs) directly below a bridge crossing to improve passage.
	# crossings str. mi with improved access*
	3. Fords installed/improved
	# crossings str. mi with improved access*
	4. Road Crossings removed and not replaced
	# crossings str. mi with improved access*
	* Estimate stream miles in the main channel and tributaries made more accessible above the crossing(s) (to nearest 0.01 mile). If a barrier exists upstream, report the length made accessible up to that next upstream barrier.
C.	Fish Passage Barriers – Other than Road Crossings
	1. Type(s) of barriers to be treated/removed to improve fish passage.
	Diversion Dam Logs
	Push-up Dam Debris
	☐ Wood or Concrete Dam ☐ Boulder/Rock Barrier (not weirs)
	Weir (not associated with a road crossing) Landslide
	Other (explain)
	2 # Estimate the total number of non-road crossing barriers (listed above) to be removed or altered to improve passage.

D	. Fish Ladde	rs or Engineered Bypasses (not associated with Road Crossings)
	1. Fish ladde	ers will be installed/improved
	# fish	ladders to be installed/improved
	constructed improve pas	ed bypasses will be installed/improved. This includes weirs, rock boulder step pools, and chutes roughened in bed rock. Do not count engineered bypasses located at a road crossing to sage at the crossing. These types of improvements should be identified above in section B as a ng Fish Passage Improvement.
	# eng	ineered bypasses to be installed/improved
E.	Fish Passag	ge Summary Metrics
	1%	Estimate the percentage of total cost of the project applied to fish passage improvements
	2 mi	Estimate the total stream miles that will be made more accessible in the main channel and tributaries above the project (to nearest 0.01 mile). This metric summarizes the stream miles for all of the proposed passage improvements (defined above in Sections A-D). If a barrier exists upstream of the project, report the length made accessible up to that next upstream barrier.
	3#	Estimate the total number of barriers (this includes road crossings, diversion dams, push up dams, wood or concrete dams, weirs, etc.) to be removed or altered to improve passage.
im	provements t	Projects that maintain and/or increase the instream flow of water. Irrigation that are primarily designed to improve water quality should be reported under Upland — nagement. Check all proposed activities.
	5000 BG8	practice improved to increase instream flows (e.g. install diversion headgate, replace open with pipes)
	Water flo	ow gauges installed to measure water use
	This proj	ect will dedicate instream flow.
	Other (ex	xplain):
	100 % Esti	mate the percentage of total cost of the project applied to instream flow activities
		ate the miles of stream where increased flow is the result of decreased/eliminated water vithdrawals
	15-23 COC (ASSESSED)	timate the increase in flow of water in the stream as a result of conservation effort (cubic feet per second)
	01/01/2020	mm/dd/yyyy Initial start date of irrigation practice improvement
	12/31/9999	mm/dd/yyyy Final end date of irrigation practice improvement (if improvement is permanent enter 12/31/9999)
		d/yyyy Water lease/agreement initial start date of no withdrawal d/yyyy Water lease/agreement final end date of no withdrawal (if lease/agreement is permanent, enter 12/31/9999)

activities. Projects that are designed to improve instream habitat conditions. Check all proposed
Channel reconfiguration and connectivity (e.g., creating instream pools, meanders, improving floodplain connectivity, off-channel habitat, removal or alteration of levee or berm, removal of sediment)
Spawning gravel placement
Channel structure - large wood placement
Plant Removal/control (instream) List scientific names of plants
Channel structure - boulder placement
Carcass or nutrient placement: salmonid carcass; fish meal brick; other nutrient
Channel structure placement (other than large wood or boulder placements), e.g., engineered structures or deflectors, barbs, weirs, etc.
Other (explain):
Streambank stabilization through resloping and/or placing rocks, logs (e.g. revetments, gabions, barbs), or bioengineering on streambank
% Estimate the percentage of total cost of the project applied to instream habitat activities
mi. Estimate the miles of stream to be treated with instream habitat treatments (to nearest 0.01 mile)
Estimate the percentage of insteam activity costs for carcass or nutrient placements. If you do not select carcass/nutrient placements as an instream activity, leave this value blank. Example: Your project will place salmon carcasses. You estimated that 25% of the total project cost will apply to instream habitat activities and one half of the instream improvements costs will apply to the carcass placement, you would report 50%.
Riparian Habitat: Projects above the ordinary high-water mark of the stream and within the floodplain of the stream. Check all proposed activities.
Riparian planting
Non-native/noxious plant control
Riparian exclusion fencing Vegetation management (e.g. prescribed burnings, stand thinning, stand conversions, silviculture)
Livestock exclusion by means other than fencing (includes placing obstacles to exclude livestock, people, vehicles, etc., but not for individual plant protection)
Debris/structure removal (OWEB funds cannot be used for general trash removal)
Water gap development (fenced livestock crossing or livestock bridge)
Other (explain): DO NOT report livestock water developments here, report livestock water developments under upland habitat treatments.
% Estimate the percentage of total cost of the project applied to riparian habitat activities
ac. Estimate the acres of riparian habitat to be planted (to nearest 0.1 acres)
ac. Estimate the acres of riparian habitat to be treated for non-native/noxious weeds (to nearest 0.1 acres)
ac. Estimate the total riparian acres to be treated. (to nearest 0.1 acres)
mi. Estimate the miles of riparian streambank to be treated (to nearest 0.01 mi).
Stream sides treated 1 2 (Do not double count miles if a second side is treated)

U	piar	io ma	ibitat: Projects implemented above the floodplain. Check all proposed activities.
		nativ	ing/seeding for erosion control (e.g., convert from crops to native vegetation, plant area where non- re/noxious weeds removed, grassed waterways, windbreaks, filter strips) scientific names of plants
			tock Manure Management (e.g., feedlot improvements to reduce runoff, relocate/improve manure ing structures and manure piles to reduce/eliminate drainage into streams)
		Slope	stabilization (e.g., grade stabilization, landslide reparation, terracing slopes)
		Uplar	nd Livestock Management (other than livestock water developments), e.g., grazing plans, fencing
			native/noxious plant control scientific names of plants:
		Resto	ore Historic Upland Habitats (e.g. oak woodland, oak savannah, upland prairie restoration)
		Junip	er removal/control
		Livest	tock/Wildlife Water Developments
		thinn	tation Management (other than non-native/noxious plant control or juniper removal, e.g. tree ning, brush control, burning) cientific names of plants:
			on control structures not already reported under Upland Agriculture Management or Road Drainage em and Surface Improvements.
		wate	nd Agriculture Management (e.g., no/low-till, wind breaks, filter strips, crop rotation, terracing, er and sediment control basins, grade stabilization and irrigation improvements) r (explain):
		%	Estimate the percentage of total cost of the project will apply to upland habitat activities
		#	Estimate the number of livestock/wildlife water developments
	***************************************	ac.	Estimate the acres of upland habitat to be treated for non-native/noxious plants (to nearest 0.1 acres)
	-	ac.	Estimate the total acres of upland habitat to be treated (do not include acres of upland habitat affected by livestock water developments (to nearest 0.1 acres)
		%	Estimate the percentage of upland activity costs applied to Livestock Manure Management. If you do not select Livestock Manure Management as an upland activity, leave this value blank. Example: Project will relocate a feedlot to reduce livestock manure runoff. You estimated that 33% of the total project cost will apply to upland habitat activities and one half of the upland improvements costs will apply to the feedlot relocation, you would report 50%.
R	oad	Activ	vities: Projects designed to improve road impacts to watersheds. Check all proposed activities.
		Road	drainage system and surface improvements & reconstruction
Other (explain):			r (explain):
		Road	closure, relocation, obliteration (decommissioning)
	-	%	Estimate the percentage of total cost of the project applied to road activities
		mi	. Estimate the miles of road treated (to nearest 0.01 mile)

Urban Impa	act Reduction: Check all of the urban impact related activities that will be used by this project.
Bioswa	
Limited	de reduction: list names of each pesticide:
-	cion Facility
	water/wastewater modification or treatment (includes rain gardens) urban impact reduction (explain):
Check all of th	he water quality limiting factors addressed by the Urban Impact Reduction activities selected of select limiting factors addressed by other types of restoration activities.
Bacteri Pesticio Nutrier	Dissolved Oxygen Heavy Metals des Dissolved Oxygen Heavy Metals High Temperature
% Es	timate the percentage of total cost of the project applied to urban impact activities
Wetland Ha	bitat: Projects designed to create or improve wetland areas. Check all proposed activities.
Wetlan Artificia	Indication of planting and planting and planting and planting wetland area created from a not formerly a wetland wetland wetland (other than vegetation planting or removal) Other (explain):
%	Estimate the percentage of total cost of the project applied to wetland habitat activities
ac.	Estimate the acres of wetland habitat to be treated for non-native/noxious/invasive plants (to earest 0.1 acres)
ac.	Estimate the acres of artificial wetland created (to nearest 0.1 acres)
	Estimate the total acres of wetland habitat (existing or historic) treated (to nearest 0.1 acres)
Estuarine Ha Check all prop	abitat: Projects that result in improvement or increase in the availability of estuarine habitat.
	channel modification/creation (e.g., improve intertidal flow to existing estuarine habitat)
Dike or Estuarir	berm modification/removal Creation of new estuarine habitat where one did not exist previously by methods other than tidegates or dikes
Remova	cation/removal Placement of fill material (for proper terrestrial function) Other (explain): on devices
— % E	Estimate the percentage of total cost of the project applied to estuarine habitat activities
ac. E	Estimate the acres of estuarine habitat to be treated for non-native/noxious plants (to nearest 0.1 acres)
	Estimate the total acres of estuarine habitat (existing or historic) to be treated (to nearest 0.1 acres)

Section 3.

Salmon/Steelhead Populations Targeted and Expected Ber The information provided will be used by OWEB better to Completion of this section is required but will not be used	meet federal and state reporting requirements.		
athic majora a mase a made allo designada e basação est a migras circolacións lima, de GP hiere.	11.5		
Targeted Salmon/Steelhead Populations: Select one or more of the salmon ESUs (Evolutionary Significant Unit) or steelhead DPSs (Distinct Population Segment) that the project will address/benefit. For species where the ESU/DPS name is not known or determined, use the species name with unidentified ESU (e.g., Chinook salmon – unidentified ESU). Additional information on the designation and location of the salmon/steelhead populations can be found at: https://www.westcoast.fisheries.noaa.gov/maps_data/species_population_boundaries.html			
Chinook Salmon (Oncorhynchus tshawytscha) Deschutes River summer/fall-run ESU Lower Columbia River ESU Mid-Columbia River spring-run ESU Oregon Coast ESU Snake River Fall-run ESU Southern Oregon and Northern California Coastal ESU Upper Klamath-Trinity Rivers ESU Upper Willamette River ESU	Coho Salmon (O. kisutch) Lower Columbia River ESU Oregon Coast ESU Southern Oregon/Northern California ESU unidentified ESU Steelhead (O. mykiss) Klamath Mountains Province DPS Snake River Spring/Summer-run ESU Lower Columbia River DPS Middle Columbia River DPS		
Chum Salmon (O. keta) Columbia River ESU Pacific Coast ESU unidentified ESU Expected Benefits: Write a brief description of the goal expected to benefit salmon/steelhead or salmon/steelh helpful examples.			

This project will convert 5.02 acres of orchard from flood irrigation to sprinkler irrigation to improve irrigation efficieny. This irrigation improvement project will reduce the water diverted from the Walla Walla River for irrigation use. The improvement in irrigation efficiency during low flows will allow for more water to stay in the Walla Walla River for fish/environmental needs. Low flows in the Walla Walla River negatively affect bull trout, summer stellhead, and reintroduced spring Chinook.