

Attachment 5 – Budget Summary

Project Budget Summary

A Table 7 for each project has been prepared in accordance with the Grant PSP showing a breakdown by each category and included within this attachment. Also included for each project is a Detailed Staffing Plan and Budget breakdown for each project showing the administration, land acquisition, planning, design, engineering, environmental, construction contracting, environmental compliance and construction administration associated with the each project (Tasks 1-9, 11 and 12). The associated costs for each project are reasonable because they were based on similar projects recently performed by the project proponent, often based on actual administration, design and construction costs or bid canvasses from contractors, as well as actual staff and consultant time associated with those projects.

For the Construction/Implementation category, an Engineer's Opinion of Probable Construction Costs (a construction estimate) was prepared for each project. The detail was provided in accordance with typical bid items prepared for formal construction bid documents for similar projects. The units and costs shown are based on construction estimates prepared by engineering staff and construction estimators based on actual bids for similar projects and bid items.

Project A: CID – Adams and Academy Basin

Direct Project Administration Costs (Tasks 1, 2 and 3)

The budget includes time for CID's engineering consultant for direct project administration costs including such things as grant application preparation, conference calls, meetings and meeting minutes, subconsultant management, coordination with stakeholders, overall project coordination, labor compliance, and legal services. Labor compliance and grant administration costs were based on those costs for similar recent projects. The staffing hours and costs are shown in **Attachment 5a**.

Land Purchase / Easement (Task 4)

The land acquisition is based on the actual agreed upon price with the landowner included in the option to purchase agreement included as **Attachment 4a**.

Planning/Design/Engineering/Environmental Documentation (Tasks 5, 6, 7, and 8)

The fees for planning, design, engineering and environmental documentation are based on fees incurred for similarly sized banking project in the District. The work will be performed by the same project consulting engineers, surveyors and planners that completed the work for the similar banking projects, including District's recent South and Highland project that was partially funded by a grant from DWR.

Construction/Implementation (Tasks 9, 10, 11 and 12)

Construction and implementation fees are based on conceptual engineer's estimates developed in the project's feasibility study. The quantities were estimated from a preliminary topographic survey and project layout as part of the project's feasibility study. The construction costs are detailed in the supporting table (**Attachment 5b**) and include a breakdown of items, quantities and unit costs. The construction costs were based on 2013 and 2014 actual bids received for the District's South and Highland Project constructed with grant money from the similar program. Prevailing wage rates are included. Bid canvasses from those projects from those projects are attached as **Attachment 5c**.

The budget includes \$5,600 for monitoring and minor reporting, if necessary. The preventative measures are intended to protect habitat for the local wildlife. This estimate is based on similar efforts and expenditures for similar banking projects in the region that had minor to no mitigation measures. A construction implementation contingency of 15% is included as a conservative estimate of possible changes in construction cost because the plans are still preliminary, and because of the possible delay before start of construction. Construction administration costs are based actual fees incurred for similarly sized banking projects to observe construction and

administer the construction contract. It is assumed that the project consulting engineers will perform the construction observation activities.

Other Costs

The project is not anticipated to include costs other than those described above. On-going Monitoring and Reporting costs will be borne by the District utilizing existing staff.

Matching Funds

The total project cost (refer to Engineer’s Opinion of Probable Cost) is estimated to be \$4,435,109. As described in Attachment 8, CID is requesting a funding match waiver because the project will meet the critical water quality and water supply needs of a Disadvantaged Community. The project will provide recharge benefit to the City of Parlier and the area around the basin, which meet the DAC criteria as identified in Attachment 8.

Project B: City of Fresno – Nielsen Groundwater Recharge Basin

Direct Project Administration Costs (Tasks 1, 2 and 3)

City of Fresno staff will prepare the required reporting information. The budget for this task includes is for administrative tasks including grant application preparation, preparation of the quarterly project reports, draft and final project summary report. The City of Fresno has prepared project reports for grant funded project in the past, and has found by experience that this is an accurate estimate of administrative expenses. Other costs include an estimated \$25,000 for City Attorney legal fees to assist with permitting, construction contracts, and agreements among the stakeholders. The staffing hours and costs are shown in **Attachment 5d**.

The budget also includes approximate time for the engineering consultant for conference calls, meetings, progress reports, subconsultant management, coordination with stakeholders, and overall project coordination.

Land Purchase /Easement (Task 4)

The land on which the banking facility will be constructed is owned by the City of Fresno. The price included is the actual purchase price for the property. A portion of the Houghton Canal (FID) will be realigned in order to maximize the proposed banking facility. Considering that no additional easements or right-of-way are anticipated to be required to construct and operate the banking facility, there is no additional cost for this task.

Planning/Design/Engineering/Environmental Documentation (Tasks 5, 6, 7, and 8)

The City has a consultant under contract to complete these tasks, and the costs shown are based on the City’s contract with the consultant. The fees for planning, design, engineering and environmental documentation are based on fees incurred for similarly sized banking projects in the region. The work will be performed by the same project consulting engineers, surveyors and planners that completed the work for the similar banking projects.

Construction/Implementation (Tasks 9, 10, 11 and 12)

Construction and implementation fees are engineer’s probable opinion of cost based on 60% design plans and are included in **Attachment 5e**. The quantities were estimated from a topographic survey and preliminary design plans. The budget table includes a breakdown of items, quantities and unit costs.

Unit costs were generally based on unit prices for similar, recent banking projects in the region from the last three years. It is assumed that the current economic conditions would allow for the project’s construction costs to be similar to these 2013 prices without adjustments. As stated above, the construction contingency is 15%. The contingencies account for uncertainty in designs, unit prices and construction methods, and allowance for neglected items. The budget includes \$7,980 for monitoring and minor reporting. Mitigation measures are intended to protect the local wildlife and cultural resources, if any are present. This estimate is based on similar efforts and expenditures for similar banking projects in the region that had minor mitigation measures. Construction administration costs are based actual fees incurred for similarly sized banking projects to observe construction and administer the construction contract. It is assumed that the project consulting engineers will perform the construction observation activities.

Matching Funds

The total project cost (refer to Engineer's Opinion of Probable Cost) is estimated to be \$4,564,643. The primary participant would be the City of Fresno contributing to funding the project and assisting with the project's operation and maintenance. The City of Fresno would contribute a 44% cost match for the project through their existing Construction Funds.

Project C: FMFCD – Regional Groundwater Recharge Project

Direct Project Administration Costs (Tasks 1, 2 and 3)

FMFCD staff will prepare the required grant reporting information. The budget for this task includes is for administrative tasks including grant application preparation, preparation of the quarterly project reports, draft and final project summary report. FMFCD has prepared project reports for similar DWR grant funded projects in the past, and has found by experience that this is an accurate estimate of administrative expenses.

\$119,085 is the estimated amount allocated for Direct Project Administration Costs by FMFCD to complete all Administration, Labor Compliance, and Reporting work. Grant application preparation costs are included in this total. Administration costs are about 2.5% of the total Project cost. The staffing hours and costs are shown in **Attachment 5f**.

Land Purchase/Easement (Task 4)

\$56,478 is the estimated amount allocated by FMFCD to finalize land and easement acquisitions for the Project. This includes staff time for the transfer of ownership of the two Caltrans basins to FMFCD and the purchase of storm drain easements for two of the recharge interties.

Planning/Design/Engineering/Environmental Documentation (Tasks 5, 6, 7 and 8)

\$629,320 is the estimated amount allocated for all work involved with Planning/Design/Engineering/Environmental Documentation. The cost includes finalizing design, preparation of plan drawings and specifications, coordination with other local agencies, preparation of environmental documentation and permitting. The staffing hours were based on preparation of design drawings and specifications for similar storm drain and basin development projects performed by FMFCD. This cost is approximately 13% of the total Construction cost.

Construction/Implementation (Tasks 9, 10, 11 and 12)

Construction/Implementation costs are for construction of the basin improvements and system interties. This cost includes construction contracting, construction, environmental compliance, and construction administration. A detailed construction cost estimate is included as **Attachment 5g**. The cost estimate includes bid items and totals for each of the basin interties. The costs listed were derived from recent construction bids for similar storm drain pipeline and structures bids.

Construction contracting costs are also included in this category. Mitigation measures are intended to protect the local wildlife and cultural resources, if any are present. This estimate is based on similar efforts and expenditures for similar banking projects in the region that had minor mitigation measures. Construction administration costs (Task 12) for the Project corresponds to the tasks described in the Work Summary and it is estimated to be \$208,850. This assumes construction contracting costs total about 4.5% of the total project costs.

Matching Funds

The total project cost is estimated to be \$4,678,302. FMFCD will contribute a 25% cost match for the project through their existing Construction Funds.

Project D: East Oroshi CSD – Water Conservation and Meter Project

Direct Project Administration Costs (Tasks 1, 2 and 3)

East Oroshi will utilize the assistance of Self-Help Enterprises to prepare the required grant reporting information. Self-Help Enterprises provides assistance to Districts such as East Oroshi, and is familiar with the requirements of the DWR through the IRWM Implementation funding. The budget for this task includes is for administrative tasks

including grant application preparation, preparation of the quarterly project reports, draft and final project summary report. The staffing hours and costs are shown in **Attachment 5h**.

Land Purchase/Easement (Task 4)

There is no land purchase or easement acquisition needed for this project so no costs are included in this category.

Planning/Design/Engineering/Environmental Documentation (Tasks 5, 6, 7 and 8)

The cost in this category includes finalizing bid documents and contract documents for securing contractors to complete construction. The level of effort included in the staffing hours is based on recent metering projects for similar communities and the hours required to prepare bid documents.

Construction/Implementation (Tasks 9, 10, 11 and 12)

Construction/Implementation costs are for construction of the meter and ultra low flow toilet installations. This cost includes construction contracting, construction, and construction administration. A detailed construction cost estimate is included as **Attachment 5i**. The costs for water meters, meter reading equipment, and billing software were generated from Equarius Waterworks which is the supplier of Neptune meters in Tulare County (**Attachment 5j**). This particular metering equipment was chosen because it is compatible with the nearby City of Dinuba which utilizes the same meters. This would allow for local back-up assistance to the District as well as the potential for consolidation of billing operations. The charge for labor for the installation of meters, related service lines and toilets was estimated by receiving estimates from local contractors with the understanding that State Prevailing wage rates would apply. The costs for toilet materials, installations and related items were also generated based on an existing contract the Richgrove Community Services District in Tulare County that is currently administering such a program.

Matching Funds

The total project cost is estimated to be \$288,770. As described in Attachment 8, EOCS D is requesting a funding match waiver because the project will meet the critical water quality and water supply needs of a Disadvantaged Community.

Project E: Sultana CSD – Water Conservation and Meter Project

Direct Project Administration Costs (Tasks 1, 2 and 3)

Similar to East Orosi, Sultana will utilize the assistance of Self-Help Enterprises to prepare the required grant reporting information. Self-Help is familiar with the requirements of the DWR through the IRWM Implementation funding. The budget for this task is for administrative tasks including grant application preparation, preparation of the quarterly project reports, draft and final project summary report. The staffing hours and costs are shown in **Attachment 5k**.

Land Purchase/Easement (Task 4)

There is no land purchase or easement acquisition needed for this project so no costs are included in this category.

Planning/Design/Engineering/Environmental Documentation (Tasks 5, 6, 7 and 8)

The cost in this category includes finalizing bid documents and contract documents for securing contractors to complete construction. The level of effort included in the staffing hours is based on recent metering projects for similar communities and the hours required to prepare bid documents.

Construction/Implementation (Tasks 9, 10, 11 and 12)

The costs utilized for the East Orosi project were also used for the Sultana project as they are similar installations. Meter and appurtenance costs were based on the recent quotation from the supplier (**Attachment 5j**). The installations and are expected to have similar costs. This cost includes construction contracting, construction, and construction administration. A detailed construction cost estimate is included as **Attachment 5i**.

Matching Funds

The total project cost is estimated to be \$520,474. As described in Attachment 8, SCSD is requesting a funding match waiver because the project will meet the critical water quality and water supply needs of a Disadvantaged Community.

Proposal Budget Summary

Table 8 is included to show the total project cost for each project, the local cost share and the grant amount requested. With the CID, East Orosi and Sultana projects qualifying for the funding match waiver, the project includes a local cost share of 35%.

It is important to note that the project proponents have developed a schedule for partial funding, should the full requested amount not be available. All of the projects have a scalability aspect to them. The project proponents met to prioritize the projects and consider how to maximize the benefits to the region and the number of projects that could be funded. The table below shows how the project proponents propose to scale their funding requests should a partial award be made. In each scenario, each project has been scaled to allow the maximum number of projects funded. A detailed summary of the proposed project changes and modified cost share amounts for each project can be provided if partial funding is awarded.

Agency	Project Partial Funding Scenarios				
CID	\$4,000,000	\$3,500,000	\$3,417,000	\$3,341,333	\$3,262,000
City of Fresno	\$2,200,000	\$1,926,000	\$1,528,000	\$1,134,000	\$738,000
FMFCD	\$1,000,000	\$1,000,000	\$760,000	\$524,667	
East Orosi	\$288,770	\$197,000	\$140,000		
Sultana	\$520,474	\$377,000	\$155,000		
Totals	\$8,009,244	\$7,000,000	\$6,000,000	\$5,000,000	\$4,000,000

Table 7 – Project Budget

Proposal Title: Kings Basin Water Authority IRWM 2014 Drought Grant

Project Title: Consolidated Irrigation District - Adams and Academy Basin

Project serves a need of a DAC?: YES

Funding Match Waiver request?: YES

Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$155,218	\$0	\$0	\$155,218
(b)	Land Purchase/Easement	\$1,397,160		\$0	\$1,397,160
(c)	Planning/Design/Engineering/ Environmental Documentation	\$305,810	\$0	\$0	\$305,810
(d)	Construction/Implementation	\$2,576,921	\$0	\$0	\$2,576,921
(e)	Grand Total (Sum rows (a) through (d) for each column)	\$4,435,109	\$0	\$0	\$4,435,109

*List sources of funding: *Use as much space as required*

Table 7 – Project Budget

Proposal Title: Kings Basin Water Authority IRWM 2014 Drought Grant

Project Title: City of Fresno - Nielsen Recharge Basin

Project serves a need of a DAC?: YES

Funding Match Waiver request?: NO

Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$157,925			\$157,925
(b)	Land Purchase/Easement	\$6,160	\$1,804,900		\$1,811,060
(c)	Planning/Design/Engineering/ Environmental Documentation	\$22,830	\$216,000		\$238,830
(d)	Construction/Implementation	\$2,356,828			\$2,356,828
(e)	Grand Total (Sum rows (a) through (d) for each column)	\$2,543,743	\$2,020,900	\$0	\$4,564,643

*List sources of funding: *Use as much space as required*

Funding Match Source: Construction Fund

Table 7 – Project Budget

Proposal Title: Kings Basin Water Authority IRWM 2014 Drought Grant

Project Title: Fresno Metropolitan Flood Control District - Regional Groundwater Recharge Project

Project serves a need of a DAC?: YES

Funding Match Waiver request?: NO

Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$27,625	\$91,460		\$119,085
(b)	Land Purchase/Easement	\$0	\$56,478		\$56,478
(c)	Planning/Design/Engineering/ Environmental Documentation	\$0	\$629,320		\$629,320
(d)	Construction/Implementation	\$3,481,099	\$392,320		\$3,873,419
(e)	Grand Total (Sum rows (a) through (d) for each column)	\$3,508,724	\$1,169,578	\$0	\$4,678,302

*List sources of funding: *Use as much space as required*

Funding Match Source: Construction Fund

Table 7 – Project Budget

Proposal Title: Kings Basin Water Authority IRWM 2014 Drought Grant

Project Title: East Orosi Community Service District - Water Conservation and Meter Project

Project serves a need of a DAC?: YES

Funding Match Waiver request?: YES

Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$33,740			\$33,740
(b)	Land Purchase/Easement	\$0			\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$22,690			\$22,690
(d)	Construction/Implementation	\$232,340			\$232,340
(e)	Grand Total (Sum rows (a) through (d) for each column)	\$288,770			\$288,770

*List sources of funding: *Use as much space as required*

Table 7 – Project Budget

Proposal Title: Kings Basin Water Authority IRWM 2014 Drought Grant

Project Title: Sultana Community Service District - Water Conservation and Meter Project

Project serves a need of a DAC?: YES

Funding Match Waiver request?: YES

Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$33,760			\$33,760
(b)	Land Purchase/Easement	\$0			\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$18,030			\$18,030
(d)	Construction/Implementation	\$468,684			\$468,684
(e)	Grand Total (Sum rows (a) through (d) for each column)	\$520,474			\$520,474

*List sources of funding: *Use as much space as required*

Table 8 – Summary Budget

Proposal Title: Kings Basin Water Authority IRWM 2014 Drought Grant

Individual Project Title		(a) Requested Grant Amount	(b) Cost Share: Non-State Fund Source* (Funding Match)	(c) Cost Share: Other State Fund Source*	(d) Total Cost	(e) % Funding Match (col. b/col. d)
(a)	Consolidated Irrigation District - Adams and Academy Basin	\$4,435,109	\$0	\$0	\$4,435,109	0%
(b)	City of Fresno - Nielsen Recharge Basin	\$2,543,743	\$2,020,900	\$0	\$4,564,643	44%
(c)	Fresno Metropolitan Flood Control District - Regional Groundwater Recharge Project	\$3,508,724	\$1,169,578	\$0	\$4,678,302	25%
(d)	East Orsi Community Service District - Water Conservation and Meter Project	\$288,770	\$0	\$0	\$288,770	0%
(e)	Sultana Community Service District - Water Conservation and Meter Project	\$520,474	\$0	\$0	\$520,474	0%
(f)	Proposal Total <i>Sum rows (a) through (e) for each column</i>	\$11,296,819	\$3,190,478	\$0	\$14,487,297	
(g)	DAC Funding Match Waiver Total <i>Sum column (d) only for projects seeking a DAC funding match waive in rows (a) through (e)</i>	\$5,244,353	\$0	\$0	\$5,244,353	
(h)	Grand Total <i>Subtract row (g) from row (f) for column (d) and recalculate column (e)</i>	\$6,052,466	\$3,190,478	\$0	\$9,242,944	35%