

**Pajaro River Watershed Integrated Regional Water Management Plan Update
Project Solicitation Form**

PROJECT OVERVIEW

General Project Information

Project Title:	Oakridge/Via Del Sol Water System
Project Location:	Aromas, Southeast Watershed of Pajaro Valley
Estimated Cost:	\$3,000,000

Brief Project Description (1 to 2 sentences):

Provide potable municipal water supply, fire hydrants and storage system to 59 parcels, located in the southeast corner of the Pajaro Valley Watershed. The existing residences on failed private systems have major historical water deficiencies, both in water quality and quantity and no fire hydrants.

Project Proponent Information

Contact Name:	Vicki Morris
Affiliation:	Aromas Water District
Address:	P O Box 388, Aromas, CA 95004
Phone Number:	(831)726-5071
Email:	aromaswd@aol.com

Other participating agencies/organizations (if applicable):

DETAILED PROJECT INFORMATION

Description

Please provide a description of your project (including the location) and its purpose, what will be constructed and/or implemented, how the project will function, the area(s) and/or entities that will be affected by or will benefit from the project, and any potential obstacles to implementation.

Construct approximately 2.4 miles of pipeline, booster pump station and 100,000 gallon storage tank and all appurtenances to provide potable municipal water source and fire hydrants to 59 parcels. These parcels are annexed into the southwest corner of the AWD (Aromas Water District) boundary. The AWD will proceed to have a ballot election to approve the formation of a property tax assessment district to provide financing of this special benefit, funding will be procured to provide long term low interest financing for these improvements. The Engineer's estimate of the project cost is \$3,012,788.

The property is annexed into the jurisdiction of the AWD, the project has completed the CEQA, Mitigated Negative Declaration, the design engineering is complete, the bond assessment attorney(Jones Hall) is retained on a contingency basis, the loan application has begun with the USDA, Rural Utilities division.

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Technical Feasibility

Discuss the technical feasibility of the project. If possible, cite references that contain information about

The project consists of the installation of buried 6" and 8" diameter pipelines, 20 fire hydrants, line valves, water service connections, air relief valves and other pipeline appurtenances; clearing, grubbing, demolition, underground piping, site grading, pavement, for a new 100,000 gallons bolted steel water storage tank; construction and installation of a booster pump station including building, electrical, control, telemetry; and other appurtenances to connect to the AWD water utility. The new water distribution facilities will be owned by the AWD. These are typical municipal improvements, mostly located within the public utility right of way.

Pajaro River Watershed IRWM Regional Goals & Objectives

Put an X next to any goal that the proposed project will achieve.

Water Supply

x	1. Meet 100% of M&I and agriculture demands (both current and future conditions) in wet to dry years including the first year of a drought.
x	2. Meet 85% M&I and 75% agriculture demands (both current and future conditions) in second and subsequent years of a drought.
0	3. Identify and address water supply needs of disadvantaged communities in the Pajaro River Watershed.
x	4. Implement water conservation programs to reduce M&I and agricultural water use consistent with SBx7-7 and CVPIA.
	5. Maximize the use of recycled water during the irrigation season and expand other uses of recycled water.
x	6. Optimize the use of groundwater and aquifer storage.
	7. Maximize conjunctive use opportunities including interagency conjunctive use.
	8. Optimize and sustain the use of existing import surface water entitlements from the San Felipe Unit.
0	9. Maximize the beneficial use of existing local water supplies while protecting existing surface water rights.

Water Quality

x	1. Meet or exceed all applicable groundwater, surface water, wastewater, and recycled water quality regulatory standards.
0	2. Identify and address the drinking water quality of disadvantaged communities in the Pajaro River Watershed.
	3. Protect groundwater resources from contamination including salts and nutrients.

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| | 4. Address impacts from surface water runoff through implementation of Best Management Practices or other surface water management strategies. |
| | 5. Meet or exceed delivered water quality targets established by recycled water users. |

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Flood Protection

- | | |
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| | 1. Implement flood management strategies throughout the watershed that provide multiple benefits. |
| | 2. Reach consensus on the Pajaro River Risk Reduction Project necessary to protect existing urban areas and infrastructure from flooding and erosion from |
| | 3. Work with stakeholders to preserve existing flood attenuation by implementing land management and conservation strategies throughout the |
| | 4. Develop approaches for adaptive management to minimize maintenance requirements and protect quality and availability of water while preserving |
| | 5. Provide community benefits beyond flood protection such as public access, open space, recreation, agriculture preservation and economic |

Environmental Protection and Enhancement

- | | |
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| | 1. Address opportunities to enhance the local environment and protect and/or restore natural resources, in cooperation with landowners, when |
| | 2. Improve biological and cultural resources, including riparian habitats, habitats supporting sensitive plant or animal species and archaeological/historic |
| | 3. Address opportunities to protect, enhance, or restore habitat to support Monterey Bay National Marine Sanctuary marine life in conjunction with water |
| | 4. Address opportunities for open spaces, trails, parks along creeks and other recreational projects in the watershed that can be incorporated with water |

Integration and Coordination

Put an X next to any Resource Management Strategies (RMS) that the proposed project will address.

Reduce Water Demand	Agricultural Water Use Efficiency	
	Urban Water Use Efficiency	X
Improve Operational Efficiency and Transfers	Conveyance - Delta	
	Conveyance - Regional/local	X
	System Reoperation	
	Water Transfers	
Increase Water Supply	Conjunctive Management & Groundwater Storage	
	Desalination	
	Precipitation Enhancement	
	Recycled Municipal Water	
	Surface Storage - CALFED	
	Surface Storage - Regional/local	0
Improve Water Quality	Drinking Water Treatment & Distribution	X
	Groundwater Remediation /Aquifer Remediation	
	Matching Quality to Use	X
	Pollution Prevention	

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	Salt & Salinity Management	
	Urban Runoff Management	
Improve Flood Management	Flood Risk Management	
Practice Resources Stewardship	Agricultural Lands Stewardship	
	Economic Incentives (Loans, Grants, & Water Pricing)	x
	Ecosystem Restoration	
	Forest Management	
	Recharge Area Protection	
	Water-Dependent Recreation	
	Watershed Management	
Other Strategies	Crop Idling for Water Transfers	
	Dewvaporation or Atmospheric Pressure Desalination	
	Fog Collection	
	Irrigated Land Retirement	
	Rainfed Agriculture	
	Waterbag Transport/Storage Technology	

Please describe:

List the projects that were integrated to develop a single proposed project, if applicable.

Provide water supply, improve water quality and fire hydrants to existing residential parcels.

List the agencies and organization that are working together to implement the project.

AWD is the lead agency, the County of Monterey, has advanced \$212,500 to complete the environmental, engineering and LAFCO annexing process to date. All funds advanced to AWD for this project are to be repaid to the County if an Assessment District is successfully formed to implement the proposed project. Should the Assessment District fail to be formed, the county deems this \$212,500 a contribution without repayment.

A property tax Assessment District will be formed for this special benefit using bond counsel from Jones Hall, a SF law firm and financing is sought from the USDA, Rural Utilities Division for a 40 year, low interest (currently 3.5%) loan.

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Climate Change Mitigation and Adaptation

Put an X next to any climate change adaptation or mitigation strategy the proposed project will contribute to.

Adaption Strategies

<input checked="" type="checkbox"/>	Improve water supply reliability
<input type="checkbox"/>	Expand conjunctive use of multiple water supply sources
<input checked="" type="checkbox"/>	Increase water use and/or reuse efficiency
<input checked="" type="checkbox"/>	Provide additional water supply
<input checked="" type="checkbox"/>	Promote water quality protection
<input type="checkbox"/>	Reduce water demand
<input type="checkbox"/>	Advance / expand recycled water use
<input type="checkbox"/>	Promote urban runoff reuse
<input type="checkbox"/>	Address sea level rise
<input type="checkbox"/>	Address other anticipated climate change impacts
<input type="checkbox"/>	Improve flood control
<input type="checkbox"/>	Promote habitat protection
<input type="checkbox"/>	Establish migration corridors
<input type="checkbox"/>	Re-establish river-floodplain hydrologic continuity
<input type="checkbox"/>	Re-introduce anadromous fish populations to watershed
<input type="checkbox"/>	Enhance and protect watershed forest and meadow systems
Please describe:	Provide reliable municipal potable water supply.

Mitigation Strategies

<input type="checkbox"/>	Increase water use efficiency or promote energy-efficient water demand reduction
<input checked="" type="checkbox"/>	Improve water system energy efficiency
<input type="checkbox"/>	Advance / expand recycled water use
<input type="checkbox"/>	Promote urban runoff reuse
<input type="checkbox"/>	Promote use of renewable energy sources
<input type="checkbox"/>	Contribute to carbon sequestration
Please describe:	Conversion to municipal system from private individual wells, pumps & motors will increase energy efficiency. Tiered rates will promote conservation.

Does the proposed project reduce regional greenhouse gas emissions and/or improve energy efficiency? If so, explain how.

The 59 parcels now operate independently on private wells, booster pumps, and small water mutuals, each operating individually and using electrical power. Often the existing equipment is old, poorly maintained and not energy efficient; the AWD system will consolidate the power uses to new central pumping stations and use 'time of use' cycles to most efficiently utilize electrical power.

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Social Benefits and Impacts

Does the project provide specific benefits to disadvantaged communities and/or Native American tribal communities? If so, explain.

We estimate approximately 10% of the parcels (5-6) are occupied by low or fixed income owners and unable to afford the assessment, estimated at approximately \$244 per month, per parcel. Those meeting the low income criteria have no means and little opportunity to rectify these problems. An income survey being prepared by the Monterey County Economic Development Department will reveal the actual number of homeowners in the disadvantaged category.

Does the project address any known environmental justice issues?

None known

Project Cost

Total Estimated Capital Cost	\$3,000,000
Annual Operation & Maintenance (O&M) Cost	not calculated
Cost Basis (Year)	
Source(s) of Funding for Capital	100% of the cost of the capital project costs will be assessed to the property owners via a property tax assessment bond. There is a pending application with the USDA for long term, low interest financing.
Source(s) of Funding for O&M Cost	All O & M costs are paid by AWD monthly water rates. AWD has a flat base rate and a tiered usage rate to encourage conservation.
Project Life (years)	50
Provide link to project cost estimate, if available	

Economic Feasibility

Has a benefit:cost or cost effectiveness analysis been completed for your project? If so, please cite reference and briefly summarize. If no economic analysis has been completed for the project, the project may receive zero points out of a possible 100 points for the financial considerations criteria unless the project is a DAC project. If the project is not a DAC project but the B:C ratio is expected to be greater than 1, please provide a justification. The lack of an economic analysis may also affect the project's readiness score.

Not completed

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If known, please provide the Benefit:Cost Ratio.

Provide a detailed discussion of the benefits the project will provide. To the extent possible, quantify changes and benefits (e.g. water quality and water supply benefits) that will result from project implementation; otherwise, describe benefits qualitatively.

All of the homes in the improvement area have either private wells or small water mutual systems. Many of the wells are not viable, some produce 0-4 gpm, often requiring water hauling in the summer months. Historically, there are major water deficiencies, both in quantity and water quality in this area. There is documented evidence of nitrates and arsenic above the allowable contaminant level in several of the wells. There are several homes with permanent year-round outages of water, they have water trucked into their home storage tank systems, at great expense. The Environmental Health Department does not sanction trucked water as a viable long term supply solution.
The direct benefit is the availability of municipal potable water and fire hydrants available in areas not before

Project Readiness

Proposed Project Start Date:	June 2013
Anticipated Project Completion Date:	December 2013

Please Indicate the status (pending, in process, complete) of the following.

Project Element	Status	% Complete	Estimated Completion Date
<i>Feasibility Study</i>		100%	
<i>Preliminary design</i>		100%	
<i>CEQA/NEPA</i>		100%	
<i>Permit Acquisition</i>	in process	10%	June 2013
<i>Construction Docs</i>	in process	50%	June 2013