

## Narrows II Powerhouse Intake Extension YCWA-10

### I. Project Sponsor Contact Information

Lead Agency/Organization	Yuba County Water Agency
Name of Primary Contact(s)	Curt Aikens
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### II. General Project Information

Project Title	Narrows II Powerhouse Intake Extension
Project Total Budget	TBD
Project Funding Match	TBD
Project Funding Request	\$5,000,000
Can a detailed cost estimate be provided upon request?	No
Project Location:	Located at the base of Englebright Dam
Latitude	39°14'07"
Longitude	121°16'23"
Could you provide a map of the project location including boundaries upon request?	Yes
County	Yuba
Watershed/subwatershed	Yuba/Lower Yuba
Groundwater Basin	Yuba Groundwater Basin
Project Type	Facility Construction Restoration

### III. Project Description

This project would reduce water temperatures downstream of Englebright Dam during certain times of the year to benefit the steelhead and fall-run Chinook salmon fisheries of the lower Yuba River. This would be accomplished by lowering the Narrows II Powerhouse intake in Englebright Reservoir to draw water from the cold water pool, thereby releasing cooler water downstream.

### IV. Project Rationale/Issues Statement

This project addresses the following identified regional issues:

**Fisheries:** Recover endangered and threatened fish species, particularly anadromous fish, and restore access to historic habitat wherever feasible;

**Environmental Flows:** At minimum, maintain quantity, timing, and quality of stream-flows required to restore and protect freshwater ecosystems;

**Regulatory Compliance:** Mitigate for the impacts of regulatory compliance on water management decision-making and processes, including increased costs and decreased opportunities for collaboration;

**Climate Change:** Respond to projected climate change impacts on watershed health and develop regional and inter-regional adaptive management strategies.

Additionally, this project addresses one of the region’s identified conflicts—how and where fisheries should be recovered.

**V. Goals/Objectives/Performance Metrics**

<p><b>Goals Addressed by the Project</b></p>	<p><b>Goal 2:</b> Protect, restore and enhance water quality in support of healthy watersheds by improving water temperature management suitable for lower Yuba River fisheries;</p> <p><b>Goal 3:</b> Preserve and restore watershed health and promote environmental stewardship by providing access of fisheries to cold water pools;</p> <p><b>Goal 6:</b> Address climate vulnerabilities by modifying a hydropower facility to support a fisheries migration corridor.</p>
<p><b>Objectives Addressed by Project</b></p>	<p>2.5 Maintain and improve water quality required to restore and protect freshwater ecosystems, fisheries and groundwater-dependent habitat;</p> <p>2.6 Support regulatory compliance with current and future state and federal water quality standards;</p> <p>3.3 Recover endangered and threatened fish species through habitat restoration and by providing access to historic habitat, wherever feasible;</p> <p>3.7 Steward the region’s ecological resources that directly provide opportunities for public access, recreation and education while maintaining the co-equal objectives of flood protection and preservation of agricultural lands;</p> <p>6.3 Increase system flexibility and resiliency to adapt to climate variability.</p>

<p>What performance metrics will be used to demonstrate that objectives are being met? Wherever possible, provide a quantitative measurement reflecting successful project outcomes.</p>	
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**VI. Resource Management Strategies**

<b>Improve Operational Efficiency and Transfers</b>	
System Reoperation	Re-operating a hydropower facility to manage for fisheries
<b>Improve Water Quality</b>	
Matching Water Quality to Use	The intake extension would allow for colder water to be returned to the river to ensure water quality suitable for anadromous fisheries
<b>Practice Natural Resources Stewardship</b>	
Water-dependent Recreation	By enhancing cold water fisheries, the facility reoperation would support water-dependent recreation

**VII. Statewide Priorities**

**Climate Change Response Actions**

- Adaptation to Climate Change: Water management system modifications that address anticipated climate
- Adaptation to Climate Change: Establish migration corridors, re-establish river-floodplain, hydrologic continuity, re-introduce anadromous fish populations to upper watersheds, enhance and protect upper watershed forests and meadow systems

**Expand Environmental Stewardship**

- Expand environmental stewardship to protect and enhance the environment by improving watershed, floodplain, and instream functions and to sustain water and flood management ecosystems

**Climate Change Adaptation**

This project addresses two identified climate vulnerabilities in the region:

- Environmental flows are likely to be affected by increasing temperatures, erratic rainfall, and earlier snowmelt;
- Increased water temperatures may significantly impact aquatic ecosystems

By extending the intake to draw colder water from Englebright reservoir, the project mitigates for projected increases in water temperature.

Additionally, the project meets statewide priorities for climate change adaptation by modifying an existing water management facility to address the impacts of anticipated climate variability.

**GHG Emissions Reduction**

The project does not directly mitigate for GHG emissions.

**VIII. Project Status and Schedule**

**For Conceptual Projects Only:** The Project is currently in the Conceptual Stage: **YES**

**IX. Project Technical Feasibility**

Provide any related documents that describe and confirm the technical feasibility of your project.

a. List the water planning documents that specifically identify this project.	Lower Yuba River Accord
b. List the adopted planning documents the proposed project is consistent with (e.g., General Plans, UWMPs, GWMPs, Water Master Plans, Habitat Conservation Plans, etc.)	Lower Yuba River Accord
c. List technical reports and studies supporting the feasibility of this project.	Lower Yuba River Accord—several studies can be accessed at <a href="http://www.yubaaccordrmt.com/Yuba%20Accord%20Documents/Forms/AllItems.aspx">http://www.yubaaccordrmt.com/Yuba%20Accord%20Documents/Forms/AllItems.aspx</a>
<b>If you are an Urban Water Supplier:</b>	
1. Have you completed an Urban Water Management Plan and submitted to DWR?	Yuba County Water Agency (YCWA) does not supply water for direct urban use and is not subject to the Urban Water Management Plan Act (UWMPA).
2. Are you in compliance with AB1420?	See above.
3. Do you comply with the water meter requirements (CWC	See above.

Section 525)?	
4. If the answer to any of the questions above is "no," do you intend to comply prior to receiving project funding?	N/A
<b>If you are an Agricultural Water Supplier:</b>	
1. Have you completed and submitted an AWMP?	YES
<b>If the project is related to groundwater:</b>	
1. Has GWMP been completed and submitted for the subject basin?	YES