

# Attachment 4 - Budget

## Introduction

Attachment 4 contains the project budget tables (including descriptions of how the values were derived) and the overall proposal budget table. The project budget tables are consistent with the tasks discussed in the Attachment 3 Work Plan.

This attachment is organized into the following sub-sections:

- Project Budget Tables
- Proposal Budget Table

## Project Budget Tables

### *Project 1: Outingdale Water Intake*

**Implementing Agency:** El Dorado Irrigation District (EID)

**Budget Description:** Direct project administration cost estimate is based on extensive prior experience by RWA for grant labor compliance, grant application development, and grant management for this scale of project. Land purchase and easement cost estimate is at no cost to EID based on the fact that the EID owns the land and no easement procurement will be required to access the project site. The planning, design, engineering and environmental documentation, and construction and implementation cost estimates for this project are based off of similar bids for work. Cost estimates for the two submersible pumps were refined to be \$28,000 by R.F. MacDonald Company (July 2015).

Table 8 – Project Budget					
<b>Proposal Title: American River Basin 2015 IRWM Program</b>					
<b>Project Title: Outingdale Water Intake</b>					
Project serves a need of a DAC?: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Funding Match Waiver Requested?: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
<b>(a)</b>	<b>Direct Project Administration</b>	<b>\$10,875</b>	<b>\$3,625</b>	<b>\$0</b>	<b>\$14,500</b>
	Task 1 Project Management	\$7,500	\$2,500	\$0	\$10,000
	Task 2 Labor Compliance Program	\$1,500	\$500	\$0	\$2,000
	Task 3 Reporting	\$1,875	\$625	\$0	\$2,500
<b>(b)</b>	<b>Land Purchase/Easement</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
	Task 4 Land Purchase/Easement	\$0	\$0	\$0	\$0
<b>(c)</b>	<b>Planning/Design/Engineering/Environmental Documentation</b>	<b>\$24,000</b>	<b>\$17,500</b>	<b>\$0</b>	<b>\$41,500</b>
	Task 5 Feasibility Studies	\$3,000	\$2,000	\$0	\$5,000
	Task 6 CEQA Documentation	\$9,000	\$6,000	\$0	\$15,000
	Task 7 Permitting	\$6,000	\$4,000	\$0	\$10,000
	Task 8 Design	\$6,000	\$4,000	\$0	\$10,000
	Task 9 Project Performance Monitoring Plan	\$0	\$1,500	\$0	\$1,500
<b>(d)</b>	<b>Construction/Implementation</b>	<b>\$125,750</b>	<b>\$44,550</b>	<b>\$0</b>	<b>\$170,300</b>
	Task 10 Contract Services	\$4,500	\$1,500	\$0	\$6,000
	Task 11 Construction Administration	\$6,750	\$2,250	\$0	\$9,000
	Task 12 Construction/Implementation Activities	\$114,500	\$40,800	\$0	\$155,300
<b>(e)</b>	<b>Grand Total (Sum rows (a) through (d) for each column)</b>	<b>\$160,625</b>	<b>\$ 65,675</b>	<b>\$0</b>	<b>\$ 226,300</b>
<p><b>*List sources of funding:</b> Project funding is from the El Dorado Irrigation District annual Capital Improvement Program, which typically has a magnitude of approximately \$15,000,000. Funding of over \$300,000 for trucking of potable water to the community of Outingdale was approved for the summer/fall of 2015 in anticipation of drought-caused low river stage levels making water physically unavailable to the existing intake and raw water pump station.</p>					

*Project 2: Well 10 Hexavalent Chromium Treatment*

**Implementing Agency:** Rio Linda/Elverta Community Water District (RLECWD)

**Budget Description:** Direct project administration cost estimate is based on extensive prior experience by RWA for grant labor compliance, grant application development, and grant management for this scale of project. Land purchase and easement cost estimate is at no cost to RLECWD based on the fact that the Rio Linda Elverta owns the land and no easement procurement will be required to access the project site. The Engineering cost estimate is based on the level of effort required for hexavalent chromium treatment system that have been installed for California Water Service Company and Indio Water Authority. Environmental compliance cost estimate is based on preparation of CEQA negative declaration. The costs estimate for construction and implementation costs are at a planning level and are as follows:

1. The electrical upgrades and plant piping portion of the project costs were based on recent electrical upgrades and piping that have been completed for two wells the RLECWD completed last year.
2. The Hexavalent Chromium treatment system were based on the preliminary findings from the initial pilot study, discussions with a treatment supplier, and recent experience with the installation of hexavalent chromium treatment systems that have been installed for California Water Service Company and Indio Water Authority.

Table 8 – Project Budget					
<b>Proposal Title: American River Basin 2015 IRWM Program</b> <b>Project Title: Well 10 Hexavalent Chromium Treatment</b> Project serves a need of a DAC?: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Funding Match Waiver Requested?: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
<b>(a)</b>	<b>Direct Project Administration</b>	<b>\$25,000</b>	<b>\$20,000</b>	<b>\$0</b>	<b>\$45,000</b>
	Task 1 Project Management	\$15,000	\$5,000	\$0	\$20,000
	Task 2 Labor Compliance Program	\$0	\$10,000	\$0	\$10,000
	Task 3 Reporting	\$10,000	\$5,000	\$0	\$15,000
<b>(b)</b>	<b>Land Purchase/Easement</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
	Task 4 Land Purchase/Easement	\$0	\$0	\$0	\$0
<b>(c)</b>	<b>Planning/Design/Engineering/Environmental Documentation</b>	<b>\$40,000</b>	<b>\$80,000</b>	<b>\$0</b>	<b>\$120,000</b>
	Task 5 Feasibility Studies	\$0	\$20,000	\$0	\$20,000
	Task 6 CEQA Documentation	\$0	\$5,000	\$0	\$5,000
	Task 7 Permitting	\$0	\$4,000	\$0	\$4,000
	Task 8 Design	\$40,000	\$50,000	\$0	\$90,000
	Task 9 Project Performance Monitoring Plan	\$0	\$1,000	\$0	\$1,000
<b>(d)</b>	<b>Construction/Implementation</b>	<b>\$465,000</b>	<b>\$335,000</b>	<b>\$0</b>	<b>\$800,000</b>
	Task 10 Contract Services	\$0	\$5,000	\$0	\$5,000
	Task 11 Construction Administration	\$0	\$45,000	\$0	\$45,000
	Task 12 Construction/Implementation Activities	\$465,000	\$285,000	\$0	\$750,000
<b>(e)</b>	<b>Grand Total (Sum rows (a) through (d) for each column)</b>	<b>\$530,000</b>	<b>\$435,000</b>	<b>\$0</b>	<b>\$965,000</b>
<b>*List sources of funding:</b> <i>Rio Linda/Elverta Community Water District Capital Improvement Program Funds.</i>					

*Project 3: North Freeway Well Conversion***Implementing Agency:** Sacramento County Water Agency (SCWA)**Budget Description:**

The budget is based on estimated and completed tasks and purchases associated with the North Freeway well upgrade project. Only those costs associated with the project from April 2014 forward will be included as part of the grant request and budget description. Direct project administration cost estimate is based on extensive prior experience by RWA for grant labor compliance, grant application development, and grant management for this scale of project. The land purchase and planning were prepared over 30 years ago as this project consists of upgrading an existing permitted water well and are not included in the project cost estimate.

The engineering component of the North Freeway well project is mostly completed. The electrical portion of the project plans have already been prepared by Sacramento County in 2014 and are complete. Engineered site plans have been completed in early and summer 2015; these include site layout, plumbing, conduits, panels, auto-transfer switching gear, chemical systems, paving, drainage, and other details. The project is currently under construction to meet the potential drought needs.

The construction/implementation component of the project includes a well water pump, electric pump motor, electrical systems, chemical systems, driveway and pavement, automatic transfer switching gear, and associated plumbing are based on previous costs for similar projects.

Table 8 – Project Budget					
<b>Proposal Title: American River Basin 2015 IRWM Program</b>					
<b>Project Title: North Freeway Well Conversion</b>					
Project serves a need of a DAC?: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Funding Match Waiver Requested?: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
<b>(a)</b>	<b>Direct Project Administration</b>	<b>\$13,125</b>	<b>\$4,375</b>	<b>\$0</b>	<b>\$17,500</b>
	Task 1 Project Management	\$7,500	\$2,500	\$0	\$10,000
	Task 2 Labor Compliance Program	\$3,750	\$1,250	\$0	\$5,000
	Task 3 Reporting	\$1,875	\$625	\$0	\$2,500
<b>(b)</b>	<b>Land Purchase/Easement</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
	Task 4 Land Purchase/Easement	\$0	\$0	\$0	\$0
<b>(c)</b>	<b>Planning/Design/Engineering/Environmental Documentation</b>	<b>\$17,250</b>	<b>\$5,750</b>	<b>\$0</b>	<b>\$23,000</b>
	Task 5 Feasibility Studies	\$1,500	\$500	\$0	\$2,000
	Task 6 CEQA Documentation	\$1,500	\$500	\$0	\$2,000
	Task 7 Permitting	\$750	\$250	\$0	\$1,000
	Task 8 Design	\$12,750	\$4,250	\$0	\$17,000
	Task 9 Project Performance Monitoring Plan	\$750	\$250	\$0	\$1,000
<b>(d)</b>	<b>Construction/Implementation</b>	<b>\$183,750</b>	<b>\$61,250</b>	<b>\$0</b>	<b>\$245,000</b>
	Task 10 Contract Services	\$0	\$0	\$0	\$0
	Task 11 Construction Administration	\$3,750	\$1,250	\$0	\$5,000
	Task 12 Construction/Implementation Activities	\$180,000	\$60,000	\$0	\$240,000
<b>(e)</b>	<b>Grand Total (Sum rows (a) through (d) for each column)</b>	<b>\$214,125</b>	<b>\$71,375</b>	<b>\$0</b>	<b>\$285,500</b>

**\*List sources of funding:** Sacramento County Water Agency Capital Improvement Budget funds.

*Project 4: Regional Water Conservation Measures***Implementing Agency:** Regional Water Authority (RWA)

**Budget Description:** a) Direct project administration cost estimates are based on extensive prior experience by RWA for project management, labor compliance programs and quarterly reporting and invoicing and final report tasks for this scale of project. Direct program administration will be limited because RWA and its member water agencies are already implementing similar projects at both the regional and local levels. This project would increase the capacity of those existing programs. The focus on this project is accelerating additional water savings from existing programs. Total funding for this budget category is \$63,000.

b) There will be no costs for land purchase or easement as this activity is not part of the project.

c) A minimal amount of assessment and evaluation and final design funding will be needed to collect and summarize current and planned leak detection and repair and advanced customer systems activities from each participating agency and to create an updated public outreach plan. Environmental documentation will be limited to the leak detection and repair component of the project and is expected to be minimal because the project will be repairing infrastructure in areas that have already been disturbed and therefore have had previous environmental reviews. Construction permits will be required in some cases for the leak repair work as part of the leak detection and repair construction task but will be limited. Most agencies have reported that no permits are needed for their leak detection and repair activities for this project. A project monitoring plan was submitted as part of this project application. Changes will be made to the plan as necessary. Staff time is needed to collect and summarize water agency non-revenue water and meter data during and at the end of the project. Total funding for this budget category is \$15,000.

d) The majority of the funding is dedicated to the construction/implementation budget category with \$800,000 in requested grant funding, with a total construction/implementation budget of \$1,930,000. Funding for advanced customer systems is based on current project documentation of several existing programs within the region and ranges from \$2.00 to \$10.00 per residential account, with an average of \$7.50 per household. The cost per residential account varies depending on if the participating water agency performs work in house, in conjunction with an existing meter program, and/or through a consulting firm. Total funding for advanced customer systems is \$646,000.

Funding for the leak detection and repair is based on current project documentation of several existing program within the region. Costs vary per water agency and are based on a participating water agency's leak detection procedures (in house or contracted and leak detection method), age of pipe, pipe replacement material, soil type and other pertinent factors. Most participating agencies have already performed leak surveys. Therefore the majority of the funding will be dedicated to leak repair. Total funding for leak detection and repair is \$1,000,000.

In order to communicate to customers about the availability of advanced customer systems tools and about reducing water use in general, \$200,000 is requested in grant funding. This funding would be used to increase media outreach, advertising buys and workshops to effectively communicate a regionally consistent message about reducing water use. The requested grant funding would be matched with RWA's Regional Water Efficiency Program (RWEPP)'s public outreach funding (\$79,000) dedicated for the same purpose. Total funding for public outreach is \$279,000.

Table 8 – Project Budget					
<b>Proposal Title: American River Basin 2015 IRWM Program</b>					
<b>Project Title: Regional Water Conservation Measures</b>					
Project serves a need of a DAC?: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Funding Match Waiver Requested?: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
<b>(a)</b>	<b>Direct Project Administration</b>	<b>\$47,250</b>	<b>\$15,750</b>	<b>\$0</b>	<b>\$63,000</b>
	Task 1 Project Management	\$33,750	\$11,250	\$0	\$45,000
	Task 2 Labor Compliance Program	\$2,250	\$750	\$0	\$3,000
	Task 3 Reporting	\$11,250	\$3,750	\$0	\$15,000
<b>(b)</b>	<b>Land Purchase/Easement</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
	Task 4 Land Purchase/Easement	\$0	\$0	\$0	\$0
<b>(c)</b>	<b>Planning/Design/Engineering/Environmental Documentation</b>	<b>\$5,000</b>	<b>\$10,000</b>	<b>\$0</b>	<b>\$15,000</b>
	Task 5 Feasibility Studies	\$2,000	\$0	\$0	\$2,000
	Task 6 CEQA Documentation	\$1,000	\$6,500	\$0	\$7,500
	Task 7 Permitting	\$0	\$1,500	\$0	\$1,500
	Task 8 Design	\$1,000	\$0	\$0	\$1,000
	Task 9 Project Performance Monitoring Plan	\$1,000	\$2,000	\$0	\$3,000
<b>(d)</b>	<b>Construction/Implementation</b>	<b>\$800,000</b>	<b>\$1,130,000</b>	<b>\$0</b>	<b>\$1,930,000</b>
	Task 10 Contract Services	\$0	\$5,000	\$0	\$5,000
	Task 11 Construction Administration	\$0	\$0	\$0	\$0
	Task 12 Construction/Implementation Activities	\$800,000	\$1,125,000	\$0	\$1,925,000
	<i>Subtask 12.1 Advanced Customer Systems</i>	<i>\$300,000</i>	<i>\$346,000</i>	<i>\$0</i>	<i>\$646,000</i>
	<i>Subtask 12.2 Leak Detection and Repair</i>	<i>\$300,000</i>	<i>\$700,000</i>	<i>\$0</i>	<i>\$1,000,000</i>
	<i>Subtask 12.3 Public Outreach</i>	<i>\$200,000</i>	<i>\$79,000</i>	<i>\$0</i>	<i>\$279,000</i>
<b>(e)</b>	<b>Grand Total (Sum rows (a) through (d) for each column)</b>	<b>\$852,250</b>	<b>\$1,155,750</b>	<b>\$0</b>	<b>\$2,008,000</b>
<b>*List sources of funding:</b> <i>Participating local water agencies and Regional Water Authority</i>					

## Proposal Budget Table

Table 9 – Proposal Budget						
Proposal Title: American River Basin 2015 IRWM Program						
Individual Project Title		(a)	(b)	(c)	(d)	(e)
		Requested Grant Amount	Cost Share: Non-State Fund Source (Funding Match)	Cost Share: Other State Funding Sources	Total Cost	% Funding Match
(a)	Outingdale Water Intake	\$160,625	\$65,675	\$0	\$226,300	29%
(b)	Well 10 Hexavalent Chromium Treatment	\$530,000	\$435,000	\$0	\$965,000	45%
(c)	North Freeway Well Conversion	\$214,125	\$71,375	\$0	\$285,500	25%
(d)	Regional Water Conservation Measures	\$852,250	\$1,155,750	\$0	\$2,008,000	58%
(e)	Proposal Total	\$1,757,000	\$1,727,800	\$0	\$3,484,800	50%
(f)	DAC Funding Match Waiver Total	-	-	-		
(g)	Grand Total	\$1,757,000	\$1,727,800	\$0	\$3,484,800	50%