

# Merced Integrated Regional Water Management Merced Region Drought Grant Proposal

## *Attachment 5: Budget Summary*



Attachment 5 consists of the following items:

- ✓ **Project Budget Summary**  
For each project contained in the Proposal, a project budget is provided using the format of Table 7 from the PSP.
  - ✓ **Proposal Budget Summary**  
A summary budget of each project in the proposal is provided using the format of Table 8 from the Proposal Solicitation Package
-



## Project Budget

### Highlands Groundwater Conservation Project

#### Budget Explanation

The total cost associated with the *Highlands Groundwater Conservation Project* is \$2,085,000. This cost covers completion of tasks within Budget Category (a) Direct Project Administration, Category (b) Land Purchase/Easement, Category (c) Planning / Design / Engineering / Environmental Documentation, and Category (d) Construction/Implementation. The total cost is being requested for grant funding through the IRWM Implementation Grant Program. A funding match waiver is being requested because this project directly serves the needs of a DAC (see Attachment 8). **Table 5-1** provides a detailed breakdown of the total project budget, including the portion for which grant funds are requested.

The total Category (a) amount is \$20,000. These costs are based on 300 hours for project administration and labor compliance program each and 67 hours for reporting, all of which are at a regular MID administration staffing rate of \$30.00 per hour.

The total Category (b) amount is \$130,000. Based on preliminary design, three parcels would likely be affected (056-040-096, 056-040-078, and 056-040-071). The market value of land in the Region is approximately \$30,000 per acre, excluding other legal fees and staff time. The exact location and amount of land required for the project is not known at this time because land purchase/easements will be secured at a later phase of the project.

The total Category (c) amount is \$215,000. The planning phase and conceptual design (Task 5) are completed (see **Appendix 3-1**). Based on the cost of past MID pipeline projects, design is estimated at approximately 10 percent of the total projected construction cost. The preparation of a CEQA initial study/mitigated negative declaration typically ranges from \$20,000 to \$30,000 based on past MID projects; because of the size of the project area requiring biological and cultural resources surveys, the cost is expected to be higher end of the cost range. Permitting costs are expected to take approximately 100 hours of a MID engineer's time (at a rate of \$50.48) for preparation and administration of the County of Merced Encroachment Permit.

The proposed costs under Category (d) are based on MID's analysis of the cost for this particular project (see **Appendix 5-1**) and MID's experience from past similar projects.

#### Project Budget

**Table 5-1: Project Budget – Highlands Groundwater Conservation Project**

Table 7 – Project Budget				
Proposal Title: Merced Regional Drought Grant Proposal				
Project Title: Highlands Groundwater Conservation Project				
Project serves a need of a DAC?: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Funding Match Waiver request?: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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
<i>Category (a) Direct Project Administration</i>				
Task 1	Administration	\$9,000		\$9,000



**Table 7 – Project Budget**

Proposal Title: Merced Regional Drought Grant Proposal

Project Title: Highlands Groundwater Conservation Project

Project serves a need of a DAC?: Yes No Funding Match Waiver request?: Yes No

Category		(a)	(b)	(c)	(d)
Task 2	Labor Compliance Program	\$9,000			\$9,000
Task 3	Reporting	\$2,000			\$2,000
	<b>Total Admin Cost</b>	<b>\$20,000</b>			<b>\$20,000</b>
<b>Category (b) Land Purchase/Easement</b>					
Task 4	Land Acquisition	\$130,000			\$130,000
	<b>Total Land Purchase/Easement Cost</b>	<b>\$130,000</b>			<b>\$130,000</b>
<b>Category (c) Planning/Design/Engineering/Environmental Documentation</b>					
Task 5	Assessment and Evaluation	-	-		-
Task 6	Final Design	\$180,000			\$180,000
Task 7	Environmental Documentation	\$30,000			\$30,000
Task 8	Permitting	\$5,000			\$5,000
	<b>Total Planning/Design/Engineering/ Environmental Documentation</b>	<b>\$215,000</b>			<b>\$215,000</b>
<b>Category (d) Construction/Implementation</b>					
Task 9	Construction Contracting	\$30,000			\$30,000
Task 10	Construction				
	<i>10.1 Mobilization and Site Preparation</i>	<i>\$62,800</i>			<i>\$62,800</i>
	<i>10.2 Project Construction</i>	<i>\$1,460,100</i>			<i>\$1,460,100</i>
	<i>10.3 Performance Testing and Demobilization</i>	<i>\$47,100</i>			<i>\$47,100</i>
	<b>Task 10 Construction Total</b>	<b>\$1,570,000</b>			<b>\$1,570,000</b>
Task 11	Environmental Compliance/Mitigation/ Enhancements	\$20,000			\$20,000
Task 12	Construction Administration	\$100,000			\$100,000
	<b>Total Construction/Implementation Cost</b>	<b>\$1,720,000</b>			<b>\$1,720,000</b>
(e)	<b>Grand Total (Sum rows (a) through (d) for each column)</b>	<b>\$2,085,000</b>			<b>\$2,085,000</b>

\*List Sources of funding: None.



## Cressey Recharge Basin Enlargement Project

### Budget Explanation

The total cost associated with the *Cressey Recharge Basin Project* is \$275,000, and includes the cost to complete tasks within Budget Category (a) - Direct Project Administration, Category (c) - Planning / Design / Engineering / Environmental Documentation, and Category (d) - Construction/Implementation. Of the total project cost, \$206,250 is being requested for grant funding through the IRWM Grant Program. The remaining \$68,750 would be provided by MID reserves and revenues. In total, the requested funding constitutes 75 percent of the total project cost, meaning that the non-State share of the total project cost (funding match) is 25 percent for this project. A Funding Match Waiver is not being requested. **Table 5-2** provides a detailed breakdown of the total project budget.

The total Category (a) amount is \$15,000. These costs are based on 225 hours for project administration and labor compliance program each and 50 hours for reporting, all of which are at regular MID administration staffing rate of \$30.00 per hour.

Funding is not requested for Task 4 (Land Acquisition) because land acquisition or easements are not needed as the proposed work area is owned by MID.

Grant funds are not being requested for Task 5 (Assessment and Evaluation), as the previous studies completed for the pilot project and the original recharge basin confirm both the feasibility of this project and the viability of the proposed site (see **Appendices 3-9** [Cressey pilot project], **3-10** [Cressey hydrogeologic investigation], **3-11** [original Cressey basin design], and **3-13** [description of the Cressey Recharge Basin Enlargement Project]).

The total Category (c) amount is \$70,000. Similar to the original 8-acre recharge basin project, the design of the expansion is expected to be approximately 24 percent of the total construction cost. The preparation of a CEQA IS/MND is estimated to be approximately \$20,000, based on past MID projects. Permitting costs are expected to total approximately \$5,000, which assumes approximately 100 hours for a MID engineer (at a rate of \$50.48) to prepare and administer the County of Merced Encroachment Permit.

The construction costs are informed by the original recharge project for which bids were received by submitting contractors from April 2011 (see **Appendix 5-2**). The construction for the proposed project is an expansion to the original Cressey Basin construction, which amounts to an enlargement of 40 percent of the existing basin. Therefore, the construction cost was calculated as 40 percent of the bids submitted by the contractors for the original basin.

### Project Budget

**Table 5-2: Project Budget – Cressey Recharge Basin Enlargement Project**

Table 7 – Project Budget					
Proposal Title:		Merced Region Drought Grant Proposal			
Project Title:		Cressey Recharge Basin Enlargement Project			
Project serves a need of a DAC?:		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Funding Match Waiver request?: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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
<i>Category (a) Direct Project Administration</i>					
Task1	Administration	\$5,063	\$1,687		\$6,750
Task 2	Labor Compliance Program	\$5,063	\$1,687		\$6,750



<b>Table 7 – Project Budget</b>					
<b>Proposal Title:</b> Merced Region Drought Grant Proposal					
<b>Project Title:</b> Cressey Recharge Basin Enlargement Project					
<b>Project serves a need of a DAC?:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Funding Match Waiver request?:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
<b>Category</b>		<b>(a)</b>	<b>(b)</b>	<b>(c)</b>	<b>(d)</b>
Task 3	Reporting	\$1,125	\$375		\$1,500
	<b>Total Admin Cost</b>	<b>\$11,250</b>	<b>\$3,750</b>		<b>\$15,000</b>
<b>Category (b) Land Purchase/Easement</b>					
Task 4	Land Acquisition	-	-		-
	<b>Total Land Purchase/Easement Cost</b>	<b>-</b>	<b>-</b>		<b>-</b>
<b>Category (c) Planning/Design/Engineering/Environmental Documentation</b>					
Task 5	Assessment and Evaluation	-	-		-
Task 6	Design	\$33,750	\$11,250		\$45,000
Task 7	Environmental Documentation	\$15,000	\$5,000		\$20,000
Task 8	Permitting	\$3,750	\$1,250		\$5,000
	<b>Total Planning/Design/Engineering/ Environmental Documentation</b>	<b>\$52,500</b>	<b>\$17,500</b>		<b>\$70,000</b>
<b>Category (d) Construction/Implementation</b>					
Task 9	Construction Contracting	\$1,875	\$625		\$2,500
Task 10	Construction				
	<i>10.1 Mobilization and Site Preparation</i>	<i>\$4,500</i>	<i>\$1,500</i>		<i>\$6,000</i>
	<i>10.2 Project Construction</i>	<i>\$100,388</i>	<i>\$33,462</i>		<i>\$133,850</i>
	<i>10.3 Performance Testing and Demobilization</i>	<i>\$3,375</i>	<i>\$1,125</i>		<i>\$4,500</i>
	<b>Task 10 Construction Total</b>	<b>\$112,500</b>	<b>\$37,500</b>		<b>\$144,350</b>
Task 11	Environmental Compliance/Mitigation	\$2,363	\$787		\$3,150
Task 12	Construction Administration	\$30,000	\$10,000		\$40,000
	<b>Total Construction/Implementation Cost</b>	<b>\$142,500</b>	<b>\$47,500</b>		<b>\$190,000</b>
<b>(e)</b>	<b>Grand Total (Sum rows (a) through (d) for each column)</b>	<b>\$206,250</b>	<b>\$68,750</b>		<b>\$275,000</b>
*List Sources of funding: MID Reserves and MID Revenue from agricultural farmers.					



## Water Meter Conservation Project

### Budget Explanation

The total cost associated with the *LGCS D Water Meter Conservation Project* is \$609,000. The entire amount is being requested for grant funding through the IRWM Implementation Grant Program. A funding match waiver is being requested, as this project directly serves the needs of a designated DAC. LGCS D is requesting grant funds for the tasks shown in **Table 5-3** below. **Table 5-3** also provides a more detailed breakdown of the total project budget.

The total Category (a) amount is \$8,000. These costs are based on LGCS D’s experience on similar projects to complete Task 1 (Administration), Task 2 (Labor Compliance Program), and Task 3 (Reporting) at a regular LGCS D staffing rate. The Labor Compliance Program is expected to be approximately 0.75 percent of the overall construction cost.

Funding is not requested for Category (b) Task 4 (Land Acquisition) because land acquisition or easements are not needed as the proposed work area would occur within road rights-of-way owned by the City of Le Grand.

No additional funding is needed for Category (c) Task 5 (Assessment and Evaluation) or Task 6 (Design) as all the preliminary studies and final design has been completed. Because design work under Tasks 5 Task 6 was completed in 2011, these costs were incurred prior to the drought and do not qualified for funding requested. Task 5 (Permitting) is for the preparation and administration of the encroachment permit. The project is shovel-ready as a result of completion of design. The proposed cost of Task 7 (Environmental Documentation) is based on LGCS D’s experience in preparing and filing a CEQA Notice of Exemption. The proposed cost of Task 8 (Permitting) is based on LGCS D’s experience in preparing and administering encroachment permits.

Category (d) Task 10 (Construction) costs are based on the engineer’s estimate (see **Appendix 5-3**). The proposed costs for Task 9 (Construction Contracting) and Task 12 (Construction Administration) are based on LGCS D’s experience on other projects.

### Project Budget

**Table 5-3: Project Budget –Water Meter Conservation Project**

Table 7 – Project Budget					
Proposal Title: Merced Region Drought Grant Proposal					
Project Title: Water Meter Conservation Project					
Project serves a need of a DAC?: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Funding Match Waiver request?: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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
<b>Category (a) Direct Project Administration</b>					
Task 1	Administration	\$2,000	-		\$2,000
Task 2	Labor Compliance Program	\$4,500	-		\$4,500
Task 3	Reporting	\$1,500	-		\$1,500
	<b>Total Admin Cost</b>	<b>\$8,000</b>	-		<b>\$8,000</b>



<b>Table 7 – Project Budget</b>				
Proposal Title: Merced Region Drought Grant Proposal				
Project Title: Water Meter Conservation Project				
Project serves a need of a DAC?: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Funding Match Waiver request?: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Category	(a)	(b)	(c)	(d)
<b>Category (b) Land Purchase/Easement</b>				
Task 4	Land Acquisition	-	-	-
	<b>Total Land Purchase/Easement Cost</b>	-	-	-
<b>Category (c) Planning/Design/Engineering/Environmental Documentation</b>				
Task 5	Assessment and Evaluation	-	-	-
Task 6	Design	-	-	-
Task 7	Environmental Documentation	-	-	-
Task 8	Permitting	\$1,000	-	\$1,000
	<b>Total Planning/Design/Engineering/Environmental Documentation</b>	<b>\$1,000</b>	-	<b>\$1,000</b>
<b>(d) Construction/Implementation</b>				
Task 9	Construction Contracting	\$12,500		\$12,500
Task 10	Construction			
	<i>10.1 Mobilization and Site Preparation</i>	<i>\$23,240</i>		<i>\$23,240</i>
	<i>10.2 Project Construction</i>	<i>\$540,330</i>		<i>\$540,330</i>
	<i>10.3 Performance Testing and Demobilization</i>	<i>\$17,430</i>		<i>\$17,430</i>
	<b>Task 10 Construction Total</b>	<b>\$581,000</b>		<b>\$581,000</b>
Task 11	Environmental Compliance/Mitigation	-	-	-
Task 12	Construction Administration	\$6,500	-	\$6,500
	<b>Total Construction/Implementation Cost</b>	<b>\$600,000</b>	-	<b>\$600,000</b>
(e)	<b>Grand Total (Sum rows (a) through (d) for each column)</b>	<b>\$609,000</b>	-	<b>\$609,000</b>
*List Sources of funding: None.				



## Proposal Budget Summary

**Table 5-4** shows a summary of the budget for the entire proposal and presents the proposed funding match for each project within the proposal.

As noted below and detailed in Attachment 8, Funding Match Waivers are being requested for the following projects, which directly serve the water supply needs of DACs:

- Highlands Groundwater Conservation Project
- Water Meter Conservation Project

As described in Attachment 3, the Merced Region Drought Grant Proposal involves implementation of three high priority projects to meet the region's water management needs. The total cost to implement this proposal is \$2,969,000. Of this amount, \$2,900,250 (97.7%) is being requested grant funding from the IRWM Grant Program and \$68,750 (2.3%) is provided as funding match by the local agencies.

**Table 5-4: Summary Budget for the Merced IRWM Region Drought Grant Proposal**

Table 8 – Summary Budget						
Proposal Title: Merced Region Drought Grant Proposal						
Individual Project Title		(a)	(b)	(c)	(d)	(e)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost	% Funding Match (Col b/Col d)
(a)	Highlands Groundwater Conservation Project	\$2,085,000	-	-	\$2,085,000	0.0%
(b)	Cressey Recharge Basin Enlargement Project	\$206,250	\$68,750	-	\$275,000	25.0%
(c)	Water Meter Conservation Project	\$609,000	-	-	\$609,000	0.0%
(e)	Proposal Total	\$2,900,250	\$68,750	-	\$2,969,000	2.3%
(f)	DAC Funding Match* Waiver Total	-	-	-	\$2,694,000	0.0%
(g)	Grand Total	\$206,250	\$68,750	-	\$275,000	25.0%

\* See Attachment 8 for a detailed discussion of the DAC Funding Match Waiver.

# Merced Integrated Regional Water Management Drought Grant Proposal



## Appendices 5-1 to 5-3

<b>App. #</b>	<b>Document Title</b>
App. 5-1	Highlands Groundwater Conservation Project Engineer Cost Estimate
App. 5-2	Original Cressey Recharge Basin Bid Summary
App. 5-3	Le Grand CSD Water Meter Project Probable Construction Cost Estimate

# **Merced Integrated Regional Water Management Implementation Grant Proposal**



## Appendix 5-1

### Highlands Groundwater Conservation Project Engineer Cost Estimate

## Highlands #2 Alternative 1

ITEM	QUANTITY	Unit	Unit Price	Total Cost
Mobilization, 4% of sub-totals	1	LS	\$67,147	\$64,564
<b>System Upgrades</b>				
<i>Booster 32 Upgrade</i>				
1. Pump	1	EA	\$30,000	\$30,000
Tie-in Piping and Wiring	1	EA	\$10,000	\$10,000
Variable Frequency Drive	1	EA	\$50,000	\$50,000
<i>Replaced Existing Pipe</i>				
2. 27" Pipe and Installation	6,800	LF	\$70	\$476,000
<i>Road Crossings</i>				
3. Pipe Installation	160	LF	\$235	\$37,600
Inlet Structure	4	EA	\$20,000	\$80,000
Outlet Structure	4	EA	\$20,000	\$80,000
Road Restoration	4	LS	\$5,000	\$20,000
Sub-Total:				\$0
<i>New Pipe</i>				
4. 27" Pipe and Installation	4,000	LF	\$70	\$280,000
<i>Tie-in</i>				
5. Pressure Boxes	10	EA	\$20,000	\$200,000
<i>Booster 40 Modification</i>				
Modify pump station for spill and recorder	1	EA	\$30,000	\$30,000
<i>Misc</i>				
ROW Acquisition	3	EA	\$43,500	\$130,500
SCADA Upgrades	1	EA	\$100,000	\$100,000
Well Tie Ins	7	EA	\$10,000	\$70,000
SWPPP Plan and Measures	1	EA	\$20,000	\$20,000
<b>Sub-Total</b>				<b>\$1,678,664</b>
<b>Contingency, 20% of mobilization + sub-totals</b>				<b>\$335,733</b>
<b>Total Estimated Construction Cost</b>				<b>\$1,743,228</b>

# **Merced Integrated Regional Water Management Implementation Grant Proposal**



Appendix 5-2

Original Cressey Recharge Basin Bid Summary

Cressey Groundwater Recharge Basin Enlargement Project  
for the  
Merced Irrigation District  
**Bid Summary**  
Bids Received April 15, 2011

**Original Cressey Recharge Basin Bid Summary**

	<b>CONTRACTOR</b>	<b>TOTAL BASE BID</b>
<b>1</b>	Mid Cal Pipeline & Utilities, Inc.	\$163,175.00
<b>2</b>	Viking General Contractor	\$270,001.06
<b>3</b>	DC Grading and Paving	\$297,127.00
<b>4</b>	Greg Opinski Construction	\$309,396.80
<b>5</b>	Teichert	\$329,575.00
<b>6</b>	Syblon Reid	\$521,180.00
	Engineer's Estimate	\$250,000.00

Cressey Groundwater Recharge Basin (V44.04)  
for the  
Merced Irrigation District  
**Bid Tabulation**

ITEM	DESCRIPTION	QUANTITY	UNITS	Mid Cal Pipeline & Utilities, Inc.		Viking General Contractor		DC Grading and Paving		Greg Opinski Construction		Teichert		Syblon Reid	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
1	Mobilization	1	LS	\$1,500.00	\$1,500.00	\$28,000.00	\$28,000.00	\$17,243.00	\$17,243.00	\$1,650.00	\$1,650.00	\$32,000.00	\$32,000.00	\$50,000.00	\$50,000.00
2	SWPPP	1	LS	\$9,400.00	\$9,400.00	\$1,500.00	\$1,500.00	\$7,200.00	\$7,200.00	\$7,793.00	\$7,793.00	\$2,000.00	\$2,000.00	\$10,000.00	\$10,000.00
3	Earthwork	1	LS	\$100,700.00	\$100,700.00	\$200,000.00	\$200,000.00	\$215,400.00	\$215,400.00	\$223,795.00	\$223,795.00	\$246,000.00	\$246,000.00	\$342,000.00	\$342,000.00
4	Demolition	1	LS	\$4,000.00	\$4,000.00	\$500.00	\$500.00	\$4,000.00	\$4,000.00	\$800.00	\$800.00	\$2,000.00	\$2,000.00	\$5,000.00	\$5,000.00
5	Chain link fence	3806	LF	\$12.50	\$47,575.00	\$10.51	\$40,001.06	\$14.00	\$53,284.00	\$19.80	\$75,358.80	\$12.50	\$47,575.00	\$30.00	\$114,180.00
<b>TOTAL BASE BID</b>					<b>\$163,175.00</b>		<b>\$270,001.06</b>		<b>\$297,127.00</b>		<b>\$309,396.80</b>		<b>\$329,575.00</b>		<b>\$521,180.00</b>

ITEM	DESCRIPTION	Contractors' Average TOTAL PRICE	Engineer's Estimate
1	Mobilization	\$21,732.17	
2	SWPPP	\$6,315.50	
3	Earthwork	\$221,315.83	
4	Demolition	\$2,716.67	
5	Chain link fence	\$62,995.64	
		<b>\$315,075.81</b>	<b>\$250,000.00</b>

# **Merced Integrated Regional Water Management Implementation Grant Proposal**



## Appendix 5-3

### LGCSD Water Meter Project Probable Construction Cost Estimate

**PROBABLE CONSTRUCTION COST ESTIMATE**Water Meter Project  
Le Grand CSD  
Le Grand, CAJob No. L002-2011A  
FP&P Engineering  
2816 Park Avenue  
Merced, CA 95348

ITEM	QUANTITY		DESCRIPTION	UNIT PRICE	AMOUNT
<b>SITE IMPROVEMENTS</b>					
1	1	LS	MOBILIZATION	\$12,000.00	\$12,000
2	1	LS	DEMOLITION & REMOVAL	\$15,000.00	\$15,000
3	525	EA	NEW METER AND TRANSMITTER EQUIPMENT	\$335.00	\$175,875
4	1	LS	NEW RADIO READ EQUIPMENT, SOFTWARE & ON-SITE TRAINING	\$15,000.00	\$15,000
5	525	EA	NEW METER INSTALLATION	\$215.00	\$112,875
6	500	EA	METER BOX RELOCATION	\$375.00	\$187,500
7	25	EA	NEW CONCRETE METER BOX & INSTALLATION	\$300.00	\$7,500
8	25	EA	NEW COMPOSITE CONCRETE METER BOX LID & INSTALLATION	\$75.00	\$1,875
<b>SUBTOTAL COST OF IMPROVEMENTS</b>					\$527,630
<b>Contingency 10%</b>					\$52,763
<b>TOTAL OF IMPROVEMENTS</b>					<b>\$580,393</b>

Date: 5/15/2014