

San Diego Integrated Regional Water Management Implementation Grant Proposal Budget

Attachment 4 consists of the following items:

- ✓ **Proposal Budget(s).** The Summary Budget Table 8 (Table 4-1) provides a budget estimate for each budget category row of each project within this Implementation Grant Proposal, as well as summary budget for the entire proposal. Each section following includes the proposed budget for each individual project in this proposal.

The proposal budget provides detailed budget documentation to support each cost shown in the tables below under the section entitled Detailed Proposal Work Item Budgets. Please note that for many of the budget categories shown in Tables 4-2 through 4-67, there may be several tasks and sub-tasks. Tables 4-2 through 4-67 also present the proposed funding match for each project within the Proposal, including information that describes how each project will meet their funding match of at least 25 percent of the total project costs. As shown in Attachment 12, the *Chollas Creek Integration Project* and the *Rural Disadvantaged Community (DAC) Partnership Project* have both applied for a funding match waiver, because these projects have demonstrated that they will address critical water supply and/or water quality issues for a DAC.

Total Proposal Cost Estimate

As described in Attachment 3, the *San Diego IRWM Implementation Grant Proposal* involves implementation of four high priority programs to meet the region's water management needs including:

- Water Supply / Water Recycling – includes *Sustainable Landscapes Program*, *North San Diego County Regional Recycled Water Program*, *North San Diego County Cooperative Demineralization Project*, and *Rural Disadvantaged Community (DAC) Partnership Project*.
- Water Quality / Stormwater – includes *Lake Hodges Water Quality and Quagga Mitigation Measures*, *Implementing Nutrient Management in the Santa Margarita River Watershed*, *Bannock Avenue Neighborhood Streetscape Enhancements for Tecolote Creek Watershed Protection*, *Pilot Concrete Channel Infiltration Project*, and *San Diego Regional Water Quality Assessment and Outreach Project*.
- Natural Resources and Watersheds – includes *Chollas Creek Integration Project*.
- Data Management – includes *Regional Water Data Management Program*.

The total budget for this proposal is \$16,946,327. Of this amount, \$5,988,454 (35 percent) is being provided as funding match and \$7,900,000 (47 percent) is being requested from DWR through the IRWM Grant Program.

During project selection, the RAC agreed that all project proponents shall set aside three percent of their recommended grant allocation for the San Diego County Water Authority (SDCWA) to administer the grant contract with DWR. This amount totals \$237,000, and is based on one Management Analyst at SDCWA (\$56.45 hourly rate) working 50 hours per month and one Senior Water Resources Specialist (\$68.78 hourly rate) working 17 hours per month for five years (2011 – 2015). Project administration costs for individual projects are described in detail in the individual project budgets.

Table 4-1 presents the overall cost of proposal implementation. Detailed cost estimates for each project contained in the proposal follow. The specific work items outlined in Attachment 3 are reflected in the detailed cost estimates.

Table 4-1: Summary Budget (\$2009)
San Diego IRWM Implementation Grant Proposal

Budget Category		Non-State Share (Funding Match)	Requested Grant Funding	Other State Funds Being Used ⁽¹⁾	Total	% Funding Match
GA	SDCWA Grant Administration	\$0	\$237,000	\$2,025	\$239,025	0%
(a)	Direct Project Administration Costs	\$134,764	\$73,000	\$0	\$207,764	65%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	0%
(c)	Planning/ Design/ Engineering/ Environmental Documentation	\$1,833,263	\$3,116,827	\$65,475	\$5,015,565	37%
(d)	Construction/Implementation	\$3,846,427	\$4,123,717	\$2,219,373	\$10,189,517	38%
(e)	Environmental Compliance/ Mitigation/ Enhancement	\$0	\$15,000	\$27,000	\$42,000	0%
(f)	Construction Administration	\$54,980	\$88,100	\$108,000	\$251,080	22%
(g)	Other Costs	\$119,020	\$65,361	\$0	\$184,381	65%
(h)	Construction/Implementation Contingency	\$0	\$180,995	\$636,000	\$816,995	0%
(i)	Grand Total	\$5,988,454	\$7,900,000	\$3,057,873	\$16,946,327	35%
(j)	Calculation of Funding Match %	\$5,988,454			\$16,946,327	35%
<i>Sources of Funds for Non-State Share (Funding Match) and Other State Funds: See Individual Project Cost Estimates</i>						
1) "Other State Funds" may be presented in Table 8 to demonstrate the full funding picture for the proposal and, if presented, must be included in the total costs of the proposal, which will be used to determine the percentage for the Funding Match Scoring Criterion.						

Detailed Proposal Work Item Budgets

Detailed budgets for each of the projects included within this proposal, including a summary budget and supporting cost information are provided in the following sections.

Project 1: Sustainable Landscapes Program

The *Sustainable Landscapes Program* will consist of activities designed to increase water efficiency and reduce pollutants from entering waterways and watersheds throughout the San Diego IRWM region. Funding for this project involves the following aspects of project implementation: grant administration, project administration, and construction/implementation.

The total cost associated with the *Sustainable Landscapes Program* is \$1,400,000. Of these total costs, \$1,050,000 is being requested for grant funding through the IRWM Implementation Grant Program. The remaining \$350,000 will be funded by the project partners, including the San Diego County Water Authority, the County of San Diego, the City of San Diego, Surfrider Foundation, California Center for Sustainable Energy, Association of Compost Producers, and California American Water. In total, this amount constitutes 25% of the total project cost, meaning that the non-State share of the total project cost (funding match) is 25% for this project. Table 4-2 below provides a more detailed break-down of the total project budget.

**Table 4-2: Total Project Budget
Sustainable Landscapes Program**

Budget Category		(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
GA	SDCWA Grant Administration	\$0	\$31,500	\$0	\$31,500	100%
(a)	Direct Project Administration Costs	\$42,900	\$23,100	\$0	\$66,000	68%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	0%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$0	\$0	\$0	\$0	0%
(d)	Construction/Implementation	\$307,100	\$995,400	\$0	\$1,302,500	23%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	\$0	\$0	\$0	0%
(f)	Construction Administration	\$0	\$0	\$0	\$0	0%
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0	\$0	\$0	\$0	0%
(h)	Construction/Implementation Contingency	\$0	\$0	\$0	\$0	0%
(i)	Grand Total	\$350,000	\$1,050,000	\$0	\$1,400,000	25%

* Sources of funding: San Diego County Water Authority, County of San Diego, City of San Diego, Surfrider Foundation, California Center for Sustainable Energy, Association of Compost Producers, and California American Water.

This Implementation Grant Proposal is requesting funding for four project tasks identified within the Sustainable Landscapes Program Work Plan (refer to Attachment 3).

**Table 4-3: Cost Breakdown by Work Plan Task and Subtask
Sustainable Landscapes Program**

Row/Task	Category	Total
GA	SDCWA Grant Administration	\$31,500
Row (a)	Direct Project Administration Costs	\$66,000
Task 1	Project Administration	\$66,000
Row (d)	Construction/Implementation	\$1,302,500
Task 9	Construction	\$1,302,500
Row (i)	Grand Total	\$1,400,000

The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each description below describes how cost estimates for each of the tasks or rows were calculated.

Grant Administration (GA)

Each local project sponsor shall dedicate 3% of their grant funds to the San Diego County Water Authority for administration and processing of the Implementation Grant. The Sustainable Landscapes Program will contribute \$31,500 to this administration cost.

Row (a) Direct Project Administration Costs

The total direct project administration costs for the project are \$66,000. Table 4-4 provides a detailed listing of the allocation of these costs. The total Direct Project Administration Costs of \$66,000 include \$23,100 in grant request (2% of total grant request) and \$42,900 in matching funds provided by the project partners in in-kind services.

Task 1 – Project Administration: This includes the cost for all administration efforts required to implement the project, including labor for a Project Schedule/Management Analyst, Water Resources

Specialist (Project Manager), Senior Water Resources Specialist, and Principal Water Resources Specialist. This is based on agency experience managing a similar grant program.

Task 2 – Labor Compliance Program : This task includes all efforts required to establish and adopt a Labor Compliance Program (LCP), including producing annual reports (if necessary). It is anticipated that because of its programmatic nature, this project will not trigger labor compliance requirements. Therefore, only \$1,320 has been allocated in Task 1: Project Administration above for labor compliance review only. Should it later be determined that additional LCP work is necessary, funding from Task 9 (Implementation) would be reallocated to cover any LCP costs.

Task 3 – Reporting: This task includes preparing the Project Assessment and Evaluation Plan, Quarterly Progress Reports and Invoices, and Project Completion Report. This is based on agency experience managing a similar grant program. All grant reporting costs have been incorporated into Task 1: Project Administration above.

**Table 4-4: Row (a) Direct Project Administration Budget
*Sustainable Landscapes Program***

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Project Scheduler/ Management Analyst	\$56.45	250	\$5,645	\$12,037	\$6,481
Water Resources Specialist	\$56.45	540	\$30,459	\$19,798	\$10,661
Senior Water Resources Specialist	\$68.78	100	\$11,377	\$3,670	\$1,976
Principal Water Resources Specialist	\$74.07	165	\$18,518	\$7,395	\$3982
Total			\$66,000	\$42,900	\$23,100

Row (b) Land Purchase/Easement

Not applicable.

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

The project will not require planning, design, engineering or environmental documentation. Therefore, these tasks are not applicable to the project and are not included within the Work Plan or Budget.

Task 4 – Assessment and Evaluation: Not applicable.

Task 5 – Final Design: Not applicable.

Task 6 – Environmental Documentation: Not applicable.

Task 7 – Permitting: Not applicable.

Row (d) Construction/Implementation

Implementation costs for the project are estimated to be \$1,302,500. Table 4-5 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 8 – Construction Contracting: The San Diego County Water Authority has implemented necessary construction contracting tasks under a previous project. Those staff costs are not included within the proposed Budget.

Task 9 – Construction: Implementation costs for this project are divided between three categories: materials, incentives, and labor. These costs, which are summarized below, are designed to support the *Sustainable Landscapes Program*, and produce other deliverables described within Task 9 of the Work Plan (refer to Attachment 3).

- **Materials:** Materials for the project include various retrofit-related materials, education and training materials, technical resources, and marketing and outreach materials for a total of \$122,750.
- **Incentives:** Incentives for the project include retrofit incentives for a total of \$457,500.

- Labor:** Labor required to fulfill the implementation task (Task 9 of the Work Plan) includes guidelines and specifications, education and training, technical resources, marketing and outreach, evaluation, incentive administration, and materials administration for a total of \$722,250. This is based on an estimate of in-kind and consultant services to be provided by SDCWA or project partners.

Implementation costs for the *Sustainable Landscapes Program* were calculated based on anticipated activity and estimated average hourly rates or unit costs derived from past experience. All components are necessary to the execution of the project and the preservation of the project's purpose; however, these are estimated averages and may need to be modified in the future.

**Table 4-5: Row (d) Construction/Implementation Costs
*Sustainable Landscapes Program***

Materials					
Materials Used	Unit Costs (\$)	Number of Units	Total (\$)	Funding Match	Grant Request
Landscape Guidelines and Specifications	Lump Sum		\$5,000	\$0	\$5,000
Education and Training	\$10	5,000	\$50,000	\$15,000	\$35,000
Technical Assistance	\$50	300	\$15,000	\$0	\$15,000
Landscape Materials	\$4	3,188	\$12,750	\$12,750	\$0
Outreach and Marketing	Lump Sum		\$25,000	\$20,000	\$5,000
Evaluation	\$375	40	\$15,000	\$2,500	\$12,500
Subtotal			\$122,750	\$50,250	\$72,500
Incentives					
Retrofit Incentives	\$2,400	191	\$457,500	\$0	\$457,500
Subtotal			\$457,500	\$0	\$457,500
Labor					
Discipline	Hourly Wage (\$)	Number of hours	Total (\$)	Funding Match	Grant Request
Landscape Guidelines and Specifications	\$125	787	\$98,357	\$58,000	\$40,357
Education and Training	\$125	2,300	\$287,561	\$50,000	\$237,561
Technical Assistance	\$125	1,236	\$154,536	\$38,000	\$116,536
Incentives Administration	\$100	825	\$78,000	\$78,000	\$0
Outreach and Marketing	\$100	669	\$38,321	\$2,500	\$35,821
Evaluation	\$150	333	\$65,475	\$30,350	\$35,125
Subtotal			\$722,250	\$256,850	\$465,400
Total			\$1,302,500	\$307,100	\$995,400

Row (e) Environmental Compliance/Mitigation/Enhancement

This project will not require environmental compliance/mitigation/enhancement. Therefore, no environmental mitigation is included within the Work Plan or Budget.

Task 10- Environmental Compliance/Mitigation/Enhancement: Not applicable.

Row (f) Construction Administration

Construction will not be performed as part of this project, therefore construction administration is not applicable to this project and is not included within the Work Plan or Budget.

Task 11- Construction Administration: Not applicable.

Row (g) Other Costs

Other costs are not required for this project.

Row (h) Construction/Implementation Contingency

Construction/Implementation contingency are not required for this project.

Row (i) Grand Total

The Grand Total for the project (\$1,400,000) was calculated as the sum of rows (GA) through (h) for each column.

**Table 4-6: Row (i) Grand Total Costs
Sustainable Landscapes Program**

Row	Budget Category	Total Costs
GA	Grant Administration	\$31,500
(a)	Direct Project Administration Costs	\$66,000
(b)	Land Purchase/Easement	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$0
(d)	Construction/Implementation	\$1,302,500
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0
(f)	Construction Administration	\$0
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0
(h)	Construction/Implementation Contingency	\$0
(i)	Grand Total	\$1,400,000

Project 2: North San Diego County Regional Recycled Water Project

The *North San Diego County Regional Recycled Water Project* will involve efforts to regionalize recycled water systems in northern San Diego County in order increase the role of recycled water in meeting future water needs. Funding for this project involves the following aspects of project implementation: grant administration, project administration costs, and planning/design/engineering/environmental documentation.

The total cost associated with the *North San Diego County Regional Recycled Water Project* is \$2,000,000. Of these total costs, \$1,500,000 is being requested for grant funding through the IRWM Implementation Grant Program. The remaining \$500,000 will be funded by non-State funding sources, which will come from the general funds of the participating project partners. In total, this amount constitutes 25% of the total project cost, meaning that the non-State share of the total project cost (funding match) is 25% for this project. Table 4-7 below provides a more detailed break-down of the total project budget.

**Table 4-7: Total Project Budget
North San Diego County Regional Recycled Water Project**

Budget Category		(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
GA	SDCWA Grant Administration	\$0	\$45,000	\$0	\$45,000	0%
(a)	Direct Project Administration Costs	\$55,000	\$0	\$0	\$55,000	100%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	0%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$445,000	\$1,455,000	\$0	\$1,900,000	23%
(d)	Construction/Implementation	\$0	\$0	\$0	\$0	0%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	\$0	\$0	\$0	0%
(f)	Construction Administration	\$0	\$0	\$0	\$0	0%
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0	\$0	\$0	\$0	0%
(h)	Construction/Implementation Contingency	\$0	\$0	\$0	\$0	0%
(i)	Grand Total	\$500,000	\$1,500,000	\$0	\$2,000,000	25%

* Sources of funding: General funds of participating project partners.

This Implementation Grant Proposal is requesting funding for five project tasks identified within the *North San Diego County Regional Recycled Water Project Work Plan* (refer to Attachment 3).

**Table 4-8: Cost Breakdown by Work Plan Task and Subtask
North San Diego County Regional Recycled Water Project**

Row/Task	Category	Total
GA	SDCWA Grant Administration	\$45,000
Row (a)	Direct Project Administration Costs	\$55,000
Task 1	Project Administration	\$55,000
Row (c)	Planning/Design/Engineering/Environmental Documentation	\$1,900,000
Task 4	Assessment and Evaluation	\$580,000
Task 5	Final Design	\$900,000
Task 6	Environmental Documentation	\$420,000
Row (i)	Grand Total	\$2,000,000

The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each description below describes how cost estimates for each of the tasks or rows were calculated.

Grant Administration (GA)

Each local project sponsor shall dedicate 3% of their grant funds to the San Diego County Water Authority for administration and processing of the Implementation Grant. The *North San Diego County Regional Recycled Water Project* will contribute \$45,000 to this administration cost.

Row (a) Direct Project Administration Costs

The total direct project administration costs for the project are \$55,000. Table 4-9 provides a detailed listing of all applicable costs.

Task 1 – Project Administration: This includes the cost for all administration of the project, including labor costs for a Project Director, a Project Manager, and supporting staff members. These costs were determined based on estimated level of effort to manage each of Tasks 4 through 6.

Task 2 – Labor Compliance Program: OMWD is in the process of contracting with an approved third party Labor Compliance Program, and will implement a labor compliance program for the North San Diego County Regional Recycled Water Project. However, those staff costs are not included within the proposed Budget.

Task 3 – Reporting: This task includes preparing the Project Assessment and Evaluation Plan, Quarterly Progress Reports and Invoices, and Project Completion Report. Costs for grant reporting have been included in staff labor estimated under Task 1: Project Administration above.

**Table 4-9: Row (a) Direct Project Administration Budget
North San Diego County Regional Recycled Water Project**

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Project Director	\$200.00	60	\$12,000	\$12,000	\$0
Project Manager	\$150.00	180	\$27,000	\$27,000	\$0
Support	\$100.00	160	\$16,000	\$16,000	\$0
Total			\$55,000	\$55,000	\$0

Row (b) Land Purchase/Easement

Not applicable.

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

The total planning/design/engineering/environmental documentation costs for the project are \$1,900,000. Table 4-10 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 4 – Assessment and Evaluation: This task includes cost for the following engineering studies:

- A Recycled Water Facilities Plan, and
- An Engineering Study for Regional Seasonal Recycled Water Storage.

This cost was determined based on the estimated level of effort associated with conceptual study of two regional seasonal recycled water storage sites.

Task 5 – Final Design: This task includes the cost for completing design for the project up through the 50% design phase. This cost was determined based on the estimated level of effort associated with preliminary design of a recycled water distribution system for 5,000 AFY delivery.

Task 6 – Environmental Documentation: This task includes the cost for preparation of a joint CEQA Initial Study/NEPA Environmental Assessment to determine the level of environmental compliance needed. These costs were determined based on the estimated level of effort associated with performing assessments necessary for the review of two regional seasonal recycled water storage sites.

Task 7 – Permitting: Not applicable.

Row (d) Construction/Implementation

Construction will not be performed as part of this project, therefore construction contracting and construction are not included within the Work Plan or Budget.

Task 8 – Construction Contracting: Not applicable.

Task 9 – Construction: Not applicable.

**Table 4-10: Row (c) Planning/Design/Environmental Documentation Costs
North San Diego County Regional Recycled Water Project**

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Recycled Water Facilities Plan					
Engineering	\$200.00	750	\$150,000	\$150,000	\$0
Engineering Study for Regional Seasonal Recycled Water Storage					
Engineering	\$200.00	2,150	\$430,000	\$295,000	\$135,000
Final Design					
Engineering	\$200.00	4,500	\$900,000	\$0	\$900,000
CEQA/NEPA Documentation					
Environmental	\$200.00	2,100	\$420,000	\$0	\$420,000
Total			\$1,900,000	\$445,000	\$1,455,000

Row (e) Environmental Compliance/Mitigation/Enhancement

This project will not require environmental compliance/mitigation/enhancement. Therefore, no environmental mitigation is included within the Work Plan or Budget.

Task 10 – Environmental Compliance/Mitigation/Enhancement: Not applicable.

Row (f) Construction Administration

Construction will not be performed as part of this project, therefore construction administration is not applicable to this project and is not included within the Work Plan or Budget.

Task 11 – Construction Administration: Not applicable.

Row (g) Other Costs

No other costs are required for this project.

Row (h) Construction/Implementation Contingency

Construction/Implementation contingency are not required for this project.

Row (i) Grand Total

The Grand Total for the *North San Diego County Regional Recycled Water Project* (\$2,000,000) was calculated as the sum of rows (GA) through (h) for each column.

**Table 4-11: Row (i) Grand Total Costs
North San Diego County Regional Recycled Water Project**

Row	Budget Category	Total Costs
GA	Grant Administration	\$45,000
(a)	Direct Project Administration Costs	\$55,000
(b)	Land Purchase/Easement	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$1,900,000
(d)	Construction/Implementation	\$0
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0
(f)	Construction Administration	\$0
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0
(h)	Construction/Implementation Contingency	\$0
(i)	Grand Total	\$2,000,000

Project 3: North San Diego County Cooperative Demineralization Project

This project will involve constructing advanced water treatment facilities at the San Elijo Water Reclamation Facility (SEWRF) in order to develop new local water supplies and manage water quality issues within North San Diego County. Funding for this project involves all aspects of project implementation including project administration, planning, design, engineering, environmental documentation, construction/implementation, environmental compliance/mitigation, construction administration, other costs, and construction/implementation contingency.

The total cost associated with the *North San Diego County Cooperative Demineralization Project* is \$5,384,800. Of these total costs, \$1,050,000 is being requested for grant funding through the IRWM Implementation Grant Program. Approximately \$2,990,373 will be funded with other State funds that will be sourced from the State Revolving Fund (SRF) Loan Program. Approximately \$1,344,427 will be funded by non-State funding sources, which will come from the Water Reclamation Fund of the San Elijo Joint Powers Authority (SEJPA) and from the general fund(s) of other project partners. In total, this amount constitutes 25% of the total project cost, meaning that the non-State share of the total project cost (funding match) is 25% for this project. Table 4-12 below provides a more detailed break-down of the total project budget.

**Table 4-12: Total Project Budget
North San Diego County Cooperative Demineralization Project**

Budget Category		(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
GA	SDCWA Grant Administration	\$0	\$31,500	\$0	\$31,500	0%
(a)	Direct Project Administration Costs	\$0	\$3,500	\$0	\$3,500	0%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	0%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$878,300	\$196,500	\$0	\$1,074,800	82%
(d)	Construction/Implementation	\$466,127	\$818,500	\$2,219,373	\$3,504,000	13%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	\$0	\$27,000	\$27,000	0%
(f)	Construction Administration	\$0	\$0	\$108,000	\$108,000	0%
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0	\$0	\$0	\$0	0%
(h)	Construction/Implementation Contingency	\$0	\$0	\$636,000	\$636,000	0%
(i)	Grand Total	\$1,344,427	\$1,050,000	\$2,990,373	\$5,384,800	25%

* Sources of funding: Non-State Share (Funding Match) Sources include cash from SEJPA Water Reclamation Fund and general funds of other project partners; Other State Funds include an SRF Loan.

This Implementation Grant Proposal is requesting funding for nine of the eleven project tasks identified within *North San Diego County Cooperative Demineralization Project Work Plan* (refer to Attachment 3).

**Table 4-13: Cost Breakdown by Work Plan Task and Subtask
North San Diego County Cooperative Demineralization Project**

Row/Task	Category	Total
GA	SDCWA Grant Administration	\$31,500
Row (a)	Direct Project Administration Costs	\$3,500
Task 1	Project Administration	\$3,500
Row (c)	Planning/Design/Engineering/Environmental Documentation	\$1,074,800
Task 4	Assessment and Evaluation	\$508,100
Task 5	Final Design	\$527,110
Task 6	Environmental Documentation	\$29,600
Task 7	Permitting	\$9,990
Row (d)	Construction/Implementation	\$3,504,000
Task 9	Construction	\$3,504,000
Row (e)	Environmental Compliance/Mitigation/Enhancement	\$27,000
Task 10	Environmental Compliance/Mitigation/Enhancement	\$27,000
Row (f)	Construction Administration	\$108,000
Task 11	Construction Administration	\$108,000
Row (g)	Other Costs	\$10,000
Row (h)	Construction/Implementation Contingency	\$636,000
Row (i)	Grand Total	\$5,384,800

The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each description below describes how cost estimates for each of the tasks or rows were calculated.

Grant Administration (GA)

Each local project sponsor shall dedicate 3% of their grant funds to the San Diego County Water Authority for administration and processing of the Implementation Grant. The *North San Diego County Cooperative Demineralization Project* will contribute \$31,500 to this administration cost.

Row (a) Direct Project Administration Costs

The total direct project administration costs for the project are \$3,500. Table 4-14 provides a detailed listing of all applicable costs.

Task 1 Project Administration: This includes the cost for project management, including coordinating with various partner agencies. SEJPA will implement other necessary project administration tasks; however, those staff costs are not included within the proposed Budget.

Task 2: Labor Compliance Program: SEJPA will implement a labor compliance program for the *North San Diego County Cooperative Demineralization Project*. However, those staff costs are not included within the proposed Budget.

Task 3: Reporting: This task includes preparing the Project Assessment and Evaluation Plan, Quarterly Progress Reports and Invoices, and Project Completion Report. However, those staff costs are not included within the proposed Budget.

**Table 4-14: Row (a) Direct Project Administration Budget
North San Diego County Cooperative Demineralization Project**

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Project Manager	\$100.00	35	\$3,500	\$0	\$3,500
Total			\$3,500	\$0	\$3,500

Row (b) Land Purchase/Easement

Not applicable.

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

The total planning/design/engineering/environmental documentation costs for the project are \$1,064,810. Table 4-15 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 4 - Initial Design, Engineering, and Environmental Documentation: This task includes cost for the following:

- Conceptual and Preliminary Design Reports,
- Financial Assessment,
- Opportunities and Constraints Analysis,
- Chlorine Contact Basin Tracer Report,
- North County Brackish-to-potable Water Feasibility Study, and
- San Elijo Lagoon Water Quality Study.

This cost was determined based on the value of existing professional contracts.

Task 5 - Final Design: This task includes the cost for finalizing design of the project. This cost was determined based on existing professional contracts and estimates prepared by the City of Solana Beach Engineering Department and the SEJPA Engineering Department. Costs for early phases of design are shown in Task 4 above.

Task 6- Environmental Documentation: This task includes the cost for the Initial Study/Mitigated Negative Declaration (CEQA-Plus). The Biological Survey Report will be completed and funded under Task 10. These costs were determined based on existing professional contracts and estimates by OMWD and the San Elijo Lagoon Conservancy.

Task 7- Permitting: A coastal development permit is required for this project. The City of Encinitas Planning Commission has jurisdiction for coastal development and is expected to approve the project at a local level. The costs to obtain a coastal development permit from the City of Encinitas include an application fee (\$1600), an environmental review fee (\$50), staff labor, and ancillary fees associated with the process (approximately \$1,000 in stamps, envelopes, and labels to mail notifications to residents within 500 feet of the property). Additionally, SEJPA staff must obtain a Revised Master Recycled Water Permit for the SEWRF to ensure that the plant's recycled water treatment train conforms to Title 22. A total of \$9,900 is estimated for permitting.

Row (d) Construction/Implementation

The Construction/Implementation costs for the project are estimated to be \$3,504,000. Table 4-16 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 8 - Construction Contracting: SEJPA will implement necessary construction contracting tasks. However, those staff costs are not included within the proposed Budget.

Task 9 - Construction: Construction costs for this project are divided between three categories: Materials, Equipment, and Labor. These costs, which are summarized below, are necessary to construct the demineralization facility, urban runoff structures, and produce other deliverables described within Task 9 (Construction) of the Work Plan (refer to Attachment 3).

- **Materials:** materials for the project include site work and yard piping, structures, mechanical tools and piping, and electrical and instrumentation materials for a total of \$675,000.
- **Equipment:** equipment for the project include process equipment and pumps.

**Table 4-15: Row (c) Planning/Design/Environmental Documentation Costs
North San Diego County Cooperative Demineralization Project**

Stage	Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match & Other	Grant Request
Assessment and Evaluation						
Conceptual Design (10%) Report	Civil Engineer	\$185.00	325	\$60,125	\$60,125	\$0
Financial Assessment	Finance	\$135.00	100	\$13,500	\$13,500	\$0
Preliminary Design (30%) Report – Includes Geotechnical Investigation	Civil/ Electrical Engineer	\$185.00	775	\$143,375	\$143,375	\$0
SEWRF Chlorine Contact Basin Tracer Study Final Report	Civil Engineer	\$185.00	200	\$37,000	\$37,000	\$0
Opportunities and Constraints Analysis	Civil Engineer	\$185.00	270	\$50,000	\$28,000	\$22,000
Loan Assistance	Civil Engineer	\$185.00	160	\$29,600	\$29,600	\$0
North County Brackish-to-potable Water Feasibility Study	Civil/ Environmental	\$185.00	750	\$139,500	\$0	\$139,500
SE Lagoon Water Quality Study	Biologist	\$134.00	260	\$35,000	\$0	\$35,000
Subtotal				\$508,100	\$390,975	\$196,500
Final Design						
Final Design (100%)	Civil/ Electrical Engineer	\$185.00	2850	\$527,110	\$527,110	\$0
Subtotal				\$527,110	\$527,110	\$0
Environmental Documentation						
Initial Study/Mitigated Negative Declaration (CEQA-Plus)	Environmental Engineer	\$185.00	160	\$29,600	\$29,600	\$0
Subtotal				\$29,600	\$29,600	\$0
Permitting						
Coastal Development Permit	Environmental Engineer	\$185.00	27	\$4,995	\$4,995	\$0
Master Recycled Water Permit No. 2000-10	Environmental Engineer	\$185.00	27	\$4,995	\$4,995	\$0
Subtotal				\$9,990	\$9,990	\$0
Total				\$1,074,800	\$878,300	\$196,500

- **Labor:** labor required to fulfill the construction task (Task 9 of the Work Plan) include site work and yard piping labor, canopy structure labor, process equipment labor, process mechanical and piping labor, and electrical and instrumentation labor.
- **Other Costs:** Additional costs for the demineralization facility include taxes on equipment and materials, contractor mobilization, and contractor overhead and profit.

Construction costs for the demineralization facility were prepared as part of the Preliminary Design Report of the Recycled Water Demineralization Project by Kennedy/Jenks Consultants. Costs for the urban runoff structures were estimated by the City of Solana Beach Engineering Department and the SEJPA engineering departments.

Cost estimates relating to Other Costs were estimated as percentages of the construction costs. Taxes were estimated to be 8.75% on equipment and materials (\$187,000), contractor mobilization was estimated to be 6% of equipment, materials, and labor (\$164,000), and contractor overhead and profit were estimated to be 15% of equipment, materials, and labor (\$411,000).

**Table 4-16: Row (d) Construction/Implementation Costs
North San Diego County Cooperative Demineralization Project**

Materials					
Materials Used	Unit Costs (\$)	Number of Units	Total (\$)	Funding Match & Other	Grant Request
Site Work & Yard Piping	\$91,000	1	\$91,000	\$45,500	\$45,500
Structures	\$224,00	1	\$224,000	\$112,000	\$112,000
Mechanical & Piping	\$97,000	1	\$97,000	\$97,000	\$0
Electrical & Instrumentation	\$263,000	1	\$263,000	\$263,000	\$0
Subtotal			\$675,000	\$517,500	\$157,500
Equipment					
Process Equipment	\$1,457,000	1	\$1,457,000	\$917,000	\$540,000
Pumps	\$5,000	2	\$10,000	\$10,000	
Subtotal			\$1,467,000	\$927,000	\$540,000
Labor					
Discipline	Hourly Wage (\$)	Number of Hours	Total (\$)	Funding Match & Other	Grant Request Funds
Site Work & Yard Piping	\$80	1000	\$80,000	\$40,000	\$40,000
Canopy Structure	\$90	1800	\$162,000	\$81,000	\$81,000
Process Equipment	\$90	1722	\$155,000	\$155,000	\$0
Process Mechanical & Piping	\$80	350	\$28,000	\$28,000	\$0
Electrical & Instrumentation	\$125	1400	\$175,000	\$175,000	\$0
Subtotal			\$600,000	\$479,000	\$121,000
All Other Costs			\$762,000	\$762,000	\$0
Total Cost			\$3,504,000	\$2,685,500	\$818,500

Row (e) Environmental Compliance/Mitigation/Enhancement

The Environmental Compliance/Mitigation/Enhancement costs for the project are \$27,000, which were paid for with State Revolving Fund (SRF) Loan Program funds. Table 4-17 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 10 - Environmental Compliance/Mitigation/Enhancement: The IS/MND (CEQA-Plus) documentation prepared for this project found that two biological mitigation efforts, two noise mitigation efforts, and site best management practices (BMPs) were required. The biological mitigation efforts can be reasonably accomplished within 180 man hours (including survey and reporting) at an average wage of \$150/hour. The noise mitigation efforts and site BMPs are a standard part of the SEJPA's construction documents and practices and will not cost additional monies.

**Table 4-17: Row (e) Environmental Compliance/Mitigation/Enhancement Costs
North San Diego County Cooperative Demineralization Project**

Discipline	Hourly Wage (\$)	Number of hours	Total (\$)	Funding Match & Other	Grant Request
Environmental Engineering	\$150.00	180	\$27,000	\$27,000	\$0
Total			\$27,000	\$27,000	\$0

Row (f) Construction Administration

The Construction Administration costs for the project are estimated to be \$108,000. This cost total is based on the following:

Task 11 - Construction Administration: During preliminary design, the final engineering, construction management, and construction administration costs were estimated by Kennedy/Jenks Consultants to be

approximately 14% of the total construction costs (\$558,000), which is an estimate based on their prior experience. Since completion of the preliminary design report, the SEJPA has entered into contracts for Final Engineering totaling approximately \$450,000. Deducting the estimated actual final engineering costs of \$450,000 from the original estimate of \$558,000 results in an estimated cost of \$108,000 for construction management and construction administration. Construction administration will be paid for with State Revolving Fund (SRF) Loan Program funds.

Row (g) Other Costs

Not applicable.

Row (h) Construction/Implementation Contingency

The Construction/Implementation Contingency for the Recycled Water Demineralization Facility is estimated to be \$636,000. This was estimated to be approximately 18% of the total construction cost of \$3,504,000. Construction/Implementation Contingency will be paid for with State Revolving Fund (SRF) Loan Program funds.

Row (i) Grand Total

The Grand Total for the *North San Diego County Cooperative Demineralization Project* (\$5,384,800) was calculated as the sum of rows (GA) through (h) for each column.

**Table 4-18: Row (i) Grand Total Costs
*North San Diego County Cooperative Demineralization Project***

Row	Budget Category	Total Costs
GA	Grant Administration	\$31,500
(a)	Direct Project Administration Costs	\$3,500
(b)	Land Purchase/Easement	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$1,074,800
(d)	Construction/Implementation	\$3,504,000
(e)	Environmental Compliance/ Mitigation/Enhancement	\$27,000
(f)	Construction Administration	\$108,000
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$10,000
(h)	Construction/Implementation Contingency	\$636,000
(i)	Grand Total	\$5,384,800

Project 4: Rural Disadvantaged Community (DAC) Partnership Project

The *Rural DAC Partnership Project* will involve actions to provide funding to address inadequate water supply and water quality issues affecting rural DACs, including tribal communities in the San Diego IRWM region. Funding for this project involves many aspects of project implementation including grant administration, project administration, planning/design/engineering/environmental documentation, construction/implementation, and construction administration. Table 4-19 below provides a more detailed break-down of the total project budget.

The total cost associated with the *Rural DAC Partnership Project* is \$530,000. Of these total costs, \$500,000 is being requested for grant funding through the IRWM Implementation Grant Program. The remaining \$30,000 will be funded by other available federal funding programs, such as U.S. Department of Health and Human Services, U.S. Department of Agriculture Rural Development, Indian Health Services, and the U.S. Environmental Protection Agency (Region 9). The RCAC will make every effort to leverage these programs to meet the needs of the community which may result in a funding match equal or greater to 25% of the total project cost for each DAC project that is selected, however the current \$30,000 funding match represents 6% of the total project cost. Because this project will not meet its 25% funding match requirement, and it will be serving disadvantaged communities (DACs), this project is requesting a funding waiver match (refer to Attachment 12).

**Table 4-19: Total Project Budget
Rural DAC Partnership Project**

Budget Category		(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
GA	SDCWA Grant Administration	\$0	\$15,000	\$0	\$15,000	0%
(a)	Direct Project Administration Costs	\$0	\$10,000	\$0	\$10,000	0%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	0%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$15,000	\$125,000	\$0	\$140,000	12%
(d)	Construction/Implementation	\$15,000	\$324,000	\$0	\$339,000	5%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	\$0	\$0	\$0	0%
(f)	Construction Administration	\$0	\$26,000	\$0	\$26,000	0%
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0	\$0	\$0	\$0	0%
(h)	Construction/Implementation Contingency	\$0	\$0	\$0	\$0	0%
(i)	Grand Total	\$30,000	\$500,000	\$0	\$530,000	6%

* Sources of funding: U.S. Department of Health and Human Services, U.S. Department of Agriculture Rural Development, Indian Health Services, and the U.S. Environmental Protection Agency Region 9.

The Implementation Grant Proposal is requesting funding for nine project tasks identified within the *Rural DAC Partnership Project Work Plan* (refer to Attachment 3).

**Table 4-20: Cost Breakdown by Work Plan Task and Subtask
Rural DAC Partnership Project**

Row/Task	Category	Total
GA	SDCWA Grant Administration	\$15,000
Row (a)	Direct Project Administration Costs	\$10,000
Task 1	Project Administration	\$10,000
Row (c)	Planning/Design/Engineering/Environmental Documentation	\$140,000
Task 4	Assessment and Evaluation	\$84,000
Task 5	Final Design	\$52,000
Task 6	Environmental Documentation	\$4,000
Row (d)	Construction/Implementation	\$339,000
Task 9	Construction	\$339,000
Row (f)	Construction Administration	\$26,000
Task 11	Construction Administration	\$26,000
Row (i)	Grand Total	\$530,000

The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each description below describes how cost estimates for each of the tasks or rows were calculated.

Grant Administration (GA)

Each local project sponsor shall dedicate 3% of their grant funds to the San Diego County Water Authority for administration and processing of the Implementation Grant. The *Rural DAC Partnership Project* will contribute \$15,000 to this administration cost.

Row (a) Direct Project Administration Costs

The total direct project administration costs for the project are \$10,000. Table 4-21 provides a list of all applicable costs.

Task 1 – Project Administration: This includes the cost for overall contract management, including labor costs for a Project Manager, Project Support, and Supervisor. The costs were determined based on a percentage (2%) of the total grant request (\$500,000) with hours estimated for each discipline.

Task 2 – Labor Compliance Program: RCAC will implement a Labor Compliance Program (LCP) for the *Rural DAC Partnership Project* if necessary. However, because it is still unknown if an LCP will be required, costs related to administering the LCP are not included within the proposed Budget at this time.

Task 3 – Reporting: This task includes preparing a Project Assessment and Evaluation Plan, Quarterly Progress Reports and Invoices, and Project Completion Report. All grant reporting costs have been included within Task 1: Project Administration above.

**Table 4-21: Row (a) Direct Project Administration Budget
*Rural DAC Partnership Project***

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
RCAC Project Manager	73.00	95	\$6,935	\$0	\$6,935
RCAC Project Support	61.00	29	\$1,769	\$0	\$1,769
RCAC Supervisor	108.00	12	\$1,296	\$0	\$1,296
Total			\$10,000	\$0	\$10,000

Row (b) Land Purchase/Easement

Not applicable.

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

The total planning/design/engineering/environmental documentation costs for the project are \$140,000. Table 4-22 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 4 – Assessment and Evaluation: This task includes cost for the following:

- A Disadvantaged Communities Project Assessment and Selection Study, and
- Disadvantaged Community Project Planning (as required).

The cost for the Assessment and Selection task was determined based on an estimated 300 hours to conduct the task effort including two meetings with the selection committee and a minimum of two trips to each selected DAC. The cost for the DAC Project Planning effort was estimated using 11% of the funds going to DAC Construction estimated at \$320,000 to \$330,000.

Task 5 – Final Design: This task includes the cost for preparing final design drawings and specifications for the selected project(s). The Work Plan (see Attachment 3) provides detail on the design needs for several example projects. This cost was estimated using 16% of the estimated DAC Construction costs.

Task 6 – Environmental Documentation: This task includes the costs anticipated for future environmental documents that will be determined based upon DAC project selection. These costs were estimated at approximately 1% of the estimated DAC Construction costs.

Task 7 – Permitting: Environmental permitting costs are not anticipated for this project at this time.

**Table 4-22: Row (c) Planning/Design/Environmental Documentation Costs
Rural DAC Partnership Project**

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Disadvantaged Communities Project Assessment and Selection Study	Lump Sum		\$48,000	\$10,000	\$38,000
Disadvantaged Community Project Planning	Lump Sum		\$36,000	\$5,000	\$31,000
Final Design	Lump Sum		\$52,000	\$0	\$52,000
Environmental Documentation	Lump Sum		\$4,000	\$0	\$4,000
Total			\$140,000	\$15,000	\$125,000

Row (d) Construction/Implementation

The Construction and Implementation costs for the project are estimated to be \$339,000. Table 4-23 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 8 – Construction Contracting: Costs related to construction contracting for the DAC projects are estimated to be \$4,000 which is based on approximately 1% of a construction cost of \$320,000 to \$330,000. These costs are incorporated into Task 9: Construction below.

Task 9 – Construction: Construction costs for this project are divided between three categories: materials, labor, and other costs. These costs, which are summarized below, are anticipated for construction/implementation of the selected DAC projects.

- **Materials:** Materials for the sample projects defined in the Work Plan (Attachment 3) may include turn-out piping, flow control valve, filtration package, disinfection chamber, wellhead treatment facilities, pipelines, booster pumps and housing, and other equipment. Although materials for the DAC projects are currently unknown, it is anticipated that these costs will total \$257,500.
- **Labor:** Labor costs associated with the selected projects will be generated by the construction contractor. Although labor costs for the DAC projects are currently unknown, it is anticipated that these costs will total \$77,500.
- **Other Costs:** There are no other costs estimated for the project.

Construction costs were estimated at \$339,000 to fund a minimum of two DAC projects based on similar water supply and wastewater projects completed recently in rural San Diego County. If the selected DAC project requires less planning dollars than estimated, the difference would be added to the DAC construction estimate.

Row (e) Environmental Compliance/Mitigation/Enhancement

Task 10 – Environmental Compliance/Mitigation/Enhancement: Environmental compliance costs are not anticipated for this project at this time.

**Table 4-23: Row (d) Construction/Implementation Costs
Rural DAC Partnership Project**

Materials					
Materials Used	Unit Costs (\$)	Number of Units	Total (\$)	Funding Match	Grant Request
To be determined based on project selection	Lump Sum		\$260,000	\$10,000	\$250,000
Subtotal			\$260,000	\$10,000	\$250,000
Labor					
Discipline	Hourly Wage (\$)	Number of hours	Total (\$)	Funding Match	Grant Request
To be determined based on project selection	Lump Sum		\$75,000	\$5,000	\$70,000
Subtotal			\$75,000	\$5,000	\$70,000
All Other Costs			\$4,000	\$0	\$4,000
Total Cost			\$339,000	\$15,000	\$324,000

Row (f) Construction Administration

The Construction Administration costs for the project are estimated to be \$26,000. This cost total is summarized in Table 4-24 and is based on the following:

Task 11 – Construction Administration: Construction administration will involve labor costs associated with project management, including a DAC Construction Management (for the specific project(s)) and a RCAC Project Manager. These costs were estimated based on community needs and the estimated size and type of project(s) as 8% of the construction cost estimated between \$320,000 to \$330,000.

**Table 4-24: Row (f) Construction Administration
Rural DAC Partnership Project**

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
RCAC Project Manager	73.00	192	\$12,000	\$0	\$12,000
DAC Construction Management	100.00	120	\$14,000	\$0	\$14,000
Total			\$26,000	\$0	\$26,000

Row (g) Other Costs

Not applicable.

Row (h) Construction/Implementation Contingency

Not applicable.

Row (i) Grand Total

The Grand Total for the *Rural DAC Partnership Project* (\$530,000) was calculated as the sum of rows (GA) through (h) for each column.

**Table 4-25: Row (i) Grand Total Costs
*Rural DAC Partnership Project***

Row	Budget Category	Total Costs
GA	Grant Administration	\$15,000
(a)	Direct Project Administration Costs	\$10,000
(b)	Land Purchase/Easement	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$140,000
(d)	Construction/Implementation	\$339,000
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0
(f)	Construction Administration	\$26,000
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0
(h)	Construction/Implementation Contingency	\$0
(i)	Grand Total	\$530,000

Project 5: Lake Hodges Water Quality and Quagga Mitigation Measures

The *Lake Hodges Water Quality and Quagga Mitigation Measures Project* will involve evaluation of the methods available to improve water quality within Lake Hodges. The project will also assess potential vulnerabilities Lake Hodges faces from quagga mussels, and will prioritize the implementation, design, and construction of limited control measures to address this invasive species. Funding for the project involves all aspects of project implementation including project administration, planning, design, engineering, environmental documentation, construction/implementation, construction administration, other costs, and construction/implementation contingency.

The total cost associated with the *Lake Hodges Water Quality and Quagga Mitigation Measures Project* is \$1,200,000. Of these total costs, \$900,000 is being requested for grant funding through the IRWM Implementation Grant Program. The remaining \$300,000 will be funded by non-state funding sources, of which approximately \$90,000 will be provided by the Santa Fe Irrigation District (SFID) for equipment purchase and a water quality consultant, approximately \$10,000 will be from staff time at SFID and the City of San Diego, and approximately \$200,000 will be provided from San Diego County Water Authority (SDCWA) operating and/or capital improvement program (CIP) funds. In total, this amount constitutes 25% of the total project cost, meaning that the non-state share of the total project cost (funding match) is 25% for this project. Table 4-26 below provides a more detailed break-down of the total project budget.

**Table 4-26: Total Project Budget
Lake Hodges Water Quality and Quagga Mitigation Measures**

Budget Category		(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
GA	SDCWA Grant Administration	\$0	\$27,000	\$0	\$27,000	0%
(a)	Direct Project Administration Costs	\$7,500	\$10,500	\$0	18,000	42%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	0%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$219,500	\$303,060	\$0	\$522,560	43%
(d)	Construction/Implementation	\$0	\$384,400	\$0	\$384,400	0%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	\$0	\$0	\$0	0%
(f)	Construction Administration	\$0	\$62,100	\$0	\$62,100	0%
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$73,000	\$0	\$0	\$73,000	100%
(h)	Construction/Implementation Contingency	\$0	\$112,940	\$0	\$112,940	0%
(i)	Grand Total	\$300,000	\$900,000	\$0	\$1,200,000	25%

**Sources of funding: Approximately \$90,000 from Santa Fe Irrigation District (SFID) - equipment purchase and water quality consultant. Approximately \$10,000 from staff time at SFID and City of San Diego. Remaining \$200,000 from SDCWA Operating/Capital Improvement Program funds.*

The Implementation Grant Proposal is requesting funding for seven project tasks identified within the Lake Hodges Water Quality and Quagga Mitigation Measures Project Work Plan (refer to Attachment 3).

**Table 4-27: Cost Breakdown by Work Plan Task and Subtask
Lake Hodges Water Quality and Quagga Mitigation Measures**

Row/Task	Category	Total
GA	SDCWA Grant Administration	\$27,000
Row A	Direct Project Administration	\$18,000
<i>Task 1</i>	<i>Project Administration</i>	<i>\$18,000</i>
Row C	Planning/Design/Engineering/Environmental Documentation	\$522,560
<i>Task 4</i>	<i>Assessment and Evaluation</i>	<i>\$172,700</i>
<i>Task 5</i>	<i>Final Design</i>	<i>\$199,860</i>
<i>Task 6</i>	<i>Environmental Documentation</i>	<i>\$150,000</i>
Row D	Construction/Implementation	\$384,400
<i>Task 9</i>	<i>Construction</i>	<i>\$384,400</i>
Row F	Construction Administration	\$62,100
<i>Task 11</i>	<i>Construction Administration</i>	<i>\$62,100</i>
Row G	Other Costs	\$73,000
Row H	Construction/Implementation Contingency	\$112,940
Row I	Grand Total	\$1,200,000

The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each description below describes how cost estimates for each of the tasks or rows were calculated.

Grant Administration (GA)

Each local project sponsor shall dedicate 3% of their grant funds to the San Diego County Water Authority for administration and processing of the Implementation Grant. The *Lake Hodges Water Quality and Quagga Mitigation Measures Project* will contribute \$27,000 to this administration cost.

Row (a) Direct Project Administration Costs

The total direct project administration costs for the project are \$18,000. Table 4-28 provides a detailed listing of all applicable costs.

Task 1 – Project Administration: This includes labor costs for a Project Manager, Project Support, and a Manager to conduct meetings, assemble project documentation, and monitor progress as compared to the project work plan, schedule, and budget. This task also includes staff time necessary to implement the Labor Compliance Program and complete grant reporting.

Task 2 – Labor Compliance Program: SDCWA has an active Labor Compliance Program (LCP), which will be utilized for implementation of this project. Staff and consultant fees associated with the LCP have been incorporated into Task 1: Project Administration.

Task 3 – Reporting: This task includes preparing a Project Assessment and Evaluation Plan (PAEP), Quarterly Progress Reports and Invoices, and Project Completion Report. Staff labor costs associated with reporting tasks have been included within Task 1: Project Administration.

**Table 4-28: Row (a) Direct Project Administration Budget
*Lake Hodges Water Quality and Quagga Mitigation Measures***

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Project Manager	\$80.00	124	\$9,920	\$4,440	\$5,480
Administration Support	\$51.00	40	\$2,040	\$1,020	\$1,020
Interagency Project Coordination	\$102.00	20	\$2,040	\$2,040	\$0
Labor Compliance Program	Lump Sum (based on construction value)		\$4,000	\$0	\$4,000
Total			\$18,000	\$7,500	\$10,500

Row (b) Land Purchase/Easement

Not applicable.

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

The total planning/design/engineering/environmental documentation costs for the project are \$522,560. Table 4-29 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 4 – Assessment and Evaluation: The total cost for this task is \$172,700 and includes costs for the SFID Water Quality Assessment, Quagga Mussel Vulnerability Assessment, and Water Quality Improvement Measures Feasibility Study. This cost was determined based on the expected labor costs associated with producing these documents, which were based on cost estimates formed from industry standards, prior similar work, or actual quotations from potential consultants.

Task 5 – Final Design: This task includes the total cost for preparation of the Preliminary Design Report through Final 100% Design of the project, which is expected to be \$199,860. This cost was determined based on the expected labor costs associated with producing final design estimates and deliverables, and undertaking solicitation efforts. These estimates are based on prior agency experience.

Task 6 – Environmental Documentation: This task includes the cost for the CEQA determination process, and possibly an Environmental Impact Report (EIR) or other necessary documentation. These costs were estimated to be \$150,000, which will be utilized to pay for staff labor and consulting costs associated with creating environmental documentation for the project. These cost estimates were based on typical costs for an EIR as provided by SDCWA Environmental staff.

Task 7 – Permitting: No permitting will be required for the project at this time. The need for permits may arise throughout development of this project; however, permits are not included within the Work Plan or Budget.

**Table 4-29: Row (c) Planning/Design/Environmental Documentation Costs
Lake Hodges Water Quality and Quagga Mitigation Measures**

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Planning/Feasibility					
Vulnerability Analysis Consultant (Quagga)	varies	varies	\$23,200	\$23,200	\$0
Water Quality Data Consultant	varies	varies	\$15,000	\$15,000	\$0
Water Quality Planning Consultant	varies	varies	\$105,000	\$105,000	\$0
Project Management	\$80.00	80	\$6,400	\$6,400	\$0
Project Partner Support	\$102.00	50	\$5,100	\$5,100	\$0
Other Project Support	\$75.00	240	\$18,000	\$18,000	\$0
Subtotal			\$172,700	\$172,700	\$0
Final Design					
Quagga Mussel Control Design Consultant	varies	varies	\$135,000	\$40,000	\$95,000
Project Management	\$80.00	200	\$16,000	\$4,000	\$12,000
Interagency Project Coordinator	\$102.00	60	\$6,120	\$1,800	\$4,320
Technical and Other Project Support	\$75.00	570	\$42,740	\$1,000	\$41,740
Subtotal			\$199,860	\$46,800	\$153,060
Environmental					
Public Affairs	\$60.00	100	\$6,000	\$0	\$6,000
Water Resources Specialist	\$75.00	160	\$12,000	\$0	\$12,000
Water Resources Manager	\$100.00	20	\$2,000	\$0	\$2,000
Environmental Consultant	varies	varies	\$130,000	\$0	\$130,000
Subtotal			\$150,000	\$0	\$150,000
TOTAL			\$522,560	\$219,500	\$303,060

Row (d) Construction/Implementation

The Construction and Implementation costs for the project are estimated to be \$384,400. Table 4-30 provides a detailed listing of all applicable costs, all of which are being requested as part of the IRWM Grant Program and will therefore not be provided as matching funds. This cost total is based on the following:

Task 8 – Construction Contracting: SDCWA will carry out all necessary construction contracting activities. Staff labor costs associated with construction contracting tasks have been included within Task 5: Final Design.

Task 9 – Construction: Construction costs for the Quagga control system are estimated, because actual construction items are yet to be determined. A prioritization process will be completed following the vulnerability analysis and feasibility study listed above in Task 4 to determine actual items for construction. Monetary estimates listed below represent estimated costs to incorporate cooling system filtration within the Lake Hodges Pumped Storage Facility. These costs are based on recent expenses required to implement a similar project on Hoover Dam, which was executed by the U.S. Bureau of Reclamation.

- **Materials:** materials for the project may include, but are not limited to: self-cleaning strainer, inactivation unit(s), filtration unit(s), pump(s), and steel piping.
- **Labor:** labor required to install, re-pipe and fit up, and test will be contracted to a general contractor specializing in the type of equipment to be installed.

**Table 4-30: Row (d) Construction/Implementation Costs
Lake Hodges Water Quality and Quagga Mitigation Measures**

Materials					
Materials Used	Unit Costs (\$)	Number of Units	Total (\$)	Funding Match	Grant Request
Quagga mussel control equipment and existing facility reconfiguration	Estimated from USBR's Hoover Dam project		\$192,200	\$0	\$192,200
Subtotal			\$192,200	\$0	\$192,200
Labor					
Discipline	Hourly Wage (\$)	Number of hours	Total (\$)	Funding Match	Grant Request
General Contractor experienced in installation of Quagga mussel control systems	Estimated from USBR's Hoover Dam project		\$192,200	\$0	\$192,200
Subtotal			\$192,200	\$0	\$192,200
Total Cost			\$384,400	\$0	\$384,400

Row (e) Environmental Compliance/Mitigation/Enhancement

Environmental mitigation has not yet been determined and may not be required if work is contained within an existing facility. Therefore, no environmental mitigation is included within the Work Plan or Budget at this time.

Row (f) Construction Administration

The Construction Administration costs for the project are estimated to be \$62,100 as summarized in Table 4-31.

Task 11 – Construction Administration: The total construction administration costs consist of labor costs for construction management and project management. Construction management was estimated based on prior agency experience.

**Table 4-31: Row (f) Construction Administration
Lake Hodges Water Quality and Quagga Mitigation Measures**

Discipline	Hours	Unit Cost (\$)	Total Costs (\$)	Funding Match	Grant Request
Construction Management	360	\$100.00	\$36,000	\$0	\$36,000
Construction Administration	220	\$75.00	\$16,500		\$16,500
Project Manager	120	\$80.00	\$9,600	\$0	\$9,600
Total			\$62,100	\$0	\$62,100

Row (g) Other Costs

Other Costs for the project are \$73,000. These costs comprise a part of SDCWA's non-State funding match. These costs are associated with purchase of water quality monitoring equipment, which has been procured by SFID to collect water quality data.

Row (h) Construction/Implementation Contingency

The Construction/Implementation Contingency for the project is estimated to be \$112,940. These costs comprise a part of SDCWA's grant request. This was calculated based on recommendations from the Association for the Advancement of Cost Engineering International (ACEI), which shows 50% contingency recommendations based on construction costs for projects at the same feasibility stage as the *Lake Hodges Water Quality and Quagga Mitigation Measures Project*. Contingency estimates for this project were instead estimated at approximately 30% of the listed construction costs (\$384,400) which is based on available project dollars.

Row (i) Grand Total

The Grand Total for the *Lake Hodges Water Quality and Quagga Mitigation Measures Project* (\$1,200,000) was calculated as the sum of rows (GA) through (h) for each column.

**Table 4-32: Row (i) Grand Total Costs
*Lake Hodges Water Quality and Quagga Mitigation Measures***

Row	Budget Category	Total Costs
GA	Grant Administration	\$27,000
(a)	Direct Project Administration Costs	\$18,000
(b)	Land Purchase/Easement	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$522,560
(d)	Construction/Implementation	\$384,400
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0
(f)	Construction Administration	\$62,100
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$73,000
(h)	Construction/Implementation Contingency	\$112,940
(i)	Grand Total	\$1,200,000

Project 6: Implementing Nutrient Management in the Santa Margarita River Watershed

This project will involve establishing nutrient water quality objectives for the Santa Margarita River estuary (Phase 1), which will be used in subsequent phases to reduce nutrients and implement water conservation practices throughout the Santa Margarita River watershed. Funding for the project involves two aspects of project implementation: grant administration and planning/design/engineering/environmental documentation.

The total cost associated with the *Implementing Nutrient Management in the Santa Margarita River Watershed* project is \$600,000. Of these total costs, \$450,000 is being requested for grant funding through the IRWM Implementation Grant Program. The remaining \$112,500 will be funded by non-State funding sources, of which \$7,500 will be provided by Camp Pendleton MCB, \$70,000 will be provided from San Diego County Co-permittees to the Stormwater NPDES Permit no. 97-001, and \$72,500 will be provided from the Santa Margarita River Estuary Monitoring Project. In total, this amount constitutes 20% of the total project cost, meaning that the non-State share of the total project cost (funding match) is 25% for this project. Table 4-33 below provides a more detailed break-down of the total project budget.

**Table 4-33: Total Project Budget
Implementing Nutrient Management in the Santa Margarita River Watershed**

Budget Category		(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used**	(d) Total	(e) % Funding Match
GA	SDCWA Grant Administration	\$0	\$13,500	\$2,025	\$15,525	0%
(a)	Direct Project Administration Costs	\$0	\$0	\$0	\$0	0%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	0%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$172,500	\$436,500	\$65,475	\$674,475	26%
(d)	Construction/Implementation	\$0	\$0	\$0	\$0	0%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	\$0	\$0	\$0	0%
(f)	Construction Administration	\$0	\$0	\$0	\$0	0%
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0	\$0	\$0	\$0	0%
(h)	Construction/Implementation Contingency	\$0	\$0	\$0	0%	0%
(i)	Grand Total	\$172,500	\$450,000	\$67,500	\$690,000	25%

* Sources of funding: Match of \$30,000, with \$7,500 for the San Diego Proposal and \$22,500 to the Upper Santa Margarita Proposal, for the preparation of the Sample and Analysis Plan, QAPP, Project Assessment and Evaluation Plan (PAEP), and CEQA/ NEPA documentation from MCB Camp Pendleton
Match of \$70,000 for Bight '08 Estuaries and Coastal Wetlands Study from San Diego County Copermittes to the Stormwater NPDES Permit no. 97-0001
Match of \$72,500 from Santa Margarita River Estuary Investigation from project proponents in response to Investigative Order No R9-2006-0076.
** Other State Funds are assumed to include IRWM grant funding made available to the Upper Santa Margarita IRWM Region for this shared project.

The Implementation Grant Proposal is requesting funding for one project tasks identified within the *Implementing Nutrient Management in the Santa Margarita River Watershed* project Work Plan (refer to Attachment 3).

**Table 4-34: Cost Breakdown by Work Plan Task and Subtask
Implementing Nutrient Management in the Santa Margarita River Watershed**

Row/Task	Category	Total
GA	SDCWA Grant Administration	\$15,525
Row (c)	Planning/Design/Engineering/Environmental Documentation	\$674,475
Task 4	Assessment and Evaluation	\$674,475
Task 4A	Form and Facilitate Stakeholder Advisory Group	\$76,737
Task 4B	Conduct Field and Special Studies	\$170,239
Task 4C	Develop Nutrient WQOs for SMR Estuary	\$427,500
Row (i)	Grand Total	\$690,000

The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each description below describes how cost estimates for each of the tasks or rows were calculated.

Grant Administration (GA)

Each local project sponsor shall dedicate 3% of their grant funds to the San Diego County Water Authority for administration and processing of the Implementation Grant. The *Implementing Nutrient Management in the Santa Margarita River Watershed* project will contribute \$13,500 to this administration cost.

In addition, the Upper Santa Margarita IRWM Implementation Grant Proposal, submitted by our Tri-County FACC partner Rancho California Water District, also includes \$2,025 in grant request for grant administration of this shared project.

Row (a) Direct Project Administration Costs

Task 1: Project Administration: The County of San Diego will carry out project administration tasks relating to direct project administration and reporting for this project. However, staff costs for those tasks are not included within the proposed Budget.

Task 2: Labor Compliance Program: Not applicable

Task 3: Reporting: The County of San Diego will carry out project administration tasks relating to direct project administration and reporting for this project. However, staff costs for those tasks are not included within the proposed Budget.

Row (b) Land Purchase/Easement

Not applicable.

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

The total planning/design/engineering/environmental documentation costs for the project are \$676,500. Table 4-35 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 4: Assessment and Evaluation: The total cost for this task is \$676,500 and includes costs for the following:

- **Task 4A: Form and Facilitate Stakeholder Advisory Group:** This task has been mostly paid for in full by the County of San Diego and other stakeholder, and expenses include all funds necessary to form and facilitate a stakeholder advisory group. Costs for a scientist from Southern California Coastal Water Research Project (SCCWRP) to attend are included in the budget.
- **Task 4B: Conduct Field and Special Studies:** Costs for this task include labor costs necessary to conduct field and special studies, as well as a lump sum for laboratory analysis, supplies, and travel. These costs were estimated by SCCWRP for conducting the monitoring special studies.
- **Task 4C: Develop Nutrient WQOs for Santa Margarita River Estuary:** Costs for this task include labor costs necessary to conduct technical modeling of the Santa Margarita River Estuary that will lead to the development of nutrient water quality objectives for the SMR estuary. These costs were estimated by SCCWRP.

Task 5: Final Design: Not applicable.

Task 6: Not applicable.

Task 7: Permitting: Not applicable.

Row (d) Construction/Implementation

The project will not involve construction and will therefore not require funds relating to construction contracting, construction, implementation, or construction administration.

Task 8: Construction Contracting: Not applicable.

Task 9: Construction: Not applicable.

Task 11: Construction Administration: Not applicable.

**Table 4-35: Row (d) Planning/Design/Engineering/Environmental Documentation Costs*
Implementing Nutrient Management in the Santa Margarita River Watershed**

Discipline	Hourly Wage (\$/hr)	San Diego IRWM Proposal				Upper Santa Margarita IRWM Proposal				Total Costs
		Number of Hours	Total	Funding Match	Grant Request	Number of Hours	Total	Funding Match	Grant Request	
Task 4A: Form and Facilitate Stakeholder Advisory Group										
Senior Scientist, QAPP Preparation	\$148.40	50.5	\$7,500	\$7,500	\$0	151.6	\$22,500	\$22,500	\$0	\$ 30,001
Principal Scientist, 10 meetings	\$187.40	N/A	\$0	\$0	\$0	120	\$22,488	\$0	\$22,488	\$22,488
Supervising Scientist, 10 meetings	\$148.40	N/A	\$0	\$0	\$0	120	\$17,808	\$0	\$17,808	\$17,808
Miscellaneous Support, Supplies, and Travel	Lump Sum	N/A	\$0	\$0	\$0	N/A	\$4,463	\$0	\$4,463	\$4,463
San Diego RWQCB, 10 meetings	\$32.95	N/A	\$0	\$0	\$0	60	\$1,977	\$0	\$1,977	\$1,977
Subtotal			\$7,500	\$7,500	\$0		\$69,236	\$22,500	\$46,736	\$76,737
Task 4B: Conduct Field and Special Studies										
Principal Scientist	\$187.40	120	\$22,488	\$0	\$22,488	10	\$1,874	\$0	\$1,874	\$24,362
Senior Scientist	\$148.40	80	\$11,872	\$0	\$11,872	4	\$594	\$0	\$594	\$12,466
Senior Research Technician	\$106.00	500	\$53,000	\$0	\$53,000	0	\$0	\$0	\$0	\$53,000
Research Technician	\$84.80	466	\$39,516	\$0	\$39,516	0	\$0	\$0	\$0	\$39,516
Laboratory Analysis, Supplies, and Travel	Lump Sum	N/A	\$24,624	\$0	\$24,624	N/A	\$16,271	\$0	\$ 16,271	\$40,895
Subtotal			\$151,500	\$0	\$151,500		\$18,739	\$0	\$18,739	\$170,239
Task 4C: Develop Nutrient WQOs for Santa Margarita River Estuary										
Santa Margarita River Estuary Investigation	Lump Sum	N/A	\$72,500	\$72,500	\$0	N/A	\$0	\$0	\$0	\$72,500
Bight '08 Estuaries and Coastal Wetlands Study	Lump Sum	N/A	\$70,000	\$70,000	\$0	N/A	\$0	\$0	\$0	\$70,000
San Diego RWQCB	\$32.95	911	\$30,000	\$0	\$30,000	0	\$0	\$0	\$0	\$30,000
Principal Scientist	\$180.19	120	\$21,623	\$0	\$21,623	0	\$0	\$0	\$0	\$21,623
Senior Scientist	\$148.40	1168	\$173,337	\$0	\$173,337	0	\$0	\$0	\$0	\$173,337
Scientist	\$127.20	472	\$60,040	\$0	\$60,040	0	\$0	\$0	\$0	\$60,040
Subtotal			\$427,500	\$150,000	\$285,000		\$0	\$0	\$0	\$427,500
Total			\$586,500	\$150,000	\$436,500		\$87,975	\$22,500	\$65,475	\$674,475

* Note that the modeling will be conducted by a subconsultant and hourly rates may vary, but the overall cost of Task 4 will not be exceeded.

Row (g) Other Costs

Not applicable.

Row (h) Construction/Implementation Contingency

Not applicable.

Row (i) Grand Total

The Grand Total for the *Implementing Nutrient Management in the Santa Margarita River Watershed* project (\$600,000) was calculated as the sum of rows (GA) through (h) for each column.

Table 4-36: Row (i) Grand Total Costs
Implementing Nutrient Management in the Santa Margarita River Watershed

Row	Budget Category	Total Costs
GA	SDCWA Grant Administration	\$15,525
(a)	Direct Project Administration Costs	\$0
(b)	Land Purchase Easement	\$0
(c)	Planning/Design/Engineering/Environmental Documentation	\$674,475
(d)	Construction/Implementation	\$0
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0
(f)	Construction Administration	\$0
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0
(h)	Construction/Implementation Contingency	\$0
(i)	Grant Total	\$690,000

Project 7: Bannock Avenue Neighborhood Streetscape Enhancements for Tecolote Creek Watershed Protection

The *Bannock Avenue Neighborhood Enhancements for Tecolote Creek Watershed Protection* project will involve tasks necessary for reducing the pollutant load and volume of runoff entering the storm drain system in the Tecolote Creek watershed. Funding for this project is needed for construction/implementation and construction/implementation contingency.

The total cost associated with the *Bannock Avenue Neighborhood Enhancements for Tecolote Creek Watershed Protection* project is \$3,543,300. Of these total costs, \$650,000 is being requested for grant funding through the IRWM Implementation Grant Program, and the project will not involve other sources of State funding. The remaining \$2,893,300 will be funded by non-state funding sources, which will come from the City of San Diego Storm Water Department, Watershed Capital Improvement Projects (Watershed CIP/ACC00001, WBS: S10002). This amount constitutes 82% of the total project cost, meaning that the non-State share of the total project cost (funding match) is 82%. Table 4-37 below provides a more detailed break-down of the total project budget.

Table 4-37: Total Project Budget
Bannock Avenue Neighborhood Enhancements for Tecolote Creek Watershed Protection

Budget Category		(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
GA	Grant Administration	\$0	\$19,500	\$0	\$19,500	0%
(a)	Direct Project Administration Costs	\$0	\$0	\$0	\$0	0%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	0%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$0	\$0	\$0	\$0	0%
(d)	Construction/Implementation	\$2,893,300	\$630,500	\$0	\$3,523,800	82%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	\$0	\$0	\$0	0%
(f)	Construction Administration	\$0	\$0	\$0	\$0	0%
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0	\$0	\$0	\$0	0%
(h)	Construction/Implementation Contingency	\$0	\$0	\$0	\$0	100%
(i)	Grand Total	\$2,893,300	\$650,000	\$0	\$3,543,300	82%

* Sources of funding: *City of San Diego Storm Water Department, Watershed Capital Improvement Projects (Watershed CIP / ACC00001, WBS: S10002, <http://www.sandiego.gov/fm/annual/fy11vol3.shtml>).*

This Implementation Grant Proposal is requesting funding for one project task identified within the *Bannock Avenue Neighborhood Streetscape Enhancements for Tecolote Creek Watershed Protection Project Work Plan* (refer to Attachment 3).

Table 4-38: Cost Breakdown by Work Plan Task and Subtask
Bannock Avenue Neighborhood Enhancements for Tecolote Creek Watershed Protection

Row/Task	Category	Total
GA	SDCWA Grant Administration	\$19,500
Row (d)	Construction/Implementation	\$3,523,800
Task 9	Construction	\$3,523,800
Subtask 9.1	Mobilization and Site Preparation	\$590,000
Subtask 9.2	Project Construction/Implementation	\$2,608,750
Subtask 9.3	Performance Testing and Demobilization	\$325,000
Row (i)	Grand Total	\$3,523,750

Grant Administration

Each local project sponsor shall dedicate 3% of their grant funds to the San Diego County Water Authority for administration and processing of the Implementation Grant contract. The *Bannock Avenue Neighborhood Streetscape Enhancements for Tecolote Creek Watershed Protection* project will contribute \$19,500 to this administration cost.

Row (a) Direct Project Administration Costs

The City of San Diego will carry out project administration tasks relating to direct project administration, a labor compliance program, and reporting for this project. However, staff costs for those tasks are not included within the proposed Budget.

Row (b) Land Purchase/Easement

Not applicable.

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

The City of San Diego will carry out assessment and evaluation tasks relating to assessment and evaluation, final design, environmental documentation, and permitting for this project. Planning studies that have been completed or will be completed include the following:

- Strategic Plan for Watershed Activity Implementation,
- Tier II and Tier III Storm Water Best Management Practices Conceptual Designs,
- Bannock Avenue Concept Design Drawings (10%),
- Bannock Avenue Streetscape Enhancements Preliminary Engineering Report,
- 30%, 60%, 90%, and 100% Final Design Drawings, and
- MND Addendum for Bannock Avenue Neighborhood Streetscape Enhancements for Tecolote Creek Watershed Protection Project, and
- Water Pollution Control Plan and Traffic Control Plan per the MND Addendum.

However, because these studies have already been completed or will be completed using other funding sources, costs for those tasks are not included within the proposed budget.

Row (d) Construction/Implementation

The Construction/Implementation costs for the project are estimated to be \$3,198,750. Table 4-39 below provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 9 - Construction

- **Subtask 9.1 Mobilization and Site Preparation:** The costs associated with mobilization and site preparation include demolition of the concrete pavement and base and concrete and gutter, as well as disposal and hauling activities. In addition, these costs include all actions necessary to mobilize and prepare the site, and preparatory activities that must be undertaken to ensure that construction progresses quickly and efficiently. The costs associated with this subtask are \$590,000.
- **Subtask 9.2 Project Construction/Implementation:** The costs associated with project construction/implementation include installation of porous pavement, installation of Portland Concrete Cement (PCC) sidewalk, curb, and cutters, installation of vegetated planter areas in the public right-of-way, and installation of a storm drain by-pass, storm drain clean-out hydrodynamic separator, and AbTech units in the North Clairemont Park. Additionally, costs will be necessary to fund erosion and traffic control efforts.
- **Subtask 9.3 Performance Testing and Demobilization:** The costs associated with performance testing include \$325,000 for a consultant contract, estimated based on agency experience managing such contracts.

Construction costs for this project were estimated from the Concept Plan Estimate prepared from Weston Solutions (June 2008) and the City of San Diego, Development Services Unit Price List (www.sandiego.gov/development-services/industry/pdf/pricelist.pdf).

**Table 4-39: Row (d) Construction/Implementation Costs
Bannock Avenue Neighborhood Enhancements for Tecolote Creek Watershed Protection**

Materials Used	Unit Costs (\$)	Number of Units	Total (\$)	Funding Match	Grant Request
Subtask 9.1 Mobilization and Site Preparation					
Saw cut and grind concrete curb	\$50.00	1,100 LF	\$55,000	\$55,000	\$0
6" Concrete sidewalk removal	\$1.50	74,000 SF	\$111,000	\$111,000	\$0
Excavation and export soil between sidewalk and curb assumes 274 homes have planters installed	\$35.00	3,000 CY	\$105,000	\$105,000	\$0
Haul and dispose material – 6" concrete sidewalk and 1,100 feet of concrete curb	\$50.00	1,400 CY	\$70,000	\$70,000	\$0
Mobilization	\$249,000	Lump Sum	\$590,000	\$249,000	\$0
Subtotal			\$590,000	\$590,000	\$0
Subtask 9.2 Project Construction/Implementation					
Miscellaneous soil and material export	\$10,000	Lump Sum	\$10,000	\$10,000	\$0
6-inch thick pervious concrete sidewalk	\$8.00	74,000 SF	\$592,000	\$592,000	\$0
3 to 6-inch crushed rock assumes 274 homes have planters installed	\$25.00	3,000 CY	\$75,000	\$75,000	\$0
30-gallon tree – Two per house assumes 274 homes have planters installed	\$200.00	550 each	\$110,000	\$110,000	\$0
Bioretention cell with amended soils – 2/house assumes 274 homes have planters installed	\$100.0	550 each	\$55,000	\$55,000	\$0
PCC disabled access ramps	\$3,000.00	20 each	\$60,000	\$60,000	\$0
Driveway replacement from curb to sidewalk	\$2,000.00	28 each	\$56,000	\$56,000	\$0
RCP storm drain	\$175.00	210 LF	\$36,800	\$36,750	\$0
AbTech Unit – assumed 9 cfs treatment at 150k/cfs	\$1,350,000	1 each	\$1,350,000	\$719,550	\$630,450
Cleanout – type A	\$5,000.00	2 each	\$10,000	\$10,000	\$0
Hydrodynamic separator unit	\$45,000.00	1 each	\$45,000	\$45,000	\$0
Miscellaneous landscaping and irrigation	\$30,000.00	Lump Sum	\$30,000	\$30,000	\$0
2-foot by 3-foot by 6-inch thick concrete pad assumes one in five homes have planters installed	\$250.00	60 each	\$15,000	\$15,000	\$0
3-sided, 1/4-inch thick steel plate – 2' x 3' by 0.7" high – assumes one in five homes has concrete pad and plate installed	\$400.00	60 each	\$24,000	\$24,000	\$0
1/4-inch steel plate – 2-feet long with attachments assumes 274 homes; 2/house	\$200.00	550 each	\$110,000	\$110,000	\$0
Erosion control	\$15,000	Lump Sum	\$15,000	\$15,000	\$0
Traffic control	\$15,000	Lump Sum	\$15,000	\$15,000	\$0
Subtotal			\$2,608,800	\$1,978,300	\$630,450
Subtask 9.3 Performance Testing and Demobilization					
Testing and verification of Install devices and equipment	\$325,000	Lump Sum	\$325,000	\$325,000	\$0
Subtotal			\$325,000	\$325,000	\$0
Total			\$3,523,800	\$2,893,300	\$630,450

* Units: LF = linear feet; SF = square feet; CY = cubic yards

Row (e) Environmental Compliance/Mitigation/Enhancement

Not applicable.

Row (f) Construction Administration

The City of San Diego will carry out construction administration tasks for this project. However, staff costs for those tasks are not included within the proposed budget.

Row (g) Other Costs

Not applicable.

Row (h) Construction/Implementation Contingency

Construction/Implementation Contingency is typically estimated for City of San Diego Capital Improvements Projects in the public right-of-way and on public facilities at 15% of the total construction cost less mobilization, erosion control, and traffic control lump sum costs. However, construction contingency costs are not included within the proposed budget.

Row (i) Grand Total

The Grand Total for the *Bannock Avenue Neighborhood Enhancements for Tecolote Creek Watershed Protection* project (\$3,543,300) was calculated as the sum of rows (GA) through (h) for each column. The grand total for this project is summarized in Table 4-40 below.

**Table 4-40: Row (i) Grand Total Costs
*Bannock Avenue Neighborhood Enhancements for Tecolote Creek Watershed Protection***

Row	Budget Category	Total Costs
GA	Grant Administration	\$19,500
(a)	Direct Project Administration Costs	\$0
(b)	Land Purchase/Easement	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$0
(d)	Construction/Implementation	\$3,523,800
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0
(f)	Construction Administration	\$0
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0
(h)	Construction/Implementation Contingency	
(i)	Grand Total	\$3,543,300

Project 8: Pilot Concrete Channel Infiltration Project

The *Pilot Concrete Channel Infiltration Project* will involve converting portions of concrete channels in the City of Santee to a more porous base, facilitating infiltration of dry weather flows without compromising flood control capacity. Funding for this project involves all aspects of project implementation including project administration, planning, design, engineering, environmental documentation, construction/implementation, construction administration, other costs, and construction/implementation contingency.

The total cost associated with the *Pilot Concrete Channel Infiltration Project* is \$333,400. Of these total costs, \$250,000 is being requested for grant funding through the IRWM Implementation Grant Program. Approximately \$83,400 will be funded by non-State funding sources, which will come from the City of Santee's General and Redevelopment Funds. In total, this amount constitutes 25% of the total project cost, meaning that the non-State share of the total project cost (funding match) is 25% for this project. Table 4-41 below provides a more detailed break-down of the total project budget.

**Table 4-41: Total Project Budget
Pilot Concrete Channel Infiltration Project**

Budget Category		(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
GA	SDCWA Grant Administration		\$7,500	\$0	\$7,500	0%
(a)	Direct Project Administration Costs	\$9,990	\$0	\$0	\$9,990	100%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	#DIV/0!
(c)	Planning/Design/Engineering/ Environmental Documentation	\$9,510	\$37,751	\$0	\$47,261	20%
(d)	Construction/Implementation	\$0	\$140,655	\$0	\$140,655	0%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	\$0	\$0	\$0	0%
(f)	Construction Administration	\$17,880	\$0	\$0	\$17,880	100%
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$46,020	\$35,963	\$0	\$81,983	56%
(h)	Construction/Implementation Contingency	\$0	\$28,131	\$0	\$28,131	0%
(i)	Grand Total	\$83,400	\$250,000	\$0	\$333,400	25%
* Sources of funding: City of Santee General and Redevelopment Funds						

This Implementation Grant Proposal is requesting funding for eight project tasks identified within the *Pilot Concrete Channel Infiltration Project Work Plan* (refer to Attachment 3). These tasks are listed below in Table 4-42 in relation to their respective budget category (row) identified in Table 4.8.1.

**Table 4-42: Cost Breakdown by Work Plan Task
Pilot Concrete Channel Infiltration Project**

Row/Task	Category	Total
GA	SDCWA Grant Administration	\$7,500
Row (a)	Direct Project Administration Costs	\$9,990
Task 1	Project Administration	\$9,900
Row (c)	Planning/Design/Engineering/Environmental Documentation	\$47,261
Task 4	Assessment and Evaluation	\$36,059
Task 5	Final Design	\$11,046
Task 6	Environmental Documentation	\$156
Row (d)	Construction/Implementation	\$140,655
Task 9	Construction	\$140,655
Row (f)	Construction Administration	\$17,880
Task 11	Construction Administration	\$17,880
Row (g)	Other Costs	\$81,983
Row (h)	Construction/Implementation Contingency	\$28,131
Row (i)	Grand Total	\$333,400

The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each description below describes how cost estimates for each of the tasks or rows were calculated.

Grant Administration (GA)

Each local project sponsor shall dedicate 3% of their grant funds to the San Diego County Water Authority for administration and processing of the Implementation Grant. The *Pilot Concrete Channel Infiltration Project* will contribute \$7,500 to this administration cost.

Row (a) Direct Project Administration Costs

The total direct project administration costs for the project are \$9,990. Table 4-43 provides a detailed listing of all applicable costs.

Task 1: Project Administration: This includes the cost for project management, including labor costs for a Stormwater Program Manager and a Principal Civil Engineer. These costs were determined based on the overall project budget and previous experience managing grant funding.

Task 2: Labor Compliance Program: The City of Santee will develop a Labor Compliance Program (LCP) if deemed necessary for project implementation. However, those project costs will be born by the City of Santee and are not included in the proposed Budget.

Task 3: Reporting: This task includes preparing the Project Assessment and Evaluation Plan, Quarterly Progress Reports and Invoices, and Project Completion Report. However, those project costs will be born by the City of Santee and are not included in the proposed Budget.

**Table 4-43: Row (a) Direct Project Administration Budget
*Pilot Concrete Channel Infiltration Project***

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Stormwater Program Manager	\$77.95	92	\$7,171	\$7,171	\$0
Principal Civil Engineer	\$108.39	26	\$2,818	\$2,818	\$0
Total			\$9,990	\$9,990	\$0

Row (b) Land Purchase/Easement

Not applicable.

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

The total planning/design/engineering/environmental documentation costs for the project are \$47,261. Table 4-44 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 4: Assessment and Evaluation: This task includes cost for Review of Prior Monitoring Data, Literature Review, Project Monitoring Work Plan, and Final Report on Project Implementation. These costs were determined based on the project cost for researching and assembling relevant project data; experience preparing work plans for scientific assessments and to support grant applications; and experience preparing final reports. Approximately 44 hours will be spent on literature and data review (researching different types of infiltration products, contacting vendors, obtaining and reviewing data provided by vendors and independent sources, and reviewing previous monitoring results). The Project Monitoring Work Plan and Final Report on Project Implementation will be prepared by a DMax Engineer, the Stormwater Program manager, and a Principal Civil Engineer.

Task 5: Final Design: This task includes the cost for finalizing design of the project, from concept to 100% design. This cost was determined based on approximately 20 hours for Principal Civil Engineer, 15 hours for Stormwater Program Manager, and 80 hours for an Associate Civil Engineer. Plans for existing channels need to be researched and reviewed to assess where and how infiltration strips can be introduced.

This task also includes provision of materials to geotechnical engineer, review recommendations from the geotechnical engineer, incorporate them into the final project design, evaluate logistics and staging, and prepare bidding documents. These activities include 90 hours for Geotechnical Engineer, 10 hours for Storm Water Program Manager, and 13 hours for Principal Civil Engineer.

Task 6: Environmental Documentation: This task includes the cost for the CEQA preliminary assessment and documentation. These costs were determined based on approximately two hours of a planner to prepare the necessary documentation.

Task 7: Permitting: Not applicable.

**Table 4-44: Row (c) Planning/Design/Environmental Documentation Costs
Pilot Concrete Channel Infiltration Project**

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Review of Prior Monitoring Data & Literature Review					
Stormwater Program Manager	\$77.95	44	\$3,430	\$3,430	\$0
Community Consultation and Education					
Stormwater Program Manager	\$77.95	20	\$1,559	\$1,559	\$0
Geotechnical Recommendations					
Geotechnical Engineer	\$162.22	90	\$14,600	\$0	\$14,600
Stormwater Program Manager	\$77.95	10	\$780	\$780	\$0
Principal Civil Engineer	\$108.39	13	\$1,409	\$0	\$1,409
Project Monitoring Work Plan & Final Report					
DMax Engineer	\$100.00	90	\$9,000	\$0	\$9,000
Stormwater Program Manager	\$77.95	33	\$2,572	\$2,572	\$0
Principal Civil Engineer	\$108.39	25	\$2,710	\$0	\$2,710
Design					
Stormwater Program Manager	\$77.95	15	\$1,169	\$1,169	\$0
Principal Civil Engineer	\$108.39	20	\$2,168	\$0	\$2,168
Associate Civil Engineer	\$96.36	80	\$7,709	\$0	\$7,709
Environmental Documentation					
Planner	77.95	2	\$156	\$0	\$156
Total			\$47,261	\$9,510	\$37,751

Row (d) Construction/Implementation

The Construction/Implementation costs for the project are estimated to be \$140,655. Table 4-45 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 8: Construction Contracting: The City of Santee will implement necessary construction contracting tasks. These costs are an integral part of the planning and design process. However, those staff costs are not included within the proposed Budget

Task 9: Construction: Construction costs for this project will be used for materials. These costs, which are summarized below:

- **Materials:** Materials for the project include sawcut concrete, excavating and removing concrete, subgrade preparation, concrete, imported soil matrix, and porous channel surfacing for a total of \$140,655.

Construction costs for the infiltration facility were estimated from preliminary estimates that certain areas, based on the typical width of the channel and standard rates for various construction materials.

**Table 4-45: Row (d) Construction/Implementation Costs
Pilot Concrete Channel Infiltration Project**

Materials					
Materials Used	Unit Costs (\$)	Number of Units	Total (\$)	Funding Match	Grant Request
Sawcut concrete (square feet)	\$10.00	3610	\$36,100	\$0	\$36,100
Excavate and remove concrete (cubic yards)	\$22.00	210	\$4,620	\$0	\$4,620
Subgrade preparation (square feet)	\$5.00	3610	\$18,050	\$0	\$18,050
Concrete (linear feet)	\$20.00	3200	\$64,000	\$0	\$64,000
Imported Soil Matrix (cubic feet)	\$35.13	80	\$2,810	\$0	\$2,810
Porous Channel Surfacing (square feet)	\$7.50	2010	\$15,075	\$0	\$15,075
Total			\$140,655	\$0	\$140,655

Row (e) Environmental Compliance/Mitigation/Enhancement

No environmental mitigation or enhancement is required as the project does not remove any environmental resource and the project is solely located within City of Santee infrastructure.

Row (f) Construction Administration

The Construction Administration costs for the project are estimated to be \$17,880. This cost total is summarized in Table 4-46 and is based on the following:

Task 11: Construction Administration: This includes the cost for project management, including labor costs for a Stormwater Program Manager, a Principal Civil Engineer, an Engineering Inspector, and an Associate Engineer. These costs were determined based on a proportion of the total contract costs and apportioning the relative effort between technical staff, based on our experience of managing construction projects.

**Table 4-46: Row (f) Construction Administration Costs
Pilot Concrete Channel Infiltration Project**

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Principal Civil Engineer	\$108.39	30	\$3,252	\$3,252	\$0
Engineering Inspector	\$65.38	55	\$3,596	\$3,596	\$0
Stormwater Program Manager	\$77.95	55	\$4,287	\$4,287	\$0
Associate Civil Engineer	\$96.36	70	\$6,745	\$6,745	\$0
Total			\$17,880	\$17,880	\$0

Row (g) Other Costs

Other Costs for the project are \$79,643. These costs include lump sum costs for a Monitoring Report (\$35,924), Monitoring Report Review (\$5,009), and costs for previously collected monitoring data (\$38,710). The costs were estimated based on our experience managing monitoring contracts. Actual costs were used of previously collected monitoring data.

**Table 4-47: Row (g) Other Costs
Pilot Concrete Channel Infiltration Project**

Other Item	Lump Sum (\$)	Funding Match	Grant Request
Monitoring Report	\$35,924	\$0	\$35,963
Monitoring Report Review	\$5,009	\$5,009	\$0
Previously-collected data	\$41,011	\$41,011	\$0
Total	\$81,983	\$46,020	\$35,963

Row (h) Construction/Implementation Contingency

The Construction/Implementation Contingency for the project is estimated to be \$28,131 in grant request. This was estimated to be approximately 20% of the total construction cost of \$140,655. A full 20% was used because the project is in the pre-design phase.

Row (i) Grand Total

The Grand Total for the *Pilot Concrete Channel Infiltration Project* (\$333,400) was calculated as the sum of rows (GA) through (h) for each column.

**Table 4-48: Row (i) Grand Total Costs
Pilot Concrete Channel Infiltration Project**

Row	Budget Category	Total Costs
GA	Grant Administration	\$7,500
(a)	Direct Project Administration Costs	\$9,990
(b)	Land Purchase/Easement	\$0
(c)	Planning/Design/Engineering/Environmental Documentation	\$47,261
(d)	Construction/Implementation	\$140,655
(e)	Environmental Compliance/Mitigation/ Enhancement	\$0
(f)	Construction Administration	\$17,880
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$81,983
(h)	Construction/Implementation Contingency	\$28,131
(i)	Grand Total	\$333,400

Project 9: San Diego Regional Water Quality Assessment and Outreach Project

This project will involve actions to engage community stakeholders to become more involved with regional water quality issues by collecting and analyzing surface water samples throughout San Diego County, and disseminating that information to the public to increase awareness. Funding for this project involves the following aspects of project implementation: grant administration, project administration costs, planning/design/engineering/environmental documentation, construction/implementation, and other costs.

The total cost associated with the *San Diego Regional Water Quality Assessment and Outreach Project* is \$667,000. Of these total costs, \$500,000 is being requested for grant funding through the IRWM Implementation Grant Program. The remaining \$167,000 will be funded by non-State funding sources, which will come from volunteer hours and funds contributed to San Diego Coastkeeper by foundations, corporate sponsors, local government entities, and individual donors. In total, this amount constitutes 25% of the total project cost, meaning that the non-State share of the total project cost (funding match) is 25% for this project. Table 4-49 below provides a more detailed break-down of the total project budget.

Table 4-49: Total Project Budget
San Diego Regional Water Quality Assessment and Outreach Project

Budget Category		(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
GA	SDCWA Grant Administration	\$0	\$15,000	\$0	\$15,000	0%
(a)	Direct Project Administration Costs	\$0	\$10,000	\$0	\$10,000	0%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	0%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$0	\$131,540	\$0	\$131,540	0%
(d)	Construction/Implementation	\$167,000	\$339,062	\$0	\$506,062	33%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	\$0	\$0	\$0	0%
(f)	Construction Administration	\$0	\$0	\$0	\$0	0%
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0	\$4,398	\$0	\$4,398	0%
(h)	Construction/Implementation Contingency	\$0	\$0	\$0	\$0	0%
(i)	Grand Total	\$167,000	\$500,000	\$0	\$667,000	25%

* Sources of funding: Volunteers who participate in water quality monitoring and data management activities; Cali Bamboo; Ford Motor Company Fund and Community Services; Golden State Flycasters; Hattie Ettinger Conservation Fund at The San Diego Foundation; Kass Family Foundation; S. Kaupp; The Parker Foundation; San Diego County Regional Airport Authority; Surf Industry Manufacturer's Association, Environmental Fund; Anonymous Fund at The San Diego Foundation; Anonymous Individual Donor

This Implementation Grant Proposal is requesting funding for four project tasks identified within the *San Diego Regional Water Quality Assessment and Outreach Project* Work Plan (refer to Attachment 3).

Table 4-50: Cost Breakdown by Work Plan Task and Subtask
San Diego Regional Water Quality Assessment and Outreach Project

Row/Task	Category	Total
GA	SDCWA Grant Administration	\$15,000
Row (a)	Direct Project Administration Costs	\$10,000
Task 1	Project Administration	\$10,000
Row (c)	Planning/Design/Engineering/Environmental Documentation	\$131,540
Task 4	Assessment and Evaluation	\$131,540
Subtask 4.1	Establish Regional Water Monitoring Training and Resource Center	\$131,540
Row (d)	Construction/Implementation	\$506,062
Task 9	Construction	\$506,062
Subtask 9.1	Develop and Implement Outreach and Education Campaign	\$294,325
Subtask 9.2	Manage Data, Analyze Data, and Develop Regional Watershed Reports	\$211,737
Row (g)	Other Costs	\$4,398
Row (i)	Grand Total	\$667,000

The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each description below describes how cost estimates for each of the tasks or rows were calculated.

Grant Administration (GA)

Each local project sponsor shall dedicate 3% of their grant funds to the San Diego County Water Authority for administration and processing of the Implementation Grant. The *San Diego Regional Water Quality Assessment and Outreach Project* will contribute \$15,000 to this administration cost.

Row (a) Direct Project Administration Costs

The total direct project administration costs for the project are \$10,000, which are being requested in full as grant funding from the IRWM Grant Program. Table 4-51 provides a detailed listing of all applicable costs.

Task 1-Project Administration: Costs in this task total \$10,000 and include the cost for all project administration efforts, including labor costs for a Program Director, Lab Coordinator, and Data Coordinator. These costs were determined based on actual hours required to perform equivalent tasks during current ongoing operation of the program.

Task 2- Labor Compliance Program: Not applicable.

Task 3- Reporting: This task includes preparing the Project Assessment and Evaluation Plan, Quarterly Progress Reports and Invoices, and Project Completion Report. Estimated labor costs associated with reporting were included in Task 1: Project Administration.

**Table 4-51: Row (a) Direct Project Administration Budget
*San Diego Regional Water Quality Assessment and Outreach Project***

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Program Director	\$87.00	60	\$3,915	\$0	\$5,220
Lab Coordinator	\$80.00	39	\$3,120	\$0	\$3,120
Data Coordinator	\$50.00	33.2	\$1,660	\$0	\$1,660
Total			\$10,000	\$0	\$10,000

Row (b) Land Purchase/Easement

Not applicable.

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

The total planning/design/engineering/environmental documentation costs for the project are \$131,540, which are being requested in full as grant funding from the IRWM Grant Program. Table 4-52 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 4- Assessment and Evaluation: This task includes cost for the following:

- **Subtask 4.1: Establish Regional Water Monitoring Training and Resource Center.** Costs associated with this subtask include all labor, analyses, and supplies necessary to complete the task. This cost was determined based on actual costs to perform equivalent tasks during current ongoing operation of the program.

Task 5- Final Design: Not applicable.

Task 6- Environmental Documentation: Not applicable.

Task 7- Permitting: Not applicable.

**Table 4-52: Row (c) Planning/Design/Environmental Documentation Costs
San Diego Regional Water Quality Assessment and Outreach Project**

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Establish Regional Water Monitoring Training and Resource Center					
Program Director	\$87.00	20	\$1,740	\$0	\$1,740
Lab Coordinator	\$80.00	15	\$1,200	\$0	\$1,200
Data Coordinator	\$50.00	10	\$500	\$0	\$500
Certified lab analysis (toxicity)	Lump Sum		\$12,600	\$0	\$12,600
Lab Supplies	Lump Sum		\$28,500	\$0	\$28,500
Contract for Trash Clean-Ups	Lump Sum		\$12,000	\$0	\$12,000
Contract for Bio-Assessment	Lump Sum		\$30,000	\$0	\$30,000
Contract for Dissolved Metal Analyses	Lump Sum		\$45,000	\$0	\$45,000
Total			\$131,540	\$0	\$131,540

Row (d) Construction/Implementation

The Construction/Implementation costs for the project are estimated to be \$506,062. Table 4-53 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 8- Construction Contracting: Not applicable.

Task 9- Construction:

Construction costs for this project are divided between three subtasks/categories: Subtask 9.1, Subtask 9.2, and Other Costs. These costs, which are summarized below, are necessary to develop and implement a public outreach and education campaign, and manage data, analyze data, and develop regional watershed reports as described within Task 9 (Construction) of the Work Plan (refer to Attachment 3).

- **Subtask 9.1 – Develop and Implement Public Outreach and Education Campaign.** Costs associated with this subtask include all labor for a Program Director, Lab Coordinator, and Data Coordinator. Together these costs total \$294,325 and were calculated based on actual hours required to perform equivalent tasks during current ongoing operation of the program. Funding match includes salary funded through non-state grants from corporate, foundation, local government, and individual donors.
- **Subtask 9.2 – Manage Data, Analyze Data, and Develop Regional Watershed Reports.** Costs associated with this subtask include all labor for a Program Director, Lab Coordinator, and Data Coordinator. Together these costs total \$211,737 and were calculated based on actual hours required to perform equivalent tasks during current ongoing operation of the program. Funding match includes water quality monitor and data analysis (GIS) volunteer hours contributed by members of the community.

Row (e) Environmental Compliance/Mitigation/Enhancement

This project will not require environmental compliance/mitigation/enhancement. Therefore, no environmental mitigation is included within the Work Plan or Budget.

Task 10- Environmental Compliance/Mitigation/Enhancement: Not applicable.

**Table 4-53: Row (d) Construction/Implementation Costs
San Diego Regional Water Quality Assessment and Outreach Project**

Labor					
Discipline	Hourly Wage (\$)	Number of hours	Total (\$)	Funding Match	Grant Request
Develop and Implement Public Outreach and Education Campaign					
Program Director	\$87.00	1200	\$159,400	\$55,000	\$104,400
Lab Coordinator	\$80.00	1000	\$110,000	\$30,000	\$80,000
Data Coordinator	\$50.00	200	\$24,925	\$14,925	\$10,000
Subtotal			\$294,325	\$99,925	\$194,400
Manage Data, Analyze Data, and Develop Regional Watershed Reports					
Program Director	\$87.00	690	\$60,030	\$0	\$60,030
Lab Coordinator	\$80.00	638	\$51,041	\$0	\$51,040
Data Coordinator	\$50.00	672	\$33,592	\$0	\$33,592
Volunteers	\$23.29	2,880	\$67,075	\$67,075	\$0
Subtotal			\$211,738	\$67,075	\$144,662
Total Cost			\$506,062	\$167,000	\$339,062

Row (f) Construction Administration

Construction will not be performed as part of this project, therefore construction administration is not applicable to this project and is not included within the Work Plan or Budget.

Task 11- Construction Administration: Not applicable.

Row (g) Other Costs

Other costs for the project involve costs associated with purchasing internet software, printing reports, and replacing equipment. These costs are anticipated to be \$4,398, and were calculated based on known costs and estimates based on expenses incurred during current ongoing operation of the program.

Row (h) Construction/Implementation Contingency

Construction/Implementation contingency are not required for this project.

Row (i) Grand Total

The Grand Total for the *San Diego Regional Water Quality Assessment and Outreach Project* (\$667,000) was calculated as the sum of rows (GA) through (h) for each column.

**Table 4-54: Row (i) Grand Total Costs
San Diego Regional Water Quality Assessment and Outreach Project**

Row	Budget Category	Total Costs
GA	Grant Administration	\$15,000
(a)	Direct Project Administration Costs	\$10,000
(b)	Land Purchase/Easement	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$131,540
(d)	Construction/Implementation	\$506,062
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0
(f)	Construction Administration	\$0
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$4,398
(h)	Construction/Implementation Contingency	\$0
(i)	Grand Total	\$667,000

Project 10: Chollas Creek Integration Project

The *Chollas Creek Integration Project* will gather and prepare scientific data and stakeholder input to form an integrated planning process that will update the Chollas Creek Enhancement Program and restore native habitat and reduce flooding hazards within Section 2A of Chollas Creek. Funding for this project involves all aspects of project implementation including project administration, planning, design, engineering, environmental documentation, construction/implementation, environmental compliance/mitigation/enhancement, construction administration, construction/implementation contingency and other costs.

The total cost associated with the *Chollas Creek Integration Project* is \$994,500. Of these total costs, \$900,000 is being requested for grant funding through the IRWM Implementation Grant Program. The remaining \$94,500 will be funded by contributions from Jacobs Center for Neighborhood Innovation and Groundworks San Diego-Chollas Creek. In total, this amount constitutes 10% of the total project cost, meaning that the non-state share of the total project cost (funding match) is 10% for this project. Because this project will not meet its 25% funding match requirement, and it will be serving disadvantaged communities (DACs), this project is requesting a funding waiver match (refer to Attachment 12).

Table 4-55 below provides a more detailed break-down of the total project budget.

**Table 4-55: Total Project Budget
*Chollas Creek Integration Project***

Budget Category		(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
GA	SDCWA Grant Administration	\$0	\$27,000	\$0	\$27,000	0%
(a)	Direct Project Administration Costs	\$0	\$18,000	\$0	\$18,000	0%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	0%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$57,400	\$285,976	\$0	\$343,376	17%
(d)	Construction/Implementation	\$0	\$489,100	\$0	\$489,100	0%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	\$15,000	\$0	\$15,000	0%
(f)	Construction Administration	\$37,100	\$0	\$0	\$37,100	100%
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0	\$25,000	\$0	\$25,000	0%
(h)	Construction/Implementation Contingency	\$0	\$39,924	\$0	\$39,924	0%
(i)	Grand Total	\$94,500	\$900,000	\$0	\$994,500	10%

* Sources of funding: Contributions from Jacobs Center for Neighborhood Innovation (JCNI) and Groundworks San Diego-Chollas Creek (GWSDCC) obtained from non-state sources, specifically \$51,705 in private funding from the Jacobs Family Foundation and \$42,795 from a federal grant to GWSDCC from the U.S. National Park Service.

The Implementation Grant Proposal is requesting funding for nine project tasks identified within the *Chollas Creek Integration Project Work Plan* (refer to Attachment 3).

**Table 4-56: Cost Breakdown by Work Plan Task and Subtask
*Chollas Creek Integration Project***

Row/Task	Category	Total
GA	SDCWA Grant Administration	\$27,000
Row A	Direct Project Administration Costs	\$18,000
Task 1	<i>Project Administration</i>	\$18,000
Row C	Planning/Design/Engineering/Environmental Documentation	\$343,376
Task 4	<i>Assessment and Evaluation</i>	\$124,176
Task 5	<i>Final Design</i>	\$151,700
Task 6	<i>Environmental Documentation</i>	\$37,500
Task 7	<i>Permitting</i>	\$30,000
Row D	Construction/Implementation	\$489,100
Task 9	<i>Construction</i>	\$489,100
Row E	Environmental Compliance/Mitigation/Enhancement	\$15,000
Task 10	<i>Environmental Compliance/Mitigation/Enhancement</i>	\$15,000
Row F	Construction Administration	\$37,100
Task 11	<i>Construction Administration</i>	\$37,100
Row G	Other Costs	\$25,000
Row H	Construction/Implementation Contingency	\$39,924
Row I	Grand Total	\$994,500

The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each description below describes how cost estimates for each of the tasks or rows were calculated.

Grant Administration (GA)

Each local project sponsor shall dedicate 3% of their grant funds to the San Diego County Water Authority for administration and processing of the Implementation Grant. The *Chollas Creek Integration Project* will contribute \$27,000 to this administration cost.

Row (a) Direct Project Administration Costs

The total direct project administration costs for the project are \$18,000, which are being requested through the IRWM Grant Program. Table 4-57 provides a detailed listing of all applicable costs. The total Direct Project Administration Costs (\$18,000) were estimated as 2% of the total grant request (\$900,000), which was calculated based on prior experience.

Task 1- Project Administration: This includes the cost for project management, including labor costs for two Project Managers (for Administration Support), a Grant Administrator (for Grant Administration), and coordination with Groundworks San Diego-Chollas Creek (GWSDCC). Program management and administrative support will consist of \$5,610, grant administration and reporting will consist of \$10,500, and graphics support will consist of \$1,890 of Project Administration costs.

Task 2- Labor Compliance Program: The Jacobs Center for Neighborhood Innovation will implement a labor compliance program for the *Chollas Creek Integration Project*. However, those staff costs are not included within the proposed budget.

Task 3- Reporting: This includes the staff labor from the Project Manager(s) for preparing the Project Assessment and Evaluation Plan (PAEP), quarterly progress reports and invoices, and Project Completion Report. Costs for grant reporting were included within the staff labor shown in Task 1: Project Administration.

**Table 4-57: Row (a) Direct Project Administration Budget
Chollas Creek Integration Project**

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Administration Support	\$35.00	60	\$2,100	\$0	\$2,100
Grant Administration	\$75.00	140	\$10,500	\$0	\$10,500
Program Management (GWSDCC)	\$65.00	54	\$3,510	\$0	\$3,510
Equipment/Supplies: Graphics	Lump Sum		\$1,890	\$0	\$1,890
Total			\$18,000	\$0	\$18,000

Row (b) Land Purchase/Easement

Not applicable.

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

The total planning/design/engineering/environmental documentation costs for the project are \$343,020. Table 4-58 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 4- Assessment and Evaluation: This task includes cost for the following:

- Chollas Creek Section 2A Hydrology Study (2008) and Update (2011),
- Chollas Creek Section 2A Biology Study (2008) and Update (2011),
- Pueblo Watershed Stakeholders Needs Assessment,
- Pueblo Watershed Hydrology Study, and
- Pueblo Watershed Habitat Characterization Study.

This cost was determined based on the anticipated labor costs of those involved in creating these documents. This task will require a Project Manager, Soils Engineer, Hydrological Engineer, Archeologist, Lead Planner and a Special Program Manager for completion of the various studies.

Task 5 - Final Design: This task includes the cost for finalizing design of the project. This cost was determined based on anticipated labor costs of those involved in completing the final design. This task will consist of a Civil Engineer, Landscape Architect, GIS/CAD and a Drafting Designer through the design phases to completion of the Final Design.

Task 6- Environmental Documentation: This task includes the cost for preparation of an Initial Study/Mitigated Negative Declaration/CEQA-Plus, utilizing the Chollas Creek Section 2A Hydrology and Biology studies completed in Task 4 above. These costs were determined based on the anticipated labor costs of those involved in creating these documents. This task will require a Biologist through the assessment and evaluation and design phases as part of completion of the Environmental Documentation.

Task 7- Permitting: This task includes the cost for obtaining all necessary permits to implement the project, including:

- A CWA Section 401 Water Quality Certification Permit from the San Diego Regional Water Quality Control Board,
- A Streambed Alteration Agreement and Notification of Lake or Streambed Alteration from the California Department of Fish and Game,
- A CWA Section 404 Permit to authorize construction within a wetland from the U.S. Army Corps of Engineers, and
- A Grading Permit from the City of San Diego.

This cost was determined based on the consultant costs of anticipated agency fees of those involved in obtaining these permits.

**Table 4-58: Row (c) Planning/Design/Environmental Documentation Costs
Chollas Creek Integration Project**

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Assessment and Evaluation					
Project Manager 1	\$75.00	395	\$29,605	\$14,605	\$15,000
Project Manager 2	\$60.00	500	\$30,000	\$0	\$30,000
Soils Engineer	\$150.00	60	\$9,000	\$0	\$9,000
Hydrological Engineer 1	\$125.00	80	\$10,000	\$0	\$10,000
Hydrological Engineer 2	\$130.00	80	\$10,400	\$0	\$10,400
Paleo/Archeologist	\$125.00	40	\$5,000	\$0	\$5,000
Lead Planner	\$165.00	138	\$22,696	\$12,795	\$9,900
Program Manager	\$65.00	115	\$7,475	\$0	\$7,475
Subtotal			\$124,176	\$27,400	\$96,776
Final Design					
Civil Engineer 1	\$165.00	200	\$33,000	\$0	\$33,000
Civil Engineer 2	\$170.00	140	\$23,800	\$0	\$23,800
Landscape Architect	\$135.00	260	\$35,100	\$0	\$35,100
GIS/CAD	\$115.00	250	\$28,750	\$0	\$28,750
Designer	\$115.00	270	\$31,050	\$0	\$31,050
Subtotal			\$151,700	\$0	\$151,700
Environmental Documentation					
Biologist 1	\$150.00	100	\$15,000	\$0	\$15,000
Biologist 2	\$150.00	150	\$22,500	\$0	\$22,500
Subtotal			\$37,500	\$0	\$37,500
Permitting					
Permitting Specialist	\$150.00	200	\$30,000	\$30,000	\$0
Subtotal			\$30,000	\$30,000	\$0
Total			\$343,376	\$57,400	\$285,976

Row (d) Construction/Implementation

The Construction and Implementation costs for the project are estimated to be \$489,100. Table 4-59 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 8 - Construction Contracting: The Jacobs Center for Neighborhood Innovation will produce a Construction Specifications Package for construction. However, those staff costs are not included within the proposed budget.

Task 9 - Construction: Construction costs for this project are divided between four categories: materials, equipment, labor, and other costs. No matching funds will be provided to cover construction costs. Table 4-59 provides a detailed listing of all applicable costs.

- **Materials:** Materials for the project include materials necessary to complete project construction and creek stabilization for a total of \$212,400. Project materials include slope concrete ditches, a headwall, a catch basin, bioswales, rip-rap, revegetation plantings, and new irrigation.
- **Equipment:** Equipment for the project includes equipment necessary to complete mobilization, demolition, and site preparation for a total of \$194,600.
- **Labor:** Labor required to fulfill performance monitoring includes soils testing, water quality sampling and analysis, and water quality reporting for a total of \$2,600.
- **Other Costs:** Additional costs for construction include identification, storage, and protection of existing native vegetation until re-planting phase of construction; 22,000 sf invasive plant

removal; Project Construction Fence; Water Meter for irrigation establishment; and annual habitat establishment education and outreach for a total of \$52,000.

Construction costs were estimated based on prior experience and quantities of the current engineering and landscape concept design.

**Table 4-59: Row (d) Construction/Implementation Costs
Chollas Creek Integration Project**

Materials					
Materials Used*	Unit Costs (\$)	Number of Units	Total (\$)	Funding Match	Grant Request
Slope Concrete Ditch (LF)	\$15	260	\$3,900	\$0	\$3,900
24" Drainage Ditch (LF)	\$50	35	\$1,750	\$0	\$1,750
Headwall (24" pipe-3:1 slope)	Lump Sum	N/A	\$8,000	\$0	\$8,000
Catch Basin	Lump Sum	N/A	\$5,000	\$0	\$5,000
Bioswale (SF)	\$5	600	\$3,000	\$0	\$3,000
Rip-Rap: ½ ton (CY)	\$60	340	\$20,400	\$0	\$20,400
Rip-Rap: 2 ton (CY)	\$75	270	\$20,250	\$0	\$20,250
Revegetation Plantings (SF)	\$3.15	19,000	\$59,850	\$0	\$59,850
Irrigation (SF)	\$4.75	19,000	\$90,250	\$0	\$90,250
Total			\$212,400	\$0	\$212,400
Equipment					
Equipment Used	Costs (\$)	Number of Units	Total (\$)	Funding Match	Grant Request
Mobilization (LS)	Lump Sum	N/A	\$10,000	\$0	\$10,000
Clear & Group (SF)	\$0.55	32,000	\$17,600	\$0	\$17,600
Rough/Final Grading (CY)	\$16	10,000	\$160,000	\$0	\$160,000
Onsite Cut & Fill (CY)	\$14	500	\$7,000	\$0	\$7,000
Total			\$194,600	\$0	\$194,600
Labor					
Discipline	Hourly Wage (\$)	Number of hours	Total (\$)	Funding Match	Grant Request
Soils Test	\$125	160	\$20,000	\$0	\$20,000
Water Quality Sampling & Analysis	\$100	75	\$7,500	\$0	\$7,500
Water Quality Reporting	\$65	40	\$2,600	\$0	\$2,600
Total			\$30,100	\$0	\$30,100
All Other Costs					
Discipline	Hourly Wage (\$)	Number of hours	Total (\$)	Funding Match	Grant Request
Identification, Storage, and Protection of Existing Native Vegetation Until Replanting	Lump Sum	N/A	\$5,000	\$0	\$5,000
22,000 SF of Invasive Plant Removal	Lump Sum	N/A	\$12,000	\$0	\$12,000
Project Construction Fence	Lump Sum	N/A	\$5,000	\$0	\$5,000
Water Meter for Irrigation Establishment	Lump Sum	N/A	\$20,000	\$0	\$20,000
Annual Habitat Establishment Education and Outreach	Lump Sum	N/A	\$10,000	\$0	\$10,000
All Other Costs			\$52,000	\$0	\$52,000
Total Cost			\$489,100	\$0	\$489,100

*Materials units are as follows: LF = linear feet; CY = cubic yards; SF = square feet

Row (e) Environmental Compliance/Mitigation/Enhancement

The Environmental Compliance/Mitigation/Enhancement costs for the project are \$15,000, as described below. Table 4-60 provides a detailed listing of all applicable costs.

Task 10: Environmental Compliance/Mitigation/Enhancement

Environmental compliance for this project will take place upon project construction, and will be completed in compliance with the findings and/or Mitigation Monitoring Program determined within the environmental document. At a minimum, erosion control will be required throughout project duration. The anticipated costs associated with materials for erosion control, which will not be covered by matching funds are outlined in Table 4-60.

**Table 4-60: Row (e) Environmental Compliance/Mitigation/Enhancement Costs
*Chollas Creek Integration Project***

Materials and Labor					
Materials Used	Unit Costs (\$)	Number of Units	Total (\$)	Funding Match	Grant Request
Silt Fencing (LF)	\$4.00	1000	\$4,000	\$0	\$4,000
Straw Bales (LF)	\$6.50	1000	\$6,500	\$0	\$6,500
Temporary Seeding (SF)	\$0.05	25000	\$1,250	\$0	\$1,250
Permanent Seeding (SF)	\$0.10	25000	\$2,500	\$0	\$2,500
Stabilized Construction Entrance	\$750.00	1	\$750	\$0	\$750
Total			\$15,000	\$0	\$15,000

Row (f) Construction Administration

The Construction Administration costs for the project are estimated to be \$37,100. Table 4-61 provides a detailed listing of all applicable costs.

Task 11- Construction Administration: The total construction administration costs consist of labor required for construction administration, labor compliance, and construction management. The hours estimated were based on prior experience, and as per the estimated design and construction schedule. These costs will be provided as matching funds through a private grant from the Jacobs Family Foundation.

**Table 4-61: Row (f) Construction Administration Costs
*Chollas Creek Integration Project***

Discipline	Hours	Unit Cost (\$)	Total Costs (\$)	Funding Match	Grant Request
Construction Administration	280	\$35.00	\$9,800	\$9,800	\$0
Labor Compliance	48	\$100.00	\$4,800	\$4,800	\$0
Construction Manager	300	\$75.00	\$22,500	\$22,500	\$0
Total			\$37,100	\$37,100	\$0

Row (g) Other Costs

Other Costs for the project are \$25,000. These costs include costs associated with obtaining a development permit (\$10,000) and costs associated with insurance and bonding (\$15,000).

Row (h) Construction/Implementation Contingency

The Construction/Implementation Contingency for project is estimated to be \$39,924. This was estimated based on prior experience of a general percentage of the construction contract amount budgeted for unforeseen emergencies or design shortfalls identified to be approximately 4% of the total Project cost of \$954,220.

Row (i) Grand Total

The Grand Total for the project (\$994,500) was calculated as the sum of rows (GA) through (h) for each column. The grand total for this project is summarized in Table 4-62 below

**Table 4-62: Row (i) Grand Total Costs
Chollas Creek Integration Project**

Row	Budget Category	Total Costs
GA	Grant Administration	\$27,000
(a)	Direct Project Administration Costs	\$18,000
(b)	Land Purchase/Easement	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$343,376
(d)	Construction/Implementation	\$489,100
(e)	Environmental Compliance/ Mitigation/Enhancement	\$15,000
(f)	Construction Administration	\$37,100
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$25,000
(h)	Construction/Implementation Contingency	\$39,924
(i)	Grand Total	\$994,500

Project 11: Regional Water Data Management Program

The *Regional Water Data Management Program* will provide information regarding current data management efforts in the San Diego IRWM region, and prioritize data needs for future uses. Funding for the project involves the following aspects of project implementation: grant administration, project administration costs, and planning/design/engineering/environmental documentation.

The total cost associated with the *Regional Water Data Management Program* is \$200,326. Of these total costs, \$150,000 is being requested for grant funding through the IRWM Implementation Grant Program. The remaining \$50,326 will be funded by non-State funding sources, including the City of San Diego and the San Diego County Water Authority. In total, this amount constitutes 25% of the total project cost, meaning that the non-State share of the total project cost (funding match) is 25% for this project. Table 4-63 below provides a more detailed break-down of the total project budget.

**Table 4-63: Total Project Budget
Regional Water Data Management Program**

Budget Category		(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
GA	SDCWA Grant Administration	\$0	\$4,500	\$0	\$4,500	0%
(a)	Direct Project Administration Costs	\$17,274	\$0	\$0	\$17,274	100%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	0%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$36,053	\$145,500	\$0	\$181,553	20%
(d)	Construction/Implementation	\$0	\$0	\$0	\$0	0%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	\$0	\$0	\$0	0%
(f)	Construction Administration	\$0	\$0	\$0	\$0	0%
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0	\$0	\$0	\$0	0%
(h)	Construction/Implementation Contingency	\$0	\$0	\$0	\$0	0%
(i)	Grand Total	\$53,327	\$150,000	\$0	\$203,327	26%

* Sources of funding: In-kind labor costs for County of San Diego, City of San Diego, and San Diego County Water Authority staff.

The Implementation Grant Proposal is requesting funding for four project tasks identified within the *Regional Water Data Management Program Work Plan* (refer to Attachment 3).

**Table 4-64: Cost Breakdown by Work Plan Task and Subtask
Regional Water Data Management Program**

Row/Task	Category	Total
GA	SDCWA Grant Administration	\$4,500
Row (a)	Direct Project Administration Costs	\$17,274
Task 1	Project Administration	\$17,274
Row (c)	Planning/Design/Engineering/Environmental Documentation	\$181,553
Task 4	Assessment and Evaluation	\$103,341
Task 5	Final Design	\$78,212
Row (i)	Grand Total	\$203,327

The sections below provide detailed descriptions of each of the row and task budgets (where applicable) shown in the summary table above. In addition, each description below describes how cost estimates for each of the tasks or rows were calculated.

Grant Administration (GA)

Each local project sponsor shall dedicate 3% of their grant funds to the San Diego County Water Authority for administration and processing of the Implementation Grant. The *Regional Water Data Management Program* will contribute \$4,500 to this administration cost.

Row (a) Direct Project Administration Costs

The total direct project administration costs for the project are \$17,274. Table 4-65 provides a detailed listing of all applicable costs.

Task 1: Project Administration: This includes the cost for project management, including labor costs for a Land Use and Environmental Planner. These costs were based on the hourly billing rate for a County of San Diego Land Use and Environmental Planner III.

Task 2: Labor Compliance Program: This project will not require a Labor Compliance Program, because it will not involve construction activities or any other activities that would necessitate a LCP. As such, staff costs associated with the LCP are not included within the proposed work plan or budget.

Task 3: Reporting: This task includes preparing a Project Assessment and Evaluation Plan (PAEP), Quarterly Progress Reports and Invoices, and Project Completion Report. These costs were incorporated into labor estimates for the County of San Diego in Task 1: Project Administration.

**Table 4-65: Row (a) Direct Project Administration Budget
Regional Water Data Management Program**

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Land Use and Environmental Planner III	\$99.12	174	\$17,274	\$17,274	\$0
Total			\$17,274	\$17,274	\$0

Row (b) Land Purchase/Easement

Not applicable.

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

The total planning/design/engineering/environmental documentation costs for the project are \$181,553. Table 4-66 provides a detailed listing of all applicable costs. This cost total is based on the following:

Task 4: Initial Design, Engineering, and Environmental Documentation: This task includes the total cost for completing initial design and planning efforts for the project, which is expected to be \$103,341. This total cost includes costs for the following:

- **Subtask 4.1:** Convene a Data Management System (DMS) Advisory Workgroup: \$991
- **Subtask 4.2:** Identify and Segment Stakeholder Groups: \$3,587
- **Subtask 4.3:** Develop Assessment Approaches and Methodologies: \$16,312
- **Subtask 4.4:** Conduct Needs Assessment of Stakeholder Groups: \$69,526
- **Subtask 4.5:** Develop a Vision for Data Management System Basic Design Recommendation: \$12,925

These cost estimates are based on hourly billing rates for County of San Diego, San Diego County Water Authority, City of San Diego, consultant, and non-governmental staff.

Task 5: Final Design: This task includes the total cost for completing design and planning efforts for the project, which is expected to be \$78,212. This total cost includes costs for the following:

- **Subtask 5.1:** Develop draft Data Management System Basic Design Recommendations: \$28,169
- **Subtask 5.2:** Develop draft Final Data Management System Basic Design Recommendations: \$33,612
- **Subtask 5.3:** Develop Final Data Management System Basic Design Recommendations: \$16,432

These estimates are based on hourly billing rates for County of San Diego, San Diego County Water Authority, City of San Diego, consultant, and non-governmental staff.

**Table 4-66: Row (c) Planning/Design/Engineering/Environmental Documentation
Regional Water Data Management Program**

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Subtask 4.1: Convene a Data Management System (DMS) Advisory Workgroup					
Land Use and Environment Planner III - COSD	\$99.12	10	\$991	\$991	\$0
Subtotal			\$991	\$991	\$0
Subtask 4.2: Identify and Segment Stakeholder Groups					
Land Use and Environment Planner III- COSD	\$99.12	5	\$496	\$496	
Water Quality Program Manager- COSD	\$144.48	5	\$722	\$722	
Principal Water Resources Specialist - CWA	\$85.70	4	\$300	\$300	
Senior Water Resources Specialist - City of SD	\$116.14	4	\$406	\$406	
Technical Consultant	\$250.00	4	\$875		\$875
Nongovernmental Agencies	\$75.00	11	\$788		\$788
Subtotal			\$3,587	\$1,925	\$1,663
Subtask 4.3: Develop Assessment Approaches and Methodologies					
Land Use and Environment Planner III- COSD	\$99.12	5	\$496	\$496	
Water Quality Program Manager- COSD	\$144.48	5	\$722	\$722	
Principal Water Resources Specialist - CWA	\$85.70	4	\$300	\$300	
Senior Water Resources Specialist - City of SD	\$116.14	4	\$406	\$406	
Technical Consultant	\$250.00	42	\$10,598		\$10,598
Nongovernmental Agencies	\$75.00	11	\$788		\$788
Subtotal			\$16,312	\$1,925	\$14,388
Subtask 4.4: Conduct Needs Assessment of Stakeholder Groups					
Land Use and Environment Planner III- COSD	\$99.12	60	\$5,947	\$5,947	
Water Quality Program Manager- COSD	\$144.48	24	\$3,468	\$3,468	
Principal Water Resources Specialist - CWA	\$85.70	60	\$5,142	\$5,142	
Senior Water Resources Specialist - City of SD	\$116.14	60	\$6,968	\$6,968	
Technical Consultant	\$250.00	120	\$30,000		\$30,000
Facilitation Consultant	\$250.00	60	\$15,000		\$15,000
Nongovernmental Agencies	\$75.00	40	\$3,000		\$3,000
Subtotal			\$69,525	\$21,525	\$48,000
Subtask 4.5: Develop a Vision for Data Management System Basic Design Recommendation					
Land Use and Environment Planner III- COSD	\$99.12	5	\$495	\$495	
Water Quality Program Manager- COSD	\$144.48	5	\$722	\$722	
Principal Water Resources Specialist - CWA	\$85.70	4	\$343	\$343	
Senior Water Resources Specialist - City of SD	\$116.14	4	\$465	\$465	
Technical Consultant	\$250.00	40	\$10,000		\$10,000
Nongovernmental Agencies	\$75.00	12	\$900		\$900
Subtotal			\$12,925	\$2,025	\$10,900
Subtask 5.1: Develop draft Data Management System Basic Design Recommendations					
Land Use and Environment Planner III- COSD	\$99.12	6	\$594	\$594	
Water Quality Program Manager- COSD	\$144.48	6	\$867	\$867	
Principal Water Resources Specialist - CWA	\$85.70	4	\$343	\$343	
Senior Water Resources Specialist - City of SD	\$116.14	4	\$465	\$465	
Technical Consultant	\$250.00	100	\$25,000		\$25,000
Nongovernmental Agencies	\$75.00	12	\$900		\$900
Subtotal			\$28,169	\$2,269	\$25,900

Discipline	Hourly Wage (\$/hr)	Number of Hours	Total	Funding Match	Grant Request
Subtask 5.2: Develop draft Final Data Management System Basic Design Recommendations					
Land Use and Environment Planner III- COSD	\$99.12	12	\$1,190	\$1,190	
Principal Water Resources Specialist - CWA	\$85.70	12	\$1,028	\$1,028	
Senior Water Resources Specialist - City of SD	\$116.14	12	\$1,394	\$1,394	
Technical Consultant	\$250.00	100	\$25,000		\$25,000
Facilitation Consultant	\$250.00	8	\$2,000		\$2,000
Nongovernmental Agencies	\$75.00	40	\$3,000		\$3,000
Subtotal			\$33,612	\$3,612	\$30,000
Subtask 5.3: Develop Final Data Management System Basic Design Recommendations					
Land Use and Environment Planner III- COSD	\$99.12	4	\$396	\$396	
Water Quality Program Manager- COSD	\$144.48	4	\$578	\$578	
Principal Water Resources Specialist - CWA	\$85.70	4	\$343	\$343	
Senior Water Resources Specialist - City of SD	\$116.14	4	\$465	\$465	
Technical Consultant	\$250.00	55	\$13,750		\$13,750
Nongovernmental Agencies	\$75.00	12	\$900		\$900
Subtotal			\$16,432	\$1,782	\$14,650
Total			\$181,553	\$36,053	\$145,500

Task 6: Environmental Documentation: Not applicable.

Task 7: Permitting: Not applicable.

Row (d) Construction/Implementation

Construction will not be performed as part of this project, therefore construction contracting and construction are not applicable to this project and are not included within the Work Plan or Budget.

Task 8- Construction Contracting: Not applicable.

Task 9- Construction: Not applicable.

Row (e) Environmental Compliance/Mitigation/Enhancement

This project will not require environmental compliance/mitigation/enhancement. Therefore, no environmental mitigation is included within the Work Plan or Budget.

Row (f) Construction Administration

Construction will not be performed as part of this project, therefore construction administration is not applicable to this project and is not included within the Work Plan or Budget.

Task 11- Construction Administration: Not applicable.

Row (g) Other Costs

No other costs are required for this project.

Row (h) Construction/Implementation Contingency

Construction/Implementation contingency are not required for this project.

Row (i) Grand Total

The Grand Total for the project (\$203,327) was calculated as the sum of rows (GA) through (h) for each column.

Table 4-67: Row (i) Grand Total Costs
Regional Water Data Management Program

Row	Budget Category	Total Costs
GA	Grant Administration	\$4,500
(a)	Direct Project Administration Costs	\$17,274
(b)	Land Purchase/Easement	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$181,553
(d)	Construction/Implementation	\$0
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0
(f)	Construction Administration	\$0
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)	\$0
(h)	Construction/Implementation Contingency	\$0
(i)	Grand Total	\$203,327