



DAVID EVANS  
AND ASSOCIATES INC.

June 30, 2022

Ms. Gia Kim  
Engineering Manager  
**City of Fontana**  
gkim@fontana.org

**Re: Proposal to Provide Additional Services for Master Plan of Storm Drain Update (SQ-87-DE-19-33) for Recharge and Recycled Water Master Plan Components**

Dear Ms. Kim:

David Evans and Associates, Inc (DEA) is pleased to submit our proposal for the additional services for the Fontana Storm Drain Master Plan Update. Based on our initial conversation on the master plan on June 23, 2022, and subsequent email on June 23, 2022, we have prepared this additional scope and fee to add to our proposal that was submitted on June 9, 2022. The additional service includes evaluating areas in the City for inclusion of both groundwater recharge and recycled water master planning to the scope of work. To complete this work, we will add two people to our organizational chart whose specialty is Water, Sewer and Recycled Water. A summary of their qualifications is included below:

Name	Position	Years of Experience	List of Representative Projects
Safa Kamangar, PE, ENV SP	Senior Director	25	<ul style="list-style-type: none"><li>City of Corona – Recycled Water System New Customer Feasibility Study</li><li>City of Corona – Hidden Valley Golf Course Recycled Water Connection Study</li><li>Coachella Valley Water District – Non-Potable Water System Extension</li></ul>
Kathleen Hong, PE	Project Engineer	8	<ul style="list-style-type: none"><li>Irvine Ranch Water District – Tustin Legacy Subarea Recycled Water Master Plan</li><li>Coachella Valley Water District – Non-Potable Water System Extension</li><li>City of Signal Hills – Recycled Water Pipeline and Pump Station</li></ul>

We are excited to work with the City to bring a robust living master plan and CIP to the City. The document will serve as an initial document for future projects that seek grant funding. We pride ourselves with consistently delivering solutions that are practical, applicable, fundable, and cost-effective.

As project manager, I am pleased to present this proposal and our team of experts that will continue to work closely with you to exceed your expectations.

Sincerely,

**David Evans and Associates, Inc.**

Rebecca Kinney, PE, CFM  
Project Manager

## SCOPE OF WORK

### Task 4.7 Recycled Water Concept Master Plan (Optional)

#### *Approach*

The Inland Empire Utilities Agency (IEUA) is a water wholesaler and delivers recycled water for non-potable uses, such as industrial uses and irrigation. The City of Fontana has the rights to receive a percentage of recycled water IEUA generates on an annual basis. The main transmission line to deliver recycled water to the communities within the City of Fontana was recently extended to include additional service areas.

**Scope:** DEA will prepare a tabletop recycled water customer study for the recycled water system. Work will include the review of the existing recycled water system and its components, identifying possible users for the recycled water system and establishing a list of the required infrastructure to provide recycled water to the new customers.

Scope of work will include the review of the City's latest GIS to identify any parks, golf courses, schools, industrial users, and Caltrans irrigation areas that may be a potential recycled water customer. DEA will also identify the existing recycled water transmission/distribution system throughout the City and in proximity of the potential users. We will then estimate the recycled water needs based on the size and type of each facility and will identify infrastructure needed to deliver recycled water to these locations. Final pipe sizing verification, as well as available flow/pressure at these locations can be provided via hydraulic modeling (not a part of this study).

Work will be based on the review of City's existing data from the GIS and facility maps provided by the City and does not include hydraulic analyses for pipe sizing or pumping station design.

### Task 4.8 Groundwater Recharge Concept Master Plan (Optional)

#### *Approach*

To augment the master plan, the groundwater recharge concept master plan will provide a high-level review of groundwater resources in the area and a desktop survey of the open public spaces that could support the dual use recharge basins. The project will include data gathering at IEUA, Department of Water Resources, and USGS.

**Scope:** DEA will prepare a tabletop groundwater recharge opportunities evaluation for capture of stormwater into dual use public systems. Work will include the using GIS to determine the locations of groundwater basins underlying the City and discuss the water rights associated with each of the groundwater basins. The data for the groundwater basins will be summarized based on recharge at the local, state, and federal level.

Scope of work will include the review of the City's latest GIS land use to identify any parks, golf courses, or schools, that may offer the dual use for recharge. An important component of the study will be understanding the existing soils at the sites as soil type is an important component for determining recharge feasibility. Note that this scope includes using existing soils data for the evaluation and does not include any Geotechnical investigations. DEA will also identify the existing storm drain based on other tasks in the overall master plan and will evaluate it for proximity to the potential recharge areas. Several graphics and GIS files will be provided to the City as part of the master plan. We will also provide a special chapter in the overall master plan to document the evaluation.

Work will be based on the review of existing data from the GIS and facility maps provided by the City and does not include geotechnical engineering, hydraulics, or groundwater modeling.

## FEES

City of Fontana Master Plan of Storm Drain Update (SQ-87-DE-19-33) Project Fee Schedule												
Task & Description		SR DIR \$330	SR PM \$290	QA/QC \$250	PE \$180	EIT \$140	Intern \$100	SR GIS \$150	GIS \$110	ADMN \$110	Total \$	Reim. \$
REQUIRED TASKS												
4.1	Data Collection and Review	0	20	4	96	96	8	8	24	13	\$43,590	
4.2	Master Plan Report - AOS 1	0	44	37	161	256	40	2	16	20	\$95,090	
4.3	Master Plan Report - AOS 2	0	38	27	121	148	32	2	4	20	\$66,410	
4.4	Master Plan Exhibit - AOS 3	0	21	9	61	48	0	2	2	19	\$28,650	
ODC												\$2,000
OPTIONAL TASKS												
4.5	Master Plan Report - AOS 3	0	18	29	76	172	64	2	4	8	\$58,250	
4.6	Storm Drain System GIS Update	0	0	0	6	24	240	48	240	0	\$62,040	
4.7	Recycled Water Concept Master Plan	8	0	0	20	0	0	0	0	0	\$6,240	
4.8	Groundwater Recharge Concept Master Plan	0	8	0	34	0	8	16	0	2	\$11,860	
ODC												\$1,000
		8	149	106	575	744	392	80	290	82		
Total Fee (Tasks + ODCs)											\$372,130	\$3,000
											\$375,130	

**Legend:**

SR DIR= Senior Director W/WW, SR PM=Senior Project Manager, PE=Project Engineer, EIT= Unregistered Civil Engineer, QA/QC=Quality Manager, SR GIS =Senior Geographic Information System Analyst, GIS= Geographic Information System Analyst, PC=Project Coordinator, ADMN=Administrative

**Please Note: All fees and scope are negotiable.**

## HOURLY RATES

Rates Effective through December 31, 2022 (rates subject to annual increase)

### WATER & ENVIRONMENT ENGINEERING:

Principal In Charge	\$312.00/Hour
Senior W/WW Director	\$330.00/Hour
Senior Project Manager	\$290.00/Hour
Senior Task Manager	\$278.00/Hour
QA / QC Manger	\$250.00/Hour
Project Manager	\$235.00/Hour
Senior Engineer	\$220.00/Hour
Project Engineer	\$180.00/Hour
Staff Engineer	\$155.00/Hour
Designer / EIT/CADD	\$140.00/Hour
Sr. GIS Analyst	\$150.00/Hour
GIS Analyst	\$110.00/Hour
Project Coordinator	\$130.00/Hour
Administrative	\$110.00/Hour

### SURVEY (OFFICE):

Survey Manager	\$250.00/Hour
Senior Survey Project Manager	\$230.00/Hour
Survey Project Manager	\$205.00/Hour
Senior Project Surveyor	\$190.00/Hour
Project Surveyor	\$170.00/Hour
Survey Analyst / Sr. Survey Technician	\$160.00/Hour
Survey Technician / Survey CADD	\$140.00/Hour
Project Coordinator	\$125.00/Hour
Admin / Clerical	\$110.00/Hour

### FIELD SURVEY:

(Per union agreement, there is a 4, 6, and 8-hour minimum charge for survey work. DEA is a signatory to the International Union of Operating Engineers Local 12. Field surveyors are therefore paid prevailing wage rates for all work performed.)

1-Person Survey Crew	\$185.00/Hour
2-Person Survey Crew	\$325.00/Hour