

EAST FORK IRRIGATION DISTRICT - HIGHLINE LATERAL PIPELINE PROJECT



Cindy Thieman <cindy@hoodriverswcd.org>

9:09 AM (3 hours ago)

to karen.m.quigley

Dear Karen

I am helping to develop four water conservation and development proposals for the Hood River Watershed. These proposals will be submitted to Oregon Water Resources Department for their Water Supply Development grant offering. These projects will positively affect instream water levels and water availability for irrigation in the Hood River Watershed. One of our regular watershed partners is the Confederated Tribes of the Warm Springs. They are aware of all of these proposals. Could you tell me if there are any other tribes that may be affected or should be contacted about our proposals? Thank you!

Sincerely,

Cindy Thieman, Coordinator
Hood River Watershed Group
3007 Experiment Station Rd.
Hood River, OR 97031

Phone: [541-386-6063](tel:541-386-6063)

Email: cindy@hoodriverswcd.org



Quigley Karen M 11:45 AM (32 minutes ago)

to Cindy

Hello Cindy,

I suggest you also notify the following OR Tribes in addition to Warm Springs: Siletz and Grand Ronde. If any potential impact or proximity to Columbia River, you might consider touching base with Umatilla and the other two Columbia River treaty Tribes (for potential impact on treaty fishery resources)... Yakama and Nez Perce (ID)

Thanks,
Karen

Sent from my Verizon Wireless 4G LTE DROID

PROJECT TITLE: HIGHLINE LATERAL PIPELINE									
SITE: EAST FORK IRRIGATION DISTRICT			EST. BY: MBW	CHECKED BY: MBW		Printed: 1/15/2016			
SPONSOR: East Fork Irrigation District			DESIGN STATUS: CONCEPTUAL						Revised:
DESCRIPTION: Highline Lateral Pipeline	Quantity		Material Cost		Labor Cost		Engineering Estimate		
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
MOBILIZATION/STAGING/ROUTE PREPARATION									
General Mobilization	1	LS					20,000.00	\$24,000	
Erosion Control Measures	13000	LF					0.50	\$7,800	
Logging/Brush Clearing	13000	LF					0.50	\$7,800	
Demolition Existing Structures	12	EA					500.00	\$7,200	
Allowance for Access & Route Prep	1300	EA					10.00	\$15,600	
EARTHWORK/RESTORATION									
Excavation	12000	LF					6.00	\$86,400	
Trench Backfill	12000	LF					10.00	\$144,000	
Crushed Rock Surfacing	100	SY					10.00	\$1,200	
Restoration - Hydroseeding	1	ACRE					2,500.00	\$3,000	
Pavement Restoration @ Shute Road Crossing	1	LS					5,000.00	\$6,000	
PIPING SYSTEMS									
15" PIP PVC Pipeline, 125 PSI	6000	LF					25.00	\$180,000	
12" PIP PVC Pipeline, 125 PSI	6000	LF					20.00	\$144,000	
VALVES & LATERALS									
Major EFID Diversions - Valves & Fittings	3	EA					750.00	\$2,700	
Major EFID Diversions - Precast Water Boxes	3	EA					1,500.00	\$5,400	
Landowner Diversions - Valves & Fittings	12	EA					350.00	\$5,040	
Landowner Diversions - Precast Water Boxes	12	EA					500.00	\$7,200	
Allowance for Piping Connections & Fittings	25	EA					250.00	\$7,500	
SUBTOTAL									\$654,840
SURVEY & DESIGN									
TOPOGRAPHIC SURVEY								\$25,000	
DESIGN								\$65,484	
CULTURAL RESOURCE SURVEY								\$20,000	
SUBTOTAL									\$110,484
MONITORING									
DOPPLER FLOW METER SONTEK IQ	1	EA					10,975.00	\$10,975	
TOTAL									\$776,299

THIS OPINION OF PROBABLE CONSTRUCTION COST HAS BEEN PREPARED USING STANDARD ENGINEERING ESTIMATE PROCEDURES. KPFF HAS NO CONTROL OVER ACTUAL CONTRACTOR COSTS, BIDDING, OR MARKET CONDITIONS. WE RECOMMEND THAT THESE COSTS BE VERIFIED WITH CONTRACTOR BIDS PRIOR TO MAKING ANY FINANCIAL COMMITMENTS.



THE CONFEDERATED TRIBES OF THE WARM SPRINGS RESERVATION OF OREGON

DEPARTMENT OF NATURAL RESOURCES
Hood River Production Program
6030 Dee Hwy. Parkdale, Oregon
Phone (541) 352-3548
Fax (541) 352-9365

January 11, 2016

Oregon Water Resources Department
Attn. Jon Unger
725 Summer St. NE, Suite A
Salem, OR 97301

RE: LETTER OF SUPPORT FOR EFID HIGHLINE PIPELINE PROJECT

Dear OWRD,

The Confederated Tribes of Warm Springs Hood River Production Program (CTWS) strongly supports and encourages the OWRD to approve the EFID Highline Pipeline Project grant application for funding.

The East Fork Irrigation District (EFID) exercises 130.6 cfs in water rights at their primary diversion on the East Fork Hood River. The stream reach immediately below the EFID diversion can be severely impacted by irrigation withdrawals during the low flow period, a time when adult spring Chinook are completing their spawning migration. The EFID has upheld an agreement with the CTWS to maintain a minimum of 15 cfs within this reach to ensure adequate water for fish migration, a situation that can be problematic during drought years such as the one experienced in 2015. Needless to say, restoration of streamflow within this reach is among the highest priority habitat restoration actions in the basin. To this end, the CTWS plans to provide up to \$175,000 towards project completion.

The accompanying grant application documents well the collaboration between the EFID and CTWS to restore stream flows and fish habitat within the East Fork. In addition to the EFID, the Tribes have worked cooperatively with local stakeholders in the Hood River basin for the last 20 years to restore streams and fisheries. This project is another example of positive results from basin collaboration. We strongly support such efforts.

Sincerely,

CHRIS BRUN
Hood River Production Program



Oregon

Kate Brown, Governor

Department of Fish and Wildlife

The Dalles District Office

3701 West 13th Street

The Dalles OR 97058

541-296-4628

(fax) 541-298-4993



January 14, 2016

Jon Unger
Oregon Water Resources Department
Water Resources Grant Administrator
725 Summer St. NE, Suite A
Salem, OR 97301

Re: Support for East Fork Irrigation District Highline Pipeline Project

Dear Mr. Unger:

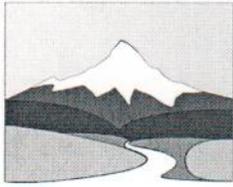
The purpose of this letter is to provide the Oregon Department of Fish and Wildlife's (ODFW) support for the East Fork Irrigation District's (EFID) Highline Pipeline Project. This project proposes piping an open ditch for over 12,000 feet. The project would improve irrigation efficiency, but also has the potential to increase stream flow in the East Fork Hood River by the elimination of water loss through seepage, evaporation, and end spill.

The East Fork of the Hood River provides critical habitat for steelhead, Chinook salmon, and coho salmon, which are listed as a threatened species under the Endangered Species Act. The East Fork Hood River also provides habitat for other gamefish such as cutthroat trout. Diminished streamflow has been identified as a key limiting factor in the recovery of ESA fish throughout the Hood River Basin. Through the implementation of this proposed project, the EFID has estimated approximately 1 (cfs) would be saved instream, and least 0.5 (cfs) will be protected instream at the point of diversion.

Implementation of this project has potential to provide substantial benefits to fisheries resources in the East Fork Hood River. The EFID has a proven track record of implementing projects that have natural resources benefits in the Hood Basin. The ODFW supports this proposal, and urges the Oregon Water Resources to consider this project for grant funding. If have you have further questions concerning ODFW's support for this project feel free to contact me at (541) 296-4628.

Sincerely,

Rod A. French
Mid-Columbia District Fish Biologist



Hood River Watershed Group

3007 Experiment Station Dr., Hood River, OR 97031 • www.hoodriverswcd.org

January 18, 2016

Oregon Water Resources Department
Attention: Jonathan Unger
725 Summer St. NE, Suite A
Salem, OR 97301

Re. **Water Supply Development Account Grant Applications**- Coe Branch Pipeline & On-farm Irrigation Efficiency Project, Dee Irrigation Water Conservation & Delivery Project, Highline Lateral Pipeline Project, and Farmers Irrigation District Reservoir Expansion and Pipeline Project

Dear Mr. Unger:

The Hood River Watershed Group (HRWG) strongly supports the grant proposals being submitted for water conservation and development by the Middle Fork Irrigation District (MFID), Dee Irrigation District, East Fork Irrigation District (EFID), and Farmers Irrigation District (FID). The HRWG's purpose is to sustain and improve the Hood River Watershed through education, cooperation and stewardship. All of these projects will ultimately lead to increased water conservation instream to support threatened native fish populations, while providing greater water resource reliability for the Basin's agricultural producers, tribal fisherman, and recreationalists.

These projects are the result of several years of basin-wide planning that culminated in several documents, including the MFID Fish Management Plan (2010), Hood River Basin Study (2015), EFID System Improvement Plan (2015), FID Storage Expansion Study (2015), and the Hood River Water Conservation Strategy (2016, pending). The two most important project types identified in the Water Conservation Strategy were conveyance system improvements and on-farm irrigation efficiency projects, both for their significant overall impact and cost effectiveness. Storage expansion projects also provide an excellent opportunity to increase irrigation water reliability. Collectively, all remaining conveyance system improvements, on-farm irrigation upgrades, and expansion of existing storage have the potential to increase streamflows by an estimated 57 cfs. Our objective is to increase instream flow by *at least 57 cfs* at the mouth of the Hood River within the next 20 years. To attain this, watershed partners need to implement large-scale projects every year. The suite of projects being proposed in the Hood River Basin represent our first collective effort to pursue this critical objective.

Fish populations, the local economy, and social equity are inextricably linked in the Hood River Basin. From an ecological standpoint, if instream flows are insufficient, Hood River salmon and steelhead will not recover to self-sustaining levels. From an economic standpoint, a certain amount of water is required to sustain existing agricultural production. Furthermore, from a cultural and societal perspective, healthy fish runs benefit local tribes, tourism, and recreation, as well as heading off costly conflicts over water allocations. We strongly urge you to fund all of these broadly supported, highly effective projects that will keep fish and people on a positive, synergistic trajectory.

Sincerely,

Cindy Thieman
Hood River Watershed Group Coordinator

HOOD RIVER COUNTY BOARD OF COMMISSIONERS



DAVID MERIWETHER, COUNTY ADMINISTRATOR

601 State Street • Hood River, OR 97031 • (541) 386-3970 • FAX (541) 386-9392

BOARD OF COMMISSIONERS

RON RIVERS - CHAIR
KAREN JOPLIN - DISTRICT NO. 1
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BOB BENTON - DISTRICT NO. 3
LES PERKINS - DISTRICT NO. 4

January 15, 2016

Oregon Water Resources Department
Attention: Jonathan Unger
725 Summer St. NE, Suite A
Salem, OR 97301

Re. **Water Supply Development Account Grant Applications**- Coe Branch Pipeline & On-farm Irrigation Upgrade Project, Dee Irrigation Water Conservation & Delivery Project, Highline Canal Pipeline Project, and Kingsley Reservoir Expansion and Green Point Pipeline Project

Dear Mr. Unger:

The Hood River Board of County Commissioners strongly supports the grant proposals being submitted for water conservation and development by the Middle Fork Irrigation District (MFID), Dee Irrigation District (DID), East Fork Irrigation District (EFID), and Farmers Irrigation District (FID). These projects are the result of several years of basin-wide assessment and planning that culminated in several documents, including the MFID Fish Management Plan (2010), Hood River Basin Study (2015), and the Hood River Water Conservation Strategy (2015). All of these proposals will ultimately lead to increased water conservation instream and greater water resource reliability for the Basin's agricultural producers. With one-third of County incomes and over \$100 million in annual gross sales coming from agriculture, it is critical that we find long-term solutions to provide reliable water into the future. The Board also recognizes the importance of improving instream flows to support threatened native fish populations, tribal fishing rights, and recreation.

The Coe Branch Pipeline and On-farm Irrigation Project will direct water diverted at Coe Branch to MFID's existing settling pond before being delivered to patrons. MFID's settling pond removes a significant amount of sediment, which will encourage and enable more of its patrons to use high efficiency irrigation equipment. The pipeline project will be complemented by 200 acres of on-farm irrigation upgrades in the MFID, which will save an estimated 1 cfs.

The Dee Irrigation Water Conservation and Delivery Project and the Highline Canal Pipeline Project (EFID) will replace open canals and old, unpressurized pipes with pressurized delivery pipelines. Collectively, this will eliminate canal seepage loss and eight end spills, and save almost 3 cfs. Eight DID patrons will upgrade their on-farm irrigation equipment, which will conserve an additional 0.7 cfs.

The Kingsley Reservoir Expansion and Green Point Pipeline projects will increase water storage and conservation in the Farmers Irrigation District. The expansion of Kingsley Reservoir by 500 acre-feet will allow FID to store enough water to reliably meet the needs of their growers as well as the operational

A Small County with a big mission:
Providing Quality of Life for all.

flexibility to leave more water in-stream during critical times of the year. The project will also allow FID to make sorely needed dam safety improvements for greater resiliency and reliability. The reservoir expansion will require extensive coordination with Hood River County in order to acquire the land necessary for the expansion. FID is currently working with Hood River County Forestry, Planning, and Parks Departments to determine the best path forward. The Green Point Pipeline Project will replace approximately 11,500 feet of aging and damaged steel pipeline that is currently leaking in multiple locations. This project will conserve roughly 2.5 to 3 cfs which will allow FID to reduce their diversion rate from North Green Point Creek while improving water resource reliability for the growers within FID.

The Hood River Basin has a very long history of collaboratively working to address potentially conflicting water use demands for fish, farms, and people. Water plays a central role in the cultural, economic, and social history and values of Hood River County. Finding ways to allow for equitable use of our valuable water resources is essential to the continued success of the communities within Hood River County. The proposed projects are critical for continuing to support environmental, agricultural, and community investments already made, and will perpetuate and enhance our collaborative, progressive, basin-wide approach to solving water resource issues and concerns.

Sincerely,
Hood River County
Board of Commissioners

A handwritten signature in blue ink that reads "Ron Rivers". The signature is fluid and cursive, with the first name "Ron" and last name "Rivers" clearly distinguishable.

Ron Rivers, Chair