



2015 PROPOSITION 84 FINAL ROUND IMPLEMENTATION GRANT
PROJECT INPUT FORM
Watersheds Coalition of Ventura County

IMPORTANT: It is important you review the Implementation Grant Guidelines and Proposal Solicitation Package (PSP) documents before submitting a project for consideration. Pay particular attention to (1) project and applicant eligibility, (2) project benefits, and requirements for technical justification, budget, and schedule.

PSP

http://www.water.ca.gov/irwm/grants/docs/p84_implementation/P84_IRWM_PSP_2015_Draft_2015_0312_Public.pdf

GUIDELINES

http://www.water.ca.gov/irwm/grants/docs/p84_implementation/P84_IRWM_GL_Draft_2015_0312_Public.pdf

PAST APPLICATIONS CAN BE FOUND AT

http://www.ventura.org/wcvc/prop84/submitted_implementation_grants.htm

Part 1. Lead Implementing Agency/Organizational
Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual:

City of Santa Paula

Agency / Organization / Individual Address:

970 Ventura Street, Santa Paula, CA, 93061-0569

Possible Partnering Agencies:

None at this time

Name:

Brian Yanez

Title:

Interim Public Works Director

Telephone:

805-933-4212

Fax:

805-933-8794

Email:

byanez@spcity.org



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Part 2. Project Information

Project Name:

Water Softener Buyback Program

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: **Project Longitude:**

Location Description:	Project will occur within City of Santa Paula.
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Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- | |
|---|
| <ul style="list-style-type: none"> • None at this time • • |
|---|

Project Status (e.g., new, ongoing, expansion, new phase):

New

Project Description

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

<p>The City of Santa Paula is obligated to reduce the amount of chloride discharged from the City's Water Recycling Facility (WRF). The Los Angeles Regional Water Quality Control Board (LARWQCB) limits the WRF to an average daily influent flow of 4.2 million gallons per day (MGD), while treated discharge to the percolation ponds is capped at 2.6 MGD. Annual average discharge from WRF to the percolation ponds was 1.9 MGD in 2014. The LARWQCB established a water quality limit for chloride of 110 milligrams per liter (mg/L) because high chlorides can be harmful to the local groundwater basin and the Santa Clara River. However,</p>



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the City's Water Recycling Facility was not designed nor constructed to eliminate chlorides. As a result, the LARWQCB has notified the City about exceedance levels and provided the City with Notices of Violation addressing exceedances of chloride levels.

The City water supply (local groundwater) is naturally high in hardness. Some City residents use individual self-regenerating water softeners to make the water less objectionable. Unfortunately, this practice has contributed to the high chloride values in the wastewater. Brine discharging water softeners include products such as salt (sodium chloride) and potassium (potassium chloride) pellets thus periodically discharging these contaminants into the sewer system. In order to reduce the impact of brine discharging softeners, the City adopted an Ordinance which makes it unlawful for any person to install or replace or cause to be installed or replaced a Self-Regenerating Water Softening Appliance (SRWS) in a residence located within the City's jurisdiction. City Code also includes administrative policies and procedures designed to implement and establish a "buy-back" program to help reduce the number of existing SRWS within the City's jurisdiction. The City proposes a program to encourage residents to voluntarily remove SRWS by offering a rebate to residents that participate in the program. The City anticipates that removal of the SRWS appliances will be part of a multiple element program to reduce chlorides from the City's wastewater stream. Reducing chlorides in the WRF wastewater would allow the City to potentially utilize the treated effluent for a groundwater recharge program and recycled water program within the City. The City anticipates initiating the project in the third quarter of 2015.

Please describe how the project does or could integrate with other projects in the Region.

None at this time

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River
- Santa Paula Groundwater Basin
-

Please identify up to three available documents which contain information specific to the proposed project:

- Draft Staff Report, February 26, 2015, City of Santa Paula
- Municipal Code 57.03, City of Santa Paula
- Municipal Code 57.05, City of Santa Paula

Is the proposed project an element or **No**



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phase of a regional or larger program?	
If yes, please identify the program	<u>NA</u>

Required IRWM Project Elements – Please select at least one

X	Water supply reliability, water conservation, and water use efficiency
	Stormwater capture, storage, clean-up, treatment and management
	Removal of invasive non-native species, the creation and enhancement of wetlands, and the acquisition, protection, and restoration of open space and watershed lands
	Non-point source pollution reduction, management and monitoring
X	Groundwater recharge and management projects
X	Contaminant and salt removal through reclamation, desalting, and other treatment technologies and conveyance of reclaimed water for distribution to users
X	Water banking, exchange, reclamation, and improvement of water quality
	Planning and implementation of multipurpose flood management programs
X	Watershed protection and management
	Drinking water treatment and distribution
	Ecosystem and fisheries restoration and protection



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Part 3. Project Need

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The City of Santa Paula is obligated to reduce the amount of chloride discharged from the City's Water Recycling Facility (WRF). The current water quality limit for chloride within the local reach of the Santa Clara River is 110 milligrams per liter (mg/L), while current WRF effluent is approximately 150 mg/L. However, the City's Water Recycling Facility was not designed nor constructed to eliminate chlorides. As a result, the LARWQCB has notified the City about exceedance levels and provided the City with Notices of Violation addressing exceedances of chloride levels.

Some City residents use individual self-regenerating water softeners to make the water less objectionable due to naturally high hardness. Unfortunately, this practice has contributed to the high chloride values in the wastewater. Brine discharging water softeners include products such as salt (sodium chloride) and potassium (potassium chloride) pellets thus periodically discharging these contaminants into the sewer system. The City adopted an Ordinance which makes it unlawful for any person to install or replace or cause to be installed or replaced a Self-Regenerating Water Softening Appliance (SRWS) in a residence located within the City's jurisdiction. City Code also includes administrative policies and procedures designed to implement and establish a "buy-back" program to help reduce the number of existing SRWS within the City's jurisdiction. The City proposes a program to encourage residents to voluntarily remove SRWS by offering a rebate to residents that participate in the program. The City anticipates that removal of the SRWS appliances will be part of a multiple element program to reduce chlorides from the City's wastewater stream. Reducing chlorides in the WRF wastewater would allow the City to potentially utilize the treated effluent for a groundwater recharge program and recycled water program within the City.



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Part 4. IRWMP Objectives Addressed by Project

Describe how the project meets any of the following IRWMP objectives:

1. Reduce dependence on imported water and protect, conserve and augment water supplies	Project will improve water quality of City WRF effluent. Effluent from City WRF impacts water quality and quantity within Santa Paula Groundwater Basin. Reducing chlorides in the WRF wastewater would allow the City to potentially utilize the WRF effluent for a groundwater recharge program and recycled water program within the City.
2. Protect and improve water quality	Project will improve water quality of City WRF effluent. Effluent from City WRF impacts water quality and quantity within Santa Paula Groundwater Basin. Reducing chlorides in the WRF wastewater will allow the City to utilize the WRF effluent for a groundwater recharge program and recycled water program within the City.
3. Protect people, property and the environment from adverse flooding impacts	NA
4. Protect and restore habitat and ecosystems in watersheds	NA
5. Provide water-related recreational, public access, stewardship, engagement and educational opportunities	NA
6. Prepare for and adapt to climate change	Reducing chlorides in the WRF wastewater would allow the City to potentially utilize the WRF effluent for a groundwater recharge program and recycled water program within the City. Both the groundwater recharge and recycled water programs will provide the City with sustainable water resources to reduce the local impacts due to climate change.

Part 5. Program Preferences Addressed by the Project –
Check all that Apply

<input type="checkbox"/>	Regional project or program - covers multiple watersheds
<input type="checkbox"/>	Effectively integrates water management programs and projects with a hydrologic region identified in the California Water Plan; the Regional Quality Control Board (RWQCB) region or subdivision; or other region or sub-region specifically identified by DWR



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	Effectively resolves significant water-related conflicts within or between regions
	Contributes to attainment of one or more of the objectives of the CALFED Bay-Delta Program
X	Addresses critical water supply or water quality needs of disadvantaged communities within the region
	Effectively integrate water management with land use planning
	Are part of an IRWM Plan that helps the region reduce reliance on Sacramento-San Joaquin Delta for water supply
X	Addresses statewide priorities including climate change mitigation/adaptation (See PSP for detailed list)

Part 6. Project Readiness

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In complete, Draft Status Report	(02/26/2015)
Feasibility Study (or background documentation)	In progress, Chloride Removal Technical Study	(06/30/2015)
Preliminary Design (i.e., 30%, 60%, 90%, 100%)	NA	(mm/dd/yyyy)
CEQA/NEPA	Exempt from CEQA	(mm/dd/yyyy)
Permits	NA	(mm/dd/yyyy)
Construction Drawings	NA	(mm/dd/yyyy)
Detailed Schedule		Will project go to bid by April 1, 2016? <u>YES</u> ____ yes/no Will project be completed by October 31, 2020? <u>YES</u> ____ yes/no



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Detailed Budget Available	YES _____ (yes/no)	If no, indicate when will be provided:
Funding match of 25% or more. Please indicate	YES _____ (yes/no)	Source of match: City Wastewater Fund

For projects that do not include construction, please briefly describe the project readiness-to proceed.

The City anticipates initiating the project during the third quarter 2015.

Part 7. Project Physical Benefits

Please provide a 1-2 paragraph description of the measurable physical benefits of the project. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat) **IMPORTANT: Must be able to identify at least 2 quantifiable physical benefits.**

The City anticipates that removal of the self regenerating water softeners (SRWS) will be part of a multiple element program to reduce chlorides from the City’s wastewater stream. Reducing chlorides in the WRF wastewater would allow the City to potentially utilize the treated effluent for a groundwater recharge program and recycled water program within the City. The City’s wastewater treatment permit allows for an average daily influent flow of 4.2 million gallons per day (MGD), while treated discharge to the percolation ponds was capped at 2.6 MGD. Annual average discharge to the percolation ponds was 1.9 MGD in 2014.

Once the City reduces chlorides in the wastewater and based on current permit limits and WRF treatment capacities the City could achieve the following benefits:

- 1) recharge up to 2.6 MGD to the Santa Paula Groundwater Basin, or
- 2) recycle a maximum of 4.2 MGD via a City recycled water program, or
- 3) combination of recharge and recycling up to the maximums of each alternative.

In addition, once the City reduces chlorides in the wastewater, the City will discontinue receiving Notices of Violation from LARWQCB addressing exceedances of chloride levels. This effort will save the City potentially incalculable dollars in fines and penalties due to past, current, and future exceedances.



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Does the project address any known environmental justice issues?		
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Sure
Is the project located within or adjacent to a disadvantaged community?		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure
Does the project include disadvantaged community participation?		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Sure
If yes, please identify the group or organization: <u>City of Santa Paula</u>		

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost (\$): 60,000.00

Upper estimated total capital cost (\$): 187,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement (\$):
\$00.00

Annual Operation and Maintenance Cost (\$): 0

Design Life of Project (years): 1 year (Administrative Program)



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PART 9. Additional Information

Please provide answers to the following questions:

Have you applied for a Proposition 84 grant after January 1, 2012?	No
Have you adopted the 2014 IRWM Plan Update?	No. Will be adopted by June 2015.
Is your project currently listed in the 2014 IRWM Plan?	No
Can you provide a high-quality map of your project location?	YES
For this final round of Prop 84 funding, project costs must be incurred after January 1, 2011 and eligible costs incurred after January 1, 2015. Is this a problem?	NO
The Prop 84 grant is a reimbursable grant, meaning, you pay for costs up front and receive reimbursement at a later date. Is this a problem?	NO
Can you provide staff to support the development of the application (eg., staff time and high level of understanding of the project)?	YES
Does your project assist with the current drought, and how?	YES; creates opportunity for local water recycling and groundwater recharge
Can you provide technical analysis for your project to support claimed physical benefits?	YES

NOTE: Your agency must be willing to accept all of the terms of the Grant Agreement executed by the Department of Water Resources. Boilerplate language that was used in Round 2 can be found at:

http://www.water.ca.gov/irwm/grants/docs/Resources/ContractTemplates/GrantAgreement_Template_P84R2_FINAL.pdf