

Attachment

4

Implementation Grant Proposal
BCSD Arsenic Management Feasibility Study and Well Design
Budget

Attachment 4 consists of the following items:

- ✓ **Budget.** Attachment 4 provides a budget estimate for each budget category row of the proposed project.

Introduction

This attachment presents detailed budget information and supporting documentation for the BCSD Arsenic Management Feasibility Study and Well Design (Planning/Design Project). A summary budget for the Planning/Design Project is provided in Table 4-1 while Table 4-2 provides a cost breakdown by Work Plan task and sub-task. Tables 4-3 through 4-15 provide detailed budget breakdowns for each of the budget categories. The cost breakdown for each budget is provided for each of the budget categories included in the sample budget provided in Exhibit B of the Proposition 84 IRWM Proposal Solicitation Package and are consistent with the categories included in the Work Plan (provided in Attachment 3) and Schedule (provided in Attachment 5).

Table 4-1: Total Project Budget¹

Project serves a need of a DAC? Yes						
Funding Match Waiver request? Yes (see Attachment 10)						
		(a)	(b)	(c)	(d)	(e)
Budget Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total	% Funding Match
(a)	Direct Project Administration	\$28,000	\$0	\$0	\$28,000	0%
(b)	Land Purchase/Easement	\$5,000	\$0	\$0	\$5,000	0%
(c)	Planning/Design/Engineering/Environmental Documentation	\$219,000	\$0	\$0	\$219,000	0%
(d)	Construction/Implementation	\$149,000	\$0	\$0	\$149,000	0%
(e)	Environmental Compliance/Mitigation/Enhancement	\$0	\$0	\$0	\$0	N/A
(f)	Construction Administration	\$8,000	\$0	\$0	\$8,000	0%
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0	\$0	\$0	\$0	0%
(h)	Construction/Implementation Contingency	\$18,000	\$0	\$0	\$18,000	0%
(i)	Grand Total (Sum rows (a) through (h) for each column)	\$427,000	\$0	\$0	\$427,000	0%
<i>*Sources of Funding: Proposition 84 Implementation Round 2</i>						

¹ Budget is based on a Scope of Work and Associated Budget from Provost & Pritchard. A copy of the Scope of Work and Associated Budget is located at the end of this attachment.

Table 4-2: Cost Breakdown by Work Plan Task and Subtask

Row/Task	Category	Total
Row (a)	Direct Project Administration	\$28,000
Task 1	<i>Project Administration</i>	\$20,000
Task 2	<i>Labor Compliance Program</i>	\$3,000
Task 3	<i>Reporting</i>	\$5,000
Row (b)	Land Purchase Easement	\$5,000
Row (c)	Planning/Design/Engineering/Environmental Documentation	\$219,000
Task 4	<i>Assessment and Evaluation</i>	\$23,000
Task 5	<i>Project Design</i>	\$166,000
Task 6	<i>Environmental Documentation</i>	\$24,000
Task 7	<i>Permitting</i>	\$6,000
Row (d)	Construction	\$149,000
Task 8	<i>Construction Contracting</i>	\$2,000
Task 9	<i>Construction</i>	\$147,000
Row (e)	Environmental Compliance/Mitigation/Enhancement	\$0
Task 10	<i>Environmental Compliance/Mitigation/Enhancement</i>	\$0
Row (f)	Construction Administration	\$8,000
Task 11	<i>Construction Administration</i>	\$8,000
Row (g)	Other Costs	\$0
Row (h)	Construction Contingency	\$18,000
Row (i)	Grand Total	\$427,000

Row (a) Direct Project Administration

Direct Project Administration costs of \$28,000 were calculated based on the task break down shown below.

Task 1 – Project Administration:

The Project Administration cost estimate of \$20,000 was calculated based on experience with previous projects as shown in Table 4-3. Project Administration includes the following activities:

- Development of project management plan
- Administration of grant and construction contracts
- Preparation of invoices, reports, and plans

- Coordination of design contract
- Planning/Design Project kickoff meeting
- Other administrative activities that will be necessary for managing the Planning/Design Project

Table 4-3: Project Administration Budget

Activity or Deliverable	Cost Basis	Total
Project Administration	Lump Sum	\$20,000
Total		\$20,000

Task 2 – Labor Compliance Program:

The Labor Compliance Program (LCP) cost estimate of \$3,000 as presented in Table 4-4 was based on previous experience with similar projects working with Golden State Labor Compliance, LLC.

Table 4-4: Labor Compliance Program Budget

Activity or Deliverable	Discipline	Cost Basis	Total
Labor Compliance Program	Project Manager	Lump Sum	\$3,000
Total			\$3,000

Task 3 – Reporting:

The Reporting cost estimate of \$5,000 was based on previous experience with similar projects and is shown in Table 4-5. Reporting includes the following activities:

- Quarterly Invoices and Progress Reports
- Final Project Report

Table 4-5: Reporting Budget

Activity or Deliverable	Cost Basis	Total
Quarterly Invoices and Progress Reports	Lump Sum	\$1,000
Final Project Report	Lump Sum	\$4,000
Total		\$5,000

Row (b) Land Purchase/Easement

Land Purchase/Easement costs of \$5,000 were based on previous experience with similar projects as shown in Table 4-6. A construction easement will need to be obtained before construction of the pilot test well.

Table 4-6: Land Purchase/Easement Budget

Activity or Deliverable	Cost Basis	Total
Construction Easement	Lump Sum	\$5,000
Total		\$5,000

Row (c) Planning/Design/Engineering/Environmental Documentation

Planning/Design/Engineering/Environmental Documentation costs of \$219,000 were calculated based on the task break down shown below.

Task 4 – Assessment and Evaluation:

The Assessment and Evaluation cost estimate of \$23,000 was calculated based on previous experience with similar projects as shown in Table 4-7. Assessment and Evaluation includes the following activities:

- Hydrogeology Study
- Preliminary Engineering Report

Table 4-7: Assessment and Evaluation Budget

Activity or Deliverable	Cost Basis	Total
Prepare Hydrogeology Study	Lump Sum	\$8,000
Prepare Preliminary Engineering Report	Lump Sum	\$15,000
Total		\$23,000

Task 5 – Project Design:

The Project Design cost estimate of \$166,000 was calculated based on previous experience with similar projects as shown in Table 4-8. Design includes the following activities:

- Pilot Test Well Design
- Production Well Design

Table 4-8: Project Design Budget

Activity or Deliverable	Cost Basis	Total
Pilot Test Well Design	Lump Sum	\$16,000
Production Well Design	Lump Sum	\$150,000
Total		\$166,000

Task 6 – Environmental Documentation:

The Environmental Documentation cost estimate of \$24,000 was calculated based on previous experience with similar projects as shown in Table 4-9. Environmental Documentation includes the following activities:

- Biological and Cultural Surveys
- Mitigated Negative Declaration

Table 4-9: Environmental Documentation Budget

Activity or Deliverable	Cost Basis	Total
Biological and Cultural Surveys	Lump Sum	\$12,000
Mitigated Negative Declaration	Lump Sum	\$12,000
Total		\$24,000

Task 7 – Permitting:

The Permitting cost estimate of \$6,000 was calculated based on previous experience with similar projects as shown in Table 4-10. As part of the scope of this grant application, preliminary investigation into permitting requirements will be completed for the construction phase. These are likely to include:

- *Kern County Env. Health Services (KCEHS) Dept. permit* - for drilling pilot test well and new production well
- *Building permit from the KCEHS* - construction for the well or treatment plant
- California Department of Public Health (CDPH) Permit Amendment - for addition of a new well and any associated treatment (e.g., arsenic, chlorination, etc.)

Table 4-10: Permitting

Activity or Deliverable	Cost Basis	Total
KCEHS Department Permit	Lump Sum	\$2,000
KCEHS Building Permit	Lump Sum	\$2,000
CDPH Permit Amendment	Lump Sum	\$2,000
Total		\$6,000

Row (d) Construction

Construction Costs of \$149,000 were calculated based on the task break down shown below.

Task 8 – Construction Contracting:

The Construction Contracting cost estimate of \$2,000 was calculated based on previous experience with similar projects as shown in Table 4-11. Construction Contracting includes the following activities:

- Pilot Test Well – Advertisement and Bidding
- Contract Award

Table 4-11: Construction Contracting Budget

Activity or Deliverable	Cost Basis	Total
Pilot Test Well - Advertising & Bidding	Lump Sum	\$1,500
Contract Award	Lump Sum	\$500
Total		\$2,000

Task 9 – Construction:

The Construction cost estimate of \$147,000 was calculated based on previous experience with similar projects as shown in Tables 4-12 through 4-14.

Subtask 9.1: Mobilization and Site Preparation

Mobilization and Site Preparation are estimated to cost \$10,000 from the drill pilot test well. This cost is based on previous experience with similar projects as below in Table 4-12.

Table 4-12: Mobilization and Site Preparation Budget

Activity or Deliverable	Cost Basis	Total
Mobilization	Lump Sum	\$10,000
Total		\$10,000

Subtask 9.2: Project Construction

The Project Construction estimate of \$112,000 is based on the detailed labor costs below in Table 4-13.

Table 4-13: Project Construction Budget

Activity or Deliverable	Cost Basis	Total
Drill Pilot Test Well	Lump Sum	\$105,000
Conduct Zone Sampling and Water Quality Testing for 4 zones	Lump Sum	\$5,000
Prepare Geologic Log and E-Log	Lump Sum	\$2,000
Total		\$112,000

Subtask 9.3: Performance Testing and Demobilization

The Project Construction estimate of \$25,000 is based on previous experience with similar projects and is shown in Table 4-14.

Table 4-14: Performance Testing and Demobilization Budget

Activity or Deliverable	Cost Basis	Total
Abandon Test Well	Lump Sum	\$5,000
Engineering Inspection, Hydrogeology, Lab Services	Lump Sum	\$15,000
Prepare Final Well Report for CDPH	Lump Sum	\$5,000
Total		\$25,000

Row (e) Environmental Compliance/Mitigation/Enhancement

Task 10- Environmental Compliance/Mitigation/Enhancement:

No environmental compliance/mitigation/enhancement work will be required as part of the Planning/Design Project.

Row (f) Construction Administration

Task 11- Construction Administration:

The Construction Administration cost estimate of \$8,000 is based on previous experience with similar projects and is shown in Table 4-15.

Table 4-15: Construction Administration Budget

Activity or Deliverable	Cost Basis	Total
Construction Administration	Lump Sum	\$8,000
Total		\$8,000

Row (g) Other Costs

There are no other costs anticipated for the Planning/Design Project.

Row (h) Construction Contingency

The construction/implementation contingency percentage applied is approximately 12 percent of the total anticipated construction cost of \$149,000 to equal a contingency of \$18,000 (rounded). These costs include funds to handle unknown and unspecified conditions encountered during construction or implementation of the Planning/Design Project.