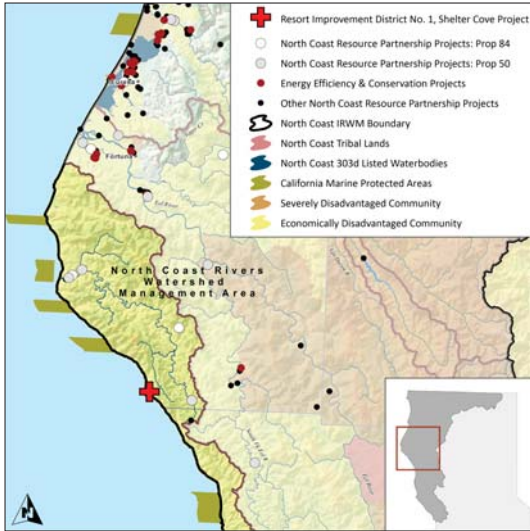


# Shelter Cove Water Recycling Project (Planning Phase)

## RESORT IMPROVEMENT DISTRICT NO. 1 (RID)



### COMPLETION DATE

Planning and permitting completion projected to be March 1, 2017

### STATEMENT OF THE PROBLEM

The RID's water supply is primarily provided by one stream (Telegraph Creek) with supplemental water obtained from 13 ground water wells and one spring. Telegraph Creek is a small creek with limited capacity that is highly vulnerable to drought and seasonal flow restrictions. RID has a permit mandating a minimum bypass flow of 0.775 cubic feet per second. RID also provides wastewater services including collection, treatment, and disposal. RID has an NPDES permit to discharge to the Pacific Ocean; however, this discharge is to an Area of Special Biological Significance (ASBS) and adjacent a Marine Protected Area (MPA). Shelter Cove residents use treated potable domestic water for landscape and domestic agriculture irrigation needs. The Department of Water Resources strongly encourages replacement with recycled water where feasible.

### PROJECT GOALS

- Improve water supply reliability by designing plans and specifications for expansion of a tertiary recycled water treatment system
- Expand community climate resiliency through education and outreach
- Habitat conservation and enhancement through development of an alternative water supply and reduced discharges to an ASBS and MPA

### THE SOLUTION

This project will help the RID to expand its existing water recycling program, enabling it to reduce withdrawals from Telegraph Creek and reduce wastewater discharges to protected marine ecosystems. This project will enable the ROD to complete design plans and specifications for water treatment plant expansion, prepare a recycled water monitoring plan, and educate the community about the benefits of using recycled water in landscape and agriculture.

### PROJECT IMPLEMENTATION

This project is 95% complete.

### PROJECT BUDGET

IRWM funds:	\$ 95,000
Leveraged funds:	\$ 8,500
<b>TOTAL</b>	<b>\$ 103,500</b>

### BENEFITS ANTICIPATED

#### Economic benefits

- An estimated \$300,987 in benefit from the avoided costs of water theft
- Residents of Shelter Cove can save an estimated \$165 annually by replacing potable water with recycled water for landscape and agricultural purposes

#### Water Supply

- Approximately 32,000 gallons per day of tertiary treated water will be available for agricultural uses

#### Habitat and Ecosystem function benefits

- Species protection for coho (*Oncorhynchus kisutch*) through increased instream flow in Telegraph Creek

#### Cultural benefits

- Enhanced firefighting capabilities through establishment of a reliable water source; at any given time, up to 100,000 gallons of treated wastewater will be available for firefighting operations
- Increased community capacity to respond to challenges associated with climate change through the diversification of water supply

#### Jobs and Local Economic Benefits

- Over \$100,000 spent locally using local supplies and labor when possible
- About 1 job created/maintained

### NEXT STEPS

The Shelter Cove Resort Improvement District No. 1 will continue to upgrade failing infrastructure and diversify water supply in order to ensure water supply reliability for the residents of Shelter Cove.

#### CONTACT

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#### ACKNOWLEDGEMENTS

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