

Attachment
5

Coachella Valley Integrated Regional Water Management
2019 IRWM Implementation Grant Proposal
Budget

Attachment 5 consists of the following items:

- ✓ **Budget.** This attachment includes a summary of the budget for the entire Proposal as well as a summary of the budgets for each individual project included within the Proposal.

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Proposal Budget Summary

Table 5-1 includes the Proposal Budget Summary consistent with Proposal Summary Form. A disadvantaged community (DAC) waiver is being requested for three projects in the Proposal:

- *Castro Mobile Home Park Water Consolidation* – Per Attachment 6, this project area is 100% DAC and the project is requesting a 100% cost share waiver. Per the 2019 Final PSP, *Castro MHP* is eligible for a 100% cost share waiver; no funding match is provided, though “other” costs are included.
- *CV Water Counts Regional Conservation Program* – Per Attachment 6, the combined service areas of the CVRWMG agencies are **58% DAC**, which makes *CV Water Counts* eligible for up to 75% cost share waiver per the 2019 Final PSP. The grant request for this project is \$1,380,400, which means a 75% cost share waiver would be \$1,035,300. This project is proposing a cost share of \$1,065,000 which is higher than the 75% threshold. The cost share waiver applies to the Coachella Water Authority (CWA) service area only, which is 98% DAC.
- *East Coachella Valley Septic to Sewer – Monroe Street* – Per Attachment 6, this project area is 100% DAC and the project is requesting a partial cost share waiver. Per the 2019 Final PSP, *Monroe Street* is eligible for a 100% cost share waiver; however, a funding match of \$979,325 is provided, which is 49% of the total project cost.

As shown in **Table 5-1**, despite the DAC funding waiver request, the local funding match totals \$10,347,815 and is sufficient to provide an overall 51% match for the Proposal as a whole. Total proposal grant request is \$7,863,205.

Table 5-1: Proposal Budget Summary

Proposal Title: <i>Coachella Valley 2019 Prop 1 Round 1 IRWM Implementation Grant Proposal</i>					
Project Title		(a)	(b)	(c)	(d)
		Cost Share: Non-State Fund Source*	Requested Grant Amount	Other Cost Share (Including Other State Fund Sources)	Total
1	Castro Mobile Home Park Water Consolidation*	\$0	\$1,099,245	\$41,844	\$1,141,089
2	CV Water Counts Regional Conservation Program*	\$1,065,000	\$1,380,400	\$42,000	\$2,487,400
3	East Coachella Valley Water Supply Project – Avenue 66 Phase 2B	\$3,834,240	\$1,268,750	\$1,800,000	\$6,902,990
4	Groundwater Quality Protection Project Sub Area M2-1	\$1,980,450	\$1,979,250	\$0	\$3,959,700
5	East Coachella Valley Septic to Sewer – Monroe Street*	\$979,325	\$964,250	\$50,000	\$1,993,575
6	Non-Potable Water System – Hovley Lane East	\$2,488,800	\$1,171,310	\$46,650	\$3,706,760
Proposal Total		\$10,347,815	\$7,863,205	\$1,980,494	\$20,191,514
% of Total		51%	39%	10%	
* Indicates projects that are requesting a cost share waiver.					

Project Budgets

Project budgets for the projects included in this Proposal are provided in the following sections. The table on page 45 in the 2019 Final PSP has been completed for each project, and a two-page description that describes how the values were derived is provided for each project.



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Project 1: Castro Mobile Home Park Water Consolidation

Project Budget Table

The *Castro Mobile Home Park (MHP) Water Consolidation* will involve tasks designed to consolidate MHP within a DAC in the Coachella Valley into CWA's potable water system. The project will install an 8-inch water main within the MHP along with the service connections and meter boxes to each mobile home unit. The total cost associated with the *Castro MHP Water Consolidation* project is \$1,141,089. Of these total costs, \$1,099,245 is being requested in grant funding (96%) through the IRWM Grant Program and no funding match is proposed. The remaining "other" cost share (4%) will primarily consist of CWA staff labor. A funding match waiver is being requested by CWA for this project due to the MHP's DAC status. **Table 5-2** below provides a more detailed breakdown of the total project budget.

Table 5-2: Project Budget: Castro MHP Water Consolidation

Proposal Title: <i>Coachella Valley 2019 Prop 1 Round 1 IRWM Implementation Grant Proposal</i>					
Project Title: <i>Castro MHP Water Consolidation</i>					
Project serves a need of a DAC?:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Funding Match Waiver request?:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Category		(a)	(b)	(c)	(d)
		Cost Share: Non-State Fund Source*	Requested Grant Amount	Other Cost Share	Total
(a)	Project Administration	\$0	\$28,097	\$6,868	\$34,965
	Task 1: Administration	\$0	\$25,605	\$0	\$25,605
	1(a): Project Administration	\$0	\$9,360	\$0	\$9,360
	1(b): Regional Administration	\$0	\$16,245	\$0	\$16,245
	Task 2: Reporting	\$0	\$2,492	\$6,868	\$9,360
(b)	Land Purchase/ Easement	\$0	\$0	\$4,000	\$4,000
	Task 3: Land Purchase	\$0	\$0	\$4,000	\$4,000
(c)	Planning/ Design/ Engineering/ Environmental Documentation	\$0	\$14,680	\$16,936	\$31,616
	Task 4: Feasibility Studies	\$0	\$0	\$0	\$0
	Task 5: CEQA Documentation	\$0	\$0	\$936	\$936
	Task 6: Permitting	\$0	\$10,000	\$0	\$10,000
	Task 7: Design	\$0	\$0	\$16,000	\$16,000
	Task 8: Project Performance Monitoring Plan	\$0	\$4,680	\$0	\$4,680
(d)	Construction/ Implementation	\$0	\$1,056,468	\$14,040	\$1,070,508
	Task 9: Contract Services	\$0	\$5,000	\$4,680	\$9,680
	Task 10: Construction Administration	\$0	\$11,800	\$9,360	\$21,160
	Task 11: Construction/ Implementation Activities	\$0	\$1,039,668	\$0	\$1,039,668
	11(a): Pipeline Construction	\$0	\$725,268	\$0	\$725,268
	11(b): Contingency	\$0	\$136,732	\$0	\$136,732
	11(c): Impact Fees	\$0	\$177,668	\$0	\$177,668
(e)	Grand Total	\$0	\$1,099,245	\$41,844	\$1,141,089

* Sources of funding: A 100% cost share waiver is being requested due to the Castro MHP's DAC status.



Project Budget Description

This proposal is requesting funding for six project tasks identified within the *Castro MHP Water Consolidation* work plan (refer to Attachment 4). 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) Project Administration

Total administration costs for the project are \$34,965 (3% of total project costs).

Task 1: Administration

1(a): Project Administration: Costs for project administration will be borne by CWA's planning manager, who will receive and reconcile the invoices for grant reimbursable funds and compile them into an overall grant invoice for DWR. CWA's planning manager will spend 80 hours at \$117/hour (\$9,360) for the project administration required for the grant contract. This assumes that CWA's planning manager will spend approximately 20 hours per quarter for the one-year duration of this project developing the invoice packages.

1(b): Regional Administration: The cost estimate for regional grant administration was assumed to be 1.5% of the grant request for each individual project (rather than being a stand-alone administration project), which totals \$16,245 for this project. This equates to 162 hours of CVWD planning manager at \$100/hour for the duration of grant agreement. This effort including compiling and reviewing the regional grant submittals and coordinating with DWR.

Task 2: Reporting: CWA's planning manager will spend 80 hours at \$117/hour (\$9,360) for developing all reporting required for the grant contract. This assumes that CWA's planning manager will spend approximately 20 hours per quarter for the one-year duration of this project developing the quarterly reports.

Row (b) Land Purchase/Easement

Task 3: Land Purchase/Easement: CWA's design consultant, MSA, will prepare legals and plats for processing of the necessary easement on the Castro MHP property; this effort is estimated at \$4,000 in consulting fees.

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

The total Planning/Design/Engineering/Environmental Documentation costs for the project are \$31,616.

Task 4: Feasibility Studies – Not Applicable: Project Feasibility was assessed as part of the project development process, see Completed Work section in the Work Plan. There are no costs associated with this task in the grant application.

Task 5: CEQA Documentation: A CEQA Notice of Exemption (NOE) for Categorical Exemption Class 15303: New Construction or Conversion of Small Structures is underway and will be completed prior to grant award. CWA costs for processing the NOE will include 8 hours of CWA's planning manager at \$117/hour (\$936).

Task 6: Permitting: This task consists of CWA applying for coverage under the NPDES General Construction Permit, a General Permit for Construction Discharges, and a Drinking Water Supply Deactivation Notification. CWA will waive the cost of the right-of-way Encroachment Permits for construction within Tyler Avenue. CWA will obtain for these four permits prior to grant agreement execution. Costs required to obtain permits have been estimated by MSA Consulting as \$10,000 in consulting fees.

Task 7: Design: CWA has already completed 90% plans and specifications and undergone one round of plan check with the City of Coachella. CWA's consultant, MSA Consulting, will complete the 100% plans and specifications prior to grant award; this effort is estimated at \$16,000 in consulting fees.

Task 8: Project Performance Monitoring Plan: CWA's planning manager will prepare the project performance and monitoring program intended to document performance of the project after the grant contract is completed. CWA's planning manager will spend 40 hours at \$117/hour (\$4,680) for developing the monitoring program.

Row (d) Construction/Implementation

The Construction/ Implementation costs for the program are estimated to be \$1,070,508.

Task 9: Contract Services: CWA's consultant provided a cost estimate of \$5,000 for bidding construction support. CWA will complete the additional activities necessary to secure a contractor and award the contract, including sending the Notice Inviting



Bids to local publications for legal advertising, conducting the bid opening, answering questions, reviewing bids, and supporting CWA in preparing a recommendation of award. CWA's planning manager will spend approximately 40 hours at \$117/hour (\$4,680) to manage the contract services for this project. Combined, total consultant and CWA costs are \$9,680.

Task 10: Construction Administration: CWA's consultant provided a cost estimate of \$11,800 for construction administration. CWA will complete the activities necessary to secure a contractor and award the contract, including attending the pre-construction conference, participating in biweekly construction progress meetings, reviewing submittals, preparing responses to Requests for Information (RFIs), performing periodic site visits and preparing record drawings upon completion. CWA's planning manager will spend approximately 80 hours at \$117/hour (\$9,360) to complete the construction administration throughout this project. Combined, total consultant and CWA costs are \$21,160.

Task 11: Construction/Implementation Activities

11(a): Pipeline Construction: Construction for the *Castro MHP Water Consolidation* will occur through public works contracts. Construction cost, which were prepared by MSA Consulting as part of the design phase, total \$725,268 and are detailed in **Table 5-3**. Construction costs include the installation of approximately 840 lf of 8-inch PVC C900 water main within the MHP property and all appurtenances, in addition to 1-inch service laterals to approximately 44 units. This task also includes traffic control, BMP management, pavement removal, trenching, shoring, bedding, pipe installation, backfilling, rock removal, compaction, connection to the existing CWA water distribution system via two cut-in tees on Tyler Avenue, pavement restoration, striping and clean up. The contractor shall return construction and staging areas to as reasonable as possible to original or improved conditions as well as a result of construction activities include newly paved streets.

11(b): Contingency: CWA's consultant estimated that the contingency for this project was 18% of construction costs, at \$136,732.

11(c): Impact Fees: The impact fees for the construction were estimated by CWA's consultant to be \$177,668, at approximately \$4,038 per connection for the 44 connections.

Table 5-3: Task 11(a) Construction Activities for *Castro MHP Water Consolidation*

Materials Used	Unit Costs (\$)	No. of Units	Units	Total (\$)
Task 11(a): Pipeline Construction				\$725,268
8-inch DI Class 350 Water Main	\$52	832	LF	\$43,264
8-inch DI Tee with Restrained Joints	\$1,500	2	EA	\$3,000
8-inch x 45 or 90 DI Bend with RJ	\$600	5	EA	\$3,000
6-inch Fire Hydrant Assembly	\$6,400	1	EA	\$6,400
1-inch Water Service for 3/4" Meter	\$1,200	44	EA	\$52,800
Isolate System, Remove 90 Bend, Tee Valves, Couplings	\$12,500	2	EA	\$25,000
2-inch Standard Water Service	\$2,400	2	EA	\$4,800
4-inch Guard Post	\$600	4	EA	\$2,400
Remove Existing Pavement	\$33	850	LF	\$28,050
8-inch DI Gatevalve	\$2,200	6	EA	\$13,200
8-inch Test Plate & 2-inch Temp Blow Off	\$4,000	2	EA	\$8,000
1-inch Schedule 80 PVC Pipe with Fittings	\$25	44	EA	\$1,100
Water Pad	\$4,500	44	EA	\$198,000
Remove Existing Concrete	\$1,200	44	EA	\$52,800
Connect to Existing 2-inch Pipe	\$3,500	2	EA	\$7,000
2-inch Schedule 80 PVC Pipe with Fitting	\$3,000	2	EA	\$6,000
Connection to Existing Mobile Home	\$2,500	44	EA	\$110,000
Plug Ends and Abandon Existing Service Line	\$2,500	2	EA	\$5,000
Locate Existing Corp Stop	\$5,200	2	EA	\$10,400
25% Prevailing Wage Mark-up				\$145,054
Task 11(a) Total				\$725,268



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Project 2: CV Water Counts Regional Conservation Program

Project Budget Table

The CV Water Counts Regional Conservation Program will involve tasks designed to implement water conservation efforts in the Coachella Valley. This project will involve implementing a turf removal program, constructing two demonstration gardens, and implementing conservation outreach and program activities. The total cost associated with the CV Water Counts Regional Conservation Program project is \$2,487,400. Of these total costs, \$1,380,400 is being requested for grant funding (55%) and \$1,065,00 will be provided in funding match (43%). This project is requesting a DAC waiver for the portion of the project that will benefit CWA (\$335,000). CWA is 98% DAC by area (see **Attachment 7**). The cost share (\$1,065,000) will be provided by rebate customers and the conservation budgets of the partner agencies. The "other" cost share of 2% (\$42,000) will be provided via in-kind staff time by the partner agencies.

Table 5-4: Project Budget: CV Water Counts Regional Conservation Program

Proposal Title: Coachella Valley 2019 Prop 1 Round 1 IRWM Implementation Grant Proposal					
Project Title: CV Water Counts Regional Conservation Program					
Project serves a need of a DAC?:		<input checked="" type="checkbox"/> Yes ¹	<input type="checkbox"/> No		
Funding Match Waiver request?:		<input checked="" type="checkbox"/> Yes ¹	<input type="checkbox"/> No		
		(a)	(b)	(c)	(d)
Category		Cost Share: Non-State Fund Source*	Requested Grant Amount	Other Cost Share	Total
(a)	Project Administration	\$0	\$20,400	\$16,000	\$36,400
	Task 1: Administration	\$0	\$20,400	\$8,000	\$28,400
	1(a): Project Administration	\$0	\$0	\$8,000	\$8,000
	1(b): Regional Grant Administration	\$0	\$20,400	\$0	\$20,400
	Task 2: Reporting	\$0	\$0	\$8,000	\$8,000
(b)	Land Purchase/ Easement	\$0	\$0	\$0	\$0
	Task 3: Land Purchase	NA	NA	NA	NA
(c)	Planning/ Design/ Engineering/ Environmental Documentation	\$40,000	\$0	\$14,000	\$54,000
	Task 4: Feasibility Studies - NA	NA	NA	NA	NA
	Task 5: CEQA Documentation	\$0	\$0	\$2,000	\$2,000
	Task 6: Permitting	\$0	\$0	\$8,000	\$8,000
	Task 7: Demonstration Gardens Design	\$40,000	\$0	\$0	\$40,000
	Task 8: Project Performance & Monitoring	\$0	\$0	\$4,000	\$4,000
(d)	Construction/ Implementation	\$1,025,000	\$1,360,000	\$12,000	\$2,397,000
	Task 9: Contract Services	\$0	\$0	\$6,000	\$6,000
	Task 10: Construction Administration	\$0	\$0	\$6,000	\$6,000
	Task 11: Construction/Implementation	\$1,025,000	\$1,360,000	\$0	\$2,385,000
	11(a): Turf Removal Program	\$808,200	\$1,008,200	\$0	\$1,816,400
	11(b): Conservation Incentives Program	\$15,000	\$150,000	\$0	\$165,000
	11(c): Demonstration Gardens Construction	\$201,800	\$201,800	\$0	\$403,600
(e)	Grand Total	\$1,065,000	\$1,380,400	\$42,000	\$2,487,400
* Sources of funding: The non-state funding match for the turf program will be provided by customer spending on landscape materials; the funding match for the conservation incentives program for MSWD will be provided by the assessment district funds; the funding match for the two demonstration gardens will come from DWA's drought mitigation fund and CVWD's upper tier rate revenue fund.					
¹ Only CWA is requesting a cost share waiver due to DAC status.					



Project Budget Description

This proposal is requesting funding for three project tasks identified within the *CV Water Counts Regional Conservation Program* work plan (refer to Attachment 4). 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) Project Administration

Total administration costs for the project are \$36,400 (1% of total project costs).

Task 1: Administration

1(a): Project Administration: Costs associated with project administration will be borne by CVWD's planning manager, who will receive and reconcile the invoices for both grant reimbursable and funding match for submittal to the regional grant administrator. CVWD's planning manager will spend 80 hours at \$100/hour (\$8,000) for the project administration required for the grant contract. This assumes that CVWD's planning manager will spend approximately 4 hours per quarter for the five-year duration of this project developing the invoice packages.

1(b): Regional Administration: The cost estimate for regional grant administration was assumed to be 1.5% of the grant request for each individual project (rather than being a stand along administration project), which totals \$20,400 for this project. This equates to 204 hours of CVWD's planning manager at \$100/hour for the duration of the five-year grant agreement. This effort including compiling and reviewing the regional grant submittals and coordinating with DWR.

Task 2: Reporting: CVWD's planning manager will spend 80 hours at \$100/hour (\$8,000) for developing all reporting required for the grant contract. This assumes that CVWD's planning manager will spend approximately 4 hours per quarter for the five-year duration of this project developing the quarterly reports.

Row (b) Land Purchase/Easement

Task 3: Land Purchase – Not applicable: No land purchases or easements are required for *CV Water Counts*.

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

Task 4: Feasibility Studies – Not applicable: Feasibility Studies are not required for *CV Water Counts*. There are no costs associated with this task in the grant application.

Task 5: CEQA Documentation: Two CEQA Notices of Exemption (NOEs) will be filed with the State Clearinghouse for construction of the two demonstration gardens. Preparation of a Notice of Exemption (a 1-2 page form) requires approximately 10 hours by an environmental scientist at \$200 per hour, totaling \$2,000 for four notices. This budget is based on a consultant cost estimate provided to CVWD (Woodard & Curran, 2019).

Task 6: Permitting: One building permit for the CVWD demonstration garden is needed. Completion of the permit application forms will require approximately 40 hours for the building permit from City of Palm Desert. This budget (totaling \$8,000) is based on a consultant cost estimate provided to CVWD (Woodard & Curran, 2019).

Task 7: Demonstration Garden Design: CVWD and Desert Water Agency (DWA) will each hire a consultant to prepare the design of the demonstration garden. The costs associated with this task (\$20,000 for each garden) are from a consultant cost estimate provided to CVWD (2017).

Task 8: Project Performance Monitoring Program: CVWD's planning manager will prepare the project performance and monitoring program intended to document performance of the project after the grant contract is completed. CVWD's planning manager will spend 40 hours at \$100/hour (\$4,000) for developing the monitoring program.

Row (d) Construction/Implementation

Task 9: Contract Services: CVWD will hire a consultant to complete the activities necessary to secure a contractor and award the contract. The cost of this service is estimated based on paying the consultant \$150 per hour for 40 hours (\$6,000). DWA's partner, the City of Palm Springs, will conduct contract services for that garden.



Task 10: Construction Administration: CVWD will attend the pre-construction conference, participate in biweekly construction progress meetings, review submittals, prepare responses to RFIs from the contract, perform periodic site visits and prepare record drawings upon completion of construction. The cost of this service is estimated based on paying the consultant \$150 per hour for 40 hours (\$6,000). DWA's partner, the City of Palm Springs, will conduct contract services for that garden.

Task 11: Construction/Implementation Activities: Construction and implementation for this project will occur through a combination of contractors and public works contracts. Total implementation costs are \$2,385,000, as detailed in **Table 5-5**. Subtask 11(a): Turf Removal Program totals \$1,816,400, Subtask 11(b): Conservation Incentives Program totals \$165,000, and Subtask 11(c): Demonstration Gardens Construction totals \$403,000. These construction costs were developed by a combination of consultant cost estimates and the region's engineering staff. A total of \$1,360,000 is being requested in grant funds, and \$1,025,000 is being provided in funding match.

11(a): Turf Removal Program: The Turf Removal Program under *CV Water Counts* involves granting of turf rebates at \$2.00 per square foot for replacing existing turf with low-water desert landscaping. Program funding for the five water purveyors was allocated based on demands identified by each agency's conservation coordinator. The funding match for the Turf Removal Program will be comprised of invoices from landscape contractors for the work completed. In many cases, the funding match spent by customers (e.g. large HOAs) far exceeds the rebate granted.

11(b): Conservation Incentives Program: Conservation incentives in CWA and MSWD, which are both largely DAC and Severely DAC (SDAC), is dependent on grant funding. CWA and MSWD conservation coordinators developed the proposed work plan and budget based on the incentives (toilet rebates) and materials with the greatest success in increasing water use efficiency among its residential and commercial properties.

11(c): Demonstration Gardens Construction: Construction costs for the two demonstration gardens were developed by consultants during the pre-design and design phases. The CVWD garden cost (\$283,600) was developed by Hermann Design, 2017. The DWA garden costs (\$120,000) is estimated based on the cost of the CVWD garden and a comparison of the size of the two gardens. Construction cost estimates can be provided upon request.

Table 5-5: Task 11 Construction/Implementation Activities: CV Water Counts Regional Conservation Program

Activity	Cost Share	Requested Funds	Total
11(a): Turf Removal Program	\$808,200	\$1,008,200	\$1,816,400
CVWD (\$2/sq ft)	\$208,200	\$208,200	\$416,400
CWA (\$2/sq ft)	\$0	\$200,000	\$200,000
DWA (\$2/sq ft)	\$290,000	\$290,000	\$580,000
Indio Water Authority (IWA) (\$2/sq ft)	\$250,000	\$250,000	\$500,000
Mission Springs Water District (MSWD) (\$2/sq ft)	\$60,000	\$60,000	\$120,000
11(b): Conservation Program Update	\$15,000	\$150,000	\$165,000
11(c): Demonstration Gardens Construction	\$201,800	\$201,800	\$403,600
CVWD Garden on CV Link	\$141,800	\$141,800	\$283,600
DWA Garden at Palm Springs Airport	\$60,000	\$60,000	\$120,000
Task 11 Total	\$1,025,000	\$1,360,000	\$2,385,000



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Project 3: East Coachella Valley Water Supply Project – Avenue 66 Phase 2B

Project Budget Table

The *East Coachella Valley Water Supply Project (ECVWSP) – Avenue 66 Phase 2B* will involve tasks designed to consolidate the Manuela Garcia MHP small water system to CVWD's potable water system. This project is to install approximately 7,250 linear feet of 30-inch potable water pipeline. The total cost associated with the *ECVWSP – Avenue 66 Phase 2B* project is \$6,902,990. Of these total costs, \$1,268,750 is being requested for grant funding (18%) through the IRWM Grant Program. The \$3,834,240 cost share (56%) will be paid for by CVWD's Capital Improvement Project (CIP) budget. The remaining "other" cost share of \$1,800,000 (26%) will be paid for by a Drinking Water State Revolving Fund (SRF) loan. **Table 5-6** below provides a more detailed break-down of the total project budget.

Table 5-6: Project Budget: ECVWSP – Avenue 66 Phase 2B

Proposal Title: Coachella Valley 2019 Prop 1 Round 1 IRWM Implementation Grant Proposal Project Title: East Coachella Valley Water Supply Project – Avenue 66 Phase 2B Project serves a need of a DAC?: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Funding Match Waiver request?: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Category		(a)	(b)	(c)	(d)
		Cost Share: Non-State Fund Source*	Requested Grant Amount	Other Cost Share	Total
(a)	Project Administration	\$16,000	\$18,750	\$0	\$34,750
	Task 1: Administration	\$8,000	\$18,750	\$0	\$26,750
	1(a): Project Administration	\$8,000	\$0	\$0	\$8,000
	1(b): Regional Administration	\$0	\$18,750	\$0	\$18,750
	Task 2: Reporting	\$8,000	\$0	\$0	\$8,000
(b)	Land Purchase/ Easement	\$42,200	\$0	\$0	\$42,200
	Task 3: Land Purchase	\$42,200	\$0	\$0	\$42,200
(c)	Planning/ Design/ Engineering/ Environmental Documentation	\$444,000	\$0	\$0	\$444,000
	Task 4: Feasibility Studies – NA	NA	NA	NA	NA
	Task 5: CEQA Documentation - NA	NA	NA	NA	NA
	Task 6: Permitting	\$35,000	\$0	\$0	\$35,000
	Task 7: Design	\$405,000	\$0	\$0	\$405,000
	Task 8: Project Performance Monitoring Plan	\$4,000	\$0	\$0	\$4,000
(d)	Construction/ Implementation	\$3,332,040	\$1,250,000	\$1,800,000	\$6,382,040
	Task 9: Contract Services	\$60,320	\$0	\$0	\$60,320
	Task 10: Construction Administration	\$897,720	\$0	\$0	\$897,720
	Task 11: Construction/Implementation Activities**	\$2,374,000	\$1,250,000	\$1,800,000	\$5,424,000
	11(a): Mobilization and Demobilization	\$310,000	\$0	\$0	\$310,000
	11(b): Pipeline Construction	\$2,064,000	\$1,250,000	\$1,800,000	\$5,114,000
(e)	Grand Total	\$3,834,240	\$1,268,750	\$1,800,000	\$6,902,990
* Sources of funding: The non-state funding match will be provided by CVWD's CIP. Other cost share will be paid for by a SWRCB Drinking Water SRF loan. Application is currently underway by CVWD. **See Table 5-7					



Project Budget Description

This proposal is requesting funding for three project tasks identified within the *ECVWSP – Avenue 66 Phase 2B* work plan (refer to Attachment 4). 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) Project Administration

Total administration costs for the program are \$34,750 and will be spent by CVWD for project administration and reporting.

Task 1: Administration

1(a): Project Administration: Costs will also be borne by CVWD's planning manager, who will receive and reconcile the invoices for both grant reimbursable and funding match, and compile them into an overall grant invoice for DWR. CVWD's planning manager will spend 80 hours at \$100/hour (\$8,000) for the project administration required for the grant contract. This assumes that CVWD's planning manager will spend approximately 5 hours per quarter for the four-year duration developing the invoice packages.

1(b): Regional Administration: The cost estimate for regional administration was assumed to be 1.5% of the grant request for each individual project (rather than being a stand alone administration project), which totals \$18,750 for this project. This equates to 187.5 hours of CVWD's planning manager at \$100/hour for the duration of the five-year grant agreement. This effort including compiling and reviewing the regional grant submittals and coordinating with DWR.

Task 2: Reporting: CVWD will assume all reporting costs under the "Other Cost Share" category. CVWD's planning manager will spend 80 hours at \$100/hour (\$8,000) for developing all reporting required for the grant contract. This assumes that CVWD's planning manager will spend approximately 5 hours per quarter for the four-year duration developing the quarterly reports.

Row (b) Land Purchase/Easement

Task 3: Land Purchase/Easement: The easement cost estimate is based upon the assumption that the easement will be located within private ownership extending along the northern frontage of Avenue 66 from Polk Street to the Manuela Garcia MHP. Based upon this assumption, CVWD's consultant, Clark Land Resources, provided a \$42,200 cost estimate for easement assistance.

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

The Planning/Design/Engineering/Environmental Documentation costs for this project are estimated to be \$444,000.

Task 4: Feasibility Studies – Not applicable: Project Feasibility Studies were completed as part of the project development process, see Completed Work section in the Work Plan. There are no costs associated with this task in the grant application.

Task 5: CEQA Documentation – Not applicable: CEQA has been completed for the *ECVWSP – Avenue 66 Phase 2B*, see the Completed Work section in the Work Plan. There are no costs associated with this task in the grant application.

Task 6: Permitting: This task consists of CVWD applying for coverage from the SWRCB under the NPDES General Construction Permit, which requires preparation of a SWPPP. CVWD will also apply for right-of-way Encroachment Permits from the County of Riverside for construction within Avenue 66. The project will also need to apply for a well abandonment permit and a water system deactivation permit from County DEH and a Water Supply Permit Amendment from DDW. CVWD will obtain for these permits prior to grant agreement execution. Costs required to finalize this documentation are estimated at \$35,000, based on cost estimates for other water consolidation projects that CVWD is implementing.

Task 7: Design: CVWD will hire a consultant to complete the design for this project. The costs for this task were established in the *2019 Preliminary Engineering Report* at 10% of the total construction cost for a 30-inch pipeline. Based on the construction costs for the pipeline, engineering design is estimated at \$405,000.

Task 8: Project Performance Monitoring Program: CVWD's planning manager will prepare the project performance and monitoring program intended to document performance of the project after the grant contract is completed. CVWD's planning manager will spend 40 hours at \$100/hour (\$4,000) for developing the monitoring program.



Row (d) Construction/Implementation

The Construction/ Implementation costs for the program are estimated to be \$6,382,040.

Task 9: Contract Services: CVWD will hire a consultant to complete the activities necessary to secure a contractor and award the contract. The costs for this task (\$60,320) were determined based on a cost estimate from a similar project completed recently by CVWD for the Highway 86 water main extension in July 2018.

Task 10: Construction Administration: CVWD will hire a consultant to complete the activities necessary to secure a contractor and award the contract. The consultant will be responsible for attending the pre-construction conference, participate in biweekly construction progress meetings, review submittals, prepare responses to RFIs from the contract, perform periodic site visits and prepare record drawings upon completion of construction. The costs for this task (\$897,720) were determined based on a cost estimate from a similar project completed recently by CVWD for the Highway 86 water main extension in July 2018.

Task 11: Construction/Implementation Activities: Construction for the *ECVWSP – Avenue 66 Phase 2B* will occur through public works contracts. Total construction costs are \$5,424,000. Subtask 11(a): Mobilization and Demobilization totals \$310,000 and Subtask 11(b): Pipeline Construction totals \$5,114,000, as detailed in **Table 5-7**.

11(a): Mobilization and Demobilization: These construction costs were developed by CVWD's consultant, Woodard & Curran, during development of the *2019 Preliminary Engineering Report* (scaled down to the Phase 2B component only).

11(b): Pipeline Construction: These construction costs were developed by CVWD's consultant, Woodard & Curran, during development of the *2019 Preliminary Engineering Report* (scaled down to the Phase 2B component only). Approximately \$1,250,000 is being requested through the IRWM Grant Program and \$2,374,000 will be provided as funding match by CVWD, with the remaining \$1,800,000 via a Drinking Water SRF loan or grant. Note that the cost to upsize the pipe from 24-inch to 30-inch will be born entirely by CVWD as part of its effort to enhance system redundancy to the Mecca and North Shore communities located west and south of Manuela Garcia MHP.

Table 5-7: Task 11 Construction/Implementation Activities: *ECVWSP – Avenue 66 Phase 2B*

Materials Used	Unit Costs (\$)	Number of Units	Units	Total (\$)
Task 11(a): Mobilization and Demobilization				\$310,000
Mobilization/Demobilization	\$281,000	1	LS	\$281,000
Stormwater Compliance	\$29,000	1	LS	\$29,000
Task 11(b): Pipeline Construction				\$5,114,000
Saw Cutting	\$6	7,250	LF	\$44,000
Trench Excavation	\$10	8,727	CY	\$88,000
Offhaul of Excavation	\$15	7,384	CY	\$111,000
Pipe Zone Bedding Fill and Compaction	\$21	7,250	LF	\$153,000
Native Backfill and Compaction	\$6	1,343	CY	\$9,000
Aggregate Base	\$40	671	CY	\$27,000
Asphalt	\$98	4,028	SY	\$395,000
24-inch Restrained DIP	\$204	7,250	LF	\$1,479,000
Additional Corrosion Protection	\$ 75,000	1	ALL	\$75,000
Allowance for Pipe Fittings and Appurtenances	\$1,479,000	15% of pipe cost	ALL	\$222,000
Connection to existing pipe at Polk & Ave 66 - tapping Sleeve and 24"x30" reducer	\$52,000	1	EA	\$52,000
Traffic Control	\$2,000	48	DAY	\$97,000
Dewatering Allowance	\$1,200	48	DAY	\$58,000
Contingency (25%)	\$780,000	1	EA	\$780,000
Cost to Upsize 24" to 30" Pipe	\$1,524,000	1	EA	\$1,524,000
Task 11 Total				\$5,424,000



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Project 4: Groundwater Quality Protection Project Sub Area M2-1

Project Budget Table

This project will involve extending the MSWD municipal wastewater collection system to a residential area, designated as Sub Area M2-1. 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, and construction/implementation activities. The total cost associated with the *Groundwater Quality Protection Program – Sub Area M2-1* is \$3,960,500. Of these total costs, \$1,979,250 is being requested for grant funding (50%) through the IRWM Grant Program. The remaining \$1,981,250 will be provided by MSWD Sewer Connection Fees and Assessment District bonds. **Table 5-8** below provides a more detailed break-down of the total project budget.

Table 5-8: Project Budget: Groundwater Quality Protection Project Sub Area M2-1

Proposal Title: Coachella Valley 2019 Prop 1 Round 1 IRWM Implementation Grant Proposal					
Project Title: Groundwater Quality Protection Project Sub Area M2-1					
Project serves a need of a DAC?:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Funding Match Waiver request?:		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Category		(a)	(b)	(c)	(d)
		Cost Share: Non-State Fund Source*	Requested Grant Amount	Other Cost Share	Total
(a)	Project Administration	\$24,000	\$29,250	\$0	\$53,250
	Task 1: Administration	\$12,000	\$29,250	\$0	\$41,250
	1(a): Project Administration	\$12,000	\$0	\$0	\$12,000
	1(b): Regional Administration	\$0	\$29,250	\$0	\$29,250
	Task 2: Reporting	\$12,000	\$0	\$0	\$12,000
(b)	Land Purchase/ Easement	\$0	\$0	\$0	\$0
	Task 3: Land Purchase - NA	NA	NA	NA	NA
(c)	Planning/ Design/ Engineering/ Environmental Documentation	\$63,000	\$0	\$0	\$63,000
	Task 4: Feasibility Studies - NA	NA	NA	NA	NA
	Task 5: CEQA Documentation - NA	NA	NA	NA	NA
	Task 6: Permitting	\$8,400	\$0	\$0	\$8,400
	Task 7: Design	\$49,800	\$0	\$0	\$49,800
	Task 8: Project Performance Monitoring Plan	\$4,800	\$0	\$0	\$4,800
(d)	Construction/ Implementation**	\$1,893,450	\$1,950,000	\$0	\$3,843,450
	Task 9: Contract Services	\$10,200	\$0	\$0	\$10,200
	Task 10: Construction Administration	\$383,250	\$0	\$0	\$383,250
	Task 11: Construction/ Implementation Activities**	\$1,500,000	\$1,950,000	\$0	\$3,450,000
	11(a): Mobilization and Demobilization	\$0	\$175,000	\$0	\$175,000
	11(b) Pipeline Construction	\$1,500,000	\$1,775,000	\$0	\$3,275,000
(i)	Grand Total	\$1,980,450	\$1,979,250	\$0	\$3,959,700
* Sources of funding: The non-state funding match will include funds from MSWD Sewer Connection Fees and Assessment District No. 15 bonds.					
**See Table 5-9					



Project Budget Description

This Implementation Grant Proposal budget allocates funding for four project tasks, as well as a Construction/ Implementation Contingency, identified within the *Groundwater Quality Protection Program – Sub Area M2-1* work plan (refer to Attachment 4). 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) Project Administration

Total direct project administration costs for the project are \$53,250, or 1% of the total project budget.

Task 1: Administration

1(a): Project Administration: Costs will also be borne by MSWD's planning manager, who will receive and reconcile the invoices for both grant reimbursable and funding match and compile them into an overall grant invoice for DWR. MSWD's planning manager will spend 120 hours at \$100/hour (\$12,000) for the project administration required for the grant contract. This assumes that MSWD's planning manager will spend approximately 15 hours per quarter for the approximately two-year duration developing the invoice packages.

1(b): Regional Administration: The cost estimate for regional grant administration was assumed to be 1.5% of the grant request for each individual project (rather than being a stand along administration project), which totals \$29,250 for this project. This equates to 292 hours of CVWD's planning manager at \$100/hour for the duration of the approximately two-year grant agreement. This effort including compiling and reviewing the regional grant submittals and coordinating with DWR.

Task 2: Reporting: MSWD's planning manager will spend 120 hours at \$100/hour (\$12,000) for developing all reporting required for the grant contract. This assumes that MSWD's planning manager will spend approximately 15 hours per quarter for the approximately two-year duration of this project developing the quarterly reports.

Row (b) Land Purchase/Easement

Task 3: Land Purchase/Easement – Not applicable: The *Groundwater Quality Protection Project Sub Area M2-1* does not require land purchases or easements to complete. There are no costs associated with this task in the grant application

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

The total Planning/Design/Engineering/Environmental Documentation costs for the project are estimated to be \$63,000.

Task 4: Feasibility Studies – Not applicable: Project Feasibility Studies were completed as part of the project development process, see Completed Work section in the Work Plan. There are no costs associated with this task in the grant application

Task 5: CEQA Documentation – Not applicable: CEQA was completed for the *Groundwater Quality Protection Project Sub Area M2-1* in August 2019. The Final Environmental Impact Report (FEIR) was adopted on August 19, 2019, see Completed Work section in the Work Plan. There are no costs associated with this task in the grant application.

Task 6: Permitting: MSWD will apply for an NPDES General Construction Permit, which requires development and implementation of a SWPPP. MSWD will also apply for encroachment permits from the County of Riverside. Costs required to finalize this documentation involve 70 hours of consultant effort at \$120 per hour, for a total of \$8,400.

Task 7: Design: Design drawings, specifications, and cost estimates for Area M2 were completed in 2010. Once draft funding is received, MSWD will begin working to repackage the Final Plans and Specifications to the specific Sub Area M2-1, including updates to standard drawings, practices, and policies and other requirements since originally completed in 2010. Costs required for design updates/repackaging involve 415 hours of consultant effort at \$120 per hour, for a total of \$78,750.

Task 8: Project Performance Monitoring Plan: MSWD's planning manager will prepare the project performance and monitoring program intended to document performance of the project after the grant contract is completed. MSWD's planning manager will spend 40 hours at \$120/hour (\$4,800) for developing the monitoring program.

Row (d) Construction/Implementation

The total Construction/ Implementation costs for the project are estimated to be \$3,843,450.



Task 9: Contract Services: MSWD 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 sub areas and is estimated to cost \$10,200 with 85 hours of effort at \$120 per hour.

Task 10: Construction Administration: The total costs for this task include work anticipated from a construction management consultant, including construction management, project management, construction survey/monument ties, soils testing, inspection, administration and labor compliance monitoring. 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. This cost was based on MSWD experience managing implementation of the *Groundwater Quality Protection Program* in other sub areas and is estimated to cost \$383,250.

Task 11: Construction/Implementation Activities: Construction activities are described within the work plan (refer to Attachment 4). Total construction costs are \$3,450,000. Subtask 11(a): Mobilization and Demobilization totals \$175,000 and Subtask 11(b): Pipeline Construction totals \$3,275,000, as detailed in **Table 5-9**.

11(a): Mobilization and Demobilization: The total construction cost estimate is based on a cost estimate provided by a licensed engineer contracted by MSWD to manage the sewer construction program.

11(b): Pipeline Construction: The total construction cost estimate is based on a cost estimate provided by a licensed engineer contracted by MSWD to manage the sewer construction program. Of these costs \$1,775,000, is being requested as grant funding and the remaining \$1,500,000, will be matched by local revenue from Sewer Connection Fees and Assessment District fees– a voter approved fund to provide matching funds for septic-to-sewer conversion projects. The cost estimates were based on the materials, equipment, and labor required for installing sewer mains, laterals, and manholes, which will protect local groundwater supplies. The grant funding and MSWD's match will cover costs for the construction of the sewer lines and laterals, including all manholes, appurtenances, and street repair.

Table 5-9: Task 11 Construction/Implementation Activities: Groundwater Quality Protection Project Sub Area M2-1

Activity/Material	Unit Costs (\$)	Number of Units	Units	Total (\$)
Task 11(a): Mobilization and Demobilization				\$175,000
Mobilization /Demobilization, incl SWPPP and potholing	\$175,000	1	LS	\$175,000
Task 11(b): Pipeline Construction				\$3,275,000
Project Signage / Traffic Control	\$41,500	1	LS	\$41,500
Trench Shoring and Bracing for Excavation	\$10,000	1	LS	\$10,000
8-Inch VCP Sewer Pipe with Native Bedding	\$35.00	8,776	LF	\$307,160
8-Inch VCP Sewer Pipe with Special Bedding	\$45.00	1,618	LF	\$72,810
10-Inch VCP Sewer Pipe with Native Bedding	\$52.00	1,035	LF	\$53,820
12-Inch VCP Sewer Pipe with Special Bedding	\$62.00	735	LF	\$45,570
4-Foot Diameter Precast Manholes	\$3,000	30	EA	\$90,000
5-Foot Diameter Precast Manholes	\$4,900	5	EA	\$24,500
4-Inch VCP Sewer Laterals	\$30.00	9,612	LF	\$288,360
Construct 8" Stub and Cap	\$500	4	EA	\$2,000
Jet Cleaning / CCTV Video Inspection for Finished Pipeline	\$10,000	1	LS	\$10,000
Remove and Replace Existing PCC Cross-Gutter	\$12.00	751	SF	\$9,012
Pulverization and Replacement of Asphalt Concrete	\$3.50	440,323	SF	\$1,541,132
6" Thick Class II Aggregate Base	\$50.00	8,970	CY	\$448,500
Signing and Striping	\$7,500	1	LS	\$7,500
Water Valve Concrete Collars Replaced After Final Paving	\$250	38	EA	\$9,500
Contingency	10% of Total	1	LS	\$313,636
Construction Total				\$3,450,000



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Project 5: East Coachella Valley Septic to Sewer Conversions – Monroe Street

Project Budget Table

The *East Coachella Valley Septic to Sewer Conversions (ECVSSC) – Monroe Street* will involve tasks designed to consolidate individual septic systems within the East Coachella Valley into CVWD's sanitary sewer system. This project is to extend a 10-inch sewer pipeline to a housing subdivision off of Monroe Street on the Torres Martinez Band of Cahuilla Indians Reservation Land. The total cost associated with the *ECVSSC – Monroe Street* project is \$1,993,575. Of these total costs, \$964,250 is being requested for grant funding (48%) through the IRWM Grant Program. The \$979,325 funding match (49%) will be provided by CVWD staff labor hours and a USDA Rural Development grant; a partial cost share waiver is requested for this project because the funding match is not fully 50%. The "other cost share will be provided by an EPA grant to Indian Health Services (IHS) to finalize the design. **Table 5-10** below provides a more detailed break-down of the total project budget.

Table 5-10: Project Budget: ECVSSC – Monroe Street

Proposal Title: Coachella Valley 2019 Prop 1 Round 1 IRWM Implementation Grant Proposal Project Title: East Coachella Valley Septic to Sewer Conversions – Monroe Street Project serves a need of a DAC?: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Funding Match Waiver request?: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Category		(a)	(b)	(c)	(d)
		Cost Share: Non-State Fund Source*	Requested Grant Amount	Other Cost Share	Total
(a)	Project Administration	\$16,000	\$14,250	\$0	\$30,250
	Task 1: Administration	\$8,000	\$14,250	\$0	\$22,250
	1(a): Project Administration	\$8,000	\$0	\$0	\$8,000
	1(b): Regional Administration	\$0	\$14,250	\$0	\$14,250
	Task 2: Reporting	\$8,000	\$0	\$0	\$8,000
(b)	Land Purchase/ Easement	\$0	\$0	\$0	\$0
	Task 3: Land Purchase	\$0	\$0	\$0	\$0
(c)	Planning/ Design/ Engineering/ Environmental Documentation	\$16,000	\$0	\$50,000	\$66,000
	Task 4: Feasibility Studies	\$0	\$0	\$0	\$0
	Task 5: CEQA Documentation	\$0	\$0	\$0	\$0
	Task 6: Permitting	\$12,000	\$0	\$0	\$12,000
	Task 7: Design	\$0	\$0	\$50,000	\$50,000
	Task 8: Project Performance Monitoring Plan	\$4,000	\$0	\$0	\$4,000
(d)	Construction/ Implementation	\$947,325	\$950,000	\$0	\$1,897,325
	Task 9: Contract Services	\$65,425	\$0	\$0	\$65,425
	Task 10: Construction Administration	\$196,275	\$0	\$0	\$196,275
	Task 11: Construction/Implementation Activities**	\$685,625	\$950,000	\$0	\$1,635,625
	11(a): Mobilization and Demobilization	\$130,600	\$0	\$0	\$130,600
	11(b): Pipeline Construction	\$555,025	\$950,000	\$0	\$1,505,025
(e)	Grand Total	\$979,325	\$964,250	\$50,000	\$1,993,575
* Sources of funding: The non-state funding match will be provided by a USDA Rural Development Grant.					
**See Table 5-11					



Project Budget Description

This proposal is requesting funding for three project tasks identified within the *ECVSSC – Monroe Street* work plan (refer to Attachment 4). 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) Project Administration

Total project administration costs for the program are \$30,250 (2% of total project costs) and will be spent by CVWD.

Task 1: Administration

1(a): Project Administration

Costs will also be borne by CVWD's planning manager, who will receive and reconcile the invoices for both grant reimbursable and funding match and compile them into an overall grant invoice for DWR. CVWD's planning manager will spend 80 hours at \$100/hour (\$8,000) for the project administration required for the grant contract. This assumes that CVWD's planning manager will spend approximately 10 hours per quarter for the two-year duration developing the invoice packages.

1(b): Regional Administration: The cost estimate for regional grant administration was assumed to be 1.5% of the grant request for each individual project (rather than being a stand along administration project), which totals \$14,250 for this project. This equates to 142.5 hours of CVWD's planning manager at \$100/hour for the duration of the two-year grant agreement. This effort including compiling and reviewing the regional grant submittals and coordinating with DWR.

Task 2: Reporting: CVWD will assume all reporting costs under the "Other Cost Share" category. CVWD's planning manager will spend 80 hours at \$100/hour (\$8,000) for developing all reporting required for the grant contract. This assumes that CVWD's planning manager will spend approximately 10 hours per quarter for the two-year duration developing the quarterly reports.

Row (b) Land Purchase/Easement

Task 3: Land Purchase/Easement – Not Applicable: No land purchases or easements are required to complete this project. The project will be completed in the County Right-of-Way on Monroe Street or on tribal land. Easements have already been attended to install on tribal land with the execution of the August 2017 special sanitation installation agreement between CVWD and Torres-Martinez Band of Desert Cahuilla Indians. There are no costs associated with this task in the grant application.

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

The total Planning/Design/Engineering/Environmental Documentation costs for the project are estimated to be \$66,000.

Task 4: Feasibility Studies – Not Applicable: Project Feasibility Studies were completed as part of the project development process, see Completed Work section in the Work Plan. There are no costs associated with this task in the grant application.

Task 5: CEQA Documentation – Not Applicable: CEQA Notice of Exemption (NOE) has been completed, see Completed Work section in the Work Plan. There are no costs associated with this task in the grant application.

Task 6: Permitting: This task consists of CVWD applying for coverage from the SWRCB under the NPDES General Construction Permit, which requires preparation of a SWPPP. CVWD will also apply for right-of-way Encroachment Permits from the County of Riverside for construction within Monroe Street. CVWD will secure these permits prior to final grant agreement execution. Costs required to finalize this documentation involve 80 hours of consultant effort at \$150 per hour, for a total of \$12,000.

Task 7: Design: IHS is completing the final design for the Monroe Street Transmission Main. An estimated cost to complete the design by IHS has been included in the "Other Cost Share" column at \$50,000.

Task 8: Project Performance Monitoring Plan: CVWD's planning manager will prepare the project performance and monitoring program intended to document performance of the project after the grant contract is completed. CVWD's planning manager will spend 40 hours at \$100/hour (\$4,000) for developing the monitoring program.

Row (d) Construction/Implementation

The Construction/ Implementation costs for the program are estimated to be \$1,897,325.



Task 9: Contract Services: CVWD will complete the activities necessary to secure a contractor and award the contract. CVWD will make copies of the Contract Documents available to Contractors, send the Notice Inviting Bids to local publications for legal advertising, conduct the bid opening, answer questions about or provide clarifications of the Contract Documents, review bids, and support CVWD in preparing a recommendation of award. This cost estimate was prepared by IHS in 2019 as 4% of construction costs (\$65,425).

Task 10: Construction Administration: CVWD will complete the activities necessary to secure a contractor and award the contract. CVWD will attend the pre-construction conference, participate in biweekly construction progress meetings, review submittals, prepare responses to RFIs from the contract, perform periodic site visits and prepare record drawings upon completion of construction. This cost estimate was prepared by IHS in 2019 as 8% of construction costs (\$196,275).

Task 11: Construction/Implementation Activities: Construction for the *ECVSSC – Monroe Street* will occur through public works contracts. Total construction costs are \$1,635,625. Subtask 11(a) Mobilization and Demobilization totals \$130,600 and Subtask 11(b): Pipeline Construction totals \$1,505,025, as detailed in **Table 5-11**.

11(a): Mobilization and Demobilization: These construction costs were developed by IHS as part of their *2019 Technical Memorandum*. Mobilization activities include a pre-construction biological survey.

11(b): Pipeline Construction: These construction costs were developed by IHS as part of their *2019 Technical Memorandum*. Construction costs include the installation of approximately 4,100 lf of 8-inch PVC heavy wall (SDR 26) gravity sewer, 12 manholes and all appurtenances. This task also includes traffic control, BMP management, pavement removal, trenching, shoring, bedding, pipe installation, backfilling, rock removal, compaction, connection to the existing CVWD collection system via an existing manhole at the north end of Avenue 62, connection to the existing on-site collection system via a new manhole at the northwest corner of the Avenue 64 subdivision, pavement restoration, striping and clean up.

Table 5-11: Task 11 Construction/Implementation Activities - *ECVSSC – Monroe Street*

Materials Used	Unit Costs (\$)	Number of Units	Units	Total (\$)
11(a): Mobilization and Demobilization				\$130,600
Pre-Construction Biological Survey (including 10% contingency)	5,500	1	LS	\$5,500
Mobilization/Demobilization	\$125,100	1	LS	\$125,100
11(b): Pipeline Construction				\$1,505,025
Asphalt Paving	\$12	350	SF	\$4,200
Manhole: Unlined	\$8,500	12	EA	\$102,000
Sewer Main: 8-inch SDR 26 PVC	\$275	4072	LF	\$1,119,800
Connection to Existing Manhole	\$5,000	1	EA	\$5,000
Irrigation Line Crossing	\$10,000	2	EA	\$20,000
Compaction Testing	\$15,000	1	LS	\$15,000
Cultural/Arch Monitoring (30 days)	\$110	240	HR	\$26,400
Construction Contingency (15%)	15%	of	\$1,417,500	\$212,625
Task 11 Total				\$1,635,625



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Project 6: Non-Potable Water System – Hovley Lane East

Project Budget Table

The *Non-Potable Water (NPW) System – Hovley Lane East* will involve tasks designed to add a new NPW high pressure system (HPS) pipeline to serve new golf course connections from CVWD's WRP-10. This project is to install a new 18-36-inch diameter backbone system from WRP-10 along Hovley Lane East terminating at Oasis Country Club. In the future, the HPS will be expanded to serve five additional golf courses. This project will reduce groundwater pumping and overdraft and help utilize the capacity of existing non-potable distribution infrastructure at WRP-10. The total cost associated with the *NPW System – Hovley Lane East* project is \$3,706,760. Of these total costs, \$1,171,310 is being requested for grant funding (32%) through the IRWM Grant Program. The \$2,488,800 funding match (67%) will be provided by CVWD from its CIP budget. The "other" cost share will be provided by CVWD staff hours and additional CIP budget (\$46,650, 1% of total budget). **Table 5-12** below provides a more detailed break-down of the total project budget.

Table 5-12: Project Budget: Non-Potable Water System – Hovley Lane East

Proposal Title: <i>Coachella Valley 2019 Prop 1 Round 1 IRWM Implementation Grant Proposal</i>					
Project Title: <i>Non-Potable Water System – Hovley Lane East</i>					
Project serves a need of a DAC?:		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Funding Match Waiver request?:		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Category		(a)	(b)	(c)	(d)
		Cost Share: Non-State Fund Source*	Requested Grant Amount	Other Cost Share	Total
(a)	Project Administration	\$0	\$17,310	\$16,000	\$33,310
	Task 1: Administration	\$0	\$17,310	\$8,000	\$25,310
	1(a): Project Administration	\$0	\$0	\$8,000	\$8,000
	1(b): Regional Administration	\$0	\$17,310	\$0	\$17,310
	Task 2: Reporting	\$0	\$0	\$8,000	\$8,000
(b)	Land Purchase/ Easement	\$0	\$0	\$0	\$0
	Task 2: Land Purchase - NA	NA	NA	NA	NA
(c)	Planning/ Design/ Engineering/ Environmental Documentation	\$0	\$0	\$30,650	\$30,650
	Task 4: Feasibility Studies - NA	NA	NA	NA	NA
	Task 5: CEQA Documentation	NA	NA	NA	NA
	Task 6: Permitting	\$0	\$0	\$8,750	\$8,750
	Task 7: Design	\$0	\$0	\$17,900	\$17,900
	Task 8: Project Performance Monitoring Plan	\$0	\$0	\$4,000	\$4,000
(d)	Construction/ Implementation	\$2,488,800	\$1,154,000	\$0	\$3,642,800
	Task 9: Contract Services	\$20,000	\$0	\$0	\$20,000
	Task 10: Construction Administration	\$150,000	\$0	\$0	\$150,000
	Task 11: Construction /Implementation Activities**	\$2,318,800	\$1,154,000	\$0	\$3,933,825
	11(a): Mobilization and Demobilization	\$119,487	\$80,513	\$0	\$200,000
	11(b): Pipeline Construction	\$2,199,313	\$1,073,487	\$0	\$3,272,800
(e)	Grand Total	\$2,488,800	\$1,171,310	\$46,650	\$3,706,760
* Sources of funding: The non-state funding match will be provided by CVWD's CIP budget.					
**See Table 5-13					



Project Budget Description

This proposal is requesting funding for three project tasks identified within the *NPW System – Hovley Lane East* work plan (refer to Attachment 4). 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) Project Administration

The total project administration costs for the program are \$33,310 (1% of total project budget) and will be spent by CVWD.

Task 1: Administration

1(a): Project Administration: Costs will also be borne by CVWD's planning manager, who will receive and reconcile the invoices for both grant reimbursable and funding match, and compile them into an overall grant invoice for DWR. CVWD's planning manager will spend 80 hours at \$100/hour (\$8,000) for the project administration required for the grant contract. This assumes that CVWD's planning manager will spend approximately 10 hours per quarter for the approximately two-year duration of this project developing the invoice packages.

1(b): Regional Administration: The cost estimate for regional grant administration was assumed to be 1.5% of the grant request for each individual project (rather than being a stand along administration project), which totals \$17,310 for this project. This equates to 173 hours of CVWD's planning manager at \$100/hour for the duration of the approximately two-year grant agreement. This effort including compiling and reviewing the regional grant submittals and coordinating with DWR.

Task 2: Reporting: CVWD will assume all reporting costs under the "Other Cost Share" category. CVWD's planning manager will spend 80 hours at \$100/hour (\$8,000) for developing all reporting required for the grant contract. This assumes that CVWD's planning manager will spend approximately 10 hours per quarter for the two-year duration of this project developing the quarterly reports.

Row (b) Land Purchase/Easement

Task 3: Land Purchase – Not Applicable: No land purchases or easements are required to complete this project because all new recycled water pipelines will be located in roadway Right of Ways (covered by encroachment permits) or on CVWD owned land. There are no costs associated with this task in the grant application.

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

The total Planning/Design/Engineering/Environmental Documentation costs for the project are estimated to be \$30,650.

Task 4: Feasibility Studies – Not Applicable: Project Feasibility Studies were completed as part of the project development process, see Completed Work section in the Work Plan. There are no costs associated with this task in the grant application

Task 5: CEQA Documentation – Not Applicable: A Mitigated Negative Declaration was completed for this project in August 2018, see Completed Work section in the Work Plan. There are no costs associated with this task in the grant application.

Task 6: Permitting: This task consists of CVWD applying for coverage from the RWQCB under the NPDES General Construction Permit. CVWD will also apply for right-of-way Encroachment Permits from the City of Palm Desert and the City of Indian Wells. A Fugitive Dust Control Plan through SCAQMD will also be filed. CVWD will obtain for these permits prior to grant agreement execution. Costs required to finalize this documentation involve 70 hours of consultant effort at \$120 per hour, for a total of \$8,750.

Task 7: Design: Costs to bring the 90% design plans and specifications to 100% and are based on proposals provided by CVWD's consultant, Krieger and Stewart, in June 2019. Design costs total \$17,900 for the remaining effort.

Task 8: Project Performance Monitoring Plan: CVWD's planning manager will prepare the project performance and monitoring program intended to document performance of the project after the grant contract is completed. CVWD's planning manager will spend 40 hours at \$100/hour (\$4,000) for developing the monitoring program.

Row (d) Construction/Implementation

The Construction/ Implementation costs for the program are estimated to be \$3,642,800.

Task 9: Contract Services: CVWD will hire a consultant to complete the activities necessary to secure a contractor and award the contract. The consultant will make copies of the Contract Documents available to Contractors, send the Notice Inviting Bids to



local publications for legal advertising, conduct the bid opening, answer questions about or provide clarifications of the Contract Documents, review bids, and support CVWD in preparing a recommendation of award. The cost of this service for a similar recent non-potable connection was contracted to Krieger and Stewart for \$20,000 and that value has been used in this budget.

Task 10: Construction Administration: CVWD will hire a consultant to complete the activities necessary to secure a contractor and award the contract. The consultant will attend the pre-construction conference, participate in biweekly construction progress meetings, review submittals, prepare responses to RFIs from the contract, perform periodic site visits and prepare record drawings upon completion of construction. The cost of this service for a similar recent non-potable connection was contracted to Krieger and Stewart for \$150,000 and that value has been used in this budget.

Task 11: Construction/Implementation Activities: Construction for the *NPW System – Hovley Lane East* will occur through public works contracts. Total construction costs are \$3,472,800. Subtask 11(a): Mobilization and Demobilization totals \$200,000 and Subtask 11(b): Pipeline Construction totals \$3,272,800, as detailed in **Table 5-13**.

11(a): Mobilization and Demobilization: The pipeline construction costs were developed by CVWD's engineering staff based on the linear feet of recycled water pipelines included in the 90% Design Plans. In addition to these costs, approximately \$200,000 is estimated for mobilization, demobilization and contractor bonds and insurance.

11(b): Pipeline Construction: Construction costs are necessary to complete the High Pressure System backbone from WRP-10 to Oasis Country Club. These construction costs were developed by CVWD's engineering staff based on the linear feet of recycled water pipelines included in the 90% Design Plans. Of the construction costs, \$1,073,487 is being requested in grant funding and \$2,199,313 will be provided in funding match from CVWD's CIP budget.

Table 5-13: Task 11 Construction/Implementation Activities: Non-Potable Water System – Hovley Lane East

Materials Used	Unit Costs (\$)	Number of Units	Units	Total (\$)
11(a): Mobilization and Demobilization				\$200,000
Mobilization, Demobilization, Contractor Bonds and Insurance	LS	1	LS	\$200,000
11(b): Pipeline Construction				\$3,272,800
36-inch DIP, Offsite	\$350	5,376	LF	\$1,881,600
24-inch DIP, Offsite	\$275	3,968	LF	\$1,091,200
CVWD meter, vault and PLC, Offsite	\$300,000	1	LS	\$300,000
Task 11 Total				\$3,472,800



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