Attachment 4

Budget

Implementation Grant, Round 2

Coachella Valley IRWM
Implementation Grant Proposal

Attachment 4

Coachella Valley Integrated Regional Water Management Implementation Grant Proposal – Round 2

Budget

Attachment 4 consists of the following items:

1. Proposal Budget(s)

This attachment provides a budget estimate for each work plan task of each project within this Implementation Grant Proposal.

The proposal budget provides detailed budget documentation to support each cost shown in Table 4-1: Summary Budget. Table 4-1 presents the requested grant amount, proposed (non-state) funding match, and other state funding. Following Table 4-1 are detailed descriptions of individual project budgets; there may be several tasks and sub-tasks that are included in project budget descriptions.

Tables 4-2 through 4-39 present the proposed funding match for each project within the Proposal, including information that describes how each project will contribute to the overall funding match. Though three of the five projects included in this proposal address critical water supply or water quality needs of disadvantaged communities (DACs) and may not have the full 25% funding match, as a whole this proposal meets the requirement with a funding match of 45%. None of the proposed projects will be applying for a funding match waiver, even those projects that are addressing DAC issues.

Total Proposal Cost Estimate

As described in Attachment 3, the *Coachella Valley IRWM Implementation Grant Proposal – Round 2* involves implementation of five high priority projects to meet the region's water management needs:

1) Non-Potable Water Use Expansion Program
2) Coachella Valley Salt and Nutrient Management Program
3) Groundwater Quality Protection Program – Subarea D2
4) San Antonio del Desierto DAC Sewer Extension Project
5) Torres-Martinez Avenue 64 Water Supply Connection Project

The total cost to implement this proposal is $9,540,674. Of this amount, $5,240,000 (55%) is being requested as grant funding from the IRWM Grant Program and $4,300,674 (45%) is provided as funding match by the local agencies and organizations or by federal agencies.

Approximately $100,000 from the *Non-Potable Water Use Expansion Program* will be allocated to grant administration by Coachella Valley Water District (CVWD) for the entire proposal. This amount represents 1% of the total proposal cost, and is therefore within the 5% of total proposal cost limit DWR has set for administration costs.

Table 4-1: Summary Budget (PSP Table 8)

Proposal Title: Coachella Valley IRWM Implementation Grant Proposal – Round 2						
Individual Project Title		(a) Requested Grant Amount	(b) Cost Share: Non-State Fund Source* (Funding Match)	(c) Cost Share: Other State Fund Source*	(d) Total Cost	(e) % Funding Match
(a)	Project 1: Non-Potable Water Use Expansion Program	$2,000,000	$1,080,478	$0	$3,080,478	35%
(b)	Project 2: Coachella Valley Salt and Nutrient Management Program	$500,000	$177,540	$0	$677,540	26%
(c)	Project 3: Groundwater Quality Protection Program – Subarea D2	$1,845,000	$1,980,952	$0	$3,825,952	48%
(d)	Project 4: San Antonio del Desierto DAC Sewer Extension Project	$740,000	$978,436	$0	$1,718,436	43%
(e)	Project 5: Torres-Martinez Avenue 64 Water Supply Connection Project	$155,000	$83,269	$0	$238,269	35%
(i)	Proposal Total	$5,240,000	$4,300,674	$0	$9,540,674	45%
(j)	DAC Funding Match Waiver Total	$0	$0	$0	$0	$0
(k)	**Grand Total**	**$5,240,000**	**$4,300,674**	**$0**	**$9,540,674**	**45%**

Note that due to rounding, the total costs presented herein are not necessarily equal to the hourly wage multiplied by the number of hours. As the hourly wages and total costs are fixed in some cases, the hours expended will be adjusted as necessary to account for rounding discrepancies.

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: Non-Potable Water Use Expansion Program

The *Non-Potable Water Use Expansion Program* will involve tasks designed to increase the number of agricultural and golf course connections to the existing non-potable water systems in Coachella Valley. This project will reduce groundwater pumping and overdraft, and help utilize the capacity of existing non-potable distribution infrastructure. Funding for this program involves the following aspects of project implementation: project administration, design and engineering, and construction/ implementation.

The total cost associated with the *Non-Potable Water Use Expansion Program* is $3,080,478. Of these total costs, $2,000,000 is being requested for grant funding through the IRWM Grant Program. The remaining $1,080,478 will be provided by the partner agencies. In total, the non-State share of the total project cost (funding match) is 35% for this program. The funding match will be provided by the conservation budgets of the operating funds of the individual partner agencies.

Table 4-2 below provides a more detailed break-down of the total project budget.

Table 4-2: Project Budget
Non-Potable Water Use Expansion Program

Proposal Title: Coachella Valley IRWM Implementation Grant Proposal – Round 2
Project Title: Non-Potable Water Use Expansion Program
Project serves a need of a DAC?: ☐ Yes ☒ No
Funding Match Waiver request?: ☐ Yes ☒ No

	Category	(a) Requested Grant Amount	(b) Cost Share: Non-State Fund Source* (Funding Match)	(c) Cost Share: Other State Fund Sources*	(d) Total
(a)	Direct Project Administration	$100,000	$0	$0	$100,000
(b)	Land Purchase/ Easement	$0	$0	$0	$0
(c)	Planning/ Design/ Engineering/ Environmental Documentation	$0	$265,000	$0	$265,000
(d)	Construction/ Implementation	$1,900,000	$815,478	$0	$2,715,478
(e)	Environmental Compliance/ Mitigation/ Enhancement	$0	$0	$0	$0
(f)	Construction Administration	$0	$0	$0	$0
(g)	Other Costs	$0	$0	$0	$0
(h)	Construction/ Implementation Contingency	$0	$0	$0	$0
(i)	**Grand Total**	**$2,000,000**	**$1,080,478**	**$0**	**$3,080,478**

** Sources of funding: The non-state funding match will be provided by the conservation budgets of the operating funds of the individual partner agencies.*

This proposal is requesting funding for three project tasks identified within the *Non-Potable Water Use Expansion Program* work plan (refer to Attachment 3). The sections below provide detailed descriptions of each of the row and task budgets (where applicable). In addition, each section below describes how cost estimates for each of the tasks or rows were calculated.

Row (a) Direct Project Administration

The total direct project administration costs for the program are $100,000 and will be spent by CVWD for administration and processing of the IRWM Implementation Grant. The entirety of this cost is included in the *Non-Potable Water Use Expansion Program*'s budget. Table 4-3 provides a detailed listing of all applicable costs.

Task 1: Project Administration

This task involves administration of the *Coachella Valley IRWM Implementation Grant – Round 2* for the region. Costs will be borne by CVWD's planning manager to coordinate receipt of quarterly progress reports from all of the project sponsors, and then compile them into an overall regional progress report for submittal to the Department of Water Resources (DWR). Costs will also be borne by CVWD's analyst, who will receive and reconcile the invoices for both grant reimbursable and funding match from the project sponsors, and compile them into an overall regional grant invoice for DWR. The hourly budget estimated in Table 4-3 below also includes CVWD's project administration costs for the *Non-Potable Water Use Expansion Program.*

Task 2: Labor Compliance Program

Not applicable.

Task 3: Reporting

CVWD will assume all reporting costs under Task 1: Project Administration.

Table 4-3: Row (a) Direct Project Administration
Non-Potable Water Use Expansion Program

Activity	Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Task 1: Project Administration						
CVWD Grant Administration	Planning Manager	$85	580	$49,300	$49,300	$0
	Analyst	$60	845	$50,700	$50,700	$0
Task 1 Total				**$100,000**	**$100,000**	**$0**
Row (a) Total				**$100,000**	**$100,000**	**$0**

Row (b) Land Purchase/ Easement

No pipeline easement costs will be required for this project. CVWD will obtain construction easements for connections and delivery points, then deed the new infrastructure back to the land owners for O&M.

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

Program costs for the *Non-Potable Water Use Expansion Program* include final design and engineering for the proposed golf course connections. Table 4-4 provides a detailed listing of all applicable costs.

Task 4: Assessment and Evaluation

Not applicable.

Task 5: Project Design

Preliminary design activities were completed by CVWD's engineering staff prior to development of this funding application, and are not included in this budget. Costs for the final design activities identified in Table 4-4 below were based on contractor bids and CVWD's standard hourly rate of $50 per hour plus 40% extra for benefits, or a total of $70 per hour for engineering services. Final design costs for this project total $265,000 and will be provided as funding match by CVWD. As indicated in Table 4-4, part of the final design for the L4 La Quinta Extensions will be completed by a contractor, and will not be completed by CVWD. The lump sum estimate of $40,000 budgeted for a contractor to complete this task was estimated by CVWD's engineering staff based on other non-potable water system connections that have been completed through the *Non-Potable Water Use Expansion Program* prior to this funding application.

Task 6: Environmental Documentation

Not applicable.

Task 7: Permitting

Not applicable.

Table 4-4: Row (c) Planning/ Design/ Engineering/ Environmental Documentation
Non-Potable Water Use Expansion Program

Activity	Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Task 5: Final Design						
Connection 1: Desert Horizons - CVWD Final Design	Engineer	$70	840	$58,800	$0	$58,800
Connection 2: Indian Springs - CVWD Final Design	Engineer	$70	980	$68,600	$0	$68,600
Connection 3: The Lakes - CVWD Final Design	Engineer	$70	464	$32,500	$0	$32,500
Connection 4: L4 Pump Station Improvements - CVWD Final Design	Engineer	$70	320	$22,400	$0	$22,400
Connection 5: L4 La Quinta Extensions - CVWD + Contracted Final Design	Engineer	$70	410	$28,700	$0	$28,700
	Contractor	$40,000	Lump Sum	$40,000	$0	$40,000
Connection 6: Indian Palms - CVWD Final Design	Engineer	$70	200	$14,000	$0	$14,000
Task 5 Total				**$265,000**	**$0**	**$265,000**
Row (c) Total				**$265,000**	**$0**	**$265,000**

Row (d) Construction/ Implementation

The Construction/ Implementation costs for the program are estimated to be $2,715,478. Table 4-5 provides a detailed listing of all applicable costs.

Task 8: Construction Contracting

Not applicable.

Task 9: Construction/ Implementation

Construction for the *Non-Potable Water Use Expansion Program* will occur through public works contracts. Construction costs for this program, summarized below, are necessary to complete the six connections that are described in Attachment 3. These construction costs were developed by CVWD's engineering staff based on other non-potable water system connections that have been completed through the *Non-Potable Water Use Expansion Program* prior to this funding application. Approximately $1,900,000 is being requested through the IRWM Grant Program and $815,478 will be provided as funding match by CVWD.

Table 4-5: Row (d) Construction/ Implementation - Summary
Non-Potable Water Use Expansion Program

Materials Used	Unit Costs ($)	Number of Units	Total ($)	Grant Request	Funding Match
Task 9: Construction/ Implementation					
Connection 1: Desert Horizons	See Table 4-6		$553,920	$346,000	$207,920
Connection 2: Indian Springs	See Table 4-7		$436,077	$353,250	$82,827
Connection 3: The Lakes	See Table 4-8		$919,470	$635,810	$283,660
Connection 4: L4 Pump Station Improvements	See Table 4-9		$78,140	$78,140	$0
Connection 5: L4 La Quinta Extensions	See Table 4-10		$581,070	$340,000	$241,070
Connection 6: Indian Palms	See Table 4-11		$146,800	$146,800	$0
Task 9 Total			**$2,715,478**	**$1,900,000**	**$815,478**
Row (d) Total			**$2,715,478**	**$1,900,000**	**$815,478**

Connection 1: Desert Horizons – Construction of Connection 1: Desert Horizons will include installation of a 24" pipeline, water meter, and water level controller. Construction costs for this connection were determined based on CVWD engineering staff experience and draft pipeline alignments developed during the preliminary design phase of the project. From these plans, along with contractor bids for similar projects, total construction costs were estimated at $553,920.

Table 4-6: Row (d) Construction/ Implementation Costs
Non-Potable Water Use Expansion Program
Connection 1: Desert Horizons

Activity	Materials Used	Unit Costs ($)	Number of Units	Total ($)	Grant Request	Funding Match
Meter	Water meter	$48,000	1	$48,000	$48,000	$0
24" Pipeline in channel	LF of 24" pipe	$200	300	$60,000	$60,000	$00
24" Pipeline in grass area	LF of 24" pipe	$90	1700	$153,000	$153,000	$0
24" Pipeline in pavement	LF of 24" pipe	$120	1650	$198,000	$85,000	$113,000
Water level control over pond	Controller	$15,000	1	$15,000	$0	$15,000
Contingency				$79,920	$0	$79,920
Connection 1 Subtotal				**$553,920**	**$346,000**	**$207,920**

Connection 2: Indian Springs - Construction of Connection 2 Indian Springs will include installation of a 18" pipeline, concrete panel, water meter, and water level controller. Construction costs for this connection were determined based on CVWD engineering staff experience and draft pipeline alignments developed during the preliminary design phase of the project. From these plans, along with contractor bids for similar projects, total construction costs were estimated at $436,077.

Table 4-7: Row (d) Construction/ Implementation Costs
Non-Potable Water Use Expansion Program
Connection 2: Indian Springs

Activity	Materials Used	Unit Costs ($)	Number of Units	Total ($)	Grant Request	Funding Match
Meter	Water meter	$48,000	1	$48,000	$48,000	$0
New 18" stub out from 54" steel pipe	Stun	$45,000	1	$45,000	$45,000	$0
18" pipeline in channel	LF of 18" pipe	$200	200	$40,000	$40,000	$0
18" pipeline outside channel	LF of 18" pipe	$135	200	$27,000	$27,000	$0
Remove and replace concrete panel	LF of 18" pipe	$950	20	$19,000	$19,000	$0
Traffic control and striping at Fiesta Drive	Lump Sum	$2,000	1	$2,000	$2,000	$0
Connection to CVWD pipe	Lump Sum	$40,000	1	$40,000	$40,000	$0
18" pipeline in golf course	LF of 18" pipe	$85	1000	$85,000	$85,000	$0
18" pipeline from end of golf course to well site	LF of 18" pipe	$135	350	$47,250	$47,250	$0
Water level control over pond	Controller	$15,000	1	$15,000	$0	$15,000
Traffic control and striping	Lump Sum	$2,000	1	$2,000	$0	$2,000
Contingency				$65,827	$0	$65,827
Connection 2 Subtotal				**$436,077**	**$353,250**	**$82,827**

Connection 3: The Lakes - Construction of Connection 3: The Lakes will include installation of a 12" pipeline, water meters, power supplies, air release valves, concrete vault, and water level controller. Construction costs for this connection were determined based on CVWD engineering staff experience and draft pipeline alignments developed during the preliminary design phase of the project. From these plans, along with contractor bids for similar projects, total construction costs were estimated at $919,470.

Table 4-8: Row (d) Construction/ Implementation Costs
Non-Potable Water Use Expansion Program
Connection 3: The Lakes

Activity	Materials Used	Unit Costs ($)	Number of Units	Total ($)	Grant Request	Funding Match
Meter	Water meter	$35,000	3	$105,000	$105,000	$0
12" Pipeline	LF of 12" pipe	$225	1700	$382,500	$382,500	$0
Power supply	Lump Sum	$10,000	3	$30,000	$30,000	$0
2" Air release valve	Valve	$2,900	2	$5,800	$5,800	$0
12" pipeline in golf course	LF of 12" pipe	$185	400	$74,000	$74,000	$0
12" pipeline in pavement	LF of 12" pipe	$225	500	$112,500	$38,510	$73,990
6'x8' Concrete vault	Vault	$5,500	3	$16,500	$0	$16,500
Automated water level control valve	Valve	$5,500	3	$16,500	$0	$16,500
Floater and telemetry	Lump Sum	$7,500	3	$22,500	$0	$22,500
Power supply	Lump Sum	$10,000	3	$30,000	$0	$30,000
Contingency				$124,170	$0	$124,170
Connection 3 Subtotal				**$919,470**	**$635,810**	**$283,660**

Connection 4: L4 Pump Station Improvements – Construction of Connection 4: L4 Pump station Improvements will include installation of a water meter and two variable frequency drives. Construction costs for this connection were determined based on CVWD engineering staff experience and draft pipeline alignments developed during the preliminary design phase of the project. From these plans, along with contractor bids for similar projects, total construction costs were estimated at $78,140.

Table 4-9: Row (d) Construction/ Implementation Costs
Non-Potable Water Use Expansion Program
Connection 4: L4 Pump Station Improvements

Activity	Materials Used	Unit Costs ($)	Number of Units	Total ($)	Grant Request	Funding Match
Meter	Water meter	$45,000	1	$45,000	$45,000	$0
Variable frequency drives	VFDs	$12,000	2	$24,000	$24,000	$0
Contingency				$9,140	$9,140	$0
Connection 4 Subtotal				**$78,140**	**$78,140**	**$0**

Connection 5: L4 La Quinta Extensions – Construction of Connection 5: L4 La Quinta Extensions will include installation of a 6” pipeline, 30” pipeline, and water meters. Construction costs for this connection were determined based on CVWD engineering staff experience and draft pipeline alignments developed during the preliminary design phase of the project. From these plans, along with contractor bids for similar projects, total construction costs were estimated at $581,070.

Table 4-10: Row (d) Construction/ Implementation Costs
Non-Potable Water Use Expansion Program
Connection 5: L4 La Quinta Extensions

Activity	Materials Used	Unit Costs ($)	Number of Units	Total ($)	Grant Request	Funding Match
Meter	Water meter	$15,000	2	$30,000	$30,000	$0
6" pipeline	LF of 6" pipe	$30	2640	$79,200	$79,200	$0
30" pipeline	LF of 6" pipe	$96	4300	$412,800	$230,800	$182,000
Contingency				$59,070	$0	$59,070
Connection 5 Subtotal				**$581,070**	**$340,000**	**$241,070**

Connection 6: Indian Palms – Construction of Connection 6: Indian Palms will include installation of a 12" pipeline, upstream tie-in, water meter, and appurtenances. Construction costs for this connection were determined based on CVWD engineering staff experience and draft pipeline alignments developed during the preliminary design phase of the project. From these plans, along with contractor bids for similar projects, total construction costs were estimated at $146,800.

Table 4-11: Row (d) Construction/ Implementation Costs
Non-Potable Water Use Expansion Program
Connection 6: Indian Palms

Activity	Materials Used	Unit Costs ($)	Number of Units	Total ($)	Grant Request	Funding Match
Mobilization	Lump Sum	$5,000	1	$5,000	$5,000	$0
Remove and replace pavement	Lump Sum	$20,000	1	$20,000	$20,000	$0
12" pipeline	LF of 12" pipe	$40	1450	$58,000	$58,000	$0
Upstream tie-in at Monroe	Lump Sum	$9,000	1	$9,000	$9,000	$0
8" meter and appurtenances	Water Meter	$20,000	1	$20,000	$20,000	$0
Abandon existing pipeline per USBR standards	Lump Sum	$15,000	1	$15,000	$15,000	$0
Traffic control	Lump Sum	$3,000	1	$3,000	$3,000	$0
Contingency				$16,800	$16,800	$0
Connection 6 Subtotal				**$146,800**	**$146,800**	**$0**

Row (e) Environmental Compliance/ Mitigation/ Enhancement

Task 10: Environmental Compliance/ Mitigation/ Enhancement

Not applicable.

Row (f) Construction Administration

Task 11: Construction Administration

Not applicable.

Row (g) Other Costs

No other costs will be required for implementation of this program.

Row (h) Construction/Implementation Contingency

All construction contingency costs are included as part of the construction cost estimates (Task 9).

Row (i) Grand Total

The Grand Total for the *Non-Potable Water Use Expansion Program* ($3,080,478) was calculated as the sum of rows (a) through (h).

Table 4-12: Row (i) Grand Total Costs
Non-Potable Water Use Expansion Program

Row	Category	Total
(a)	Direct Project Administration	$100,000
(b)	Land Purchase/Easement	$0
(c)	Planning/Design/Engineering/ Environmental Documentation	$265,000
(d)	Construction/Implementation	$2,715,478
(e)	Environmental Compliance/ Mitigation/Enhancement	$0
(f)	Construction Administration	$0
(g)	Other Costs	$0
(h)	Construction/Implementation Contingency	$0
(i)	**Grand Total**	**$3,080,478**

Project 2: Coachella Valley Salt and Nutrient Management Program

The *Coachella Valley Salt and Nutrient Management Program* is the second phase of a proposed three-phase program. It will involve developing an initial Salt and Nutrient Management Plan (SNMP) for the Coachella Valley Groundwater Basin in order to meet the requirements of the State of California's Recycled Water Policy. Phase I (Initial SNMP Scoping and Work Plan Development) was funded through an IRWM Proposition 84 Planning Grant and was completed in 2012. Funding for Phase II involves the planning and assessment aspect of program implementation.

The total cost associated with the *Coachella Valley Salt and Nutrient Management Program* is $677,540. Of these total costs, $500,000 is being requested for grant funding through the IRWM Grant Program. The remaining $177,540 will be provided through in-kind staff contributions from the five Coachella Valley Regional Water Management Group (CVRWMG) agencies – CVWD, DWA, MSWD, IWA, and CWA. In total, the non-State share of the total project cost (funding match) is 26% for this project.

Table 4-13 below provides a more detailed break-down of the total project budget.

Table 4-13: Total Project Budget
Coachella Valley Salt and Nutrient Management Program

Proposal Title: Coachella Valley IRWM Implementation Grant Proposal – Round 2
Project Title: Coachella Valley Salt and Nutrient Management Program
Project serves a need of a DAC?: ☐ **Yes** ☒ **No**
Funding Match Waiver request?: ☐ **Yes** ☒ **No**

		(a)	(b)	(c)	(d)
Category		**Requested Grant Amount**	**Cost Share: Non-State Fund Source* (Funding Match)**	**Cost Share: Other State Fund Sources***	**Total**
(a)	Direct Project Administration	$0	$0	$0	$0
(b)	Land Purchase/ Easement	$0	$0	$0	$0
(c)	Planning/ Design/ Engineering/ Environmental Documentation	$500,000	$177,540	$0	$677,540
(d)	Construction/ Implementation	$0	$0	$0	$0
(e)	Environmental Compliance/ Mitigation/ Enhancement	$0	$0	$0	$0
(f)	Construction Administration	$0	$0	$0	$0
(g)	Other Costs	$0	$0	$0	$0
(h)	Construction/ Implementation Contingency	$0	$0	$0	$0
(i)	**Grand Total**	**$500,000**	**$177,540**	**$0**	**$677,540**

** Sources of funding: The non-state funding match will include in-kind staff labor from the five CVRWMG agencies.*

This Implementation Grant Proposal is requesting funding for one task as identified within the *Coachella Valley Salt and Nutrient Management Program* work plan (refer to Attachment 3).

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

Row (a) Direct Project Administration

Task 1: Project Administration

CVWD will assume all direct project administration costs for this project. Although the reporting deliverables identified in the work plan (Attachment 3) will be submitted per the grant contract, those costs will not be tracked by CVWD and therefore are not included in this budget.

Task 2: Labor Compliance Program

Not applicable.

Task 3: Reporting

Not applicable.

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 $677,540. Table 4-14 provides a detailed listing of all applicable costs.

Task 4: Assessment and Evaluation

This task includes the steps necessary for creating an SNMP for the Coachella Valley Groundwater Basin. These steps are detailed in the work plan (see Attachment 3). The costs associated with this task are anticipated to total $677,540, which was calculated based on the detailed work plan and consultant estimate of the required personnel and time to achieve each subtask.

The proposed staffing for the *Coachella Valley Salt and Nutrient Management Program* includes the following roles/responsibilities. Each of the subtask budgets below includes one or more of these staffing categories:

- Principal in Charge: Overall project oversight and responsible for quality assurance/quality control (QA/QC) of all deliverables
- Senior Project Manager: Day-to-day project management of staff, scope, schedule, and budget, as well as providing technical leadership and management of stakeholder process
- Project Manager: Assist Senior Project Manager with day-to-day management of the project, including stakeholder outreach. Lead for all technical tasks and oversight of technical staff.
- Project Engineer: Staff level engineers, scientists, and planners who will work under Senior Project Manager and Project Manager to conduct technical analysis and prepare presentations for meeting, technical memorandums, and reports.
- Project Administrator: Provide assistance to Project Manager and technical team for invoices, formatting and printing reports, and other administrative support.
- Subconsultant: Assist with stakeholder outreach/management process and provide technical expertise on certain tasks.

Table 4-14: Row (c) Planning/ Design/ Environmental Documentation - Summary
Coachella Valley Salt and Nutrient Management Program

Subtask	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Task 4: Assessment and Evaluation					
4.1 Establish Collaborative Process	See Table 4-15		$235,617	$77,445	$158,172
4.2 Conduct Basin Characterization	See Table 4-16		$83,150	$83,150	$0
4.3 Identify Salt/Nutrient Loading and Trends	See Table 4-17		$86,655	$86,655	$0
4.4 Identify Water Management Goals and Potential Strategies	See Table 4-18		$89,930	$89,930	$0
4.5 Conduct Anti-Degradation Process	See Table 4-19		$32,130	$32,130	$0
4.6 Finalize Phase 2 SNMP	See Table 4-20		$150,058	$130,690	$19,368
Task 4 Total			**$677,540**	**$500,000**	**$177,540**
Row (c) Total			**$677,540**	**$500,000**	**$177,540**

Subtask 4.1: Establish Collaborative Process – This subtask involves developing working groups, conducting technical review meetings and conference calls, conducing SNMP stakeholder workshops, and program management/technical team oversight. Costs for these activities were developed by a consultant during Phase I and are based on estimations of labor costs from past experience. Each technical review meeting and stakeholder workshop will require 8 hours of time for each of the five CVRWMG agencies (4 hours to attend meetings, 4 hours to review and comment on materials), which will be provided as funding match. Six hours of effort from each of the five CVRWMG agencies is expected for program management/technical team oversight for each of the monthly meetings required during the length of this project. This subtask is anticipated to cost $235,617.

Table 4-15: Row (c) Planning/ Design/ Environmental Documentation Costs
Coachella Valley Salt and Nutrient Management Program
Subtask 4.1: Establish Collaborative Process

Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Subtask 4.1: Establish Collaborative Process					
4.1.1 Develop Working Groups					
Sr. Project Manager	$225	2	$450	$450	$0
Project Engineer	$175	16	$2,800	$2,800	$0
Project Administrator	$95	1	$95	$95	$0
Subtotal			**$3,345**	**$3,345**	
4.1.2 Conduct Technical Review Meetings					
Principal in Charge	$270	4	$1,080	$1,080	$0
Sr. Project Manager	$225	48	$10,800	$10,800	$0
Project Manager	$205	48	$9,840	$9,840	$0
Project Engineer	$175	20	$3,500	$3,500	$0
Project Administrator	$95	1	$95	$95	$0
CVWD rep	$220	48	$10,560	$0	$10,560
MSWD rep	$207	48	$9,936	$0	$9,936

Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
DWA rep	$180	48	$8,640	$0	$8,640
IWA rep	$100	48	$4,800	$0	$4,800
CWA rep	$100	48	$4,800	$0	$4,800
Subconsultant			$4,400	$4,400	$0
Total ODC			$1,100	$1,100	$0
Subtotal			**$69,551**	**$30,815**	**$38,736**
4.1.3 Conduct Technical Review Conference Calls					
Principal in Charge	$270	2	$540	$540	$0
Sr. Project Manager	$225	12	$2,700	$2,700	$0
Project Manager	$205	10	$2,050	$2,050	$0
Project Engineer	$175	20	$3,500	$3,500	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$2,200	$2,200	$0
Subtotal			**$11,085**	**$11,085**	**$0**
4.1.4 Conduct SNMP Stakeholder Workshops					
Principal in Charge	$270	8	$2,160	$2,160	$0
Sr. Project Manager	$225	36	$8,100	$8,100	$0
Project Manager	$205	24	$4,920	$4,920	$0
Project Engineer	$175	32	$5,600	$5,600	$0
Project Administrator	$95	8	$760	$760	$0
CVWD Representative	$220	40	$8,800	$0	$8,800
MSWD Representative	$207	40	$8,280	$0	$8,280
DWA Representative	$180	40	$7,200	$0	$7,200
IWA Representative	$100	40	$4,000	$0	$4,000
CWA Representative	$100	40	$4,000	$0	$4,000
Subconsultant			$8,800	$8,800	$0
Total ODC			$1,860	$1,860	$0
Subtotal			**$64,480**	**$32,200**	**$32,280**
4.1.5 Program Management/Oversight of Technical Team					
CVWD Representative	$220	108	$23,760	$0	$23,760
MSWD Representative	$207	108	$22,356	$0	$22,356
DWA Representative	$180	108	$19,440	$0	$19,440
IWA Representative	$100	108	$10,800	$0	$10,800
CWA Representative	$100	108	$10,800	$0	$10,800
Subtotal			**$87,156**	**$0**	**$87,156**
Task 4.1 Total			**$235,617**	**$77,445**	**$158,172**

Subtask 4.2: Conduct Basin Characterization – This subtask will involve identifying groundwater basins, reviewing existing studies and data, documenting beneficial uses, characterizing groundwater, and identifying salt/nutrient/constituents of concern. Costs are expected to total $83,150 and were estimated by a consultant.

Table 4-16: Row (c) Planning/ Design/ Environmental Documentation Costs
Coachella Valley Salt and Nutrient Management Program
Subtask 4-2: Conduct Basin Characterization

Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Subtask 4.2: Conduct Basin Characterization					
4.2.1 Identify Groundwater Basins Being Evaluated					
Sr. Project Manager	$225	2	$450	$450	$0
Project Manager	$205	12	$2,460	$2,460	$0
Project Engineer	$175	4	$700	$700	$0
Project Administrator	$95	1	$95	$95	$0
Subtotal			**$3,705**	**$3,705**	**$0**
4.2.2 Identify, Collect, and Review Existing Groundwater Studies and Data					
Sr. Project Manager	$225	4	$900	$900	$0
Project Manager	$205	16	$3,280	$3,280	$0
Project Engineer	$175	32	$5,600	$5,600	$0
Project Administrator	$95	8	$760	$760	$0
Total ODC			$1,100	$1,100	$0
Subtotal			**$11,640**	**$11,640**	**$0**
4.2.3 Document Beneficial Uses					
Principal in Charge	$270	2	$540	$540	$0
Sr. Project Manager	$225	10	$2,250	$2,250	$0
Project Manager	$205	24	$4,920	$4,920	$0
Project Engineer	$175	40	$7,000	$7,000	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$4,400	$4,400	$0
Subtotal			**$19,205**	**$19,205**	**$0**
4.2.4 Characterize Groundwater Quality and Occurrences					
Principal in Charge	$270	$540	$540	$540	$0
Sr. Project Manager	$225	$5,400	$5,400	$5,400	$0
Project Manager	$205	$13,120	$13,120	$13,120	$0
Project Engineer	$175	$14,000	$14,000	$14,000	$0
Project Administrator	$95	$95	$95	$95	$0
Subconsultant		$4,400	$4,400	$4,400	$0
Subtotal			**$37,555**	**$37,555**	**$0**
4.2.5 Identify Salinity, Nutrients, and Constituents of Concern					
Sr. Project Manager	$225	8	$1,800	$1,800	$0
Project Manager	$205	16	$3,280	$3,280	$0
Project Engineer	$175	20	$3,500	$3,500	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$1,100	$1,100	$0
Subtotal			**$9,775**	**$9,775**	**$0**
4.2.6 Establish Baseline Conditions					

Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Sr. Project Manager	$225	2	$450	$450	$0
Project Manager	$205	4	$820	$820	$0
Subtotal			**$1,270**	**$1,270**	**$0**
Task 4.2 Total			**$83,150**	**$83,150**	**$0**

Subtask 4.3: Identify Salt/Nutrient Loading and Trends – This subtask will involve identifying salinity and nutrient sources, quantifying salinity and nutrient source loads, and developing a plan for data gaps. These costs were developed by a consultant contracted in Phase I. Costs are expected to total $86,655 and were estimated by a consultant.

Table 4-17: Row (c) Planning/ Design/ Environmental Documentation Costs
Coachella Valley Salt and Nutrient Management Program
Subtask 4.3: Identify Salt/Nutrient Loading and Trends

Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Subtask 4.3: Identify Salt/Nutrient Loading and Trends					
4.3.1 Identify Salinity and Nutrient Sources					
Principal in Charge	$270	1	$270	$270	$0
Sr. Project Manager	$225	12	$2,700	$2,700	$0
Project Manager	$205	26	$5,330	$5,330	$0
Project Engineer	$175	32	$5,600	$5,600	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$2,200	$2,200	$0
Subtotal			**$16,195**	**$16,195**	**$0**
4.3.2 Quantify Salinity and Nutrient Source Loads					
Principal in Charge	$270	2	$540	$540	$0
Sr. Project Manager	$225	42	$9,450	$9,450	$0
Project Manager	$205	128	$26,240	$26,240	$0
Project Engineer	$175	116	$20,300	$20,300	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$2,200	$2,200	$0
Subtotal			**$58,825**	**$58,825**	**$0**
4.3.3 Develop a Plan for Data Gaps					
Principal in Charge	$270	1	$270	$270	$0
Sr. Project Manager	$225	6	$1,350	$1,350	$0
Project Manager	$205	24	$4,920	$4,920	$0
Project Engineer	$175	16	$2,800	$2,800	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$2,200	$2,200	$0
Subtotal			**$11,635**	**$11,635**	**$0**
Task 4.3 Total			**$86,655**	**$86,655**	**$0**

Subtask 4.4: Identify Water Management Goals and Potential Strategies – This subtask will include identifying water supply and quality management goals, developing a list of potential management strategies, evaluating the feasibility of potential management strategies, and an assimilative capacity analysis. Costs are expected to total $89,930 and were estimated by a consultant.

Table 4-18: Row (c) Planning/ Design/ Environmental Documentation Costs
Coachella Valley Salt and Nutrient Management Program
Subtask 4.4: Identify Water Management Goals and Potential Strategies

Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Subtask 4.4: Identify Water Management Goals and Potential Strategies					
4.4.1 Identify Water Supply and Water Quality Management Goals					
Principal in Charge	$270	4	$1,080	$1,080	$0
Sr. Project Manager	$225	16	$3,600	$3,600	$0
Project Manager	$205	30	$6,150	$6,150	$0
Project Engineer	$175	12	$2,100	$2,100	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$8,800	$8,800	$0
Subtotal			**$21,825**	**$21,825**	**$0**
4.4.2 Develop List of Potential Management Strategies					
Principal in Charge	$270	4	$1,080	$1,080	$0
Sr. Project Manager	$225	24	$5,400	$5,400	$0
Project Manager	$205	42	$8,610	$8,610	$0
Project Engineer	$175	24	$4,200	$4,200	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$8,800	$8,800	$0
Subtotal			**$28,185**	**$28,185**	**$0**
4.4.3 Evaluate Feasibility of Potential Management Strategies					
Principal in Charge	$270	2	$540	$540	$0
Sr. Project Manager	$225	8	$1,800	$1,800	$0
Project Manager	$205	40	$8,200	$8,200	$0
Project Engineer	$175	24	$4,200	$4,200	$0
Project Administrator	$95	1	$95	$95	$0
Subtotal			**$14,835**	**$14,835**	**$0**
4.4.4 Assimilative Capacity Analysis					
Principal in Charge	$270	2	$540	$540	$0
Sr. Project Manager	$225	20	$4,500	$4,500	$0
Project Manager	$205	40	$8,200	$8,200	$0
Project Engineer	$175	42	$7,350	$7,350	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$4,400	$4,400	$0
Subtotal			**$25,085**	**$25,085**	**$0**
Task 4.4 Total			**$89,930**	**$89,930**	**$0**

Subtask 4.5: Conduct Anti-Degradation Process – This subtask involves assessing load reductions and water quality improvements, and identifying preferred management strategies. Subtask 4-5 is expected to cost $32,130, based on a consultant estimate.

Table 4-19: Row (c) Planning/ Design/ Environmental Documentation Costs
Coachella Valley Salt and Nutrient Management Program
Subtask 4.5: Conduct Anti-Degradation Process

Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Subtask 4.5: Conduct Anti-Degradation Process					
4.5.1 Assess Load Reductions and Water Quality Improvements					
Principal in Charge	$270	2	$540	$540	$0
Sr. Project Manager	$225	8	$1,800	$1,800	$0
Project Manager	$205	60	$12,300	$12,300	$0
Project Engineer	$175	36	$6,300	$6,300	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$2,200	$2,200	$0
Subtotal			**$23,235**	**$23,235**	**$0**
4.5.2 Identify Preferred Management Strategies					
Principal in Charge	$270	2	$540	$540	$0
Sr. Project Manager	$225	4	$900	$900	$0
Project Manager	$205	22	$4,510	$4,510	$0
Project Engineer	$175	10	$1,750	$1,750	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$1,100	$1,100	$0
Subtotal			**$8,895**	**$8,895**	**$0**
Task 4-5 Total			**$32,130**	**$32,130**	**$0**

Subtask 4.6: Finalize Phase 2 SNMP – This subtask will include all activities necessary for finalizing the SNMP deliverable. This will include developing an implementation plan; identifying metrics and developing a monitoring plan; developing a data management, reporting and auditing process; determining CEQA/NEPA compliance needs; and finalizing the plan itself. These costs are expected to total $150,058, based on a consultant estimate.

Table 4-20: Row (c) Planning/ Design/ Environmental Documentation Costs
Coachella Valley Salt and Nutrient Management Program
Subtask 4.6: Finalize Salt and Nutrient Management Plan

Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Subtask 4.6: Finalize Salt and Nutrient Management Plan					
4.6.1 Develop Implementation Plan					
Principal in Charge	$270	4	$1,080	$1,080	$0
Sr. Project Manager	$225	24	$5,400	$5,400	$0
Project Manager	$205	40	$8,200	$8,200	$0
Project Engineer	$175	16	$2,800	$2,800	$0
Project Administrator	$95	1	$95	$95	$0

Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Subconsultant			$1,100	$1,100	$0
Subtotal			**$18,675**	**$18,675**	**$0**
4.6.2 Identify Metrics and Develop Monitoring Program					
Principal in Charge	$270	1	$270	$270	$0
Sr. Project Manager	$225	26	$5,850	$5,850	$0
Project Manager	$205	40	$8,200	$8,200	$0
Project Engineer	$175	44	$7,700	$7,700	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$1,100	$1,100	$0
Subtotal			**$23,215**	**$23,215**	**$0**
4.6.3 Develop SNMP Data Management, Reporting, and Audit Process					
Principal in Charge	$270	1	$270	$270	$0
Sr. Project Manager	$225	4	$900	$900	$0
Project Manager	$205	16	$3,280	$3,280	$0
Project Engineer	$175	14	$2,450	$2,450	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$1,100	$1,100	$0
Subtotal			**$8,095**	**$8,095**	**$0**
4.6.4 Determine CEQA/NEPA Compliance Needs					
Principal in Charge	$270	1	$270	$270	$0
Sr. Project Manager	$225	26	$5,850	$5,850	$0
Project Manager	$205	64	$13,120	$13,120	$0
Project Engineer	$175	80	$14,000	$14,000	$0
Project Administrator	$95	1	$95	$95	$0
Subconsultant			$1,100	$1,100	$0
Subtotal			**$34,435**	**$34,435**	**$0**
4.6.5 Finalization of the SNMP					
Principal in Charge	$270	8	$2,160	$2,160	$0
Sr. Project Manager	$225	40	$9,000	$9,000	$0
Project Manager	$205	80	$16,400	$16,400	$0
Project Engineer	$175	88	$15,400	$15,400	$0
Project Administrator	$95	8	$760	$760	$0
CVWD Representative	$220	24	$5,280	$0	$5,280
MSWD Representative	$207	24	$4,968	$0	$4,968
DWA Representative	$180	24	$4,320	$0	$4,320
IWA Representative	$100	24	$2,400	$0	$2,400
CWA Representative	$100	24	$2,400	$0	$2,400
Subconsultant			$1,100	$1,100	$0
Total ODC			$1,450	$1,450	$0
Subtotal			**$65,638**	**$46,270**	**$19,368**
Task 4-6 Total			**$150,058**	**$130,690**	**$19,368**

Task 5: Final Design

Not applicable.

Task 6: Environmental Documentation

Not applicable.

Task 7: Permitting

Not applicable.

Row (d) Construction/ Implementation

There are no Construction/ Implementation costs for this project.

Task 8: Construction Contracting

Not applicable.

Task 9: Construction

Not applicable

Row (e) Environmental Compliance/ Mitigation/ Enhancement

Task 10: Environmental Compliance/ Mitigation/ Enhancement

Not applicable.

Row (f) Construction Administration

Task 11: Construction Administration

Not applicable.

Row (g) Other Costs

There are no Other Costs for this project.

Row (h) Construction/Implementation Contingency

Not applicable.

Row (i) Grand Total

The Grand Total for the *Coachella Valley Salt and Nutrient Management Program* ($677,540) was calculated as the sum of rows (a) through (h).

Table 4-21: Row (i) Grand Total Costs
Coachella Valley Salt and Nutrient Management Program

Row	Budget Category	Total Costs
(a)	Direct Project Administration Costs	$0
(b)	Land Purchase/Easement	$0
(c)	Planning/Design/Engineering/ Environmental Documentation	$677,540
(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**	**$677,540**

Project 3: Groundwater Quality Protection Project – Subarea D2

This project will involve extending the Mission Springs Water District's (MSWD) municipal wastewater collection system to a residential area, designated as Subarea D2. By eliminating the need for on-site septic systems in that area, this project will reduce the potential for groundwater contamination from densely clustered and/or failing septic systems. Funding for this project involves the following aspects of project implementation: project administration, planning/ design/ engineering/ environmental documentation, construction/ implementation, construction administration, and construction/ implementation contingency.

The total cost associated with the *Groundwater Quality Protection Program – Subarea D2* is $3,825,952. Of these total costs, $1,845,000 is being requested for grant funding through the IRWM Grant Program. The remaining $1,980,952 will be provided by MSWD. In total, the non-State share of the total project cost (funding match) is 48% for this project. This funding match will include funds from MSWD Assessment District No. 12 bonds and MSWD Capital Improvement Project (CIP) fund.

Table 4-22 below provides a more detailed break-down of the total project budget.

Table 4-22: Total Project Budget
Groundwater Quality Protection Program - Subarea D2

Proposal Title: Coachella Valley IRWM Implementation Grant Proposal – Round 2
Project Title: Groundwater Quality Protection Program - Subarea D2
Project serves a need of a DAC?: ☒ **Yes** ☐ **No**
Funding Match Waiver request?: ☐ **Yes** ☒ **No**

	Category	(a) Requested Grant Amount	(b) Cost Share: Non-State Fund Source* (Funding Match)	(c) Cost Share: Other State Fund Sources*	(d) Total
(a)	Direct Project Administration	$41,545	$41,545	$0	$83,090
(b)	Land Purchase/Easement	$0	$0	$0	$0
(c)	Planning/Design/Engineering/ Environmental Documentation	$0	$7,680	$0	$7,680
(d)	Construction/Implementation	$1,468,172	$1,595,196	$0	$3,063,368
(e)	Environmental Compliance/ Mitigation/Enhancement	$0	$0	$0	$0
(f)	Construction Administration	$162,000	$162,000	$0	$324,000
(g)	Other Costs	$0	$0	$0	$0
(h)	Construction/Implementation Contingency	$173,283	$174,531	$0	$347,814
(i)	**Grand Total**	**$1,845,000**	**$1,980,952**	$0	**$3,825,952**

** Sources of funding: The non-state funding match will include funds from MSWD Assessment District No. 12 bonds and MSWD Capital Improvement Project (CIP) fund.*

This Implementation Grant Proposal budget allocates funding for five project tasks, as well as a Construction/ Implementation Contingency, identified within the *Groundwater Quality Protection Program - Subarea D2* work plan (refer to Attachment 3).

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

Row (a) Direct Project Administration Costs

The total direct project administration costs for the project are $83,090 or 2% of the total project budget. Table 4-23 provides a detailed listing of all applicable costs.

Task 1: Project Administration

This task includes the cost for all project administration efforts to be completed by MSWD engineering staff. These costs were determined based on MSWD's past experience implementing septic-to-sewer conversion for the other subareas of Assessment District No. 12. Costs will be borne by MSWD's General Manager to review overall project progress and by MSWD's Project Manager who will be responsible for day-to-day project management. Costs are expected to total $26,250.

Task 2: Labor Compliance Program

MSWD will hire a consultant to implement a labor compliance program (LCP) for the *Groundwater Quality Protection Program - Subarea D2.* Costs required to implement the LCP will total $23,040 and will include the following activities: field interview project labor force, review contractor certified payroll, prepare deficiency notification, and prepare final report summarizing labor compliance. Costs for implementation of the LCP are estimated to total $23,040.

Task 3: Reporting

This task includes the cost associated with preparing the invoice work summary, quarterly progress reports, and final reports for submittal to CVWD and DWR. This is based on the estimate that 240 hours will be allocated to the administration of the DWR reports (collecting information and assembling reports). Costs for reporting are estimated to total $28,800.

In addition to the individual task costs described above, it is assumed that the project would require other direct costs associated with professional services. This amount has been estimated as $5,000 based on previous experience with administration, labor compliance, and reporting for grants.

Table 4-23: Row (a) Direct Project Administration
Groundwater Quality Protection Program - Subarea D2

Activity	Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Task 1 – Project Administration						
Project Coordination	General Manager	$125	50	$6,250	$3,125	$3,125
	Project Manager	$100	200	$20,000	$10,000	$10,000
Task 1 Total				**$26,250**	**$13,125**	**$13,125**
Task 2 – Labor Compliance Program						
Field Interview Project Labor Force	Consultant	$120	72	$8,640	$4,320	$4,320
Review Contractor Certified Payroll	Consultant	$120	48	$5,760	$2,880	$2,880

Activity	Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Prepare Deficiency Notification	Consultant	$120	48	$5,760	$2,880	$2,880
Prepare Final Report Summarizing Labor Compliance	Consultant	$120	24	$2,880	$1,440	$1,440
Task 2 Total				**$23,040**	**$11,520**	**$11,520**
Task 3 - Reporting						
Compile Invoices and Work Summary	Consultant	$120	40	$4,800	$2,400	$2,400
Prepare Quarterly Reports	Consultant	$120	120	$14,400	$7,200	$7,200
Prepare Final Report	Consultant	$120	80	$9,600	$4,800	$4,800
Task 3 Total				**$28,800**	**$14,400**	**$14,400**
Equipment/Supplies						
Professional Services ODCs				$5,000	$2,500	$2,500
Row (a) Total				**$83,090**	**$41,545**	**$41,545**

Row (b) Land Purchase/ Easement

Not applicable.

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

The total planning/ design/ engineering/ environmental documentation cost for the project is $7,680 and is shown in Table 4-24. All planning and engineering has been completed for implementation of sewer construction in Assessment District No. 12, save permitting for the individual subarea projects.

Task 4: Assessment and Evaluation

Not applicable.

Task 5: Final Design

Design was completed in conjunction with a U.S. Army Corps of Engineers planning grant that required a 25% local cost share. Not applicable.

Task 6: Environmental Documentation

Not applicable.

Task 7: Permitting

MSWD will apply for an NPDES General Construction Permit, which requires development and implementation of a Stormwater Pollution Prevention Plan (SWPPP). MSWD will also apply for encroachment permits from the City of Desert Hot Springs and County of Riverside. Costs required to finalize this documentation involve 64 hours of consultant effort, for a total of $7,680.

Table 4-24: Row (c) Planning/ Design/ Environmental Documentation
Groundwater Quality Protection Program - Subarea D2

Activity	Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Task 7: Permitting						
NPDES General Construction Permit, including SWPP	Consultant	$120	24	$2,880	$0	$2,880
Encroachment Permits from City of Desert Hot Springs and County of Riverside	Consultant	$120	40	$4,800	$0	$4,800
Task 7 Total				**$7,680**	**$0**	**$7,680**
Row (c) Total				**$7,680**	**$0**	**$7,680**

Row (d) Construction/ Implementation

The Construction/ Implementation costs for the project are estimated to be $3,050,888. Table 4-25 provides a detailed listing of all applicable costs.

Task 8: Construction Contracting

A consultant will complete construction contracting for this project, including bidding, bid evaluation and award, and contract execution. This cost was based on MSWD experience managing implementation of the *Groundwater Quality Protection Program* in other subareas and is estimated to cost $12,480.

Task 9: Construction/ Implementation

Construction activities associated with Subtasks 9.1 – 9.3 are described within the work plan (refer to Attachment 3). The total construction cost estimate of $3,063,368 is based on a cost estimate provided by a licensed engineer contracted by MSWD to manage the sewer construction program. Of these costs, 48%, or $1,468,172, is being requested as grant funding and the remaining $1,595,196 will be matched by local revenue from Assessment District No. 12 – a voter approved fund of $28 million to provide matching funds for septic-to-sewer conversion projects within the Desert Hot Springs DAC between 2004 and 2014. The cost estimates were based on the materials, equipment, and labor required for installing sewer mains, laterals, and manholes, which will protect the hot water aquifer that is the basis for the spa economy in the city of Desert Hot Springs and the Coachella Valley. The grant funding and MSWD's match will cover costs for the construction of the sewer lines and laterals, including all manholes and appurtenances.

Table 4-25: Row (d) Construction/ Implementation
Groundwater Quality Protection Program - Subarea D2

Activity or Deliverable	Discipline	Hourly Wage by discipline ($)	Number of hours	Total ($)	Value of Total in Grant Request	Value of Total in Funding Match
Task 8: Construction Contracting						
Bidding and pre-construction meeting	Consultant	$120	40	$4,800	$0	$4,800
Bid Evaluations, award, and approvals	Consultant	$120	40	$4,800	$0	$4,800
Contract Execution	Consultant	$120	24	$2,880	$0	$2,880
Task 8 Total				**$12,480**	**$0**	**$12,480**
Task 9: Construction / Implementation						
Activity or Deliverable	**Materials Used**	**Unit Costs ($)**	**Number of Units**	**Total ($)**	**Value of Total in Grant Request**	**Value of Total in Funding Match**
Materials						
Subtask 9.1 Mobilization and Site Preparation						
SWPPP BMPs	Bags, Rumble Plates, and Fences	$10,000	Lump Sum	$10,000	$5,000	$5,000
Traffic Control	Delineators, Etc.	$10,000	Lump Sum	$10,000	$5,000	$5,000
Subtask 9.2 Project Construction						
Sewer Pipelines (per LF)	VCP	$12.50	18555	$231,938	$115,969	$115,969
Manhole	Precast Concrete	$1,350	70	$94,500	$47,250	$47,250
Laterals (per LF)	VCP	$10	15,281	$152,810	$76,405	$76,405
Connections	Pipe and PCC	$50	10	$500	$250	$250
Pavement Restoration (per SF)	Asphalt	$1.50	643,477	$965,216	$482,608	$482,608
Striping and Clean-Up	Paint	$1,000	1	$1,000	$500	$500
Subtask 9.3 Performance Testing and Demobilization						
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Materials Total				**$1,465,963**	**$732,982**	**$732,982**
Activity or Deliverable	**Discipline**	**Hourly Wage by discipline ($)**	**Number of Hours**	**Total ($)**	**Value of Total in Grant Request**	**Value of Total in Funding Match**
Labor						
Subtask 9.1 Mobilization and Site Preparation						
Mobilization	Contractor	$98,000	Lump Sum	$98,000	$49,000	$49,000

Activity or Deliverable	Discipline	Hourly Wage by discipline ($)	Number of hours	Total ($)	Value of Total in Grant Request	Value of Total in Funding Match
Pavement Pulverization (per SF)	Contractor	$85	4,015	$341,279	$170,639	$170,639
Potholing	Contractor	$10,000	Lump Sum	$10,000	$5,000	$5,000
Traffic Control	Contractor	$10,000	Lump Sum	$10,000	$5,000	$5,000
Subtask 9.2 Project Construction						
Sewer Installation (per SF)	Contractor	$85	3,820	$324,713	$162,356	$162,356
Manhole	Contractor	$85	1,112	$94,500	$47,250	$47,250
Laterals (per SF)	Contractor	$85	2,697	$229,215	$114,608	$114,608
Connections	Contractor	$85	180	$15,300	$7,650	$7,650
Pavement Restoration (per SF)	Contractor	$85	3,799	$322,919	$161,459	$161,459
Striping and Clean-Up	Contractor	$14,000	Lump Sum	$14,000	$7,000	$7,000
Subtask 9.3 Performance Testing and Demobilization						
Testing	Contractor	$25,000	Lump Sum	$25,000	$0	$25,000
Demobilization	Contractor	$100,000	Lump Sum	$100,000	$5,228	$94,772
Labor Total				**$1,584,925**	**$735,190**	**$849,734**
Task 9 Total				**$3,050,888**	**$1,468,172**	**$1,582,716**
Row (d) Total				**$3,063,368**	**$1,468,172**	**$1,595,196**

Row (e) Environmental Compliance/ Mitigation/ Enhancement

Task 10: Environmental Compliance/ Mitigation/ Enhancement

Not applicable.

Row (f) Construction Administration

The Construction Administration costs for the project are estimated to be $324,000.

Task 11: Construction Administration

The total costs for this task includes work anticipated from a construction management consultant, including construction management, materials testing, inspection, and construction staking. It is estimated that construction will take 12 months (from mobilization through performance testing). Labor hours were calculated with an estimate of about 216 hours per month for the construction management team, including inspection. The staking labor is based on the amount of surveying required for sewer, related facilities, and street reconstruction. These budgeted costs are summarized in Table 4-26 below.

Table 4-26: Row (f) Construction Administration
Groundwater Quality Protection Program - Subarea D2

Labor Category	Hourly Wage ($)	Number of hours	Total ($)	Grant Request	Funding Match
Task 11: Construction Administration					
Consultant – Construction Management	$120	600	$72,000	$36,000	$36,000
Consultant – Materials Testing	$120	600	$72,000	$36,000	$36,000
Consultant – Inspection	$100	1,000	$100,000	$50,000	$50,000
Consultant – Construction Staking	$200	400	$80,000	$40,000	$40,000
Task 11 Total			**$324,000**	**$162,000**	**$162,000**
Row (f) Total			**$324,000**	**$162,000**	**$162,000**

Row (g) Other Costs

No other costs are expected for this project.

Row (h) Construction/Implementation Contingency

The Construction/Implementation Contingency costs for the *Desert Hot Springs Groundwater Quality Protection Program – Subarea D2* are estimated to be $347,814. This was estimated to be approximately 10% of the total project budget (Rows (a) – (g)). This value was based on MSWD experience and standard industry practice for municipal sewer construction projects.

Table 4-27: Row (h) Construction / Implementation Contingency Costs
Groundwater Quality Protection Program - Subarea D2

Category	Contingency Percentage	Total ($)	Grant Request	Funding Match
Construction / Implementation Contingency	10%	$347,814	$173,283	$174,531
Row (h) Total		**$347,814**	**$173,283**	**$174,531**

Row (i) Grand Total

The Grand Total for the *Groundwater Quality Protection Program - Subarea D2* project ($3,825,952) was calculated as the sum of rows (a) through (h).

Table 4-28: Row (i) Grand Total Costs
Groundwater Quality Protection Program - Subarea D2

Row	Category	Total
(a)	Direct Project Administration	$83,090
(b)	Land Purchase/Easement	$0
(c)	Planning/Design/Engineering/ Environmental Documentation	$7,680
(d)	Construction/Implementation	$3,063,368
(e)	Environmental Compliance/ Mitigation/Enhancement	$0
(f)	Construction Administration	$324,000
(g)	Other Costs	$0
(h)	Construction/Implementation Contingency	$347,814
(i)	**Grand Total**	**$3,825,952**

Project 4: San Antonio del Desierto DAC Sewer Extension Project

The *San Antonio del Desierto DAC Sewer Extension Project* will involve replacing the existing on-site wastewater system (wastewater lagoons) with sewer service for the San Antonio del Desierto Mobile Home Park. Funding for this project involves the following aspects of project implementation: project administration, planning/ design/ engineering/ environmental documentation, construction/ implementation, construction administration, and construction/ implementation contingency.

The total cost associated with the *San Antonio del Desierto DAC Sewer Extension Project* is $1,718,436. Of these total costs, $740,000 is being requested for grant funding through the IRWM Grant Program. The remaining $978,436 will be provided by the project sponsor, Pueblo Unido Community Development Corporation (PUCDC). In total, the non-State share of the total project cost (funding match) is 43%for this project. This funding match will be provided through in-kind staff labor from PUCDC for administration, PUCDC operating budget for contract engineering, and a U.S. Department of Agriculture (USDA) Rural Development grant for construction.

Table 4-29 below provides a more detailed break-down of the total project budget.

Table 4-29: Total Project Budget
San Antonio del Desierto DAC Sewer Extension Project

Proposal Title: Coachella Valley IRWM Implementation Grant Proposal – Round 2
Project Title: San Antonio del Desierto DAC Sewer Extension Project
Project serves a need of a DAC?: ☒ **Yes** ☐ **No**
Funding Match Waiver request?: ☐ **Yes** ☒ **No**

		(a)	(b)	(c)	(d)
Category		**Requested Grant Amount**	**Cost Share: Non-State Fund Source* (Funding Match)**	**Cost Share: Other State Fund Sources***	**Total**
(a)	Direct Project Administration	$0	$7,200	$0	$7,200
(b)	Land Purchase/Easement	$0	$0	$0	$0
(c)	Planning/Design/Engineering/ Environmental Documentation	$0	$84,350	$0	$84,350
(d)	Construction/Implementation	$740,000	$594,326	$0	$1,334,326
(e)	Environmental Compliance/ Mitigation/Enhancement	$0	$0	$0	$0
(f)	Construction Administration	$0	$68,416	$0	$68,416
(g)	Other Costs	$0	$0	$0	$0
(h)	Construction/Implementation Contingency	$0	$224,144	$0	$224,144
(i)	**Grand Total**	**$740,000**	**$978,436**	**$0**	**$1,718,436**

** Sources of funding: The non-state funding match will be provided through in-kind staff labor from PUCDC for administration, PUCDC operating budget for contract engineering, and a USDA Rural Development grant for construction.*

This Implementation Grant Proposal is requesting funding for five project tasks identified within the *San Antonio del Desierto DAC Sewer Extension Project* work plan (refer to Attachment 3).

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

Row (a) Direct Project Administration Costs

Project administration will be completed by PUCDC as described below and in Table 4-30.

Task 1: Project Administration

Project administration includes the cost for all project management activities, including coordination of construction plans and exhibits, tracking budgets, preparing invoices and quarterly reports, and providing all contract reporting materials to the overall grant manager. These costs, which total $7,200, were determined based on PUCDC experience with similar grant projects.

Task 2: Labor Compliance Program

CVWD, the primary project partner, will be responsible for the construction component of this project. CVWD has an established Labor Compliance Program (LCP) in place and will utilize this program for this sewer construction project. Staff costs required to implement the LCP are not included within the proposed budget.

Task 3: Reporting

PUCDC will submit quarterly invoices and progress reports in accordance with grant contracting requirements. However, these costs are included in Task 1: Project Administration.

Table 4-30: Row (a) Direct Project Administration
San Antonio del Desierto DAC Sewer Extension Project

Activity or Deliverable	Discipline	Hourly Wage ($/hr)	Number of Hours	Total ($)	Grant Request	Funding Match
Task 1: Project Administration						
Track budgets, prepare invoices, compile backup documentation, and prepare quarterly reports	PUCDC Project Manager	$60	80	$4,800	$0	$4,800
Prepare and administer PAEP	PUCDC Project Manager	$60	16	$960	$0	$960
Prepare project completion report	PUCDC Project Manager	$60	16	$960	$0	$960
Coordination of construction plans and exhibits	PUCDC Project Manager	$60	8	$480	$0	$480.
Task 1 Total				**$7,200**	**$0**	**$7,200**
Row (a) Total				**$7,200**	**$0**	**$7,200**

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 $84,350 and are currently being implemented and funded by PUCDC directly. Table 4-31 provides a detailed listing of all applicable costs.

Task 4: Assessment and Evaluation

Not applicable.

Task 5: Final Design

PUCDC is currently in the process of completing a *Preliminary Engineering Report* and geotechnical investigations. Following completion of these reports, 100% design will be initiated. All architecturel and engineering (A&E) costs included in this task, estimated at $84,350, are being funded through PUCDC's operating budget.

Task 6: Environmental Documentation

Not applicable.

Task 7: Permitting

Not applicable.

Table 4-31: Row (c) Planning/ Design/ Environmental Documentation
San Antonio del Desierto DAC Sewer Extension Project

Activity	Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Task 5: Final Design						
Preliminary Engineering Report	A&E	$90	100	$23,325	$0	$23,325
Geotechnical Investigations	A&E	$90	100	$6,600	$0	$6,600
Final design (100%)	A&E	$90	100	$54,425	$0	$54,425
Task 5 Total				**$84,350**	**$0**	**$84,350**
Row (c) Total				**$84,350**	**$0**	**$84,350**

Row (d) Construction/ Implementation

The Construction/ Implementation costs for the project are estimated to be $1,334,326. Table 4-32 provides a detailed listing of all applicable costs.

Task 8: Construction Contracting

This task will include preparing bid packages and awarding the construction contract. PUCDC will work with CVWD to initiate construction contracting. Costs associated with this task are not included in this budget.

Task 9: Construction

Construction costs for this project, which are summarized in Table 4-32 below, are necessary to complete Subtasks 9.1 through 9.3 as in the work plan (refer to Attachment 3). All of the cost estimates for the following subtasks are based on the preliminary construction cost estimate produced by Coachella Valley Engineers, the consultant currently under contract with PUCDC for the *Preliminary Engineering Report*.

The initial cost estimate provided by the Coachella Valley Engineers, which was used as a basis for the lump sum cost estimates presented below is included as Appendix 4-1 to this attachment. $740,000 is being requested from the IRWM Grant Program, while the remaining $594,326 will be funded through a USDA Rural Development grant.

- ***Subtask 9.1 Mobilization and Site Preparation*:** Costs associated with this task are for mobilization necessary for pipeline installation.
- ***Subtask 9.2 Project Construction*:** Costs associated with this task are for construction of a sewage lift station, an 8-inch gravity sewer, a 6-inch sewage force main, and all related connections.
- ***Subtask 9.3 Performance Testing and Demobilization*:** Costs associated with demobilization include the CVWD connection fees necessary to become operational.

Table 4-32: Row (d) Construction/ Implementation
San Antonio del Desierto DAC Sewer Extension Project

Activity or Deliverable	Material	Unit Costs ($)	Number of Units	Total ($)	Grant Request	Funding Match
Task 9: Construction / Implementation						
Subtask 9.1 Mobilization and Site Preparation						
Engineering and Construction Staking		$74,750	Lump sum	$74,750	$55,840	$18,910
Sewer Offsite Force	Mobilization	$10,000	Lump sum	$10,000	$10,000	$0
Sewer Offsite Gravity	Mobilization	$5,000	Lump sum	$5,000	$5,000	$0
Lift Station	Mobilization	$9,750	Lump sum	$9,750	$9,750	$0
Subtotal 9.1				**$99,500**	**$80,590**	**$18,910**
Subtask 9.2 Project Construction						
Sewer Offsite Force	6" DIP Class 125 Schedule 80	$49.50	5280	$261,360	$261,360	$0
	Backflow Valve connection to 18"	$7,500	2	$15,000	$15,000	$0
Sewer Offsite Gravity	8" VCP	$37.50	1320	$49,500	$49,500	$0
	48" Manhole	$4,1000	5	$20,500	$20,500	$0
	12" Cleanout	$650	1	$650	$650	$0
	Adjust Cleanout to Grade	$200	1	$200	$200	$0
	Adjust manhole to Grade	$250	5	$1,250	$1,250	$0
Lift Station	Furnish and Install Airvalve/ Vacuum	$7,250	1	$7,250	$7,250	$0
	Furnish and	$145,675	1	$145,675	$145,675	$0

Activity or Deliverable	Material	Unit Costs ($)	Number of Units	Total ($)	Grant Request	Funding Match
	install wet well and pump assembly					
	Furnish and install station piping	$14,750	1	$14,750	$14,750	$0
	Furnish and install control Panel	$125,500	1	$125,500	$125,500	$0
	Building and Site Fencing	$17,775	1	$17,775	$17,775	$0
Subtotal 9.2				**$659,410**	**$659,410**	**$0**
Subtask 9.3 Performance Testing and Demobilization						
Performance Testing and Connection Fees	Mobile home units	$4,231	136	$575,416	$0	$575,416
Subtotal 9.3				**$575,416**	**$0**	**$575,416**
Task 9 Total				**$1,334,326**	**$740,000**	**$594,326**
Row (d) Total				**$1,334,326**	**$740,000**	**$594,326**

Row (e) Environmental Compliance/ Mitigation/ Enhancement

Task 10: Environmental Compliance/ Mitigation/ Enhancement

Not applicable.

Row (f) Construction Administration

The Construction Administration costs for the project are shown in Table 4-33.

Task 11: Construction Administration

Construction management costs for this project were estimated based on the preliminary construction cost estimate prepared by Coachella Valley Engineers, which is included as Appendix 4-1 to this attachment. The Construction Administration costs for the project will be borne by a USDA Rural Development grant and are expected to total $68,416.

Table 4-33: Row (f) Construction Administration
San Antonio del Desierto DAC Sewer Extension Project

Labor Category	Hourly Wage ($)	Number of hours	Total ($)	Grant Request	Funding Match
Task 11: Construction Administration					
Construction Management	$68,416	Lump Sum	$68,416	$0	$68,416
Task 11 Total			**$68,416**	**$0**	**$68,416**
Row (f) Total			**$68,416**	**$0**	**$68,416**

Row (g) Other Costs

No other costs will be required for implementation of this project.

Row (h) Construction/ Implementation Contingency

The Construction/ Implementation Contingency costs for the *San Antonio del Desierto DAC Sewer Extension Project* are estimated to be $224,144. This was estimated to be 15% of the total project budget (rows (a) – (g)), based on PUCDC experience implementing infrastructure projects in DACs.

Table 4-34: Row (h) Construction / Implementation Contingency Costs
San Antonio del Desierto DAC Sewer Extension Project

Labor Category	Contingency Percentage	Total ($)	Grant Request	Funding Match
Construction / Implementation Contingency	15%	$224,144	$0	$224,144
Row (h) Total		**$224,144**	**$0**	**$224,144**

Row (i) Grand Total

The Grand Total for the *San Antonio del Desierto DAC Sewer Extension Project* ($1,718,436) was calculated as the sum of rows (a) through (h).

Table 4-35: Row (I) Grand Total Costs
San Antonio del Desierto DAC Sewer Extension Project

Row	Category	Total
(a)	Direct Project Administration	$7,200
(b)	Land Purchase/Easement	$0
(c)	Planning/Design/Engineering/ Environmental Documentation	$84,350
(d)	Construction/Implementation	$1,334,326
(e)	Environmental Compliance/ Mitigation/Enhancement	$0
(f)	Construction Administration	$68,416
(g)	Other Costs	$0
(h)	Construction/Implementation Contingency	$224,144
(i)	**Grand Total**	**$1,718,436**

Project 5: Torres-Martinez Avenue 64 Water Supply Connection Project

The *Torres-Martinez Avenue 64 Water Supply Connection Project* involves design and engineering for a future connection between the existing Torres-Martinez Avenue 64 tribal water system and the CVWD regional water system. This will allow for future construction that would eliminate use of the tribe's well system and allow for the abandonment of this aging infrastructure, thereby protecting human health and the groundwater basin. Funding for this project involves project administration and planning/ design/ engineering/ environmental documentation only.

The total cost associated with the *Torres-Martinez Avenue 64 Water Supply Connection Project* is $238,269. Of these total costs, $155,000 is being requested for grant funding through the IRWM Grant Program. The remaining $83,269 will be provided by the Torres-Martinez Desert Cahuilla Indians (DCI) and project partners, Indian Health Services (IHS) and U.S. Environmental Protection Agency (USEPA). In total, the non-State share of the total project cost (funding match) is 35%for this project. This funding match will be provided through a USEPA planning grant and IHS in-kind design/engineering services.

Table 4-36 below provides a more detailed break-down of the total project budget.

Table 4-36: Total Project Budget
Torres-Martinez Avenue 64 Water Supply Connection Project

Proposal Title: Coachella Valley IRWM Implementation Grant Proposal – Round 2
Project Title: Torres-Martinez Avenue 64 Water Supply Connection Project
Project serves a need of a DAC?: ☒ **Yes** ☐ **No**
Funding Match Waiver request?: ☐ **Yes** ☒ **No**

	Category	(a) Requested Grant Amount	(b) Cost Share: Non-State Fund Source* (Funding Match)	(c) Cost Share: Other State Fund Sources*	(d) Total
(a)	Direct Project Administration	$19,200	$15,219	$0	$34,419
(b)	Land Purchase/ Easement	$0	$0	$0	$0
(c)	Planning / Design/ Engineering/ Environmental Documentation	$135,800	$68,050	$0	$203,850
(d)	Construction/ Implementation	$0	$0	$0	$0
(e)	Environmental Compliance/ Mitigation/ Enhancement	$0	$0	$0	$0
(f)	Construction Administration	$0	$0	$0	$0
(g)	Other Costs	$0	$0	$0	$0
(h)	Construction/ Implementation Contingency	$0	$0	$0	$0
(i)	**Grand Total**	**$155,000**	**$83,269**	**$0**	**$238,269**

** Sources of funding: The non-state funding match will be provided through a USEPA planning grant and IHS in-kind design/engineering services.*

This Implementation Grant Proposal is requesting funding for five project tasks identified within the *Torres-Martinez Avenue 64 Water Supply Connection Project* work plan (refer to Attachment 3).

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

Row (a) Direct Project Administration Costs

This project is for the design and engineering of a future water supply connection for the Torres-Martinez DCI Avenue 64 subdivision. Project administration will be partially funded via a USEPA planning grant.

Task 1: Project Administration

Project administration includes the cost for all project management activities, including coordination of construction plans and exhibits, tracking budgets, preparing invoices and quarterly reports, and providing all contract reporting materials to the overall grant manager. These costs are estimated to be $34,419, as shown in Table 4-37 below.

Task 2: Labor Compliance Program

Not applicable.

Task 3: Reporting

Not applicable.

Table 4-37: Row (a) Direct Project Administration
Torres-Martinez Avenue 64 Water Supply Connection Project

Activity	Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Task 1: Project Administration						
Tribal Administration for Contracting Engineering Services	Various	$60.00	320	$19,200	$19,200	$0
Tribal Administration for Planning Tasks (EPA Planning Funds)	Various	$60.00	42	$2,537	$0	$2,537
IHS Project Technical Support for Planning Tasks (EPA Planning Funds)	Various	$60.00	211	$12,683	$0	$12,683
Task 1 Total				**$34,419**	**$19,200**	**$15,219**
Row (a) Total				**$34,419**	**$19,200**	**$15,219**

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 $203,850. Table 4-38 provides a detailed listing of all applicable costs.

Task 4: Assessment and Evaluation

A *Preliminary Engineering Report*, prepared by IHS, was completed for the *Torres-Martinez Avenue 64 Water Supply Connection Project* in June 2012. Aerial mapping and geotechnical studies have also been

completed via funding through a USEPA planning grant. The total cost for assessment and evaluation activities is $23,850, all of which are being provided as funding match.

Task 5: Final Design

This task includes the cost for finalizing 100% design plans and plan/specifications review by CVWD, and represents the largest component of the proposed project. Costs for this task were based on the cost estimate developed in the *Preliminary Engineering Report* and total $77,900.

Task 6: Environmental Documentation

Environmental documentation includes preparation of biological and cultural resources technical studies, CEQA and NEPA documentation, and cultural/archeological mitigation planning due to the project's location within tribal lands. These costs will total $94,600.

Task 7: Permitting

Again due to the project's location on tribal lands, a Bureau of Indian Affairs (BIA) roadway permit will be secured. Estimated labor required to obtain this permit totals $7,500.

Table 4-38: Row (c) Planning/ Design/ Environmental Documentation
Torres-Martinez Avenue 64 Water Supply Connection Project

Activity or Deliverable	Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Task 4: Assessment and Evaluation						
Aerial Mapping (EPA Planning Funds)	Surveying	$75	45	$3,350	$0	$3,350
Preliminary Engineering Report (IHS Services)	Engineering	$100	80	$8,000	$0	$8,000
Geotechnical Studies (EPA Planning Funds)	Geotech Engineering	$100	125	$12,500	$0	$12,500
Task 4 Total				**$23,850**	**$0**	**$23,850**
Task 5 Final Design						
30% Design Plans (Contracted Eng Services)	Engineering	$200	120	$24,000	$24,000	$0
60% Design Plans (Contracted Eng Services)	Engineering	$200	78	$15,600	$15,600	$0
90% Design Plans/Specs (Contracted Eng Services)	Engineering	$200	70	$14,000	$14,000	$0
100% Design Plans/Specs (Contracted Eng Services)	Engineering	$200	64	$12,800	$12,800	$0
Plan/Spec Review (CVWD Eng/Insp Direct)	Engineering	$100	75	$7,500	$7,500	$0
Final Design Plans/Specs for Torres-Martinez DCI Construction (IHS Services)	Engineering	$100	40	$4,000	$0	$4,000
Task 5 Total				**$77,900**	**$73,900**	**$4,000**
Task 6: Environmental Documentation						
Biological Study/Reoprt (EPA Planning Funds	Biologist	$75	57	$4,250	$0	$4,250

Activity or Deliverable	Discipline	Hourly Wage ($/hr)	Number of Hours	Total	Grant Request	Funding Match
Cultural/Archeological Study/Report (EPA Planning Funds)	Archaeologist	$75	79	$5,950	$0	$5,950
NEPA Documentation (EPA Planning Funds)	Archaeologist/Biologist	$75	200	$15,000	$0	$15,000
CEQA Documentation (EPA Planning Funds	Archaeologist/Biologist	$75	200	$15,000	$0	$15,000
Cultural/Archeological Mitigation Planning (Contracted Environmental)	Archeologist	$160	340	$54,400	$54,400	$0
Task 6 Total				**$94,600**	**$54,400**	**$40,200**
Task 7: Permitting						
BIA Road Permit Application Process and Fee (CVWD Eng/Insp. Dir.)	Engineering	$100	75	$7,500	$7,500	$0
Task 7 Total				**$7,500**	**$7,500**	**$0**
Row (c) Total				**$203,850**	**$135,800**	**$68,050**

Row (d) Construction/ Implementation

The *Torres-Martinez Avenue 64 Water Supply Connection Project* is a design and engineering project that supports a tribal DAC. Once the tribe has design plans in-hand, they can apply for construction funding (estimated $1.5 million) from USDA or USEPA. The proposed project in this funding application will not involve any construction.

Task 8: Construction Contracting

Not applicable.

Task 9: Construction

Not applicable.

Row (e) Environmental Compliance/ Mitigation/ Enhancement

Task 10: Environmental Compliance/ Mitigation/ Enhancement

Not applicable.

Row (f) Construction Administration

Task 11: Construction Administration

Not applicable.

Row (g) Other Costs

No other costs will be required for implementation of this project.

Row (h) Construction/Implementation Contingency

Not applicable.

Row (i) Grand Total

The Grand Total for the *Torres-Martinez Avenue 64 Water Supply Connection Project* ($238,269) was calculated as the sum of rows (a) through (h).

Table 4-39:Row (i) Grand Total Costs
Torres-Martinez Avenue 64 Water Supply Connection Project

Row	Category	Total
(a)	Direct Project Administration	$34,419
(b)	Land Purchase/ Easement	$0
(c)	Planning / Design/ Engineering/ Environmental Documentation	$203,850
(d)	Construction/ Implementation	$0
(e)	Environmental Compliance/ Mitigation/ Enhancement	$0
(f)	Construction Administration	$0
(g)	Other Costs	$0
(h)	Construction/ Implementation Contingency	$0
(i)	**Grand Total**	**$238,269**

Confidential

COACHELLA VALLEY ENGINEERS
PRELIMINARY CONSTRUCTION COST ESTIMATE

24-Jul-12

SAN ANTONIO DEL DESIERTO

HOUSING SANITARY SEWER, LIFT STATION AND FORCE MAIN
MECCA, RIVERSIDE COUNTY, CA

SEWER BOND ESTIMATE

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL COST
1 SEWER OFFSITE FORCE				
MOBILIZATION		LS		$ 10,000.00
6" DIP CLASS 125 SCHEDULE 80	5,280	LF	$ 49.50	$261,360.00
BACKFLOW VALVE CONNECTION TO 18"	2	LS	$ 7,500.00	$15,000
				$ 286,360.00
2 SEWER OFFSITE GRAVITY				
Mobilization	0	LS	$ 5,000.00	$ 5,000.00
8" VCP	1,320	LF	$ 37.50	$ 49,500.00
48" Manhole	5	EA	$ 4,100.00	$ 20,500.00
12" Cleanout	1	EA	$ 650.00	$ 650.00
				$ -
Adjust Cleanout to Grade	1	EA	$ 200.00	$ 200.00
Adjust Manhole to Grade	5	EA	$ 250.00	$ 1,250.00
Subtotal Sewer				**$ 77,100.00**
3 LIFT STATION				
MOBILIZATION	0	LS	$5,000	$ 5,000.00
building site grading,, utility service, includes clearing, grubbing, dewatering, bedding,testing	1	LS	$ 4,750.00	$ 4,750.00
FURNISH AND INSTALL AIRVALVE/VACUUM	1	LS	$ 7,250.00	$ 7,250.00
FURNISH AND INSTALL WET WELL AND PUMP ASSBLY		LS		$ 145,675.00
FURNISH AND INSTALL STATION PIPING		LS		$ 14,750.00
FURNISH AND INSTALL CONTROL PANEL		LS		$ 125,500.00
BUILDING AND SITE FENCING		LS		$ 17,775.00
Subtotal Lift Station				**$ 320,700.00**
Permits/Fees				**$ 50,000.00**
Connection Fees	136		$ 4,231.00	**$ 575,416.00**
Engineering and construction staking				**$ 74,750.00**
Construction Management				**$ 68,416.00**
CONTINGENCY				**$ 217,911.30**
TOTAL				**$ 1,670,653.30**