

Attachment
4 **Greater Los Angeles County Region**
IRWM Implementation Grant Proposal
Budget Summary

Attachment 4: Budget Summary of the *Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal* (Proposal) is divided into two sub-sections:

- **Proposal Budget Table:** Provides a summary and budget table for the entire Proposal as a compilation of individual project budgets.
- **Project Budget Table:** Provides a budget table for each project followed by language that provides a justification of the costs included in the table.

Please note that for many of the budget categories shown in each budget table, there may be several tasks and sub-tasks. The budget tables also present the proposed funding match for each project within the Proposal, including information that describes how each project will contribute to the Proposal’s 59% funding match. The Proposal as a whole far exceeds the Department of Water Resources (DWR) funding match criteria of 25%.

Proposal Budget Summary

The Proposal involves implementation of 20 projects to meet the Region’s water management needs. The total cost of the projects within the Proposal is \$82,602,261.03. Of this amount, \$33,342,154.40 is being requested from DWR through the IRWM Grant Program, \$49,110,105.64 (59% percent) is being provided through non-State funding sources (funding match), and \$150,000.00 is being provided through other State funds. A Disadvantaged Community (DAC) funding match waiver of \$6,546,128.27 is being requested for two projects: the Gateway Cities Regional Recycled Water System Expansion Project and the Water LA Neighborhood Retrofits Project.

The following **Proposal Budget Table** (*which corresponds to Table 9 in the PSP*) presents the overall cost of the Proposal implementation. Detailed cost estimates for each project contained in Project Budget Summary subsection.

Proposal Budget (Table 9 in PSP)

Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>						
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)	1:Franklin D. Roosevelt Park Regional BMP Project	\$2,130,000.00	\$2,432,814.00	\$0.00	\$4,562,814.00	53%
(b)	2: Advanced Water Meter Replacement Project	\$1,592,500.00	\$757,730.00	\$0.00	\$2,350,230.00	32%

Budget Summary

Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>						
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
(c)	3: Gateway Cities Regional Recycled Water System Expansion Project	\$920,810.70	\$125,332.57	\$0.00	\$1,046,143.27	12%
(d)	4: Paramount Blvd. Turf Replacement Project	\$1,000,000.00	\$1,027,418.00	\$0.00	\$2,027,418.00	51%
(e)	5: Las Virgenes Creek Restoration Project - Phase II	\$1,129,620.00	\$550,613.00	\$0.00	\$1,680,233.00	33%
(f)	6: Las Virgenes -Calleguas Municipal Water Districts Interconnection Project	\$2,511,001.00	\$6,696,393.42	\$0.00	\$9,207,394.42	73%
(g)	7: Comprehensive Water Conservation Project	\$1,346,383.00	\$827,207.58	\$0.00	\$2,173,590.58	38%
(h)	8: Urban Streams Restoration in the Malibu Creek Watershed	\$489,717.00	\$192,139.12	\$0.00	\$681,856.12	28%
(i)	9: Inglewood New Well No. 7	\$1,500,000.00	\$507,139.10	\$0.00	\$2,007,139.10	25%
(j)	10: Recycled Water Supply for Palos Verdes Golf Course	\$2,600,000.00	\$6,685,291.23	\$0.00	\$9,285,291.23	72%
(k)	11: North Torrance Well Field Project, Phase III	\$3,900,000.00	\$14,175,442.00	\$0.00	\$18,075,442.00	78%
(l)	12: Upper Los Angeles River Big Tujunga Restoration Arundo Eradication Project	\$880,456.40	\$1,199,832.15	\$150,000.00	\$2,230,288.55	54%
(m)	13: Crescenta Valley Water District Nitrate Removal Treatment Facility at Well 2 Project	\$1,087,500.00	\$728,058.50	\$0.00	\$1,815,558.50	40%
(n)	14: Hoover, Toll, & Keppel School Recycled Water Project	\$1,875,000.00	\$720,489.73	\$0.00	\$2,595,489.73	28%
(o)	15: Lopez Spreading Grounds Improvement	\$2,000,000.00	\$4,104,499.71	\$0.00	\$6,104,499.71	67%
(p)	16: Big Dalton Spreading Grounds Improvement Project	\$2,000,000.00	\$2,333,722.96	\$0.00	\$4,333,722.96	54%
(q)	17: Live Oak Well VOC Treatment	\$1,500,000.00	\$1,946,495.00	\$0.00	\$3,446,495.00	56%
(r)	18: Centralized Ground-water Treatment System	\$4,500,000.00	\$3,491,725.13	\$0.00	\$7,991,725.13	44%

Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>						
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
(s)	19: Southeast Water Efficiency Program	\$1,300,000.00	\$733,095.00	\$0.00	\$2,033,095.00	36%
(t)	20: Water LA Neighborhood Retrofits	\$1,000,000.00	\$3,499,985.00	\$1,000,000.00	\$5,499,985.00	64%
(u)	Proposal Total	\$35,262,988.10	\$52,735,423.20	\$1,150,000.00	\$89,148,411.30	59%
(v)	DAC Funding Match Waiver Total	-	-	-	\$6,546,128.27	-
(w)	Grand Total	-	-	-	\$82,602,283.03	64%

Project Budget Summary

This section provides 20 **Project Budget Tables** (which correspond to Table 8 in the PSP) for each of the projects included within this Proposal followed by a task by task justification of how the budget items were estimated based on current available information. The specific work items outlined in Attachment 3 are reflected in the detailed cost estimates.

Franklin D. Roosevelt Park Regional BMP Project

Budget

Project 1: Franklin D. Roosevelt Park Regional Best Management Practices (BMP) Project (Project)
Implementing Agency: County of Los Angeles, Department of Public Works (LACDPW)

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Franklin D. Roosevelt Park Regional BMP Project</u>					
Project serves a need of a DAC?: Yes					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$0.00	\$317,187.00	\$0.00	\$317,187.00
2	Labor Compliance Program	\$0.00	\$54,000.00	\$0.00	\$54,000.00
3	Reporting	\$0.00	\$7,140.00	\$0.00	\$7,140.00
Category (a) subtotal		\$0.00	\$378,327.00	\$0.00	\$378,327.00
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$24,811.00	\$0.00	\$24,811.00
6	CEQA Documentation	\$0.00	\$299,988.00	\$0.00	\$299,988.00
7	Permitting	\$0.00	\$0.00	\$0.00	\$0.00
8	Design	\$0.00	\$504,764.00	\$0.00	\$504,764.00
9	Project Performance Monitoring Plan	\$0.00	\$54,936.00	\$0.00	\$54,936.00
Category (c) subtotal		\$0.00	\$884,499.00	\$0.00	\$884,499.00
Category (d): Construction/ Implementation					
10	Contracting Services	\$0.00	\$20,010.00	\$0.00	\$20,010.00
11	Construction Administration	\$0.00	\$279,978.00	\$0.00	\$279,978.00
12	Construction				
12.1	Mobilization	\$0.00	\$100,000.00	\$0.00	\$100,000.00
12.2	Infiltration Basins	\$2,002,000.00	\$298,000.00	\$0.00	\$2,300,000.00
12.3	Re-vegetation, Bio-swales and Other Park Improvements	\$128,000.00	\$372,000.00	\$0.00	\$500,000.00
12.4	Demobilization	\$0.00	\$100,000.00	\$0.00	\$100,000.00
Category (d) subtotal		\$2,130,000.00	\$1,169,988.00	\$0.00	\$3,299,988.00
Grand Total		\$2,130,000.00	\$2,432,814.00	\$0.00	\$4,562,814.00
*List sources of funding:					
The entire cost share will come from the Los Angeles County Unincorporated Area Stormwater Program Fund					

Franklin D. Roosevelt Park Regional BMP Project**Budget**

The budget presented in the table above is considered reasonable based on current available information. The justification for each category of budget presented is provided below:

(a) Direct Project Administration**Task 1: Project Management**

The project management cost of \$317,187 includes a cost of \$16,083 for grant application preparation determined from the consultant's fee estimate and a cost of \$53,250 for grant administration calculated as 2.5% of the grant request for this project. Additional project management costs related to invoicing and general coordination with Los Angeles County Flood Control District (LACFCD) are estimated as requiring approximately 1,823 hours of a LACDPW Civil Engineer Assistant's time at \$102/hour and 469 hours of an Associate Engineer's time at \$132/hour. Hourly estimates are based on experience with similar projects such as the Sun Valley Watershed – Sun Valley Park Drain and Infiltration System Project, completed in 2007 (Sun Valley Project).

Task 2: Labor Compliance Program

LACDPW already has a Labor Compliance Program in place so will not incur any costs to prepare the program. The \$54,000 cost to implement the program is based on previous experience with similar projects and was estimated using a monthly cost of \$ 3,000.00/month for the 18-month duration of construction

Task 3: Reporting

Estimates for reporting activities were based on the LACDPW average labor rate for a Civil Engineer Assistant of \$102/hour and an estimated 70 hours to complete the task over the 3.5 year duration from the award of the grant to the submission of the Final Project Report, based on previous experience from the Sun Valley Project.

(b) Land Purchase/Easement**Task 4: Land Purchase**

No land purchase is required for the Project, so no costs are included for this task.

(c) Planning/Design/Engineering/Environmental Documentation**Task 5: Feasibility Studies**

The total cost of \$24,811 for this task is based on the actual cost to complete the Geotechnical Investigation Report in 2013. These activities included a literature review, soil borings, infiltration testing, geotechnical and environmental laboratory testing, data analysis and evaluation, and preparation of a final geotechnical report that summarizes the analysis.

Task 6: CEQA Documentation

Costs to conduct the initial study, prepare and circulate a draft Mitigated Negative Declaration (MND), respond to comments, prepare a final MND and file the Notice of Declaration are assumed to require approximately 2,206 hours for a LACDPW Civil Engineer Assistant at \$102/hour and 568 hours for an Associate Engineer at \$132/hour. Hourly estimates are based on experience with similar projects such as the Sun Valley Project.

Task 7: Permitting

No permitting is expected for the Project, so no costs are included for this task.

Task 8: Design

The \$504,764 cost for the Design task is based off a combination of actual costs and estimated costs. The Preliminary Design Concept was completed in 2013 and cost \$86,887. The Project is currently in the 30% design stage which is expected to cost \$117,877 based on the engineering estimate. Once the Final Design is awarded, it is expected to cost

Franklin D. Roosevelt Park Regional BMP Project

Budget

approximately \$270,000 and \$30,000 for the 90% and 100% Design, respectively, based on previous project experience.

Task 9: Project Performance Monitoring Plan

The cost of \$54,936 to prepare the Project Performance Monitoring Plan is based on previous project experience to complete a monitoring plan for the Sun Valley Project. The estimate assumes 404 hours at \$102/hour for a Civil Engineer Assistant and 104 hours for an Associate Engineer at \$132/hour for review and supervision.

(d) Construction/Implementation**Task 10: Contracting Services**

The \$20,010 cost estimate for developing the bid package, preparing the advertisement and contractor documents, and selecting and awarding the contract is based off costs incurred for other projects including the Sun Valley Project. The estimate assumes 147 hours at \$102/hour for a Civil Engineer Assistant and 38 hours for an Associate Engineer at \$132/hour. The combined Contracting Services and Construction Administration costs for Tasks 10 and 11 were estimated at approximately 10% of the total construction cost.

Task 11: Construction Administration

The estimated cost of \$279,978 for construction administration is based on previous project experience while constructing the infiltration system for the Sun Valley Project. The estimate assumes approximately 2,059 hours for a LACDPW Civil Engineer Assistant at \$102/hour and 530 hours for an Associate Engineer at \$132/hour. The combined Contracting Services and Construction Administration costs for Tasks 10 and 11 were estimated at approximately 10% of the total construction cost.

Task 12: Construction

Subtask 12.1: Mobilization and Site Preparation – Mobilization and demobilization combined are estimated at approximately 10% of the cost to construct the infiltration basins for a Project of this size. Mobilization costs are estimated at approximately half this estimate at \$100,000.

Subtask 12.2: Infiltration Basins – The Infiltration Basins Subtask cost of \$2,300,000.00 includes equipment, materials, and labor costs of \$192,000 for the diversion piping, \$80,000 for the special diversion structure, \$20,000 for shoring of open excavations, and \$1,500,000 for the infiltration basins (including the cost of geotextiles), and \$50,000 for implementing the Storm Water Pollution Prevention Plan. The cost also includes the equipment costs of three pre-treatment filtration units at \$40,000 a piece, six flow meters at \$5,000 a piece, and one catch basin at \$10,000. All costs were estimated using experience from similar projects. A budget of \$298,000 for contingency is also included in this subtask, calculated as 11% of the total project construction costs based off previous project experience.

Subtask 12.3: Re-vegetation, Bioswales and Other Park Improvements – The total cost for this subtask of \$500,000 includes materials and labor costs of \$150,000 for re-vegetation of the Project area after the infiltration basins are installed, \$250,000 for the materials and labor to install the bio-swales, and \$100,000 for other low impact development (LID) features and park improvements include tree planting, walkway improvements using permeable granite, and interpretive signage to explain the stormwater BMPs. These costs are from a 2015 cost estimate performed by the LACDPW Design Engineer using experience from similar projects.

Subtask 12.3: Demobilization – Mobilization and demobilization combined are estimated at approximately 10% of the cost to construct the infiltration basins for a Project of this size. Demobilization costs are estimated at approximately half this estimate at \$100,000.

Advanced Water Meter Replacement Project

Budget

Project 2: Advanced Water Meter Replacement Project (Project)

Implementing Agency: Gateway Water Management Agency (GWMA)

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant</u>					
Project Title: <u>Advanced Water Meter Replacement Project</u>					
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	
Category (a) Direct Project Administration					
1	Project Management	\$50,000.00	\$18,900.00	\$0.00	\$68,900.00
2	Labor Compliance Program	\$0.00	\$10,010.00	\$0.00	\$10,010.00
3	Reporting	\$0.00	\$11,700.00	\$0.00	\$11,700.00
Category (a) subtotal		\$50,000.00	\$40,610.00	\$0.00	\$90,610.00
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$0.00	\$0.00	\$0.00
6	CEQA Documentation	\$0.00	\$6,500.00	\$0.00	\$6,500.00
7	Permitting	\$0.00	\$0.00	\$0.00	\$0.00
8	Design	\$0.00	\$0.00	\$0.00	\$0.00
9	Project Performance Monitoring Plan	\$0.00	\$9,100.00	\$0.00	\$9,100.00
Category (c) subtotal		\$0.00	\$15,600.00	\$0.00	\$15,600.00
Category (d): Construction/ Implementation					
10	Contracting Services	\$0.00	\$6,500.00	\$0.00	\$6,500.00
11	Construction Administration	\$0.00	\$29,055.00	\$0.00	\$29,055.00
12	Construction				
12.1	Develop AMR Installation Plan	\$1,300.00	\$0.00	\$0.00	\$1,300.00
12.2	Equipment	\$1,513,000.00	\$190,412.00	\$0.00	\$1,703,412.00
12.3	Installation and Testing	\$28,200.00	\$435,740.00	\$0.00	\$463,940.00
Category (d) subtotal		\$1,542,500.00	\$661,707.00	\$0.00	\$2,204,207.00
Grand Total		\$1,592,500.00	\$717,917.00	\$0.00	\$2,310,417.00

***List sources of funding:** Each of the 12 participating agencies will contribute a minimum 25% cost share from the Agency’s public works or general fund accounts. The cities of Bellflower, Cerritos, Commerce, Downey, Norwalk, Pico Rivera, Pico Water District, South Gate, Vernon, and Whittier will each contribute a local match of \$43,791.70. The City of Lakewood and Long Beach Water Agency will each contribute a local match of \$140,000.00.

Advanced Water Meter Replacement Project**Budget**

The budget presented in the table above is considered reasonable based on current available information. The total budget for the Advanced Water Meter Replacement Project (Project) is \$2,310,417. The \$1,592,500 in requested grant funds would amount to 68% of total Project costs, with the remainder 32% funded by the 12 participating agencies through local contribution. Grant dollars are budgeted for Project implementation, and cost-share dollars are budgeted for administration, environmental, monitoring, contracting, and implementation. Each agency will monitor the system to ensure that the customers have repaired the identified leaks. The justification for each category of budget presented is provided below.

(a) Direct Project Administration

Task 1: Project Management – GWMA will provide overall Project Management including technical, administrative, and reporting assistance, as necessary. This task includes management of the 12 participating agencies, reviewing work products, and coordinating with local contractors for the implementation of this Project. The budget for this task was derived from a project manager's hourly wage of \$100 with approximately 189 hours required for a total of \$18,900 for management and coordination. Project management also includes reimbursement of the GWMA administration fee, grant application preparation fee by the consultant, and grant administration costs which totals to \$50,000. The total budget for this Project Management task is \$68,900.

Task 2: Labor Compliance Program – The participating agencies current have ongoing Labor Compliance Programs in place, and therefore, will not incur any costs to develop a program. Most installations can be done by the agency staff. If a vendor is used, they will follow any prevailing wage requirements. The budget includes \$10,010 to cover any work and costs associated with reporting and other requirements, as necessary. This task is estimated to require approximately 154 hours at an hourly wage of \$65 for the staff and vendor to complete all documents necessary for compliance.

Task 3: Reporting – Reporting costs of \$11,700 were calculated based on time the administrative staff will spend to complete the Quarterly Progress and Final Completion Reports based on previous experience with similar projects, such as the DWR Prop 84 Gateway IRWMP Planning Grant. The project staff's average hourly wage is \$65 with approximately 180 hours required for the development of the reports.

(b) Land Purchase/Easement

Task 4: Land Purchase/Easement – This Project does not require purchase of land; therefore, no budget is allocated for this task.

(c) Planning/Design/Engineering/ Environmental Documentation

Task 5: Feasibility Studies – This Project is the continuation of a successful program that GWMA is currently executing. Therefore, feasibility studies and reports were not needed for implementation of this Project.

Task 6: CEQA Documentation – In order to complete and file a Categorical Exemption, the administrative staff will require approximately 100 hours with an average hourly wage of \$65 for a total of \$6,500 required to complete this task. This estimate was based on previous experience with similar projects.

Task 7: Permitting – Since the AMR units will be replacing existing water meters on Agency property, permits will not be required. Therefore, there are not any costs associated with this task.

Task 8: Design – This Project will not require any design tasks as it will be installing new meters in the place of existing meters. Therefore, no budget has been allocated to this task.

Advanced Water Meter Replacement Project**Budget**

Task 9: Project Performance Monitoring Plan – The monitoring plan will require approximately 91 hours for the staff engineer at an hourly wage of \$100. The total cost for preparing the plan is \$9,100 based on prior experience.

(d) Construction/Implementation

Task 10: Contract Services – It is anticipated that GWMA will contract with local contractors and vendors to complete the water meter replacement work. In order to develop the contracts that will be necessary for the Project, the project staff will require approximately 100 hours at an average hourly rate of \$65. The total budget of \$6,500 was based on similar prior experiences, such as the USBR WaterSMART grant.

Task 11: Implementation Administration – The budget for this task was based on the amount of hours required for a Senior Field Technician to report and monitor the implementation work done by the contractor. This will require 447 hours at an hourly rate of \$65 for a total of \$29,055.

Task 12: Implementation – This task will consist of the entire breadth of installing the AMR units including the initial plan preparation, the procurement of the AMR units and equipment, and installation and testing of the units. Leak detection and repair are also included here but require no budget. The total budget for this task is described below.

Subtask 12.1: Installation Plan Preparation – The Senior Field Technician will prepare an installation plan for the work to be done by the contractor. The Senior Field Technician will require approximately 20 hours at an hourly rate of \$65 for a total of \$1,300. This estimate was based on previous experience.

Subtask 12.2: Equipment – Based on the pilot program, the AMR units will cost \$236.82 per unit. This Project requires the installation of 6,600 units for a total cost of \$1,563,012. Hand tools and equipment, such as wrenches, weed eaters, clippers, pipe cutters, shovels, picks and any other specialized tools will be needed by field teams and field supervisors. Based on previous experience, each of the 12 Agencies has an allotment of approximately \$2,700 to purchase these hand tools, which totals to \$32,400. Vehicles will be needed for the Senior Field Technician and field installation teams to bring equipment to and from the worksites. The number of rented vehicles will depend upon agreements and arrangements between GWMA and each of the agencies for carrying out the work. Previously, the rental rate for the trucks has been at \$0.60 per mile at an average daily travel of 160 miles per working day. It is estimated that the trucks will be rented for approximately 9,000 hours in order to implement the Project ($[9,000 \text{ hours}/8 \text{ hours per day}] \times 160 \text{ miles per day} \times \$0.60 \text{ per mile} = \$108,000$).

Subtask 12.3: Installation and Leak Repair – In order to install the units and validate the system functionality, a Senior Field Technician will be required to work approximately 3,980 hours at an hourly wage of \$65 and the Field Technician will be required to work approximately 5,001 hours at an hourly wage of \$40. Installation costs were constrained with a practical and reasonable requirement that a team of two workmen should average between 1.25 – 1.5 meter installations per hour over the course of the Project. There are no additional hours assumed for leak detection and repair since any time spent will be integrated into existing participating agency staff hours for managing and maintaining the system. Any costs and labor associated with leak repairs conducted by customers are also not applicable. An additional \$5,200 was included in the cost-share as contingency for this Project. The budget for this task was based on research completed for the pilot program.

Gateway Cities Regional Recycled Water System Expansion Project

Budget Summary

Project 3: Gateway Cities Regional Recycled Water System Expansion Project (Project)
Implementing Agency: City of South Gate (City)

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Gateway Cities Regional Recycled Water System Expansion Project</u>					
Project serves a need of a DAC?: Yes					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$90,970.20	\$33,128.07	\$0.00	\$124,098.27
2	Labor Compliance Program	\$0.00	\$0.00	\$0.00	\$0.00
3	Reporting	\$16,191.00	\$1,799.00	\$0.00	\$17,990.00
Category (a) subtotal		\$107,161.20	\$34,927.07	\$0.00	\$142,088.27
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$157,288.50	\$17,476.50	\$0.00	\$174,765.00
6	CEQA Documentation	\$91,989.00	\$10,221.00	\$0.00	\$102,210.00
7	Permitting	\$27,427.50	\$3,047.50	\$0.00	\$30,475.00
8	Design	\$536,944.50	\$59,660.50	\$0.00	\$596,605.00
9	Project Performance Monitoring Plan	\$0.00	\$0.00	\$0.00	\$0.00
Category (c) subtotal		\$813,649.50	\$90,405.50	\$0.00	\$904,055.00
Category (d): Construction/ Implementation					
10	Contracting Services	\$0.00	\$0.00	\$0.00	\$0.00
11	Construction Administration	\$0.00	\$0.00	\$0.00	\$0.00
12	Construction				
12.1	Mobilization and Site Preparation	\$0.00	\$0.00	\$0.00	\$0.00
12.2	Creek Restoration	\$0.00	\$0.00	\$0.00	\$0.00
12.3	Demobilization	\$0.00	\$0.00	\$0.00	\$0.00
Category (d) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Grand Total		\$920,810.70	\$125,332.57	\$0.00	\$1,046,143.27
<i>*List sources of funding: Central Basin Municipal Water District, Reserve Fund</i>					

Gateway Cities Regional Recycled Water System Expansion Project**Budget Summary**

The City of South Gate, in partnership with the City of Bell Gardens, the City of Lynwood, and the Central Basin Municipal Water District (CBMWD), is preparing planning, design, and environmental documentation for pipelines that will extend the CBMWD recycled water system. The Project¹ includes a California Environmental Quality Act (CEQA) analysis and the development of plans, specifications, and cost estimates for the construction of the recycled water pipelines. The proponent does not intend to fund construction activities with this grant solicitation.

The budget presented in the table above is considered reasonable based on current available information. The justification for each category of budget presented is provided below. The following City staff disciplines and average hourly wages were used to estimate the budget for the activities below: Principal Engineer (PE) at \$235.00/hour, Senior Engineer (SrE) at \$180.00/hour, Staff Engineer (SE) at \$150.00/hour, Clerical (CLR) at \$65.00/hour, Analyst (ANL) at \$120.00/hour, Technician (TEC) at \$120.00/hour, and a Junior Engineer (JrE) at \$115.00/hour.

(a) Direct Project Administration**Task 1: Project Management**

The \$124,098.27 budget for project management includes time and labor based on an estimated 165 hours for a PE, 180 hours for a SrE, 67 hours for a SE and 58 hours for a CLR using experience with similar recycled water pipeline projects as a basis. The budget also includes the cost for a consultant to prepare the grant application (\$16,083) and the costs for the Los Angeles County Flood Control District (LACFCD) to perform grant administration for the Project, calculated as 2.5% of the grant request amount (\$23,020).

Task 2: Labor Compliance Program

No Labor Compliance Program is required for the Project.

Task 3: Reporting

The \$17,990.00 budget for reporting includes time and labor based on an estimated 40 hours for a SrE, 46 hours for a CLR and 65 hours for an ANL.

(b) Land Purchase/Easement**Task 4: Land Purchase**

No Land Purchase is required for the Project. No right-of-way acquisition will be required.

(c) Planning/Design/Engineering/Environmental Documentation**Task 5: Feasibility Studies**

The \$174,765.00 budget to complete the Feasibility Study/Basis of Design Report is based on an estimated 160 hours for a PE, 350 hours for a SrE, 250 hours for a SE, 121 hours for a CLR, and 200 hours for an ANL. This task also includes a lump sum budget of \$4,800 for the consultant who completed the technical memorandum entitled, *"Determination of Irrigation Water Demand for Facilities to be Served with Recycled (Title 22) Water in the Cities of Bell Gardens, Lynwood, and South Gate."*

¹ For the purposes of this grant application, the term "Project" is used to refer to the design and environmental work that is seeking funding under the Proposition 84, Final Solicitation Round. The term "Construction Project" is used to refer to the construction phase, which will occur later and is not seeking funding under this round.

Task 6: CEQA Documentation

The \$102,210.00 budget for the management of CEQA documentation is based on 79 hours for a PE, 201 hours for a SrE, 330 hours for an ANL, and 121 hours for a CLR.

Task 7: Permitting

The \$30,475.00 budget is based on 40 hours for a PE for management, 122 hours for an ANL for process applications, and 99 hours for a CLR for draft applications.

Task 8: Design

The \$596,605.00 budget for design is based on previous recycled water pipeline projects for design. It includes a management services budget based on an estimated 421 hours for a PE; aerial survey and drawings requiring 1531 hours for a SE; specifications, geotechnical work, cost estimating, and hydraulics requiring 964 hours for a SrE; utility research requiring 300 hours by a JrE; and 500 hours for potholing by a TEC. Activities include overall management, aerial survey, geotechnical investigation, potholing, utility research, hydraulics, cost estimating, drawings, and specifications.

Task 9: Project Performance Monitoring Plan

This task is not applicable because this grant will be only used for planning, design, specifications, and environmental documents.

(d) Construction/Implementation**Task 10: Contracting Services**

This task is not applicable because this grant will be only used for planning, design, specifications, and environmental documents.

Task 11: Construction Administration

This task is not applicable because this grant will be only used for planning, design, specifications, and environmental documents.

Task 12: Construction

This task is not applicable because this grant will be only used for planning, design, specifications, and environmental documents.

Paramount Blvd. Turf Replacement Project

Budget Summary

Project 4: Paramount Boulevard Turf Replacement Project (Project)

Implementing Agency: City of Lakewood (City)

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Paramount Boulevard Turf Replacement Project</u>					
Project serves a need of a DAC?: No					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$0.00	\$66,058.00	\$0.00	\$66,058.00
2	Labor Compliance Program	\$0.00	\$14,986.00	\$0.00	\$14,986.00
3	Reporting	\$0.00	\$14,985.00	\$0.00	\$14,985.00
Category (a) subtotal		\$0.00	\$96,029.00	\$0.00	\$96,029.00
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$10,075.00	\$0.00	\$10,075.00
6	CEQA Documentation	\$0.00	\$10,075.00	\$0.00	\$10,075.00
7	Permitting	\$0.00	\$0.00	\$0.00	\$0.00
8	Design	\$0.00	\$140,182.00	\$0.00	\$140,182.00
9	Project Performance Monitoring Plan	\$0.00	\$10,164.00	\$0.00	\$10,164.00
Category (c) subtotal		\$0.00	\$170,496.00	\$0.00	\$170,496.00
Category (d): Construction/ Implementation					
10	Contract Services	\$0.00	\$49,950.00	\$0.00	\$49,950.00
11	Construction Administration	\$0.00	\$109,648.00	\$0.00	\$109,648.00
12	Construction				
12.1	Mobilization and Site Preparation	\$2,500.00	\$25,250.00	\$0.00	\$27,750.00
12.2	Project Construction	\$997,500.00	\$551,045.00	\$0.00	\$1,548,545.00
12.3	Performance Testing and Demob.	\$0.00	\$25,000.00	\$0.00	\$25,000.00
Category (d) subtotal		\$1,000,000.00	\$760,893.00	\$0.00	\$1,760,893.00
Grand Total		\$1,000,000.00	\$1,027,418.00	\$0.00	\$2,027,418.00
*List sources of funding: Funding for this Project will be provided by the City of Lakewood’s (City) General Fund (Fiscal Year 2015-2016).					

Paramount Blvd. Turf Replacement Project**Budget Summary**

The budget presented in the table above is considered reasonable based on current available information. The justification for each category of budget presented is provided below:

Category (a) Direct Project Administration

Task 1: Project Management - The project management cost of \$66,058 includes a cost of \$16,083 for grant application preparation determined from the consultant's fee estimate and a cost of \$25,000 for grant administration calculated as 2.5% of the grant request. Additional project management costs related to invoicing, general coordination with the LACFCD, and supervision of the components to ensure conformance with City standards are estimated as requiring approximately 135 hours for the engineering consultant's management team at an average billing rate of \$185. The hourly estimates for this task were assumed based upon previous experience with similar project implementation.

Task 2: Labor Compliance Program - The City already has a LCP in place, therefore, there will not be any costs incurred to prepare the program. This cost to implement the program is estimated to require approximately 118 hours at an average hourly rate of \$127 for the City and contractor to complete all documents necessary for compliance, based on previous experience.

Task 3: Reporting - Estimates for reporting activities were based on the engineering consultant's management team average billing rate of \$185 and an estimated 81 hours to complete the task. This will happen over the duration of the Project from the award of the grant to the submission of the Final Project Report, based on previous experience.

Category (b) Land Purchase/Easement

Task 4: Land Purchase - There are no land purchases /easements for this project and so no associated costs.

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

Task 5: Feasibility Studies - The total cost of \$10,075 includes an estimated 65 hours to conduct meetings with the neighborhood committees and conduct field analyses to verify any restrictions and constraints. This estimate also includes the preparation of the Field Analysis Report. This is will be performed by a Planner from the City at an hourly wage of \$155.

Task 6: CEQA Documentation - Costs to prepare the CEQA documentation including Categorical Exempt Sections 15301 Existing Facilities and 15304 Minor Alterations to Land are estimated to require 65 hours of the City's Planning department at an hourly wage of \$155. The estimates to complete this task were based on previous experience with projects requiring similar CEQA preparation.

Task 7: Permitting - Permitting is not expected for this Project since the site is owned by the City, therefore, no budget has been allocated to this task.

Task 8: Design - The \$140,182 cost for this task is based on the estimate required for an engineering design consultant and landscape architect (as a sub-consultant) to design the Project. It is estimated that the engineering design consultant and landscape architecture will require 316 hours and 738 hours, respectively, at an average hourly billing rate of \$133.

Task 9: Project Performance Monitoring Plan - The cost of \$10,164 to prepare the Project Performance Monitoring Plan is based on previous project experience to complete a monitoring plan. The estimate assumes 66 hours at an average hourly wage of \$154 for the Construction Management team to prepare and submit the plan.

Category (d) Construction/Implementation

Task 10: Contract Services - The \$49,950 cost estimate for undergoing activities necessary to secure a contractor and award a contract is based on costs incurred for other similar projects. The estimate assumes 270 hours at a billing rate of \$185 for the engineering consultant's management team.

Paramount Blvd. Turf Replacement Project

Budget Summary

Task 11: Construction Administration – The estimated cost of \$109,648 for construction administration is based on previous experience with projects that replaced turf, installed a new irrigation system, and construction biofiltration swales. The estimate assumes approximately 712 hours for the Field Construction Engineer at an hourly wage of \$154. The Field Construction Engineer will work under the construction and contract manager to ensure that the Project is being completed on time.

Task 12: Construction – The following costs were based on past bid analysis from public works project bidders, such as the bid analysis for City of La Puente street improvement on Glendora Avenue between Nelson Avenue and Temple Avenue.

Subtask 12.1: Mobilization and Site Preparation –The \$27,750 estimate includes a lump sum of \$2,500, necessary for traffic control and site security material. In addition, 425 hours was estimated for workers to prepare the site and implement traffic control for the Project area at an hourly wage of \$50. A Stormwater Pollution Prevention Plan (SWPPP) will be prepared by a Qualified SWPPP Developer for implementation during construction. This will require 50 hours at an average hourly wage of \$80.

Subtask 12.2: Project Construction – The construction cost of \$1,548,545 includes equipment, materials, and labor costs necessary for construction and installation. As shown in *Construction Component Costs Table* below, this subtask will include the removal of existing turf, irrigation equipment, declining trees and soil excavation for the biofiltration swale construction; staking and layout of non-planting areas; furnishing and installation of the irrigation system, non-planting areas, and trees and planting material.

Construction Component Costs Table

Construction	Cost	Number of Units	Total	Purpose
Removal of current median components	\$10,000	Lump sum	\$10,000	Sod cutters, backhoe, wood chipper, chain saw, stump grinders
	\$50 per hour	600 hours	\$30,000	Labor
Stake and Layout	\$10,000	Lump sum	\$10,000	Stakes, anchoring fasteners, forming boards
	\$50 per hour	60 hours	\$3,000	Labor
Irrigation System	\$6 per square foot	70,000 square feet	\$420,000	Materials
	\$5,000	Lump sum	\$5,000	Landscape Trencher
	\$50 per hour	6,860 hours	\$343,000	Labor
Non-planting area	\$3.75 per square foot	30,000 square feet	\$112,500	Materials
	\$20,000	Lump sum	\$20,000	Concrete saw and plate compactor
	\$50 per hour	2,100 hours	\$105,000	Labor
Install trees and planting material	\$355 each unit	60 units	\$21,300	24-inch box trees
	\$15 each unit	14,383	\$215,745	1-gallon shrubs
	\$10,000	Lump sum	\$10,000	Auger
	\$50 per hour	4,860 hours	\$243,000	Labor
Total:			\$1,548,545	

Subtask 12.3: Performance Testing and Demobilization – This subtask cost of \$25,000 includes the development of final construction reports and a final field observation. The contractor will be required to ensure the site is performing successfully and will require 200 hours at an hourly wage of \$80. The contractor will need \$9,000 of equipment and material necessary to test the system.

Las Virgenes Creek Restoration Project – Phase II

Budget Summary

Project 5: Las Virgenes Creek Restoration Project – Phase II (Project)

Implementing Agency: City of Calabasas

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Las Virgenes Creek Restoration Project – Phase II</u>					
Project serves a need of a DAC?: No					
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
Category (a) Direct Project Administration					
1	Project Management	\$4,735.00	\$95,828.00	\$0.00	\$100,563.00
2	Labor Compliance Program	\$0.00	\$5,400.00	\$0.00	\$5,400.00
3	Reporting	\$1,276.00	\$21,525.00	\$0.00	\$22,801.00
Category (a) subtotal		\$6,011.00	\$122,753.00	\$0.00	\$128,764.00
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$77,212.00	\$0.00	\$77,212.00
6	CEQA Documentation	\$0.00	\$22,482.00	\$0.00	\$22,482.00
7	Permitting	\$1,000.00	\$28,500.00	\$0.00	\$29,500.00
8	Design	\$0.00	\$62,546.00	\$0.00	\$62,546.00
9	Project Perf. Monitoring Plan	\$0.00	\$2,100.00	\$0.00	\$2,100.00
Category (c) subtotal		\$1,000.00	\$192,840.00	\$0.00	\$193,840.00
Category (d): Construction/ Implementation					
10	Contracting Services	\$0.00	\$27,991.00	\$0.00	\$27,991.00
11	Construction Administration	\$8,979.00	\$32,994.00	\$0.00	\$41,973.00
12	Construction				
12.1	Pre-Migratory Bird Mobilization and Site Preparation	\$89,000.00	\$10,900.00	\$0.00	\$99,900.00
12.2	Pre-Construction Mobilization and Staging	\$107,011.00	\$28,999.00	\$0.00	\$136,010.00
12.3	Creek Restoration and Bank Stabilization	\$912,613.00	\$130,991.00	\$0.00	\$1,043,604.00
12.4	Demobilization	\$5,006.00	\$3,145.00	\$0.00	\$8,151.00
Category (d) subtotal		\$1,122,609.00	\$235,020.00	\$0.00	\$1,357,629.00
Grand Total		\$1,129,620.00	\$550,613.00	\$0.00	\$1,680,233.00
*List sources of funding: <i>City of Calabasas General Fund, DWR Urban Streams grant (supports Crayfish removal)</i>					
Note: MRT crayfish removal activities are included under Task 12.3.					

Las Virgenes Creek Restoration Project – Phase II**Budget Summary**

The budget presented in the table above is considered reasonable based on current available information. The justification for each category of budget presented is provided below. The following disciplines and average hourly wages were used to estimate the budget for the activities below: Supervisor 1 (S1) at \$35.10/hour, Supervisor 2 (S2) at \$62.50/hour, Technical 1 (T1) at \$35.00/hour, Technical 2 (T2) at \$48.50/hour, Technical 3 (T3) at \$135.00/hour, Technical 4 (T4) at \$150.00/hour, Technical 5 (T5) at \$174.18/hour, Technical 6 (T6) at \$193.95/hour, Technical 7 (T7) at \$105.00/hour, Manager 1 (M1) at \$120.00/hour, Bookkeeper 1 (B1) at \$35.00/hour, and Aquatic Restoration Manager (ARM) at \$23.63/hour.

(a) Direct Project Administration

Task 1: Project Management – The budget of \$100,563.50 for project management was based on several components. The \$16,083.00 included for grant application preparation was determined from a fee estimate provided by the consultant proposal. Estimates for other Project administration activities were based on the City of Calabasas (City) and Mountains Restoration Trust (MRT) combined labor rates and hours to complete the tasks based on previous experience, such as Phase I of the Las Virgenes Creek Restoration Project, which was completed in 2008. Completion of this task will require an estimated 400 hours for an S2, 320 hours for a T1, 130 hours for a T2, 75 hours for an M1, 100 hours for an S1, and 35 hours for a B1. Also included in the budget for this task is a 2.5% County of Los Angeles administration fee (\$28,240.50) for processing grant administration paperwork.

Task 2: Labor Compliance Program – The City has taken action to adopt and use the Los Angeles County Labor Compliance Program and therefore does not incur costs to prepare a program. The budget of \$5,400 for complying with the Labor Compliance Program requirements is based on the labor wage multiplied by the anticipated number of hours based on previous experience. It is assumed that this work will take a total of 40 hours for a T3.

Task 3: Reporting – The \$22,801.00 budget for reporting activities was based on the City and MRT combined labor rates and hours to complete the tasks based on previous experience gained from Phase I of the Las Virgenes Creek Restoration Project (2008) and prior Crayfish removal projects for the California Department of Fish and Wildlife (CDFW). Completion of this task will require an estimated 200 hours for an S2, 120 hours for a T1, 50 hours for a T2, 20 hours for an M1 and 54 hours for an ARM.

(b) Land Purchase/Easement

Task 4: Land Purchase – N/A

(c) Planning/Design/Engineering/Environmental Documentation

Task 5: Feasibility Studies – The \$77,212 budget for Feasibility Studies is based on actual costs paid or an initial cost estimate, in the case of geotechnical investigation. Land surveying, feasibility study preparation, and conceptual design represents the actual cost paid for those activities (\$42,040.00) to a consultant. The cost for geotechnical investigation (\$35,172.00) is based on an initial cost estimate developed in May 2015 by Questa Engineering Corp. This cost estimate is based on 200 hours for consulting planning staff.

Task 6: CEQA Documentation – The budget of \$22,482.00 for preparing a Draft and Final Initial Study/Mitigated Negative Declaration (IS/MND) is based on an initial cost estimate developed in May 2015 by Questa Engineering Corp and assumes 140 hours to complete the work for a consultant.

Task 7: Permitting – The budget of \$29,500.00 for preparing permit applications for the Flood Control, Section 404, 1600, Section 10, and CDFW permits, and for submitting the appropriate permit fees is based on an initial cost estimate developed in May 2015 by Questa Engineering Corp. The cost assumes 200 hours to complete the work for technical staff at a consulting firm. The CDFW permit also requires an additional fee of \$1,000.

Task 8: Design – The \$62,546.00 budget for design is based on two sources. The budget for developing plans, designs, and specifications to be used for construction is based on an initial cost estimate developed in May 2015 by

Las Virgenes Creek Restoration Project – Phase II**Budget Summary**

Questa Engineering Corp (\$47,030.00). The estimate assumes approximately 270 hours for technical staff at a consulting firm. This cost estimate was also used to determine the budget for preparing for and holding public workshops and stakeholder meetings, as well as developing the Stormwater Pollution Prevention Plan (SWPPP) (\$15,516.00), assuming 80 hours of work for technical staff at a consulting firm. The SWPPP is included in the costs for design because Questa Engineering will be completing both the design and the SWPPP during design activities.

Task 9: Project Performance Monitoring Plan – The \$2,100.00 budget for developing a Project Performance Monitoring Plan is based on an initial cost estimate developed in May 2015 by Questa Engineering Corp. The estimate assumes a total of 20 hours for technical staff at a consulting firm.

(d) Construction/Implementation

Task 10: Contracting Services – The \$27,991.00 budget for preparing construction big packages, advertising, developing contract awards, issuing notice-to-proceeds, and developing post-construction easement survey maps is based on an initial cost estimate developed in May 2015 by Questa Engineering Corp. The estimate is based on approximately 200 hours for engineering and technical staff at a consulting firm.

Task 11: Construction Administration – The \$41,973.00 budget for construction administration, including overseeing construction activities and inspection services, is based on an initial cost estimate developed in May 2015 by Questa Engineering Corp and prior Crayfish removal projects for the CDFW. It includes approximately 670 hours for engineering/technical staff at a consulting firm and approximately 380 hours for ARM.

Task 12: Construction

Subtask 12.1: Pre-Migratory Bird Mobilization and Site Preparation – The \$99,900.00 budget associated with labor and materials for conducting pre-migratory bird work, which includes installing netting and poles, clearing and hauling away debris, and conducting biological monitoring. The budget is based on an initial cost estimate developed in May 2015 by Questa Engineering Corp. It is based on approximately 770 hours for technical staff to perform biological work and site preparation. It also includes 500 sets of netting and poles (\$25.00 each).

Subtask 12.2: Pre-Construction Mobilization and Staging – The \$136,010.00 budget associated with labor, equipment, and materials for site clearing and staging is based on an initial cost estimate developed in May 2015 by Questa Engineering Corp and prior crayfish removal projects for the CDFW. The estimate is based on approximately 1,420 hours for technical staff to perform mobilization and biological surveys. Materials include 1,000 units of rocks/gravel at a cost of \$28 per unit. Equipment includes rental of backhoes, loaders, and trucks for \$25,000.00.

Subtask 12.3: Creek Restoration and Bank Stabilization – The \$1,043,604.00 budget associated with labor, equipment, and materials for erosion control, bank stabilization, crayfish removal, fish passage, debris removal, and restoration planting is based on an initial cost estimate developed in May 2015 by Questa Engineering Corp and prior crayfish removal projects for the CDFW. The estimate is based on approximately 4,350 hours for technical staff to perform erosion control, bank stabilization, fish passage, trail construction, and retaining wall work. It also includes approximately 16,000 hours for biologists, researchers, and biotechnicians to perform Crayfish removal, data collection, species identification, mortality investigation, and to complete the Habitat Enhancement Report. Materials include gully control, weirs, crayfish traps, and metal t-posts with a total cost of \$118,070.00. Equipment includes the rental of 15 trucks and loaders with a total cost of \$31,500.00. Also included is a 4.8% contingency.

Subtask 12.4: Demobilization – The \$8,151.00 budget associated with labor for demobilization activities, including removing equipment and materials from the Project site, is based on an initial cost estimate developed in May 2015 by Questa Engineering Corp. This cost does not include the post-construction activity of surveying and mapping the new trail. The estimate is a lump sum based on best professional judgment gained from prior projects.

Calleguas – Las Virgenes MWD Interconnection Project

Budget Summary

Project 6: Calleguas – Las Virgenes Municipal Water District Interconnection Project (Project)**Implementing Agency: Las Virgenes Municipal Water District (LVMWD)**

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Calleguas – Las Virgenes Municipal Water District Interconnection Project</u>					
Project serves a need of a DAC?: No					
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
Category (a) Direct Project Administration					
1	Project Management	\$25,030.85	\$103,888.85	\$0.00	\$128,919.70
2	Labor Compliance Program	\$5,032.35	\$10,032.35	\$0.00	\$15,064.70
3	Reporting	\$5,006.12	\$10,006.12	\$0.00	\$15,012.24
Category (a) subtotal		\$35,069.32	\$123,927.32	\$0.00	\$158,996.64
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$20,000.00	\$40,000.00	\$0.00	\$60,000.00
6	CEQA Documentation	\$10,000.00	\$20,000.00	\$0.00	\$30,000.00
7	Permitting	\$2,500.00	\$5,000.00	\$0.00	\$7,500.00
8	Design	\$166,250.00	\$466,250.00	\$0.00	\$632,500.00
9	Project Perf. Monitoring Plan	\$664.40	\$1,664.40	\$0.00	\$2,328.80
Category (c) subtotal		\$199,414.40	\$532,914.40	\$0.00	\$732,328.80
Category (d): Construction/ Implementation					
10	Contracting Services	\$25,019.33	\$50,038.66	\$0.00	\$75,057.99
11	Construction Administration	\$25,019.33	\$50,038.66	\$0.00	\$75,057.99
12	Construction				
12.1	Mobilization & Site Preparation	\$75,000.00	\$150,000.00	\$0.00	\$225,000.00
12.2	Project Construction	\$1,765,836.00	\$5,018,188.00	\$0.00	\$6,784,024.00
12.3	Performance Testing & Demob.	\$385,643.00	\$771,286.00	\$0.00	\$1,156,929.00
Category (d) subtotal		\$2,276,517.66	\$6,039,551.32	\$0.00	\$8,316,068.98
Grand Total		\$2,511,001.00	\$6,696,393.42	\$0.00	\$9,207,394.42
<p>*List sources of funding: \$4,544,195 of the Cost Share Grand Total will be funded by CMWD for the portion of the interconnection pipeline and other facilities within their service area. Local matching funds for LVMWD will come from revenue from customer user rates (80%) and capacity connection fees (20%).</p> <p><i>Agreement between Las Virgenes Municipal Water District and Calleguas Municipal Water District for Interconnections Between Their Potable Water Systems, dated March 10, 2015 (Agreement).</i></p>					

Calleguas – Las Virgenes MWD Interconnection Project**Budget Summary**

The budget presented in the table above is considered reasonable based on current available information, most importantly the *LVMWD/CMWD Interconnection Study*, dated March 26, 2014 and prepared by Kennedy/Jenks Consultants. It is important to note that this project is composed of a portion in Los Angeles County and a portion in Ventura County. The portion in Los Angeles County is the Project included in this grant application for funding under Proposition 84. For completeness, the costs for the Ventura County portion are included in the table above; and they will be paid as matching funds by Calleguas Municipal Water District (CMWD). LVMWD will also contribute matching funds for their portion in Los Angeles County.

The purpose of the *Agreement* cited in the above Table is to establish the commitment from both parties of their intention to construct the Interconnection line between in their respective potable water systems. In general, the two differently funded parts of the project will meet at the Los Angeles and Ventura County Line on Lindero Canyon Road. All funds included in the Requested Grant Amount Grand Total above are to be used for construction of the LVMWD portion of the Project (i.e., the portion that is inside the Greater Los Angeles County IRWM Region). The subsequent part of Attachment 4 below focusses on the Proponent's financial participation in the Project (i.e., for LVMWD), and it also includes descriptions of CMWD's share of costs, based on the *2014 Las Virgenes-Calleguas Interconnection Study* by Kennedy/Jenks Consultants and additional input from LVMWD.

(a) Direct Project Administration

Task 1: Project Management – The \$128,919.70 budget for Project Management activities is estimated from LVMWD labor rates and an estimated number of hours to complete the tasks based on previous experience on similar projects. The budget for this task was calculated by estimating approximately 440 hours of project management tasks at an average hourly rate of \$114 for an engineer and a grant manager for a total of approximately \$50,100. The remaining approximately \$25,000 of the \$75,061.70 total constitutes CMWD's share of Project Management costs, based on the *2014 Las Virgenes-Calleguas Interconnection Study* by Kennedy/Jenks Consultants and additional input from LVMWD. This task also includes a 2.5% grant administration component for Los Angeles County Flood Control District (LACFCD) and the application preparation fee of \$16,083 that was provided in the consultant proposal.

Task 2: Labor Compliance Program – The \$15,064.70 estimate for Labor Compliance Program activities is based on LVMWD labor rates and an estimated number of hours to complete the tasks based on previous experience on similar projects; it uses an engineer's labor rate of \$95 an hour for approximately 106 hours to complete the task for a total of approximately \$10,065. The remaining approximately \$5,000 of the \$15,064.70 total constitutes CMWD's share of Labor Compliance Program costs.

Task 3: Reporting – The \$15,012.24 estimate for reporting activities is based on LVMWD labor rates and an estimated number of hours to complete the tasks. It is based on previous experience on similar projects by estimating a labor rate of \$132 and approximately 77 hours for a total of \$10,200. The remaining approximately \$4,800 of the \$15,012.24 total constitutes CMWD's share of Reporting costs.

(b) Land Purchase/Easement

Task 4: Land Purchase – Not Applicable

(c) Planning/Design/Engineering/Environmental Documentation

Task 5: Feasibility Studies – The \$60,000 budget for Feasibility Studies includes a \$40,000 budget for land surveying, feasibility study preparation, and a conceptual report based on a proposal from m6 Consultants. The remaining approximately \$20,000 of the total constitutes CMWD's share of Feasibility Study costs for similar activities needed for the Ventura County portion of the Project.

Task 6: CEQA Documentation – The \$30,000 CEQA Documentation budget includes a \$20,000 budget for preparing a Draft and Final Initial Study/Mitigated Negative Declaration (IS/MND) based on a lump sum proposal from m6 Consultants. The remaining approximately \$10,000 of the total constitutes CMWD’s share of CEQA costs for similar activities needed for the Ventura County portion of the Project.

Task 7: Permitting – The \$7,500 Permitting budget includes a \$5,000 budget for preparing permit applications, including the Encroachment permit, based on a proposal from m6 Consultants. The remaining approximately \$2,500 of the total constitutes CMWD’s share of permitting costs for similar activities needed for the Ventura County portion of the Project.

Task 8: Design – The \$632,500 Design budget includes budget for developing plans, designs, and specifications to be used for construction based on consultant design costs from past experience on similar projects, for a lump sum of \$332,500. The remaining approximately \$300,000 of the total constitutes CMWD’s share of permitting costs.

Task 9: Project Performance Monitoring Plan – The \$1,328.80 budget for developing a Project Performance Monitoring Plan is based on previous project experience using an inspector at \$66 per hour for approximately 20 hours. The remaining approximately \$1,000 of the \$2,328.80 total constitutes CMWD’s share of Project Performance Monitoring costs for similar activities needed for the Ventura County portion of the Project.

(d) Construction/Implementation

Task 10: Contracting Services – The budget for preparing construction big packages, advertising, developing contract awards, issuing notices-to-proceed, and developing post-construction easement survey maps is based on past project experience using \$95 for approximately 527 hours for a total of approximately \$50,100. The remaining approximately \$25,000 of the \$75,057.99 total constitutes CMWD’s share of Contracting Services costs.

Task 11: Construction Administration – The budget for construction administration, including overseeing construction activities and inspection services is based on similar project experience using \$95 for approximately 527 hours for a total of approximately \$50,100. The remaining approximately \$25,000 of the \$75,057.99 total constitutes CMWD’s share of Construction Administration costs.

Task 12: Construction

Subtask 12.1: Mobilization and Site Preparation – The \$225,000.00 budget associated with labor and materials for mobilization and site preparation is based on past experience with recycled water pipe experience and cost estimates included in the Kennedy Jenks’ LVMWD/CMWD Interconnection Study dated March 26, 2014.

Subtask 12.2: Project Construction – The \$6,784,024.00 budget associated with labor and materials is based on past experience with recycled water pipe experience and cost estimates included in the Kennedy Jenks’ LVMWD/CMWD Interconnection Study dated March 26, 2014.

Subtask 12.3: Performance Testing and Demobilization – The \$1,156,929.00 budget associated with labor for demobilization activities, including removing equipment and materials from the Project site, is based on past experience with recycled water pipe experience and cost estimates included in the Kennedy Jenks’ LVMWD/CMWD Interconnection Study dated March 26, 2014.

Comprehensive Water Conservation Project

Budget

Project 7: Comprehensive Water Conservation Project (Project)

Implementing Agency: City of Malibu

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant</u>					
Project Title: <u>Comprehensive Water Conservation Project</u>					
Project serves a need of a DAC?: No					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$49,083.00	\$40,359.58	\$0.00	\$89,442.58
2	Labor Compliance Program	\$4,000.00	\$4,000.00	\$0.00	\$8,000.00
3	Reporting	\$10,050.00	\$0.00	\$0.00	\$10,050.00
Category (a) subtotal		\$63,133.00	\$44,359.58	\$0.00	\$107,492.58
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$0.00	\$0.00	\$0.00
6	CEQA Documentation	\$0.00	\$441.00	\$0.00	\$441.00
7	Permitting	\$0.00	\$4,158.00	\$0.00	\$4,158.00
8	Design	\$0.00	\$27,000.00	\$0.00	\$27,000.00
9	Performance Monitoring Plan	\$24,900.00	\$0.00	\$0.00	\$24,900.00
Category (c) subtotal		\$24,900.00	\$31,599.00	\$0.00	\$56,499.00
Category (d): Construction/ Implementation					
10	Contract Services	\$0.00	\$16,400.00	\$0.00	\$16,400.00
11	Construction Administration	\$250,050.00	\$11,966.00	\$0.00	\$262,016.00
12	Construction/Implementation				
12.1	Cust. Target. and Marketing	\$446,000.00	\$105,000.00	\$0.00	\$551,000.00
12.2	Device Rebates and Incentives	\$290,000.00	\$522,883.00	\$0.00	\$812,883.00
12.3	Equipment Procurement	\$272,300.00	\$0.00	\$0.00	\$272,300.00
12.4	Installation	\$0.00	\$95,000.00	\$0.00	\$95,000.00
Category (d) subtotal		\$1,258,350.00	\$751,249.00	\$0.00	\$2,009,599.00
Grand Total		\$1,346,383.00	\$827,207.58	\$0.00	\$2,173,590.58
*List sources of funding: Metropolitan Water District (MWD) - \$420,883; West Basin Municipal Water District - \$80,220; Los Angeles County Department of Public Works Waterworks District #29 (District 29) - \$200,320; City of Malibu - \$125,785					

Comprehensive Water Conservation Project**Budget**

The budget presented in the table above is considered reasonable based on current available information. The City, West Basin, and District 29 have an average hourly wage of \$100 used throughout the budget. The justification for each category of budget presented is provided below:

Category (a) Direct Project Administration

Task 1: Project Management – The project management cost of \$89,442.58 includes a cost of \$16,083 for grant application preparation determined from the consultant's fee estimate and a cost of \$33,659.58 for grant administration calculated as 2.5% of the grant request. The City, West Basin, and District 29 will be involved in the administration of the Project. The City will spend 150 hours, West Basin will spend 180 hours, and District 29 will spend approximately 67 hours to assist in management and coordination. These estimates are based on best professional judgment and previous projects

Task 2: Labor Compliance Program – The City has taken action to adopt and use the Los Angeles County LCP, and, therefore, does not incur costs to prepare a program. West Basin and District 29 already have LCPs in place, therefore, there will not be any costs incurred to prepare the program. The budget of \$8,000 for complying with the LCP requirements is based on the labor wage for the staff multiplied by the anticipated number of hours. It is assumed that this work will take 80 hours to complete for the 36-month duration.

Task 3: Reporting – Reporting costs of \$10,050 were calculated based on time the project manager will spend to complete the Quarterly Progress and Final Completion Reports based on previous reporting experience. The project manager's hourly rate is \$150 with approximately 67 hours required for the development of the reports.

Category (b) Land Purchase/Easement

Task 4: Land Purchase – This Project does not require the purchase of land, and no budget is allocated.

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

Task 5: Feasibility Studies - This Project did not require a feasibility study, since the Project components are conservation measures in place throughout Southern California through MWD's SoCal Water Smart Program.

Task 6: CEQA Documentation – The budget of \$441 for this task was based on previous City experience and requires 7 hours at an hourly rate of \$63 for the City's planning staff to prepare and file a Categorical Exemption for the two rainwater harvesting cisterns.

Task 7: Permitting – The installation of the two large rainwater harvesting cisterns requires a Planning Department Administrative Permit Review (APR) permit at a total cost of \$4,158. The City's Planning Department charges a flat rate permit fee for the APRs.

Task 8: Design – The \$27,000 estimate for this task includes the budget for consultants to develop concept reports and final designs for the two large rainwater cisterns. This estimate was included as a lump sum based on previous consultant contracts.

Task 9: Project Performance Monitoring Plan – The cost of \$24,900 to prepare the plan is based on previous project experience to complete a monitoring plan. The project manager will require 166 hours at an hourly rate of \$150 to complete this task.

Category (d) Construction/Implementation

Task 10: Contract Services – The City, District 29 and West Basin will each develop bid solicitations for consultants and/or contractors to complete the implementation of this Project. In order to develop the contracts that will be necessary to hire consultants, the City's staff will require 30 hours. West Basin and District 29 have already entered into contract negotiations with consultants and vendor, and therefore, it is estimated that West Basin will require a total of 100 hours for this task and District 29 will require a total of approximately 34hours. The total budget of \$16,400 was based on similar prior experiences with developing a bid package.

Comprehensive Water Conservation Project

Budget

Task 11: Construction Administration – In order to manage the consultants and coordinate with staff and departments for implementation, approximately 1,667 hours were allocated for the project manager at an hourly rate of \$150 equaling \$250,050. The City’s hired contractor will assist in the coordination and management of the two rainwater harvesting cisterns and estimates approximately 62 hours will be required at a billing rate of \$193 per hour for a total of \$11,966. This estimated total of \$262,016 is based on previous experience with similar projects that have been successfully completed.

Task 12: Construction/Implementation

Subtask 12.1: Customer Targeting and Project Marketing

District 29 will spend 850 hours (\$85,000 total) to review water usage records for overall program participation and again from newly installed water smart systems to establish baseline use and identify potential for further water conservation devices and/or leak repairs for the Consumption Analysis Report. The conservation consultant will spend about 3,960 hours for a total of 500 sites that were identified in the report at an estimated hourly wage of \$100 totaling to \$396,000. An effective marketing campaign will also include outreach materials that is estimated to cost approximately \$70,000 based on previous outreach experience.

Subtask 12.2: Rebate Implementation and Incentives

The table below shows the amount of rebates and incentives that will be distributed at a processing fee of \$11,133 by the vendor. West Basin’s and District 29’s contractor will perform approximately 500 surveys at an estimated cost of \$220.50 each, which will include the cost to prepare the recommendations report. Conducting landscape classes are based on an hourly wage of \$100 for 160 hours (\$16,000). Conducting Graywater Workshops and Landscape Design Classes (\$45,000) is based on a graywater organization’s cost estimate including \$16,000 for the instructor (10 classes), \$9,000 for the educational materials required for the classes, and \$20,000 for hands-on workshops/site visits as needed. The City will waive the permit fee of installing a laundry to landscape graywater reuse systems. With the 25 graywater reuse systems, approximately \$80 for each permit will be waived by the City for a total of \$2,000.

Rebate Costs			
Rebate	Cost	Quantity	Total
Clothes Washers	\$85	100	\$8,500
Hot Water On-Demand Systems	\$200	100	\$20,000
Ultra High-Efficiency Toilets	\$100	1,000	\$100,000
Rain Barrels	\$75	1,000	\$75,000
Turf Removal (per ft ²)	\$2	200,000	\$400,000
Graywater Reuse Systems	\$500	25	\$12,500
Small Rainwater Harvesting Cisterns	\$500	25	\$12,500
Total Rebate Cost:			\$628,500

Subtask 12.3: Equipment Procurement

District 29 will purchase 400 smart meter devices at a cost of \$300 based on an invoice for a total of \$120,000. West Basin will purchase 1,000 showerheads with temperature controlled shut-off devices at a cost of \$20 each and 400 drip irrigation kits at a cost of \$175 each. These costs were based on product specifications. The equipment cost estimate for the two pre-manufactured cisterns is \$62,300.

Subtask 12.4: Installation

Based on previous experience with similar projects, it was estimated that District 29 will require approximately 350 hours to install the 400 smart meter devices, for a total cost of \$35,000. Customers will work with their plumber or contractor to fix the identified leaks. Based on a lump sum from previous experience working with contractors, it was estimated that \$60,000 will be required to install the two large cisterns.

Urban Streams Restoration in the Malibu Creek Watershed

Budget

Project 8: Urban Streams Restoration in the Malibu Creek Watershed (Project)

Implementing Agency: Mountains Restoration Trust (MRT)

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Urban Streams Restoration in the Malibu Creek Watershed</u>					
Project serves a need of a DAC?: No					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$36,069.00	\$25,638.16	\$0.00	\$61,707.16
2	Labor Compliance Program	\$0.00	\$0.00	\$0.00	\$0.00
3	Reporting	\$5,488.02	\$0.00	\$0.00	\$5,488.02
Category (a) subtotal		\$41,557.02	\$25,638.16	\$0.00	\$67,195.18
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$15,000.00	\$0.00	\$15,000.00
6	CEQA Documentation	\$0.00	\$1,500.00	\$0.00	\$1,500.00
7	Permitting	\$13,000.00	\$1,938.00	\$0.00	\$14,938.00
8	Design	\$0.00	\$13,669.60	\$0.00	\$13,669.60
9	Project Performance Monitoring Plan	\$0.00	\$1,699.20	\$0.00	\$1,699.20
Category (c) subtotal		\$13,000.00	\$33,806.80	\$0.00	\$46,806.80
Category (d): Construction/ Implementation					
10	Contracting Services	\$0.00	\$0.00	\$0.00	\$0.00
11	Construction Administration	\$13,338.00	\$0.00	\$0.00	\$13,338.00
12	Construction				
12.1	Mobilization	\$15,107.10	\$2,430.00	\$0.00	\$17,537.10
12.2	Restoration	\$394,683.68	\$118,760.00	\$0.00	\$513,443.68
12.3	Monitoring	\$12,031.20	\$10,500.00	\$0.00	\$22,531.20
12.3	Demobilization	\$0.00	\$1,004.16	\$0.00	\$1,004.16
Category (d) subtotal		\$435,159.98	\$132,694.16	\$0.00	\$567,854.14
Grand Total		\$489,717.00	\$192,139.12	\$0.00	\$681,856.12
*List sources of funding: Match funding will be provided by volunteer labor and services, coordinated by Mountains Restoration Trust, as well as in kind services provided by the Resource Conservation Service.					

Urban Streams Restoration in the Malibu Creek Watershed**Budget**

The budget presented in the table above is considered reasonable based on current available information. The justification for each category of budget presented is provided below. The following disciplines and average hourly wages were used to estimate the budget for the activities below: Supervisor (SPR) at \$35.10/hour, Executive Director (ED) at \$48.66/hour, Bookkeeper (BK) at \$35.00/hour, Restoration Manager (RM) at \$35.10/hour, and Aquatic Restoration Manager (ARM) at \$23.63/hour.

(a) Direct Project Administration**Task 1: Project Management**

The budget for grant application preparation was determined from a fee estimate provided in the consultant proposal (\$16,083.00). Estimates for other Project administration activities were based on labor by Mountains Restoration Trust (MRT) including 100 hours for an SPR, 426 hours for an ED, and 35 hours for a BK, for a total of \$25,464.16 based on previous experience gained from MRT's grant work with the California Department of Fish and Wildlife (CDFW) and the Department of Water Resources (DWR)². The \$61,707.16 total for this task also includes \$20,160.00 in administration fees.

Task 2: Labor Compliance Program

Not applicable. Labor Compliance Programs are required for Projects that will hire contractors to perform any work. All work performed on this Project will be completed by MRT staff and volunteers; no contractors will be hired. Thus, no Labor Compliance Program is needed for this Project.

Task 3: Reporting

The budget for reporting activities (\$5,488.02) was based on labor by MRT including 120 hours for an RM and 54 hours for an ARM to complete the tasks based on previous experience gained from reporting activities from their grant work with CDFW and DWR¹.

(b) Land Purchase/Easement**Task 4: Land Purchase**

Not Applicable.

(c) Planning/Design/Engineering/Environmental Documentation**Task 5: Feasibility Studies**

The budget (\$15,000) for floodplain analysis and GIS work represents the value of donated services. The study was completed by staff at the Resource Conservation District in conjunction with the Natural Resources Conservation Service. The in-kind services figure was the fee amount required to have such a comprehensive study completed by a for-profit environmental firm using engineers, designers, and planners.

Task 6: CEQA Documentation

The budget (\$1,500) for preparing and filing a Notice of Exemption for the Project takes into account the staff time required to work with two different agencies, Ventura County, and the expense of the recording fees.

² Projects under CDFW include the Wild Walnut Park Riparian Restoration Project (completed 2014), the La Sierra Riparian Restoration Project (ongoing), and the Baynes Road Riparian Restoration Project (ongoing). Project under DWR is the Dry Canyon Creek Urban Streams Restoration Project (completed 2008).

Urban Streams Restoration in the Malibu Creek Watershed**Budget****Task 7: Permitting**

The budget (\$14,938.00) for submitting permit applications for the Project is based on the fees required to submit these permits, as stated by the CDFW and Ventura County. The CDFW permit fees total \$2,938.00 and the Ventura County permit fee totals \$12,000.00.

Task 8: Design

The budget (\$13,669.60) for developing plans, designs, and specifications to be used for implementation represents actual costs paid for those activities. The Landscape Design Plan (\$12,698) was completed by a Restoration Specialist at \$20.48 per hour for 620 hours. The Crayfish Barrier Plan (\$972) will be completed by a GIS Technician at \$20.25 per hour for an assumed 48 hours.

Task 9: Project Performance Monitoring Plan

The budget (\$1,699.20) for developing a Project Performance Monitoring Plan is based on MRT's previous experience writing Habitat Mitigation and Monitoring Plans for mitigation projects for CDFW and DWR¹. From this experience, MRT estimates that a Project Manager will complete the task in 72 hours at a billing rate of \$23.60 per hour.

(d) Construction/Implementation**Task 10: Contracting Services**

There are no costs associated with Contracting Services, as all work will be performed by volunteers and MRT staff.

Task 11: Construction Administration

The budget (\$13,338.00) for construction administration, includes overseeing implementation activities and coordination, is based on an estimated 760 hours to complete the tasks based on previous experience gained from construction administration activities from MRT's grant work with the CDFW and DWR¹.

Task 12: Construction

Subtask 12.1: Mobilization – The budget (\$17,537.10) associated with labor for soliciting and coordinating volunteers, conducting biological surveys, and established photo-points and monitoring transects for stream bank restoration is based on an estimated 835 hours to complete the tasks. This is based on previous experience gained from mobilization activities from MRT's grant work with the CDFW and DWR¹.

Subtask 12.2: Restoration – The budget (\$513,443.68) for this task includes labor, equipment, and materials for vegetation restoration and crayfish removal. Materials and equipment for vegetation restoration, including fencing, plant costs, and irrigation supplies total \$26,860 and materials for crayfish removal, including crayfish bait, metal crayfish traps, and chest waders total \$19,970. It is expected to require approximately 20,336 hours to complete these tasks for a total of \$444,773.12. These estimates are based on the number of units and number of hours required to complete this task based on previous experience gained from restoration activities from MRT's grant work with the CDFW and DWR¹. The budget for this task includes a 4% contingency on the total project budget.

Subtask 12.3: Monitoring – The budget (\$22,531.20) associated with labor for monitoring during implementation assumes 730 hours to complete work associated with this task. This estimate is based on previous experience gained from monitoring activities from MRT's grant work with the CDFW and DWR¹.

Subtask 12.4: Demobilization – The budget (\$1,004.16) associated with labor for demobilization activities, including removing the irrigation lines assumes 48 hours to complete work. This estimate is based on previous experience gained from demobilization activities from MRT's grant work with the CDFW and DWR¹.

Inglewood New Well No. 7 Project

Budget

Project 9: Inglewood New Well No. 7 Project (Project)

Implementing Agency: City of Inglewood (City)

Table 8 - Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Inglewood Well No. 7 Project</u>					
Project serves a need of a DAC?: Yes					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$50,732.92	\$19,050.08	\$0.00	\$69,783.00
2	Labor Compliance Program	\$0.00	\$5,000.00	\$0.00	\$5,000.00
3	Reporting	\$4,500.00	\$1,500.00	\$0.00	\$6,000.00
Category (a) subtotal		\$55,232.92	\$25,550.08	\$0.00	\$80,783.00
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$0.00	\$0.00	\$0.00
6	CEQA Documentation	\$1,692.19	\$564.06	\$0.00	\$2,256.25
7	Permitting	\$11,250.00	\$3,750.00	\$0.00	\$15,000.00
8	Design	\$85,033.50	\$28,344.50	\$0.00	\$113,378.00
9	Project Performance Monitoring Plan	\$4,500.00	\$1,500.00	\$0.00	\$6,000.00
Category (c) subtotal		\$102,475.69	\$34,158.56	\$0.00	\$136,634.25
Category (d): Construction/ Implementation					
10	Contracting Services	\$3,375.00	\$1,125.00	\$0.00	\$4,500.00
11	Construction Administration	\$18,000.00	\$6,000.00	\$0.00	\$24,000.00
12	Construction				
12.1	Mobilization and Site Preparation	\$12,331.50	\$4,110.50	\$0.00	\$16,442.00
12.2	Project Construction	\$1,291,709.89	\$430,569.96	\$0.00	\$1,722,279.85
12.3	Performance Testing and Demobilization	\$16,875.00	\$5,625.00	\$0.00	\$22,500.00
Category (d) subtotal		\$1,342,291.39	\$447,430.46	\$0.00	\$1,789,721.85
Grand Total		\$1,500,000.00	\$507,139.10	\$0.00	\$2,007,139.10
*List sources of funding:					
Inglewood Water Fund (\$507,139.11)					

Inglewood New Well No. 7 Project**Budget**

The budget presented in the table above is considered reasonable based on current available information. The justification for each category of budget presented is provided below. The following staff disciplines and average hourly wages were used to estimate the budget for the activities below: City Engineer (CiE) at \$60/hour, Consultant Engineer (CoE) at \$100/hour, and Administrative Assistant (AA) at \$45/hour.

(a) Direct Project Administration**Task 1: Project Management**

The project management cost of \$69,783 is based on the estimated costs to manage the grant. This includes a cost of \$16,083 for grant application preparation determined from a fee estimate provided by the consultant proposal and a cost of \$37,500 for grant administration calculated as 2.5% of the total grant request for this Project. Additional project management costs related to invoicing and general coordination are based on an estimated 270 hours for a CiE to complete the activities. Hours are based on previous experience with similar projects.

Task 2: Labor Compliance Program

Estimates for the \$5,000 Labor Compliance Program budget were based on an estimated 111 hours for an AA. Hours are based on previous experience with similar projects.

Task 3: Reporting

The budget for reporting activities was based on an estimated 100 hours of in-house services for the CiE. Hours are based on previous experience with similar projects.

(b) Land Purchase/Easement**Task 4: Land Purchase**

The land on which the Project is already owned by the City, and no new land purchases are planned.

(c) Planning/Design/Engineering/Environmental Documentation**Task 5: Feasibility Studies**

The feasibility study for New Well No. 7 was completed by Richard C. Slade & Associates LLC in April 2014. Since the contract for the study includes other locations, the City of Inglewood is not claiming this fee to avoid future complications. There are therefore no costs for this task.

Task 6: CEQA Documentation

A California Environmental Quality Act (CEQA) Mitigated Negative Declaration of Environmental Impacts (MNDEI) was approved in November 2014 through a Public Hearing. A Notice of Determination (NOD) for the MNDEI was filed with the Los Angeles County Clerk's office on December 17, 2014, with a fee of \$2,256.25.

Task 7: Permitting

This task involves two permits, a new well permit and a National Pollutant Discharge Elimination System (NPDES) permit from the State Water Resources Control Board. Estimates are based on an estimated 75 hours to complete each permit for a CoE. Hourly estimates are based on experience with similar projects.

Task 8: Design

The cost to complete the Well No. 7 design is based on an estimate from Tetra Tech Inc. for approximately 689 hours for a total of \$113,378.

Task 9: Project Performance Monitoring Plan

The cost of \$6,000 to prepare the Project Performance Monitoring Plan is based on 100 hours of services from a CiE.

(d) Construction/Implementation

Task 10: Contracting Services

The \$4,500 cost estimate for developing the bid package, preparing the advertisement and contractor documents, and selecting and awarding the contract is based on 75 hours for a CiE, with the time based on previous estimates for similar projects.

Task 11: Construction Administration

The estimated cost of \$24,000 for construction administration is based on an estimated 400 hours for a CiE, with the time based on previous estimates for similar projects.

Task 12: Construction / Implementation

Construction costs are based on the 2014 Feasibility Study from Richard Slade & Associates.

Subtask 12.1: Mobilization and Site Preparation – The estimated cost of \$16,442 for this subtask is based on the 2014 Feasibility Study, page 50.

Subtask 12.2: Project Construction – The estimated cost of \$1,722,279.85 for this subtask is based on the 2014 Feasibility Study, page 50, plus 5% of all Task 12 costs as a contingency. It includes the following items:

- *Materials:* Sound-proof wall, stainless steel 20" diameter louver well casing, grout seal, gravel packs, well development chemicals, submersible pump assembly, piping, valves, electronics and control panel, wastewater discharge tank and line, concrete driveway and other site improvements
- *Equipment:* Trucks, drill rig, crane, waste bin and Baker tank
- *Labor:* Project manager, foreman, drilling technician, rig operators, electrician.

Subtask 12.3: Performance Testing and Demobilization – The estimated cost of \$22,500 for this subtask is based on the 2014 Feasibility Study, page 50.

Recycled Water to the Palos Verdes Gold Course Project

Budget

Project 10: Recycled Water to the Palos Verdes Golf Course (Project)

Implementing Agency: City of Palos Verdes Estates (City)

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Recycled Water to the Palos Verdes Golf Course</u>					
Project serves a need of a DAC?: No					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$0.00	\$169,341.56	\$0.00	\$169,341.56
2	Labor Compliance Program	\$0.00	\$206,636.40	\$0.00	\$206,636.40
3	Reporting	\$0.00	\$85,220.90	\$0.00	\$85,220.90
Category (a) subtotal		\$0.00	\$461,198.86	\$0.00	\$461,198.86
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$1,000,000.00	\$0.00	\$1,000,000.00
Category (b) subtotal		\$0.00	\$1,000,000.00	\$0.00	\$1,000,000.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$347,577.52	\$0.00	\$347,577.52
6	CEQA Documentation	\$0.00	\$131,163.74	\$0.00	\$131,163.74
7	Permitting	\$0.00	\$60,961.00	\$0.00	\$60,961.00
8	Design	\$0.00	\$569,419.72	\$0.00	\$569,419.72
9	Project Performance Monitoring Plan	\$0.00	\$5,348.20	\$0.00	\$5,348.20
Category (c) subtotal		\$0.00	\$1,114,470.18	\$0.00	\$1,114,470.18
Category (d): Construction/ Implementation					
10	Contracting Services	\$0.00	\$41,729.46	\$0.00	\$41,729.46
11	Construction Administration	\$0.00	\$1,242,056.96	\$0.00	\$1,242,056.96
12	Construction				
12.1	Mobilization and Site Preparation	\$437,574.28	\$274,380.52	\$0.00	\$711,954.80
12.2	Project Construction	\$1,578,993.35	\$2,196,531.22	\$0.00	\$3,775,524.57
12.3	Performance Testing and Demobilization	\$583,432.37	\$354,924.03	\$0.00	\$938,356.40
Category (d) subtotal		\$2,600,000	\$4,109,622.19	\$0	\$6,709,622.19
Grand Total		\$2,600,000	\$6,685,291.23	\$0	\$9,285,291.23
*List sources of funding: West Basin Municipal Water District: \$4,323,216 (Cash), \$153,075 (In-Kind); California Water Services Company: \$1,600,000 (Cash); Palos Verdes Golf Club: \$605,000 (Cash); City of Palos Verdes Estates: \$4,000 (In-Kind).					

Recycled Water to the Palos Verdes Gold Course Project**Budget**

The City is partnering with the West Basin Municipal Water District (WBMWD) and Palos Verdes Golf Club to implement this project. The budget presented in the table above is considered reasonable based on current available information. The following City, WBMWD, and consultant staff disciplines and average hourly wages were used to estimate the budget for the activities below: Assistant General Manager (AGM) at \$235.87/hour, Project Manager (PM) at \$108/hour, Planning Specialist (PS) at \$118.82/hour, Program Manager (PrM) at \$100/hour, Operations Manager (OM) at \$202.59/hour, Compliance Manager 1 (CM1) at \$124.10/hour, Compliance Manager 2 (CM2) at \$156.04/hour, Technical Resources Manager (TRM) at \$199.90/hour, Contracting Officer (CO) at \$96.43/hour, Public Outreach Manager (POM) at \$217.34/hour, and Accounting (AC) at \$123.12/hour. The justification for each category of the budget is provided below:

(a) Direct Project Administration

Task 1: Project Management – The \$169,341.56 estimate for Project Management activities is based on City and WBMWD labor rates and an estimated number of hours to complete the tasks based on previous experience on similar projects. The budget for this task was calculated by estimating 400 hours for a PM, 168 hours for a PS, 6 hours for a PrM, 24 hours for a TRM, and 160 hours for an AC. This budget also includes the grant application preparation of \$16,083 that was provided by the consultant proposal and \$65,000 for Los Angeles County Flood Control District grant administration (calculated as 2.5% of the grant request amount).

Task 2: Labor Compliance Program – The \$206,636.40 estimate for Labor Compliance Program (LCP) activities is based on previous experience on similar projects and on City and WBMWD labor rates. The budget for this task was calculated using 180 hours for a PM, 36 hours for a TRM, and a lump sum of \$180,000 from a consultant proposal.

Task 3: Reporting – The \$85,220.90 estimate for Reporting activities is based on City and WBMWD labor rates and an estimated number of hours to complete the tasks based on similar projects. The budget for this task was calculated by estimating 506 hours for a PM, 218 hours for a PS, 10 hours for a PrM, 16 hours for a TRM, and 2 hours for an AGM.

(b) Land Purchase/Easement

Task 4: Land Purchase – A specific parcel of land has not been chosen, but several alternatives are available. The cost for land purchase is included as an allowance of \$1 million based on comparable parcels in the areas that are being considered, including fees and transaction costs.

(c) Planning/Design/Engineering/Environmental Documentation

Task 5: Feasibility Studies – The \$347,577.52 budget for land surveying, feasibility study preparation, and conceptual design represents actual costs paid for these activities on previous projects, plus estimates of anticipated City and WBMWD labor rates and estimated number of hours. The budget for this task was calculated by estimating 320 hours for a PM, 32 hours for a TRM, and 8 hours for an OM. This budget also includes an actual lump sum cost of \$305,000 for consultant services to develop the habitat assessment document mentioned in Attachment 3 – Work Plan.

Task 6: CEQA Documentation – The \$131,163.74 budget for preparing a Draft and Final Initial Study/Mitigated Negative Declaration (IS/MND) is based on previous experience on similar projects. The estimate is based on City and WBMWD labor rates and an estimated number of hours to complete the tasks based on previous experience on similar projects. The budget for this task was calculated by estimating 96 hours for a PM, 8 hours for a TRM, 120 hours for a CM2, and 2 hours for an AGM. This budget also includes a lump sum of \$100,000 for consultant services.

Recycled Water to the Palos Verdes Gold Course Project**Budget**

Task 7: Permitting – The \$60,961.00 budget for preparing permit applications as described in the Work Plan is based on previous permitting experience. It is based on City and WBMWD labor rates and an estimated number of hours to complete the tasks from previous experience on similar projects. The budget for this task was calculated by estimating 90 hours for a PM and 10 hours for a CM1. IT also includes a lump sum of \$50,000 for permit processing fees.

Task 8: Design – The \$569,419.72 budget for developing 60%, 90% and 100% design documents, including plans, designs, and specifications to be used for construction, is based on cost proposals received from Tetra Tech and AKM on similar projects. It includes some City and WBMWD labor rates and an estimated number of hours to complete the tasks based on previous experience on similar projects. The budget for this task was calculated by estimating 600 hours for a PM, 10 hours for a TRM, 10 hours for a PrM, and 8 hours for an OM. It also includes lump sum values of \$300,000 for 60% design, \$90,000 for 90% design, and \$60,000 for 100% design to account for consultant services during these phases. An additional \$50,000 lump sum fee is also included in this task for processing applications for utility connections for the Pump Station. Costs for consultant lump sum values were based on proposals as mentioned above.

Task 9: Project Performance Monitoring Plan – The \$5,348.20 budget for developing a Project Performance Monitoring Plan is based on previous project experience. It is based on City and WBMWD labor rates and an estimated number of hours to complete the tasks. The budget for this task was calculated by estimating 20 hours for a PM, 10 hours for a PS, and 20 hours for a PrM.

(d) Construction/Implementation

Task 10: Contracting Services – The \$41,729.46 budget for preparing construction big packages, advertising, developing contract awards, issuing notices-to-proceed, and developing post-construction easement survey maps is based partially on a cost proposal received from Harris & Associates. It includes City and WBMWD labor rates and an estimated number of hours to complete the tasks. The budget for this task was calculated by estimating 60 hours for a PM, 42 hours for a CO, 6 hours for a TRM, and a lump sum value of \$30,000 for consultant services based on a proposal.

Task 11: Construction Administration – The \$1,242,056.96 budget for construction administration/construction management including overseeing construction activities and inspection services, public outreach, and construction engineering is based on a similar project with WBMWD, the Carson City Lateral. It includes 720 hours for a PM, 144 hours for a POM, and lump sums of \$815,000, \$198,000, and \$120,000 from consultant proposals.

Task 12: Construction

The following construction task budgets are based on actual construction bids from similar projects: Torrance Booster Pump Station and NRG Recycled Water Conveyance Pipeline.

Subtask 12.1: Mobilization and Site Preparation – The \$711,954.80 budget associated with mobilization and site preparation was derived by adding \$354,102.40 in materials, \$181,051.20 in equipment, and \$176,801.20 in labor based on the two previous projects.

Subtask 12.2: Project Construction – The budget of \$3,775,524.57 for project construction was derived by adding \$1,395,448.52 in materials, \$923,305.20 in equipment, and \$846,805.20 in labor, plus 10% contingency. Environmental Mitigation and Compliance are included in this subtask, as well as a 10% construction contingency.

Subtask 12.3: Performance Testing and Demobilization – The \$938,356.40 budget associated with labor for demobilization activities, including removing equipment and materials from the Project site, was derived by adding \$467,303.20 in materials, \$237,651.60 in equipment, and \$233,401.60 in labor.

North Torrance Well Field Project, Phase III Project

Budget

Project 11: North Torrance Well Field Project, Phase III (Project)

Implementing Agency: City of Torrance (City)

Table 8 - Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>North Torrance Well Field Project, Phase III</u>					
Project serves a need of a DAC?: No					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$97,500.00	\$26,083.00	\$0.00	\$123,583.00
2	Labor Compliance Program	\$0.00	\$10,000.00	\$0.00	\$10,000.00
3	Reporting	\$0.00	\$24,800.00	\$0.00	\$24,800.00
Category (a) subtotal		\$97,500.00	\$60,883.00	\$0.00	\$158,383.00
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$613,869.00	\$0.00	\$613,869.00
\$613,869.00		\$0.00	\$613,869.00	\$0.00	\$613,869.00
\$613,869.00					
5	Feasibility Studies	\$0.00	\$489,770.00	\$0.00	\$489,770.00
6	CEQA Documentation	\$0.00	\$5,600.00	\$0.00	\$5,600.00
7	Permitting	\$0.00	\$2,912.00	\$0.00	\$2,912.00
8	Design	\$0.00	\$1,239,300.00	\$0.00	\$1,239,300.00
9	Project Performance Monitoring Plan	\$0.00	\$0.00	\$0.00	\$0.00
Category (c) subtotal		\$0.00	\$1,737,582.00	\$0.00	\$1,737,582.00
Category (d): Construction/ Implementation					
10	Contracting Services	\$0.00	\$247,860.00	\$0.00	\$247,860.00
11	Construction Administration	\$0.00	\$991,440.00	\$0.00	\$991,440.00
12	Construction				
12.1	Mobilization and Site Preparation	\$0.00	\$1,390,000.00	\$0.00	\$1,390,000.00
12.2	Project Construction	\$3,802,500.00	\$8,933,808.00	\$0.00	\$12,736,308.00
12.3	Performance Testing and Demobilization	\$0.00	\$200,000.00	\$0.00	\$200,000.00
Category (d) subtotal		\$3,802,500.00	\$11,763,108.00	\$0.00	\$15,565,608.00
Grand Total		\$3,900,000.00	\$14,175,442.00	\$0.00	\$18,075,442.00
*List sources of funding:					
City of Torrance Water Enterprise Fund					

North Torrance Well Field Project, Phase III Project**Budget**

The budget presented in the table above is considered reasonable based on current available information. The justification for each category of budget presented is provided below:

(a) Direct Project Administration**Task 1: Project Management**

The budget (\$123,583.00) for project management activities was based on prior experience on similar projects and consultant fee estimates. This cost includes County grant administration calculated as 2.5% of the total grant request for the Project (\$97,500.00). The budget for grant application preparation (\$16,083.00) was determined from a fee estimate provided in the consultant proposal. The estimate (\$10,000.00) for other Project administration activities were based on the City's hourly labor rate of \$80 and an estimated 125 hours to complete the tasks using previous experience.

Task 2: Labor Compliance Program

The budget (\$10,000.00) for Labor Compliance Program activities was based on an hourly labor rate of \$80 and an estimated 125 hours to complete the work. This budget is based on experience with similar projects.

Task 3: Reporting

The budget (\$24,800.00) for reporting activities, including progress reporting and the Final Project Completion Report, were based on the City's labor rate of \$80 and an estimated 310 hours to complete the activities under this task. It was estimated that completing progress reporting activities would take 250 hours and completing the Final Project Completion Report would take 60 hours. This budget is based on prior experience on similar projects.

(b) Land Purchase/Easement**Task 4: Land Purchase**

The budget for land purchase (\$613,869.00) represents the actual cost paid for securing easements and leasing property. The land for the wells (Project site) was purchased for \$2,100,000.00, but this occurred in August 2008 and is therefore not included in the budget. The easement from the Torrance Unified School District was secured for \$290,580.00 in August 2012 and the Southern California Edison property was leased for \$323,289.00 in June of 2015. These last two costs together comprise the budget for this task.

(c) Planning/Design/Engineering/Environmental Documentation**Task 5: Feasibility Studies**

Actual costs of \$489,770.00 were incurred for work conducted as part of 30% Design. The three feasibility studies included for this task are the Soils Report, Well No. 10 Report, and 30% Design Documents.

Task 6: CEQA Documentation

The budget (\$5,600.00) for securing a Mitigated Negative Declaration was based on the City's hourly rate of \$80 and an estimated 70 hours to complete the work. This budget is based on experience with similar projects.

Task 7: Permitting

The budget (\$2,912.00) for securing all permits required for the Project was based on actual costs paid and estimated costs based on prior experience on similar projects. The cost for securing the Construction and Excavation Permit from the City of Torrance was assumed to have no fee. It was assumed that the cost for securing the County of Los Angeles Permit is \$850.00 and the cost for securing the NPDES permit is \$2,062.00. Costs were not incurred for the other permits already obtained.

North Torrance Well Field Project, Phase III Project**Budget****Task 8: Design**

The budget (\$1,239,300.00) for design was based on a lump sum fee provided by the Engineer's Estimate that was developed for the City of Torrance. 60% Design is estimated to cost \$300,000.00; 90% Design is estimated to cost \$300,000.00; and 100% Design is estimated to cost \$639,300.00.

Task 9: Project Performance Monitoring Plan

The cost for this task is included in the cost for developing the 100% Design, under Task 8.

(d) Construction/Implementation**Task 10: Contracting Services**

The budget of \$247,860.00 for contracting services applies to developing the bid package, preparing the advertisement and contractor documents, and selecting and awarding the contract. The value is based on the *City of Torrance North Torrance Well Field Engineer's Opinion of Construction Cost Estimate, Table 9.1* that estimated \$1,239,300 for all Construction Management/Administration costs. The budget for Task 10 is assumed to be approximately 20% of this cost, based on prior experience on similar projects.

Task 11: Construction Administration

The budget of \$991,440.00 for construction administration applies to completing construction inspection reports and developing a Notice of Completion. The value is based on the *City of Torrance North Torrance Well Field Engineer's Opinion of Construction Cost Estimate, Table 9.1* that estimated \$1,239,300 for all Construction Management/Administration costs. The budget for Task 11 is assumed to be approximately 80% of this cost, based on prior experience on similar projects.

Task 12: Construction

Subtask 12.1: Mobilization and Site Preparation – The budget (\$1,390,000.00) for mobilization and site preparation activities was based on a lump sum fee provided in the *City of Torrance North Torrance Well Field Engineer's Opinion of Construction Cost Estimate, Table 9.1* that was developed for the City of Torrance. Mobilization is estimated to cost \$544,000.00 and site preparation is estimated to cost \$846,000.00.

Subtask 12.2: Project Construction – The budget (\$12,736,308.00) for construction activities, including constructing the storage tank, booster pump station, and two wells, was based on a lump sum fee provided in the *City of Torrance North Torrance Well Field Engineer's Opinion of Construction Cost Estimate, Table 9.1* that was developed for the City of Torrance. Construction of the 3 million gallon storage tank is estimated to cost \$2,000,000.00; installing manganese treatment is estimated to cost \$3,940,000.00; and construction the utility building and booster pump station is estimated to cost \$2,308,000.00. Constructing Well No. 10 is estimated to cost \$1,129,000.00 and constructing Well No. 11 is estimated to cost \$1,426,000.00. Construction costs include a 13% contingency.

Subtask 12.3: Performance Testing and Demobilization – The budget (\$200,000.00) for performance testing and demobilization activities, including removing all equipment, was based on a lump sum fee provided in the *City of Torrance North Torrance Well Field Engineer's Opinion of Construction Cost Estimate, Table 9.1*.

Upper LA River Big Tujunga Restoration and Arundo Eradication

Budget

Project 12: Upper Los Angeles River Big Tujunga Restoration and Arundo Eradication Project (Project)
Implementing Agency: National Forest Foundation (NFF)

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Upper Los Angeles River Big Tujunga Restoration and Arundo Eradication Project</u>					
Project serves a need of a DAC?: Yes					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$56,847.40	\$81,285.15	\$12,000.00	\$150,132.55
2	Labor Compliance Program	\$3,000.00	\$21,000.00	\$0.00	\$24,000.00
3	Reporting	\$3,000.00	\$18,000.00	\$3,000.00	\$24,000.00
Category (a) subtotal		\$62,847.40	\$120,285.15	\$15,000.00	\$198,132.55
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$9,000.00	\$4,000.00	\$13,000.00
6	CEQA Documentation	\$0.00	\$17,256.00	\$0.00	\$17,256.00
7	Permitting	\$0.00	\$8,000.00	\$0.00	\$8,000.00
8	Design	\$2,500.00	\$2,000.00	\$500.00	\$5,000.00
9	Project Perf. Monit. Plan	\$1,500.00	\$1,000.00	\$500.00	\$3,000.00
Category (c) subtotal		\$4,000.00	\$37,256.00	\$5,000.00	\$46,256.00
Category (d): Construction/ Implementation					
10	Contracting Services	\$2,500.00	\$2,500.00	\$0.00	\$5,000.00
11	Construction Administration	\$80,000.00	\$100,000.00	\$12,000.00	\$192,000.00
12	Construction				
12.1	Mobilization and Site Prep.	\$41,109.00	\$35,141.00	\$5,000.00	\$81,250.00
12.2	Treatment of Stands and Biomass Removal	\$650,000.00	\$867,000.00	\$108,000.00	\$1,625,000.00
12.3	Performance Tracking	\$40,000.00	\$37,650.00	\$5,000.00	\$82,650.00
Category (d) subtotal		\$813,609.00	\$1,042,291.00	\$130,000.00	\$1,985,900.00
Grand Total		\$880,456.40	\$1,199,832.15	\$150,000.00	\$2,230,288.55
<p>*List sources of funding: Los Angeles Department of Water and Power (\$880,310), Coca Cola Corporation (\$200,000), California Wildlife Conservation Board (\$150,000), Edison International (\$30,000), Miller Coors Corporation (\$100,000). Note that the sum of these funding sources totals to slightly larger than the sum of Columns (b) and (c). Some combination of these funds will be used to provide State and Non-State Cost Share in the amount of \$1,199,832.15 + \$150,000.00 = \$1,349,832.15.</p>					

Upper LA River Big Tujunga Restoration and Arundo Eradication**Budget**

The budget presented in the table above is considered reasonable based on current available information. The justification for each category of budget presented is provided below:

(a) Direct Project Administration**Task 1: Project Management**

The total budget for this task (\$150,132.55) includes grant application preparation and grant administration. Grant application preparation fees are actual costs from the consultant (\$16,083.00). Estimates for other Project administration activities were based on the National Forest Foundation's previous experience gained from prior eradication projects. County grant administration costs are assumed to be 2.5% of the total grant request.

Task 2: Labor Compliance Program

The budget (\$24,000) for complying with the Labor Compliance Program requirements is based on the labor wage for National Forest Foundation's staff multiplied by the anticipated number of hours to complete the task based on previous experience gained from prior projects. It is assumed that this work will take 10 hours per month to complete, for 48 months, at an average billing rate of \$50/hour.

Task 3: Reporting

The estimate for reporting activities (\$24,000.00) was based on the National Forest Foundation's labor rates and an estimated number of hours to complete the tasks based on previous experience gained from prior projects. It is assumed that this work will take 10 hours per month to complete, for 48 months, at a billing rate of \$50/hour. The budget for this task is estimated to be the same as the budget for Task 2.

(b) Land Purchase/Easement**Task 4: Land Purchase**

Not Applicable

(c) Planning/Design/Engineering/Environmental Documentation**Task 5: Feasibility Studies**

The budget (\$13,000) for completing the Project Plan represents the actual cost paid to the Council for Watershed Health and the National Forest Foundation for assistance in developing the Plan in 2015.

Task 6: CEQA Documentation

The budget (\$17,256.00) for preparing a Draft and Final Mitigated Negative Declaration (MND) and Notice of Determination (NOD), as well as preparing a Draft Environmental Analysis represents the actual costs for work paid to R.A. Atmore & Sons, Inc. and the National Forest Foundation for developing these documents. They were completed in August 2014 and April 2015, respectively. The budget for completing the Final Environmental Analysis is based on an initial cost estimate developed in May 2015 by Dendra, Inc.

Task 7: Permitting

The budget (\$8,000.00) for preparing permit applications for the 1600 Permit and General Permit 41 is based on an assumed lump sum for preparing these applications, based on costs prepared by Dendra, Inc. in 2015.

Task 8: Design

The budget (\$5,000.00) for developing plans and specifications to be used for Project implementation is based on National Forest Foundation's staff time and estimated number of hours to complete the work based on previous experience on prior projects. It is assumed that this work will take 100 hours to complete at a billing rate of \$50/hour.

Upper LA River Big Tujunga Restoration and Arundo Eradication**Budget****Task 9: Project Performance Monitoring Plan**

The budget (\$3,000.00) for developing a Project Performance Monitoring Plan is based on National Forest Foundation's staff time and estimated number of hours to complete the work based on previous experience on prior projects. It is assumed that this work will take 60 hours to complete at a billing rate of \$50/hour.

(d) Construction/Implementation**Task 10: Contracting Services**

The budget (\$5,000) for preparing construction packages, advertising, developing contract awards, and issuing notices-to-proceed is based on National Forest Foundation's staff labor rates and previous experience on prior projects. It is assumed that this work will take 100 hours to complete at a billing rate of \$50/hour.

Task 11: Construction Administration

The budget (\$192,000.00) for construction administration, including overseeing construction activities and inspection services, is based on National Forest Foundation's staff labor rates and previous experience on prior projects. It is assumed that this work will take approximately 20 hours per week to complete, for approximately 48 months, at a billing rate of \$50/hour.

Task 12: Construction

Subtask 12.1: Mobilization and Site Preparation – The budget (\$81,250.00) associated with labor for mobilization and site preparation is based on the National Forest Foundation's previous experience with prior projects. It includes scouting treatment locations, identifying access and egress routes, designating staging locations, and determining locations for biomass disposal. It was estimated that the budget needed to perform the work under this task would be approximately 5 percent of the total implementation costs summarized below in Subtask 12.2.

Subtask 12.2: Treatment of Stands and Biomass Removal – The budget (\$1,625,000.00) associated with labor to treat Arundo stands and remove the biomass is based National Forest Foundation's previous experience on similar projects. It was assumed that treating the Arundo stands will cost \$9,500 per acre and removing the biomass will cost \$23,000 per acre for a total of 50 acres.

Subtask 12.3: Performance Tracking – The budget (\$82,650.00) associated with labor for performance tracking during Project implementation is based on National Forest Foundation's previous experience on prior projects and includes effectiveness tracking, mapping, and reporting. It is assumed, based on communication with National Forest Foundation, that tracking in 2015 will cost \$30,000, tracking in 2016 will cost \$20,000, and tracking in 2017, 2018, and 2019 will cost, combined, \$30,000. Report writing is assumed to cost \$2,650, based on an hourly rate of \$50.00 and 53 hours to complete.

Nitrate Removal Treatment Facility at Well 2 Project

Budget

Project 13: Nitrate Removal Treatment Facility at Well 2 Project (Project)

Implementing Agency: Crescenta Valley Water District (CVWD)

Table 8 - Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Nitrate Removal Treatment Facility at Well 2</u>					
Project serves a need of a DAC?: No					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$16,083.00	\$30,767.50	\$0.00	\$46,850.50
2	Labor Compliance Program	\$6,050.00	\$1,450.00	\$0.00	\$7,500.00
3	Reporting	\$4,545.00	\$2,955.00	\$0.00	\$7,500.00
Category (a) subtotal		\$26,678.00	\$35,172.50	\$0.00	\$61,850.50
Category (b): Land Purchase / Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$0.00	\$0.00	\$0.00
6	CEQA Documentation	\$6,410.08	\$5,576.20	\$0.00	\$10,708.00
7	Permitting	\$7,878.00	\$6,769.76	\$0.00	\$13,000.00
8	Design	\$71,508.00	\$61,448.55	\$0.00	\$118,000.00
9	Project Performance Monitoring Plan	\$606.00	\$520.75	\$0.00	\$1,000.00
Category (c) subtotal		\$86,402.08	\$56,305.92	\$0.00	\$142,708.00
Category (d): Construction / Implementation					
10	Contracting Services	\$606.00	\$394.00	\$0.00	\$1,000.00
11	Construction Admin.	\$43,389.60	\$28,210.40	\$0.00	\$71,600.00
12	Construction				
12.1	Mobilization, Site Preparation and Underground Utilities	\$111,891.84	\$72,748.16	\$0.00	\$184,640.00
12.2	Project Implementation	\$706,737.60	\$462,542.40	\$0.00	\$1,169,280.00
12.3	Performance Testing	\$74,659.20	\$48,540.80	\$0.00	\$123,200.00
12.4	Demobilization	\$37,135.68	\$24,144.32	\$0.00	\$61,280.00
Category (d) subtotal		\$974,419.92	\$636,580.08	\$0.00	\$1,611,000.00
Grand Total		\$1,087,500.00	\$728,058.50	\$0.00	\$1,815,558.50
*List sources of funding:					
CVWD Capital Improvement Program for FY 15/16 & FY 16/17 = \$578,058.50					
APT Water for cost share on nitrate treatment system = \$150,000.00					

Nitrate Removal Treatment Facility at Well 2 Project**Budget**

The budget presented in the table above is considered reasonable based on current available information. The following CVWD staff disciplines and average hourly wages were used to estimate the budget for the activities below: District Engineer (DE) at \$100/hour, Associate Engineer (AE) at \$70/hour, and Administrative Assistant (AA) at \$45/hour. The justification for each category of the budget is provided below:

(a) Direct Project Administration**Task 1: Project Management**

The Project management cost of \$46,850.50 is based on the estimated costs to manage the grant. This includes a cost of \$16,083 for grant application preparation determined from a fee estimate provided by the consultant proposal and a cost of \$27,187.50 for grant administration calculated as 2.5% of the total grant request for this Project. Additional project management costs related to invoicing and general coordination are based on an estimated 8 hours for a DE, 32 hours for an AE, and 12 hours for an AA. Hours are based on previous experience with similar projects.

Task 2: Labor Compliance Program

Estimates for the \$7,500 Labor Compliance Program budget were based on a \$4,560 proposal from a Labor Compliance consultant and an estimated 24 hours for a DE and 12 hours for an AA for the remaining portion. Hours are based on previous experience with similar projects.

Task 3: Reporting

The budget of \$7,500 for reporting activities is a combination of work for the Quarterly and Annual Progress Reports and the Final Report. It was based on a combined estimate of 16 hours for a DE, 65 hours for an AE, and 30 hours for an AA. Hours are based on previous experience with similar projects.

(b) Land Purchase/Easement**Task 4: Land Purchase**

The land on which the Project will be completed was purchased in 1950, and no new land purchases are planned.

(c) Planning/Design/Engineering/Environmental Documentation**Task 5: Feasibility Studies**

There are no costs for the feasibility studies. Costs to complete studies used as technical justification for the Project were borne by other entities and were completed prior to January 2011, as explained in the Work Plan.

Task 6: CEQA Documentation

The budget of \$10,708.00 for CEQA is based on actual and estimated labor, plus fees. Estimates to prepare the initial study are based on 40 hours for a DE and 24 hours for an AA, plus \$5,628 in fees. Hourly estimates are based on experience with similar projects.

Task 7: Permitting

The budget of \$13,000 for permitting is based on estimated labor and permit fees. This task involves five permits. Estimates are based on 8 hours for an AE and 4 hours for an AA for each permit, plus permit fees varying between \$1,000 and \$3,000. Hourly estimates are based on experience with similar projects.

Nitrate Removal Treatment Facility at Well 2 Project**Budget****Task 8: Design**

The \$118,000.00 estimate to complete the Preliminary Design Technical Memorandum is based on 1 hour for a DE, 4 hours for an AE, and 2 hours for an AA, plus a \$4,000 lump sum payment for a Design Engineering Consultant, for a total of \$4,470. The estimates to complete the 60%, 90%, and 100% Design Submittals are each based on 4 hours for a DE, 8 hours for an AE, and 2 hours for an AA, with an estimated 14 hours per submittal, plus variable lump sum payments of \$42,000, \$52,000, and \$16,380, respectively, for a Design Engineering Consultant.

Task 9: Project Performance Monitoring Plan

The cost of \$1,000.00 to prepare the Project Performance Monitoring Plan is based on 10 hours for an AE and 4 hours for an AA, plus miscellaneous expenses of \$120.

(d) Construction/Implementation**Task 10: Contracting Services**

The \$1,000.00 cost estimate for developing the bid package, preparing the advertisement and contractor documents, and selecting and awarding the contract is based on 10 hours for an AE and 4 hours for an AA, plus miscellaneous costs of \$120.

Task 11: Construction Administration

The estimated cost of \$71,600.00 for construction administration is based on an estimated 10 hours for a DE, 8 hours for an AE, and 2 hours for an AA, plus lump sum payments to construction management (\$62,000), geotechnical (\$5,000) and survey consultants (\$2,950) totaling \$69,950, which are based on previous costs for similar services.

Task 12: Construction

Subtask 12.1: Mobilization, Site Preparation and Underground Utilities – The estimated cost of \$184,640.00 for this subtask is based on the in-house engineer's estimate.

Subtask 12.2: Project Implementation – The estimated cost of \$1,169,280.00 for this subtask is based on estimated construction costs from past CVWD projects and preliminary quotes from vendors and contractors. It includes the following tasks, plus 20 percent of all construction (Task 12) costs as contingency:

- *ARoNite system (costs based on APT Water's Nitrate Reduction Proposal P100 for CVWD, July 8, 2015):* \$700,000.
- *Well rehabilitation and pump & motor installation (costs were estimated based on CVWD's Well E-934 Rehabilitation Project from November 2013):* 150 gpm submersible pump and motor assembly, column piping, discharge head, miscellaneous pump & appurtenances, 30 hours of bailing/brushing/well development, constant rate & 24-hour pump test, and startup & testing. Total = \$45,000.
- *Building and site improvements (costs were estimated based on CVWD's Rockhaven Well Project):* electrical, SCADA & telemetry, onsite piping, pump control valve, check valve, piping to reservoir and appurtenances, 150 LF of sewer lateral, building & chlorination system and equipment, and site work. Total = \$714,000.

Subtask 12.3: Performance Testing – The estimated cost of \$123,200.00 is based on the engineer's estimate.

Subtask 12.4: Demobilization – The estimated cost of \$61,280.00 for this subtask is based on the engineer's estimate.

Subtask 12.4: Demobilization – The estimated cost of \$61,280 for this subtask is based on the engineer's estimate.

Hoover, Toll, & Keppel School Recycled Water Project

Budget

Project 14: Hoover, Toll, & Keppel School Recycled Water (Project)

Implementing Agency: Glendale Water and Power (GWP)

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Hoover, Toll, & Keppel School Recycled Water</u>					
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
Category (a) Direct Project Administration					
1	Project Management	\$21,780.00	\$70,218.00	\$0.00	\$91,998.00
2	Labor Compliance Program	\$7,500.00	\$2,500.00	\$0.00	\$10,000.00
3	Reporting	\$0.00	\$7,055.50	\$0.00	\$7,055.50
Category (a) subtotal		\$29,280.00	\$79,773.50	\$0.00	\$109,053.50
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$0.00	\$0.00	\$0.00
6	CEQA Documentation	\$0.00	\$0.00	\$0.00	\$0.00
7	Permitting	\$4,312.50	\$1,437.50	\$0.00	\$5,750.00
8	Design	\$67,352.78	\$22,450.92	\$0.00	\$89,803.70
9	Project Performance Monitoring Plan	\$0.00	\$8,000.00	\$0.00	\$8,000.00
Category (c) subtotal		\$71,665.28	\$31,888.42	\$0.00	\$103,553.70
Category (d): Construction/ Implementation					
10	Contracting Services	\$40,977.00	\$13,659.00	\$0.00	\$54,636.00
11	Construction Administration	\$66,877.50	\$22,292.50	\$0.00	\$89,170.00
12	Construction				
12.1	Mobilization and Site Preparation	\$108,750.00	\$36,250.00	\$0.00	\$145,000.00
12.2	Project Construction	\$1,403,167.88	\$467,722.63	\$0.00	\$1,870,890.51
12.3	Performance Testing and Demobilization	\$154,282.34	\$68,903.68	\$0.00	\$223,186.02
Category (d) subtotal		\$1,774,054.72	\$608,827.81	\$0.00	\$2,382,882.53
Grand Total		\$1,875,000.00	\$720,489.73	\$0.00	\$2,595,489.73
*List sources of funding: 100% of the match will come from Glendale Water & Power’s annual capital budget.					

Hoover, Toll, & Keppel School Recycled Water Project**Budget**

The budget presented in the table above is considered reasonable based on current available information. The justification for each category of budget presented is provided below:

(a) Direct Project Administration**Task 1: Project Management**

Estimates for Project Management activities are based on the City of Glendale labor rates and an estimated number of hours to complete the tasks based on previous experience on similar projects. This budget includes the costs for preparation of the grant application (\$16,083), which was obtained from the consultant, and it includes a grant administration fee for Los Angeles County Flood Control District (LACFCD) of 2.5 percent of the total grant request (\$46,875). The budget for this task was calculated by estimating 605 hours of project management tasks at an average GWP staff hourly rate of approximately \$48 per hour and adding it to the grant preparation costs for a total of \$91,998.

Task 2: Labor Compliance Program

Estimates for Labor Compliance Program (LCP) activities are based on a lump sum amount of \$10,000. This estimate is based on past experience with similar recycled water pipeline extension projects and includes the costs related to preparation of an LCP and implementation by the contractor during construction. The City used a purchase order that had previously been prepared for Perceptive Enterprises to estimate LCP services.

Task 3: Reporting

Estimates for reporting activities are based on GWP staff hourly labor rates of approximately \$103 per hour and an estimated 69 hours for a total of \$7,055.50. The estimate was based on the *GFS Project Cost Report* maintained by GWP.

(b) Land Purchase/Easement**Task 4: Land Purchase**

Not Applicable.

(c) Planning/Design/Engineering/Environmental Documentation**Task 5: Feasibility Studies**

This task was completed in 2007. The *City of Glendale Recycled Water System Improvement and Extension Plan* was prepared for a fee of \$10,300 but is not included in the budget since it was completed before January 1, 2011.

Task 6: CEQA Documentation

Documentation of Notice of Exemption was completed at a cost of \$2,200. However this fee is not included in the Project costs since it was completed before January 1, 2011.

Task 7: Permitting

The \$5,750 budget for preparing permit applications for an Excavation Permit, Encroachment Permit, and Street Use Permit is based on the *E.J. Meyer Bid Proposal Sheet* and the *City of Glendale Fee Schedule*.

Task 8: Design

The budget of \$89,803.70 for developing plans, designs, and specifications is based on similar design build projects completed by GWP with E.J. Meyer Company. It is based on the *E.J. Meyer Bid Proposal Sheet*.

Hoover, Toll, & Keppel School Recycled Water Project**Budget****Task 9: Project Performance Monitoring Plan**

The budget of \$8,000 for developing a Project Performance Monitoring Plan (PMP) is based on similar recycled water pipeline projects. It assumes that GWP staff will complete and implement the PMP using approximately 80 hours at a staff billing rate of approximately \$100 per hour. Costs are based on the *GFS Project Cost Report*.

(d) Construction/Implementation**Task 10: Contracting Services**

The \$54,636.00 budget for preparing construction big packages, advertising, developing contract awards, issuing notices-to-proceed, and developing post-construction easement survey maps is based on GWP PeopleSoft Project Report on a similar project and E.J. Meyer Company costs per the *GFS Project Cost Report*. These costs include labor rates of \$48 per hour and assume approximately 20 hours, along with bonds and insurance totaling \$53,676 as specified in E.J. Meyer Invoice No. 10.

Task 11: Construction Administration

The budget of \$89,170 for construction administration, including overseeing construction activities and inspection services, is based on a GWP PeopleSoft Project Report on a similar project and other invoice tracking from consultants on a similar project. These costs are based on CivilSource Invoice Tracking and the GFS Project Cost Report and include GWP staff time of approximately 90 hours at a rate of \$48 per hour, plus lump sum estimates for construction management (\$46,140) and field support/inspection (\$38,710).

Task 12: Construction

Subtask 12.1: Mobilization and Site Preparation – The budget of \$145,000 associated with labor and materials for mobilization and site preparation is based on an E.J. Meyer Company Bid Proposal on a similar recycled water pipeline project.

Subtask 12.2: Project Construction – The budget of \$1,870,890.51 associated with labor and materials is based on an E.J. Meyer Company Bid Proposal. It includes materials for installation of pipes, hydrants, valves, and other appurtenances; an allowance for equipment used during construction; labor for excavation, pipeline installation, backfill, paving, testing, and commissioning; and a 10 percent assumed construction contingency.

Subtask 12.3: Performance Testing and Demobilization – The budget of \$223,186.02 associated with labor for demobilization activities, including removing equipment and materials from the Project site, is based on an E.J. Meyer Company Bid Proposal.

Lopez Spreading Grounds Improvement Project

Budget

Project 15: Lopez Spreading Grounds Improvement Project (Project)

Implementing Agency: Los Angeles County Flood Control District (LACFCD)

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Lopez Spreading Grounds Improvement Project</u>					
Project serves a need of a DAC?: Yes					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$0.00	\$266,632.28	\$0.00	\$266,632.28
2	Labor Compliance Program	\$0.00	\$30,000.00	\$0.00	\$30,000.00
3	Reporting	\$0.00	\$13,532.92	\$0.00	\$13,532.92
Category (a) subtotal		\$0.00	\$310,165.20	\$0.00	\$310,165.20
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$15,145.90	\$0.00	\$15,145.90
6	CEQA Documentation	\$0.00	\$648.58	\$0.00	\$648.58
7	Permitting	\$0.00	\$18,309.60	\$0.00	\$18,309.60
8	Design	\$300,000.00	\$379,188.58	\$0.00	\$679,188.58
9	Project Performance Monitoring Plan	\$0.00	\$5,196.04	\$0.00	\$5,196.04
Category (c) subtotal		\$300,000.00	\$418,488.70	\$0.00	\$718,488.70
Category (d): Construction/ Implementation					
10	Contracting Services	\$0.00	\$15,877.58	\$0.00	\$15,877.58
11	Construction Administration	\$0.00	\$209,474.70	\$0.00	\$209,474.70
12	Construction				
12.1	Mobilization	\$0.00	\$300,000.00	\$0.00	\$300,000.00
12.2	Project Construction	\$1,700,000.00	\$2,751,493.53	\$0.00	\$4,451,493.53
12.3	Demobilization and Performance Testing	\$0.00	\$99,000.00	\$0.00	\$99,000.00
Category (d) subtotal		\$1,700,000.00	\$3,375,845.81	\$0.00	\$5,075,845.81
Grand Total		\$2,000,000.00	\$4,104,499.71	\$0.00	\$6,104,499.71
*List sources of funding:					
Up to \$2 Million will be provided by Project Partner Los Angeles Department of Water and Power.					
The remaining portion of the cost share will be provided by LACFCD’s Flood Fund.					

Lopez Spreading Grounds Improvement Project**Budget**

The budget presented in the table above is considered reasonable based on current available information. The justification for each category of budget presented is provided below. The following LACFCD staff disciplines and average hourly wages were used to estimate the budget for the activities below: Senior Civil Engineer (SCE) at \$147.16/hour, Civil Engineer (CE) at \$131.36/hour, Associate Civil Engineer (ACE) at \$116.18/hour, Civil Engineer Assistant (CEA) at \$89.44/hour.

(a) Direct Project Administration**Task 1: Project Management**

The project management cost of \$266,632.28 includes a cost of \$16,083 for grant application preparation determined from the consultant's fee estimate, as well as an additional \$9,523.44 for in-house LACFCD time and labor to prepare the application based on an estimated 9 hours by SCEs, 13 hours by CEs, 22 hours by ACEs, and 44 hours by CEAs. The cost for grant administration for the Project is \$50,000, calculated as 2.5% of the grant request. Additional project management costs related to invoicing, coordination with the grant administration staff, and general project management are estimated as costing approximately \$191,025.84 using an estimated 173 hours by SCEs, 265 hours by CEs, 438 hours by ACEs, and 893 hours by CEAs using experience with similar spreading grounds improvements projects.

Task 2: Labor Compliance Program

LACDPW already has a Labor Compliance Program in place so will not incur any costs to prepare the program. Costs to implement the program are based on the Scope of Work for a similar project and are estimated using the average monthly cost of \$ 3,000/month for the 10-month duration of construction.

Task 3: Reporting

The \$13,532.92 budget for reporting activities was calculated based on an estimated effort of 5 hours by SCEs, 19 hours by CEs, 24 hours by ACEs, and 84 hours by CEAs. These estimates are based on actual reporting costs incurred for projects that have been awarded Proposition 84, Round 2 grant funds and assumed approximately 1.5 years for reporting for this project from the award of the grant to the submission of the Final Project Report.

(b) Land Purchase/Easement**Task 4: Land Purchase**

The Project does not require the purchase of land nor the acquisition of an easement.

(c) Planning/Design/Engineering/Environmental Documentation**Task 5: Feasibility Studies**

The cost of \$15,145.90 to complete the Project Concept Report in 2013 reflects the actual hours worked by LACFCD staff: 14 hours by SCEs, 21 hours by CEs, 35 hours by ACEs, and 70 hours by CEAs.

Task 6: CEQA Documentation

Costs to prepare and file the Notice of Exemption were estimated to cost \$648.58 based on requiring approximately one hour each for a SCE, CE, and ACE, and two hours for a CEA as well as a \$75 filing fee.

Task 7: Permitting

The estimated cost of \$18,309.60 for this task is based on the costs to obtain the Section 408 Permit from the US Army Corps of Engineers (USACE). Work to obtain the Section 408 Permit is almost complete and is expected to require 17 hours by SCEs, 26 hours by CEs, 42 hours by ACEs, and 84 hours by CEAs.

Lopez Spreading Grounds Improvement Project**Budget****Task 8: Design**

The \$679,188.58 budget for design is mainly based on actual costs incurred for this task as the Project is currently completing final design. The 60% design packet cost a total of \$93,816.99 with approximately 40 hours by SCEs, 170 hours by CEs, 370 hours by ACE, 90 hours by CEAs, and approximately 140 additional hours of miscellaneous LACFCD positions and pay rates. The 90% design packet cost a total of \$239,179.59 with approximately 90 hours by SCEs, 230 hours by CEs, 690 hours by ACEs, 700 hours by CEAs, and approximately 380 additional hours of miscellaneous LACFCD positions and pay rates. The 100% design packet is currently being prepared and expected to cost approximately \$346,192.00 with approximately 320 hours by SCEs, 480 hours by CEs, 800 hours by ACEs, and 1,600 hours by CEAs. The need for more detailed work as well as the need for the involvement of more senior staff has attributed to the difference in cost between the various design phases.

Task 9: Project Performance Monitoring Plan

The cost of \$5,196.04 to prepare the Project Performance Monitoring Plan is based on previous project experience. The estimate assumes 5 hours by SCEs, 7 hours by CEs, 12 hours by ACEs, and 24 hours by CEAs.

(d) Construction/Implementation**Task 10: Contracting Services**

Contracting Services to develop the bid documents, advertise the award, evaluate the bids, award the contract and issue the Notice to Proceed are estimated to cost approximately \$15,877.58 based on experience with similar LACFCD spreading grounds improvement projects. This cost assumes 15 hours by SCEs, 23 hours by CEs, 37 hours by ACEs, and 71 hours by CEAs.

Task 11: Construction Administration

The \$209,474.70 cost for construction administration was estimated at approximately 5% of the Project construction cost using previous experience with other spreading grounds improvement projects. This includes an estimated 55 hours by SCEs, 140 hours by CEs, 275 hours by ACEs, and 550 hours by CEAs. An additional 1,100 hours for an Inspector at approximately \$92.59 an hour is also included.

Task 12: Construction

Subtask 12.1: Mobilization – Mobilization and demobilization combined are estimated at approximately 10% of the estimated construction contract cost. Mobilization is estimated at approximately 75% of this estimate at \$300,000.

Subtask 12.2: Project Construction – Based on the LACFCD's Engineers Estimate, the total construction cost, including labor and equipment, is estimated to be \$4,451,493.53, which includes a 10% contingency of \$461,440.53. The \$3,990,053 base construction cost includes: \$20,000 for Storm Water Pollution Prevention Plan, \$722,397 for excavation of the sediment, \$1,187,643 for offsite sediment disposal, \$236,684 for pavement and curbs, \$86,887 for crushed base, \$439,350 for 1,464.5 linear feet (LF) of 36" reinforced concrete pipeline (RCP) at \$300/LF, \$107,902 for the new RCP outlet structure, \$222,667 for the weir structure, \$25,558 for basin retaining walls, \$128,904 for riprap, \$480,000 for nine gate assemblies and \$31,179 for the down drain. Electrical work and a new service connection is expected to cost approximately \$118,000. The remaining \$182,882 is the compiled cost of many small individual construction material line item costs.

Subtask 12.3: Demobilization and Performance Testing – Mobilization and demobilization combined are estimated at approximately 10% of the estimated construction contract cost. Demobilization and performance testing costs are estimated at approximately 25% of this estimate at \$99,000.

Big Dalton Spreading Grounds Improvement Project

Budget

Project 16: Big Dalton Spreading Grounds Improvement Project (Project)
Implementing Agency: Los Angeles County Flood Control District (LACFCD)

Table 8 - Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Big Dalton Spreading Grounds Improvement Project</u>					
Project serves a need of a DAC?: No					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$9,726.48	\$205,428.32	\$0.00	\$215,154.80
2	Labor Compliance Program	\$0.00	\$27,000.00	\$0.00	\$27,000.00
3	Reporting	\$20,188.52	\$4,460.24	\$0.00	\$24,648.76
Category (a) subtotal		\$29,915.00	\$236,888.56	\$0.00	\$266,803.56
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$198,997.20	\$0.00	\$198,997.20
6	CEQA Documentation	\$0.00	\$13,845.00	\$0.00	\$13,845.00
7	Permitting	\$0.00	\$30,323.40	\$0.00	\$30,323.40
8	Design	\$450,000.00	\$91,928.20	\$0.00	\$541,928.20
9	Project Performance Monitoring Plan	\$0.00	\$4,558.52	\$0.00	\$4,558.52
Category (c) subtotal		\$450,000.00	\$339,652.32	\$0.00	\$789,652.32
Category (d): Construction/ Implementation					
10	Contracting Services	\$0.00	\$15,090.28	\$0.00	\$15,090.28
11	Construction Administration	\$0.00	\$114,079.80	\$0.00	\$114,079.80
12	Construction				
12.1	Mobilization	\$100,000.00	\$100,000.00	\$0.00	\$200,000.00
12.2	Project Construction	\$1,320,085.00	\$1,428,012.00	\$0.00	\$2,748,097.00
12.3	Demobilization and Performance Testing	\$100,000.00	\$100,000.00	\$0.00	\$200,000.00
Category (d) subtotal		\$1,520,085.00	\$1,757,182.08	\$0.00	\$3,277,267.08
Grand Total		\$2,000,000.00	\$2,333,722.96	\$0.00	\$4,333,722.96
*List sources of funding:					
The entire cost share will be provided by LACFCD's Flood Fund					

Big Dalton Spreading Grounds Improvement Project**Budget**

The budget presented in the table above is considered reasonable based on current available information. The justification for each category of budget presented is provided below. The following LACFCD staff disciplines and average hourly wages were used to estimate the budget for the activities below: Senior Civil Engineer (SCE) at \$147.16/hour, Civil Engineer (CE) at \$131.36/hour, Associate Civil Engineer (ACE) at \$116.18/hour, and Civil Engineer Assistant (CEA) at \$89.44/hour.

(a) Direct Project Administration**Task 1: Project Management**

The project management cost of \$215,154.80 includes a cost of \$16,083 for grant application preparation determined from the consultant's fee estimate, as well as an additional \$9,523.44 for in-house LACFCD time and labor to prepare the application based on an estimated 9 hours for a SCE, 13 hours for a CE, 22 hours for an ACE, and 44 hours for a CEA. The cost for grant administration for the Project is \$50,000, calculated as 2.5% of the grant request. Additional project management costs related to invoicing, coordination with the grant administration staff, and general project management are estimated as costing approximately \$139,548.36 using an estimated 120 hours for a SCE, 194 hours for a CE, 314 hours for an ACE, and 670 hours for a CEA using experience with a similar project experience with similar projects such as the Walnut Spreading Grounds Improvement Project (Walnut Project) that began in 2009.

Task 2: Labor Compliance Program

LACDPW already has a Labor Compliance Program in place so will not incur any costs to prepare the program. Costs to implement the program are based on the Scope of Work for a similar project and are estimated using the average monthly cost of \$ 3,000/month for the approximate 9-month duration of construction totaling \$27,000.

Task 3: Reporting

The \$24,648.76 budget for reporting activities was estimated as requiring 5 hours for a SCE, 35 hours for a CE, 40 hours for an ACE, and 164 hours for a CEA, based on the Eaton Wash Phase 1 Project and an assumed ratio of time spent per classification.

(b) Land Purchase/Easement**Task 4: Land Purchase**

No land purchase or easement is required for this project so there are no costs associated with this task.

(c) Planning/Design/Engineering/Environmental Documentation**Task 5: Feasibility Studies**

The estimated cost of \$198,997.20 to complete the Project Concept Report is based the actual level effort expended so far to complete the project scoping, investigations, and draft Concept Report as well as the assumed level of effort remaining for LACFCD staff to complete the final report. This includes 180 hours for a SCE, 280 hours for a CE, 460 hours for an ACE, and 920 hours for a CEA.

Task 6: CEQA Documentation

Costs to conduct a CEQA Initial Study and prepare the draft and final Mitigated Negative Declaration and associated materials for the Project were estimated to cost approximately \$13,845.00 based the level of effort required for previous projects. This estimate assumes approximately 10 hours for a SCE, 20 hours for a CE, 30 hours for an ACE, and 70 hours for a CEA.

Task 7: Permitting

The estimated cost of \$30,323.40 for this task is based on the costs to obtain all required permits for the Project based on an assumed 30 hours for a SCE, 40 hours for a CE, 70 hours for an ACE, and 140 hours for a CEA.

Big Dalton Spreading Grounds Improvement Project**Budget****Task 8: Design**

The \$541,928.20 budget for design is based on experience implementing the Walnut Project. The 60% design packet is estimated to cost a total of \$193,838.60 to complete - 180 hours for a SCE, 270 hours for a CE, 450 hours for an ACE, and 890 hours for a CEA. The 90% design packet is estimated to cost a total of \$193,838.60 for 180 hours for a SCE, 270 hours for a CE, 450 hours for an ACE, and 890 hours for a CEA. The 100% design is estimated to cost \$154,251 based on an estimated 145 hours for a SCE, 210 hours for a CE, 360 hours for an ACE, and 710 hours for a CEA.

Task 9: Project Performance Monitoring Plan

The cost of \$4,558.52 to prepare the Project Performance Monitoring Plan is based on project experience with the Walnut Project monitoring plan which is currently in progress. The estimate assumes 2 hours for a SCE, 10 hours for a CE, 10 hours for an ACE, and 20 hours for a CEA.

(d) Construction/Implementation**Task 10: Contracting Services**

Contracting Services to develop the bid documents, advertise the award, evaluate the bids, award the contract and issue the Notice to Proceed are estimated to cost approximately \$15,090.28 based on past experience with similar projects. This cost assumes 10 hours for a SCE, 19 hours for a CE, 38 hours for an ACE, and 75 hours for a CEA.

Task 11: Construction Administration

The \$114,079.80 cost for construction administration was estimated at approximately 5% of the Project construction cost using previous experience. This includes an estimated 30 hours for a SCE, 75 hours for a CE, 150 hours for an ACE, and 300 hours for a CEA. An additional 600 hours for an Inspector at approximately \$92.59 an hour is also included.

Task 12: Construction

Subtask 12.1: Mobilization – The budget of \$200,000 for mobilization is based past experience with the Walnut Project and other similar spreading grounds projects.

Subtask 12.2: Project Construction – The total construction cost of \$2,748,097.00 is based on the draft Project Concept Report analyses. This includes \$2,450,180.00 for construction costs and an additional \$297,917.00 in contingency based on approximately 10% of the construction cost estimate. The \$2,450,180.00 construction cost estimate includes approximately \$1,855,180 for the basin improvements, \$215,000 for the junction box improvements, and \$380,000 for the channel diversion. The basin improvements cost includes: \$1,582,130 for excavation and transportation of sediment, \$49,000 for removal of the 7 existing interbasin structures at \$7,000 each, \$100,000 for the 4 new interbasin structures at \$25,000 each, \$116,050 for the 1,055 cubic yards (CY) of slurry for the slurry wall at \$110/CY, and \$8,000 for the rip rap. The junction box improvements cost includes: \$125,000 for the rubber dam and controls, \$20,000 for the electronic motor operators (EMO), and \$70,000 for the electrical work. The channel diversion cost includes: \$40,000 for the 48"x48" slide gate & EMO, \$160,000 for the rubber dam and controls, \$85,000 for the control house, \$20,000 for the 10 CY of structure concrete at \$2,000/CY, \$72,000 for 180 linear feet (LF) of 36" reinforced concrete pipe at \$400/LF, and \$3,000 for the rip rap.

Subtask 12.3: Demobilization and Performance Testing – A budget of \$200,000 for Demobilization and Performance Testing is based on previous experience with similar spreading grounds projects.

Live Oak Well VOC Treatment Facility Project

Budget

Project 17: Live Oak Well VOC Treatment Facility Project (Project)

Implementing Agency: City of Arcadia (City)

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Live Oak Well VOC Treatment Facility</u>					
Project serves a need of a DAC?: No					
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
Category (a) Direct Project Administration					
1	Project Management	\$26,027.08	\$70,380.87	\$0.00	\$96,407.95
2	Labor Compliance Program	\$4,964.54	\$6,271.86	\$0.00	\$11,236.40
3	Reporting	\$6,078.23	\$7,678.84	\$0.00	\$13,757.07
Category (a) subtotal		\$37,069.85	\$84,331.01	\$0.00	\$121,400.86
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$14,023.82	\$0.00	\$14,023.82
6	CEQA Documentation	\$8,822.87	\$11,146.23	\$0.00	\$19,969.10
7	Permitting	\$18,802.97	\$23,754.43	\$0.00	\$42,557.40
8	Design	\$193,188.51	\$244,061.49	\$0.00	\$437,250.00
9	Project Performance Monitoring Plan	\$13,026.30	\$16,456.55	\$0.00	\$29,482.85
Category (c) subtotal		\$233,840.66	\$309,442.51	\$0.00	\$543,283.17
Category (d): Construction/ Implementation					
10	Contracting Services	\$4,430.57	\$5,597.28	\$0.00	\$10,027.85
11	Construction Administration	\$80,858.75	\$102,151.55	\$0.00	\$183,010.30
12	Construction				
12.1	Mobilization	\$8,859.08	\$11,163.74	\$0.00	\$20,022.82
12.2	Site Preparation	\$33,136.97	\$41,863.03	\$0.00	\$75,000.00
12.3	Project Construction	\$1,055,412.37	\$1,333,337.63	\$0.00	\$2,388,750.00
12.4	Instrumentation Installation	\$44,182.62	\$55,817.38	\$0.00	\$100,000.00
12.5	Demobilization & Cleanup	\$2,209.13	\$2,790.87	\$0.00	\$5,000.00
Category (d) subtotal		\$1,229,089.49	\$1,552,721.48	\$0.00	\$2,781,810.97
Grand Total		\$1,500,000.00	\$1,946,495.00	\$0.00	\$3,446,495.00
*List sources of funding:					
City of Arcadia Water Fund (Capital Reserve Fund): \$1,946,495					

Live Oak Well VOC Treatment Facility Project**Budget**

The budget presented in the table above is considered reasonable based on current available information. The following City of Arcadia staff disciplines and average hourly wages were used to estimate the budget for the activities below: Deputy Public Works Director (DPWD) at \$108.04/hour, Principal Civil Engineer (PCE) at \$88.69/hour, Associate Civil Engineer (ACE) at \$69.07/hour, Assistant Engineer (AE) at \$62.59/hour, Management Analyst (MA) at \$67.59/hour and Public Works Inspector (PWI) at \$56.70/hour. The justification for each category of budget presented is provided below:

(a) Direct Project Administration**Task 1: Project Management**

The project management cost of \$96,407.39 is based on the estimated costs to manage the grant. This includes a cost of \$16,083 for grant application preparation, determined from a fee estimate provided by the consultant proposal, and a cost of \$37,500 for grant administration calculated as 2.5% of the total grant request for this Project. Additional project management costs related to invoicing and general coordination are based on an estimated 50 hours for a DPWD, 200 hours for a PCE, and 285 hours for an ACE. Hours are based on previous experience with similar projects.

Task 2: Labor Compliance Program

The cost of \$11,236.40 for the Labor Compliance Program are based on 140 hours for an MA and 20 hours for a PCE. Hours are based on previous experience with similar projects.

Task 3: Reporting

The budget of \$13,757.07 for the Quarterly Project Progress Reports was based on an estimated 34 hours for a PCE and 100 hours for an ACE per report. The budget for the Project Completion Report was based on an estimated 4 hours for a DPWD, 15 hours for a PCE, and 30 hours for an ACE. Hours are based on previous experience with similar projects.

(b) Land Purchase/Easement**Task 4: Land Purchase**

The land on which the Project will be completed is already owned by the City; no new land purchases are planned.

(c) Planning/Design/Engineering/Environmental Documentation**Task 5: Feasibility Studies**

This task has a budget of \$14,023. The draft feasibility study for the LGAC treatment facility was completed by Stetson Engineers, Inc. in April 2015, and the final report will be completed in August 2015.

Task 6: CEQA Documentation

This task has a budget of \$19,969.10. The estimate to prepare the Preliminary Exemption Investigation is based on 20 hours for a PCE, 80 hours for an ACE, and 60 hours for an AE. Estimates to prepare the Division of Drinking Water Exemption Worksheet are based on 10 hours for an AE. Estimates for the Initial Study are based on 120 hours for an ACE. Hourly estimates are based on experience with similar projects.

Task 7: Permitting

This task has a budget of \$42,557.40. This task involves four permits. Estimates are based on 45 hours for a PCE and 305 hours for an ACE, plus permit fees totaling \$17,500. Hourly estimates are based on experience with similar projects.

Live Oak Well VOC Treatment Facility Project**Budget****Task 8: Design**

The \$437,250.00 total estimate to complete the Preliminary Design Technical Memorandum and the 60%, 90% and 100% Design Submittals is based on a total of 795 hours for a Consultant team billing at \$550.00/hour.

Task 9: Project Performance Monitoring Plan

The total budget is \$29,482.85. This total includes the cost estimate of \$8,979.10 to prepare the Project Performance Monitoring Plan, based on 130 hours for an ACE; \$18,777.00 for Monthly Progress Reporting, based on 300 hours for an AE; and \$1,726.75 for the Final Monitoring Report, based on 25 hours for an ACE.

(d) Construction/Implementation**Task 10: Contracting Services**

The \$10,027.85 cost estimate for developing the bid package, preparing the advertisement and contractor documents, and selecting and awarding the contract is based on 40 hours for an PCE and 75 hours for an ACE, plus miscellaneous costs of \$1,300.00.

Task 11: Construction Administration

The estimated cost of \$183,010.30 for Construction Administration is based on an estimated 120 hours for a PCE and 750 hours for an ACE, plus 1950 hours for an PWI to conduct residential inspections, and a lump sum payment for material testing of \$10,000.00.

Task 12: Construction

Subtask 12.1: Mobilization – The estimated cost of \$20,022.82 for this subtask is based on the City Engineer’s estimate. It includes the following activities: delivering equipment and materials, installing temporary facilities.

Subtask 12.2: Site Preparation – The estimated cost of \$75,000 for this subtask is based on the City Engineer’s estimate. It includes the following activities: demolition of existing structures and site improvements, clearing and grubbing, grading and subgrade preparation, asphalt and hardscape paving, landscaping and installing site signage.

Subtask 12.3: Project Construction – The estimated cost of \$2,388,750.00 for this subtask is based on the City Engineer’s estimate plus a 20% contingency. The cost includes the following activities: installing eight 12’ diameter LGAC Vessels and pad w/ 20,000 pounds of carbon per vessel, connecting pipes and manifolds, installing Pumps, air compressor, and misc. equipment, installing one 80,000 gallon backwash tank w/pad, installing the waste discharge piping and connection to sewer.

Subtask 12.4: Instrumentation Installation – The estimated cost of \$100,000 for this subtask is based on the City Engineer’s estimate. It includes the following activities: installing of all site and equipment electrical conduits, wiring, and controls for the pumps and equipment, installing a variable frequency drive control system to operate the three existing booster pumps.

Subtask 12.5: Demobilization & Cleanup – The estimated cost of \$5,000 for this subtask is based on the City Engineer’s estimate. It includes the following activities: removing all temporary facilities, materials, and equipment, completing all items on the final punch list, final clean-up of the site.

Centralized Groundwater Treatment System Project

Budget

Project 18: Centralized Groundwater Treatment System Project (Project)

Implementing Agency: City of Monterey (City)

Table 8 - Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Centralized Groundwater Treatment System</u>					
Project serves a need of a DAC?: Yes					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$0.00	\$146,463.00	\$0.00	\$146,463.00
2	Labor Compliance Program	\$0.00	\$5,150.00	\$0.00	\$5,150.00
3	Reporting	\$0.00	\$14,550.00	\$0.00	\$14,550.00
Category (a) subtotal		\$0.00	\$166,163.00	\$0.00	\$166,163.00
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$0.00	\$0.00	\$0.00
6	CEQA Documentation	\$0.00	\$10,740.00	\$0.00	\$10,740.00
7	Permitting	\$31,500.00	\$18,500.00	\$0.00	\$50,000.00
8	Design	\$78,750.00	\$83,557.00	\$0.00	\$162,307.00
9	Project Pfm. Monitoring Plan	\$0.00	\$7,630.00	\$0.00	\$7,630.00
Category (c) subtotal		\$110,250.00	\$120,427.00	\$0.00	\$230,677.00
Category (d): Construction/ Implementation					
10	Contracting Services	\$0.00	\$69,678.57	\$0.00	\$69,678.57
11	Construction Administration	\$0.00	\$557,428.56	\$0.00	\$557,428.56
12	Construction/Implementation				
12.1	<i>Mobilization/Demobilization</i>	\$15,750.00	\$9,250.00	\$0.00	\$25,000.00
12.2	<i>Foundation and Structures</i>	\$160,650.00	\$94,350.00	\$0.00	\$255,000.00
12.3	<i>Equipment & Piping</i>	\$3,843,441.00	\$2,257,259.00	\$0.00	\$6,100,700.00
12.4	<i>Relocate Existing IX & LGAC Vessels</i>	\$201,600.00	\$118,400.00	\$0.00	\$320,000.00
12.5	<i>Connect Well 5</i>	\$136,710.00	\$80,290.00	\$0.00	\$217,000.00
12.6	<i>Performance Testing</i>	\$31,599.00	\$18,558.00	\$0.00	\$50,157.00
Category (d) subtotal		\$4,389,750.00	\$3,205,214.13	\$0.00	\$7,594,964.13
Grand Total		\$4,500,000.00	\$3,491,725.13	\$0.00	\$7,991,725.13
*List sources of funding:					
The San Gabriel Valley Municipal Water District will fund \$2,000,000 ³ and the remaining funding will come from the City's allocation of funds for capital water projects. The City Council has already approved a water rate increase.					

³ On July 31, 2008, the SGVMWD and the City entered into a "Lease with Option to Purchase" agreement via which the SGVMWD provided the City with a \$2,000,000, interest-free loan to build a packed tower air stripper to treat groundwater pumped from Wells 5 and 6. Air stripper dropped

Centralized Groundwater Treatment System Project**Budget**

The budget presented in the table above is considered reasonable based on current available information. The following City of Monterey staff disciplines and average hourly wages were used to estimate the budget for the activities below: Senior Engineer (SrE) at \$175/hour, Project Engineer (PE) at \$125/hour, Staff Engineer (StE) at \$90/hour, AutoCAD specialist (AS) at \$90/hour, and Administrative Assistant (AA) at \$50/hour. The justification for each category of budget is provided below:

(a) Direct Project Administration

Task 1: Project Management – The Project management cost of \$146,463 is based on estimated costs to manage the grant. This includes a cost of \$16,083 for grant application preparation determined from a fee estimate provided by the consultant proposal and a cost of \$112,500 for grant administration calculated as 2.5% of the grant request for this Project. Additional project management costs related to invoicing and general coordination are based on an estimated 24 hours for a SrE, 60 hours for a PE, 60 hours for a StE, 2 hours for an AS, and 2 hours for an AA. Hours are based on previous experience with similar projects.

Task 2: Labor Compliance Program – Estimates to prepare the LCP are based on an estimated 8 hours for a SrE, 18 hours for a PE, 8 hours for a StE, 2 hours for an AS, and 12 hours for an AA. Hours are based on previous experience on similar projects. The LCP will be completed by October 1, 2015.

Task 3: Reporting – Estimates for reporting activities are based on as estimated 18 hours for a SrE, 48 hours for a PE, 48 hours for a StE, 2 hours for an AS, and 18 hours for an AA. Hours are based on previous experience on similar projects.

(b) Land Purchase/Easement

Task 4: Land Purchase – The City already owns the Delta Plant in the City of Rosemead where the centralized groundwater treatment system will be built (believed to have been acquired in or around 1920, prior to January 1, 2011, therefore not eligible as a funding match). As such, land acquisition costs are not included. The City anticipates negotiating a no-cost easement with Southern California Edison (SCE) for a new pipeline from Well 5 to the centralized groundwater treatment plant. The new pipeline will run in a high-voltage power line corridor, which is already in use as a plant nursery. The estimated cost to negotiate this easement is included in Task 7 (Permitting).

(c) Planning/Design/Engineering/Environmental Documentation

Task 5: Feasibility Studies – The City completed two studies regarding the evaluation of alternatives in June 2006 and April 2011. These studies were completed at the City's sole expense and since the preparation of both studies occurred prior to January 1, 2011, the City is not including costs for these studies in the Project Budget. There are no further studies needed and so no additional costs are anticipated.

Task 6: CEQA Documentation – Estimates to prepare the CEQA Notice of Intent, Initial Study, Notice of Public Hearing, and Notice of Determination are based on an estimated 24 hours for a SrE, 36 hours for a PE, 8 hours for a StE, 8 hours for an AS, and 12 hours for an AA. Hourly estimates are based on experience with similar projects.

Task 7: Permitting – The estimated cost of \$50,000 to prepare the three permits (DDW permit, Watermaster Section 28 Application, and the 97-005 Policy Memo evaluation, if required) is based on an estimated 75 hours for a SrE, 179 hours for a PE, 100 hours for a StE, 50 hours for an AS, and 20 hours for an AA. The three permits involve submitting similar information to DDW and the Main San Gabriel Basin Watermaster. Hourly estimates are based on experience with similar projects.

Task 8: Design – The 20 percent design was completed in April 11, 2013. Budget spent before January 2011 has been removed from the total cost of the 20 percent design. Invoices after January 2011 were used to determine the cost for the 20 percent design, totaling \$37,307. Estimates to complete the 100 percent design plans and

in favor of advanced oxidation (AO), the subject of this funding request, when treatment for 1,4-dioxane required. The City has made payments on the SGVMWD loan but the principal is untouched and available for the Project.

Centralized Groundwater Treatment System Project**Budget**

specifications are based on an Engineer's estimate based on previous experience with similar projects. The total for this task is \$125,000 without including the costs incurred before January 2011.

Task 9: Project Performance Monitoring Plan – The cost of \$7,630 to prepare the Project Performance Monitoring Plan is based on an estimated 18 hours for a SrE, 24 hours for a PE, 6 hours for a StE, 6 hours for an AS, and 8 hours for an AA. Hours are based on previous experience with similar projects.

(d) Construction/Implementation

Task 10: Contracting Services – The \$69,678.57 cost estimate for developing the bid package, preparing the advertisement and contractor documents, and selecting and awarding the contract is estimated to be one percent of the total construction cost of \$6,967,857. This involves City staff hours associated with bidding, negotiating, and administering the construction contract; evaluating and paying invoices and tracking Project costs.

Task 11: Construction Administration – The estimated cost of \$557,428.56 for construction administration is estimated to be 8 percent of the total construction cost. This is based on the City's and construction management contractor's experience. Generally, 8 to 10 percent of construction cost is a widely-accepted range. The lower end of the range (8 percent) was selected because a construction management contractor will be present at all times during construction, which should lessen the burden on City personnel.

Task 12: Construction/Implementation – The construction costs associated with the following subtasks are based on the engineer's estimate, RS Mean Cost Data 2015, and vendor quotes.

Subtask 12.1: Mobilization/Demobilization – The estimated cost of \$25,000 for this subtask is based on an engineer's estimate.

Subtask 12.2: Foundation and Structures – The estimated cost of \$225,000 for this subtask is based on the RS Means Cost Data 2015 and includes constructing the following foundations and structures: Foundation pad for 5 AO units; foundation pad for 18 LGAC vessels; foundation pad for 2 pH adjustment ASTs; foundation pad for 2 backwash ASTs; and open-sided canopy over 5 AO units.

Subtask 12.3: Equipment and Piping – The estimated cost of \$6,100,700 for this subtask is based on the RS Means 2015 and vendor quotes. Most of the cost is for four Trojan UVPHOX 3-reactor AO units, costing \$1,311,900 each. Other costs are for the following equipment and piping: Bag filter housings (2,500 gpm each); 2,000-gal. HDPE ASTs (NaOH & HCl) for pH adjustment; 20,000-gal backwash ASTs; Valves & fittings (allowance); Electrical/controls upgrades; Misc. pipe supports, fittings, etc. (allowance); 18-inch diameter Ductile Iron pipeline, Wells 9, 12, & 15 to AO units; 24-inch diameter ductile iron pipeline, AO effluent to LGAC; 12-inch diameter ductile iron pipeline, backwash line; and 4-inch diameter PVC communications conduit.

Subtask 12.4: Relocate Existing IX and LGAC vessel – The estimated cost of \$320,000 for this subtask is based on the engineer's estimate for relocation and re-piping of the ten ion-exchange vessels and installation of the LGAC.

Subtask 12.5: Connect Well 5 – The estimated cost of \$217,000 for this subtask is based on the engineer's estimate to negotiate a no-cost easement for the Well 5 pipeline; install a 12-inch diameter ductile iron pipe to connect Well 5 to the Delta Plant; and install a utility bridge over Alhambra Wash.

Subtask 12.6: Performance Testing – The estimated cost of \$50,157 for this subtask is an Engineer's estimate based on the City and Contractor labor required to start up the centralized groundwater treatment system and optimize system variables, such as peroxide dosing rate and pH adjustment. Optimizing system variables will involve the analysis of system influent and effluent samples, as well as analysis of samples from the individual contributing wells. This task also includes a "proof of concept" report to be submitted to DDW that documents the start-up process and demonstrates achievement of Project goals.

Southeast Water Efficiency Program Project

Budget

Project 19: Southeast Water Efficiency Program Project (Project)

Implementing Agency: Central Basin Municipal Water District (Central Basin)

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Southeast Water Efficiency Program Project</u>					
Project serves a need of a DAC?: Yes					
Funding Match Waiver request?: No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$77,500.00	\$55,000.00	\$0.00	\$132,500.00
2	Labor Compliance Program	\$2,400.00	\$0.00	\$0.00	\$2,400.00
3	Reporting	\$30,000.00	\$20,000.00	\$0.00	\$50,000.00
Category (a) subtotal		\$109,900.00	\$75,000.00	\$0.00	\$184,900.00
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$0.00	\$0.00	\$0.00	\$0.00
6	CEQA Documentation	\$0.00	\$5,000.00	\$0.00	\$5,000.00
7	Permitting	\$0.00	\$0.00	\$0.00	\$0.00
8	Design	\$0.00	\$0.00	\$0.00	\$0.00
9	Project Performance Monitoring Plan	\$0.00	\$5,000.00	\$0.00	\$5,000.00
Category (c) subtotal		\$0.00	\$10,000.00	\$0.00	\$10,000.00
Category (d): Construction/ Implementation					
10	Contract Services	\$1,500.00	\$2,100.00	\$0.00	\$3,600.00
11	Implementation Administration	\$22,500.00	\$27,500.00	\$0.00	\$50,000.00
12	Implementation				
12.1	Site Identification	\$16,030.00	\$7,970.00	\$0.00	\$24,000.00
12.2	Program Outreach and Enrollment	\$175,500.00	\$94,500.00	\$0.00	\$270,000.00
12.3	Water Audits	\$195,000.00	\$105,000.00	\$0.00	\$300,000.00
12.4	Equipment Procurement	\$389,170.00	\$210,625.00	\$0.00	\$599,795.00
12.5	Retrofit Installation	\$390,400.00	\$210,000.00	\$0.00	\$600,400.00
Category (d) subtotal		\$1,190,100.00	\$657,695.00	\$0.00	\$1,847,795.00
Grand Total		\$1,300,000.00	\$742,695.00	\$0.00	\$2,042,695.00
*List sources of funding: Central Basin: \$267,695; MWD: \$250,000; Central Basin Purveyors: \$225,000					

Southeast Water Efficiency Program Project**Budget**

The total budget for the Southeast Water Efficiency Program Project (Project) is \$2,042,695. The \$1,300,000 in requested grant funds would amount to 65% of total Project costs, with the remainder 35% funded by Central Basin, MWD, and Central Basin Purveyors through local contribution. Central Basin has modeled the budget for the grant tasks and deliverables as a next phase of the current successful Water Conservation Management and Education Program. The Water Conservation Retrofit Program has developed updated costs for project management, administration, and planning based on 40 sites that have already been completed. The budget for this Project was developed based on this most recent information. The labor hours used are based on salary plus 35% fringe benefits per the Labor Bureau for governmental/public agency employee.

Category (a) Direct Project Administration

Task 1: Project Management –The costs associated with this task are based on experience with the Water Conservation Retrofit Program. This task includes overall project management by Central Basin, Gateway Regional Water Management Authority (GWMA), and other entities providing funding (MWD and Central Basin purveyors). The budget for this task was derived from a project manager’s hourly rate of \$ 100/hour over 500 hours for a total of \$50,000. The Gateway Regional Water Management Authority (GWMA) administration fee, including the grant application preparation by the consultant (\$16,083) and grant administration was included as \$50,000. A cost of \$32,500 for grant administration was calculated as 2.5% of the grant request for this Project.

Task 2: Labor Compliance Program – Central Basin has an ongoing Labor Compliance Program in place, therefore, there will not be any costs to develop a program. In order to implement the program, the vendor will follow any prevailing wage requirements. Labor compliance in general consists of certified payroll, prevailing wage and other documents that are outlined in Central Basin’s contract requirements. This task is estimated to require approximately 24 hours over the 36-month implementation duration at a rate of \$100 for a total of \$2,400.

Task 3: Reporting – Reporting costs of \$50,000 were calculated based on time the project manager will spend to complete the Quarterly Progress and Draft and Final Completion Reports. This estimate is based on previous reporting experience with similar projects. The project manager’s hourly wage is \$100 with approximately 500 hours required for the development of the reports.

Category (b) Land Purchase/Easement

Task 4: Land Purchase/Easement – This Project does not require purchase of land; therefore, no budget is allocated for this task.

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

Task 5: Feasibility Studies – This Project is the continuation of a successful program that Central Basin executed. Therefore, feasibility studies and reports were not needed for implementation of this Project.

Task 6: CEQA Documentation – In order to complete and file a Categorical Exemption, the administrative staff will require approximately 50 hours with an average hourly wage of \$100 for a total of \$5,000 required to complete this task. This estimate was based on previous experience with similar projects.

Task 7: Permitting – This Project will not require any permits, therefore, no budget was allocated for this task.

Task 8: Design – This Project will not require any design tasks, therefore, no budget was allocated to this task.

Task 9: Project Performance Monitoring Plan – The monitoring plan will require approximately 50 hours for staff administration at an average hourly wage of \$100. The total cost for preparing the plan is \$5,000.

Category (d) Construction/Implementation

Task 10: Contract Services – Central Basin will develop a bid solicitation for vendors to complete the implementation of this Project. In order to develop the contracts that will be necessary to hire a vendor, the administrative staff will require approximately 36 hours at an average hourly rate of \$100. The total budget of \$3,600 was based on similar prior experiences with developing a bid package.

Southeast Water Efficiency Program Project

Budget

Task 11: Implementation Administration – In order to manage the vendor and coordinate with Central Basin staff and departments for the implementation of this Project, approximately 500 hours were allocated for the project manager at an hourly rate of \$100 equaling \$50,000 . This estimation was based on the Water Conservation Retrofit Program.

Task 12: Implementation

The estimates for the following subtasks were based on current amount of budget expended for the Water Conservation Retrofit Program. For the work completed, Central Basin is tracking the amount of budget invoiced and expended. Therefore, Central Basin was able to give a close estimation for the subtasks required to implement this Project.

Subtask 12.1: Site Identification – This subtask includes the development of site selection criteria and the selection of customers and customer sites. It will require approximately 240 hours at an hourly rate of \$100 for the project manager to complete this subtask for all sites.

Subtask 12.2: Program Outreach and Customer Enrollment – This subtask includes the costs to implement the Projects’ outreach plan. Flyers will be developed and distributed to public entities within Central Basin’s service area that will be used to share information on the program. This subtask will require approximately 2,700 hours at an hourly rate of \$100 the project manager.

Subtask 12.3: Water Audits – In order to perform water audits, the vendor will require 2,500 hours at an average hourly rate of \$100. Developing the customer equipment and retrofit lists will require approximately 500 hours at an average hourly rate of \$100 for a total of \$50,000.

Subtask 12.4: Equipment Procurement – The total cost to purchase the equipment necessary for implementation of this Project is shown in the table below. This price of the equipment was assumed to be the same as costs from the Water Conservation Retrofit Program, which is based on MWD’s recommended list of water efficient devices.

Equipment Costs

Project Equipment	Cost	Quantity	Total
Zero Water & Ultra Low Water Urinals	\$185	162	\$29,970
High-Efficiency Toilets, Tank Type	\$150	140	\$21,000
High-Efficiency Toilets, Flushometer	\$150	140	\$21,000
Laminar Flow Restrictors	\$5	3,000	\$15,000
Large Rotary Nozzles	\$30	1,500	\$45,000
Rotating Nozzles for Spray Heads	\$6	7,500	\$45,000
Weather-Based Irrigation Controllers	\$1,685	89	\$149,965
Central Computer Irrigation Controllers	\$1,685	36	\$60,660
Flow Regulators	\$15	1,000	\$15,000
Piping System	\$2,900	68	\$197,200
Total Equipment Cost:			\$599,795

Subtask 12.5: Retrofit Installation – This subtask will require the vendors to install and test each device before the customer signs off that everything is installed and working correctly. The rate of the vendors will range from \$100 to \$150 based on previous contracts. In order to account for the range in vendor hourly wage, it was estimated that approximately 2,200 hours will be required for a vendor at an hourly wage of \$150, and approximately 2,704 hours will be required for a vendor at an hourly wage of \$100.

Water LA Neighborhood Retrofits Project

Budget

Project 20: Water LA Neighborhood Retrofits Project (Project)

Implementing Agency: The River Project

Table 8 – Project Budget					
Proposal Title: <u>Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant Proposal</u>					
Project Title: <u>Water LA Neighborhood Retrofits</u>					
Project serves a need of a DAC?: Yes					
Funding Match Waiver request?: Yes					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
Category (a) Direct Project Administration					
1	Project Management	\$90,000.00	\$484,644.00	\$0.00	\$574,644.00
2	Labor Compliance Program	\$0.00	\$21,978.60	\$0.00	\$21,978.60
3	Reporting	\$85,505.00	\$22,294.80	\$0.00	\$107,799.80
Category (a) subtotal		\$175,505.00	\$528,917.40	\$0.00	\$704,422.40
Category (b): Land Purchase/ Easement					
4	Land Purchase	\$0.00	\$0.00	\$0.00	\$0.00
Category (b) subtotal		\$0.00	\$0.00	\$0.00	\$0.00
Category (c): Planning / Design / Engineering / Environmental Documentation					
5	Feasibility Studies	\$24,791.80	\$7,790.00	\$0.00	\$32,581.80
6	CEQA Documentation	\$889.20	\$0.00	\$0.00	\$889.20
7	Permitting	\$22,230.00	\$0.00	\$0.00	\$22,230.00
8	Design	\$0.00	\$389,850.00	\$0.00	\$389,850.00
9	Project Performance Monitoring Plan	\$3,254.00	\$1,688.00	\$0.00	\$4,942.00
Category (c) subtotal		\$51,165.00	\$399,328.00	\$0.00	\$450,493.00
Category (d): Construction/ Implementation					
10	Contracting Services	\$0.00	\$6,279.60	\$0.00	\$6,279.60
11	Construction Administration	\$94,300.00	\$309,320.00	\$0.00	\$403,620.00
12	Construction/ Implementation				
12.1	Outreach	\$338,130.00	\$173,780.00	\$0.00	\$511,910.00
12.2	Education/Workshops	\$120,900.00	\$155,230.00	\$0.00	\$276,130.00
12.3	Project Installations	\$220,000.00	\$1,927,130.00	\$1,000,000.00	\$3,147,130.00
Category (d) subtotal		\$773,330.00	\$2,571,739.60	\$1,000,000.00	\$4,345,069.60
Grand Total		\$1,000,000.00	\$3,499,985.00	\$1,000,000.00	\$5,499,985.00
*List sources of funding: <u>Non-State Funding Sources:</u> Los Angeles Department of Water and Power (\$2,400,000), City of Los Angeles Bureau of Sanitation (\$750,000), and County of Los Angeles Department of Public Works (\$350,000). <u>Other State Funding Source:</u> CalFire grant (\$1,000,000)					

Water LA Neighborhood Retrofits Project**Budget**

The budget presented in the table above is considered reasonable based on current available information. The justification for each category of budget presented is provided below. The following The River Project staff disciplines and average hourly wages were used to estimate the budget for the activities below: Project Director (PD) at \$148.20/hour, Project Manager (PM) at \$52.33/hour, Environmental Designer (ED) at \$49.45, Project Assistant 1 (PA1) at \$34.50/hour, Project Assistant 2 (PA2) at \$29.90/hour, Foreman at \$37.37/hour, and IT at \$75.00/hour.

(a) Direct Project Administration**Task 1: Project Management**

The project management cost of \$574,644.00 includes a cost of \$16,083.00 for grant application preparation determined from the consultant's fee estimate. The cost for grant administration for the Project is \$25,000.00 calculated as 2.5% of the grant request. Additional project management costs related to invoicing, coordination with partnering agencies, and general project management throughout the duration of the Project are estimated as costing approximately \$533,561.00 using an estimated 3,000 hours for the PD and 1,700 for the Project PM based on previous experience with similar Projects such as the Water LA Pilot Project (Pilot Project) and the Woodman Ave. Median Project (Woodman Project) which were both successfully implemented in 2014.

Task 2: Labor Compliance Program

The \$21,978.60 cost for the Labor Compliance Program (LCP) is based on an estimate 420 hours for a PM to implement the LCP over the approximate 3.5 year duration of the project installations.

Task 3: Reporting

The \$107,799.80 budget for reporting activities was estimated as requiring 2,060 hours for a PM over the approximately four year reporting period of the Project based on the level of effort required for reporting for the Tujunga Pacoima Watershed Plan in 2007 (Tujunga Project) and Woodman Project that both received Prop. 50 funds.

(b) Land Purchase/Easement**Task 4: Land Purchase**

No land purchase is required for the Project so there are no costs associated with this task.

(c) Planning/Design/Engineering/Environmental Documentation**Task 5: Feasibility Studies**

The estimated cost of \$32,581.80 to complete this task includes \$15,401.80 for Geographic Information Systems (GIS) analysis based the actual level effort expended so far to complete the majority of the GIS analysis and the assumed level of effort remaining, including 24 hours for the PD, 100 hours for an ED, and 200 hours for a PA1. The soils analysis and ground-truthing via site visits are estimated to cost \$17,180 based on an assumed 80 hours for an ED, 200 hours for a Foreman, 80 hours for a PA1 and 100 hours for a PA2.

Task 6: CEQA Documentation

The Project is Categorically Exempt. The cost to prepare and file the Categorical exemption is expected to cost \$889.20 based on an assumed 6 hours for the PD.

Task 7: Permitting

The \$22,230.00 budget for the permitting task is based on the costs incurred as well as an assumed level of effort (150 hours for the PD) to continue working with the City and County of Los Angeles to develop a no-fee permit framework for the Project. Costs for the greywater permits will be adsorbed by the contractors.

Water LA Neighborhood Retrofits Project**Budget****Task 8: Design**

The \$389,850.00 budget for design is based on actual costs incurred to prepare the general design for the Strategy Plan as well as an assumed level of effort for the site-specific plans based on experience with the Pilot Project. It is expected to cost \$236,900 to draft the 100 home retrofit plans assuming 2,000 hours for an ED and 4,000 hours for a PA1, and \$152,950 to draft the 1,000 parkway plans and finalize schematics assuming 1,000 hours for an ED and 3,000 hours for a PA1.

Task 9: Project Performance Monitoring Plan

The cost of \$4,942.00 to prepare the Project Performance Monitoring Plan is based on previous project experience to complete a monitoring plan for the Woodman Project and the Tujunga Project. The estimate assumes 20 hours for the PD and 40 hours for an ED.

(d) Construction/Implementation**Task 10: Contracting Services**

The \$6,279.60 budget for this task assumes 120 hours for a PM to prepare and execute the contract documents based on the actual level of effort expended and an assumed remaining level of effort to execute the contracts.

Task 11: Construction Administration

The \$403,620.00 budget for construction administration assumes the foreman will require approximately 5,000 hours to oversee the home retrofit activities and 3,000 hours to oversee the parkway basin activities, based on experience with the Water LA Pilot Project. Additionally, it is assumed that the Project Manager will require approximately 2,000 hours to perform administrative responsibilities related to the implementation phase of the Project.

Task 12: Construction/Implementation

Subtask 12.1: Outreach – The \$511,910 total cost for this subtask is based on an assumed \$21,130 for outreach and educational materials and \$490,780 in labor. The labor estimate assumes 400 hours for the PD, 6,000 hours for a PA1, 5,000 hours for a PA2, and 1,000 hours for IT based on experience with outreach for the Pilot Project and the Woodman Project.

Subtask 12.2: Education/Workshops – The \$276,130.00 total cost for this subtask is based on a materials cost of \$11,000 for 1,100 Project signs at \$10/sign and a labor cost of \$265,130 to develop the bilingual How-to Guides, videos, and other educational materials as well as deliver the hands-on workshops for the eight neighborhoods. The labor estimate assumes 400 hours for the PD, 2,000 for an ED, 1,800 for a PA1, and 1,500 for a PA2 based on previous experience with conducting workshops and the actual labor expended thus far to develop the materials.

Subtask 12.3: Project Installations – The \$3,147,130.00 total cost for the Project installations includes \$1,159,130 in labor and \$1,988,000 in materials and equipment. The \$1,159,130 in labor assumes \$10,000 for the arborist, \$500,000 for the masons at \$500 for each of the 1,000 parkway basins, \$195,000 for the rain tank and greywater installations, 1,000 hours for an ED and 13,200 for a PA2, and an additional \$10,000 of in-kind charges for performance modeling during the Project implementation. The \$1,988,000 for materials and equipment includes \$843,000 for the 1,000 parkway basins, \$465,000 for the 100 home retrofits, \$660,000 for hauling and disposal, and \$20,000 for sod cutting, tamping, a generator, and other miscellaneous equipment. The \$843,000 materials budget for each parkway basin retrofit is estimated to cost approximately \$843/retrofit including the cost of trees, stakes, parkway plants, mulch, and rocks. The \$465,000 materials for each home retrofit is estimated to cost approximately \$4,650/retrofit, on average, including the cost of residential landscaping, mulch, and various retrofit components. All costs are based on costs incurred during the implementation of the Water LA Pilot Project in 2014.