

February 26, 2021

Mr. Steve Ledbetter, Vice President TKE Engineering 2305 Chicago Avenue Riverside, CA 92507

Re: MSWD Water/Sewer Master Plan Scope

Dear Steve:

The MSWD requested the assessment of the acceptable fee reduction and a revised fee estimate on or before March 1st. The original contract value included in the Michael Baker proposal is \$591,456. The savings could be realized in:

- Calibration/flow measurement scope and
- Modeling tasks based on our discussions
- Workshop scope

After reviewing available data, we recommend a reduced calibration scope by \$50,567, reduced modeling effort by \$3,500, and removal of \$38,362 workshop scope. The proposed Contract scope would remain as is except for these three items. The total contract fee will be reduced to \$499,027

Table 1: Alternatives for the scope and fee reduction for the MSWD Combined Water and Sewer Master Plan

Alternative	Description	Fee	Total Fee
		Reduction	
		(\$)	(\$)
1	Reduced Calibration/Workshops Optional	92,429	499,027
2	Calibration/Workshops Optional	130,056	461,400
3	Reduced Calibration	54,067	537,389
4	Calibration Optional	91,694	499,762

Note: Modelling savings is estimated at \$3,500 for all alternatives

Based on feedback from Calibration sub-consultants, Michael Baker was able to offer the below savings:

- 1. Water sub-consultant calibration measurement scope is three pressure loggers (originally 50) and seven days (initially 14 days) of testing for a total fee of \$20,302.
- 2. Sewer sub-consultant calibration measurement scope includes the three monitoring locations (originally five) and 14 days of testing (initially 60 days) for a total fee of \$17,325.

- 3. Reduced calibration and flow monitoring scope and fee provided savings of \$50,567.
- 4. The proposed monitoring scope is standard in the industry, and it is not expected to have a detrimental effect on successful project execution.
- 5. Also, Michael Baker will work closely with the District to assess available SCADA information for the model calibration.
- 6. The existing SCADA utilization savings potential is \$37,627

Michael Baker has reviewed the GIS information provided in the "View only" mode. After review, we concluded that creating a new model would be robust and cost-effective and provide additional \$3,500 savings/benefits to the District.

To better understand the available data and assess the ability to create a new model, the District provided access to the GIS database to Michael Baker. However, the ability for a deeper dive into modeling task savings was limited. An effective effort would require the review of the GIS file to determine compliance with Esri standards.

A total of six (6) workshops for a cost of \$38,362 are included in the proposal scope. Due to the COVID pandemic, 2021 may remain under the "work from home" order. Therefore, the workshops may have to be "online"; it may be more effective if they were planned and customized as a part of regular meetings and included in the existing administration scope. The workshops could be delivered through the administration's scope of work in the form of regular meetings. This approach would, in return, provide savings of \$38,362.

RECOMMENDATION

Michael Baker recommends Alternative 1 with a reduced calibration scope of \$50,567, reduced modeling fee by \$3,500, and optional/alternative workshop scope based on available data review. The proposed Contract scope would remain as is except for these three items, and the reduced fee will be \$499,027 Table 1 summarizes a list of alternatives to offer the District better insight into possible cost savings with minimal impact on the requested service quality. Recommended Alternative 1 offers savings by optimizing calibration effort, customizing the workshop delivery to COVID condition, and blending the effort with administration meetings' scope. Other Alternatives are similarly looking to address calibration and workshop scope to various degrees. All alternatives include the new model development savings.

Sincerely,

MICHAEL BAKER INTERNATIONAL

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Momcilo Savovic, P Project Manager

Enclosure: Revised Fee Proposal

FEE PROPOSAL MSWD COMBINED MASTER PLAN

	Dala - la - 1/		ter	Dec's st			Support Services			Total	l ak	Direct/Repro	Total
	Principal/ QA/QC	Project Manager	Senior Engineer	Project Engineer CAD	ADMINISTRATION	Specialist	Support	EIT	Admin	Estimated Hours	Labor Cost	Subcontract Costs MSC	Estimated Fee
	\$ 300.00	\$ 245.00	\$ 195.00	\$ 165.00	\$ 134.00	\$ 195.00	\$ 154.00	\$ 136.00	\$ 140.00				
11: WATER AND WASTEWATER PLAN UPDATES - PROJECT MANAGMENT													
a PROJECT EXECUTION PLAN (PXP)		12	6							18	\$ 4,110	s -	\$ 4,110
b PROJECT ADMINISTRATION (SCHEDULING, INVOICING, ETC.)		4	8	4	8					24	\$ 4,272	\$ -	\$ 4,27
c PROJECT COMMUNICATION UPDATES	1	4	2							7	\$ 1,670	\$ -	\$ 1,670
d PROJECT CLOSEOUT		16	8	8						32	\$ 6,800	\$ -	\$ 6,80
BI WEEKLY MEETINGS NOT INCLUDED ELSEWHERE		24		4						28	\$ 6,540	\$ 2,332	\$ 8,87
BI-WEEKLY TELEPHONE UPDATES (ASSUME 30 MINUTES)	4	4	4	4	4		.			20	\$ 4,156	\$ -	\$ 4,150
TOTAL AMOUNT (TASK 1):	5	64	28	20	12	0	0	0	0	129	\$ 27,548	\$ 2,332.00	\$ 29,88
V2: WATER AND WASTWATER MASTER PLAN UPDATES - PROJECT INITIATION			_	_	_								_
a PROJECT INITIATION WORKSHOP RECORDS RESEARCH INCLUDING WATER AND SEWER GERNERAL	6	24	6	6	8					50			\$
b OBJECTIVES		16	87	87						190	\$ 35,240		\$ 35,24
c DESIGN CRITERIA AND LEVEL OF SERVICE TM		8	16	20						44	\$ 8,380		\$ 8,38
TOTAL AMOUNT (TASK 2):	6	48	109	113	8	0	0	0	0	284	\$ 43,620	\$ -	\$ 43,62
V3: WATER SYSTEM EVALUATION AND MODEL UPDATE		<u> </u>	ı	<u> </u>			<u> </u>	1					
a BASE MODEL UPDATE		12	114	122						249	\$ 45,479	\$ -	\$ 45,47
MARKET ASSESSMENT OF AVAILABLE MODELS		4	8	16			1			28	\$ 5,180	\$ -	\$ 5,18
EXISTING SYSTEM DEFFICIENCIES EVALUATION	 	8	16	16			 			40	\$ 7,720	\$ -	\$ 7,72
b EXISTING DEMAND DEVELOPMENT AND ALLOCATION		4	12	24						40	\$ 7,280	\$ -	\$ 7,28
c FLOW MONITORING AND CALLIBRATION d FIRE FLOW DEMAND ALLOCATION		4	0	24						0	\$ - 6 F00	\$ 20,301.60	\$ 20,30
e FUTURE DEMAND DEVELOPMENT ALLOCATION	 	4	8	24						36 36	\$ 6,500 \$ 6,500	s -	\$ 6,50 \$ 6,50
f EXISTING SYSTEM EVALUATION		8	8	24			†			40	\$ 6,500	s -	\$ 7,48
g SEISMIC EVALUATION OF TYPICAL CONCRETE 1 STEEL RESERVOIR	 	12	40	40			† †			92	\$ 17,340	s -	\$ 17,34
h WATER AGE EVALUATION		8	16	24						48	\$ 9,040	\$ -	\$ 9,04
i EXISTING SYSTEM EVALUATION WORKSHOP		16	8	8						32		s -	\$
j PROPOSED RECOMMENDATIONS AND 2X12 HR TRAINING		8	28	20						56	\$ 10,720	s -	\$ 10,72
k PROPOSED IMPROVEMENTS RECOMMENDATRION WORKSHOP		16	8	8						32		\$ -	\$
I FUTURE SYSTEM EVALUATION		8	16	24						48	\$ 9,040	\$ -	\$ 9,0
m WATER QUALITY ANALYSIS		8	8	12						28	\$ 5,500	s -	\$ 5,50
n QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC)	8	4		-						12	\$ 3,380	\$ 300.00	\$ 3,68
TOTAL AMOUNT (TASK 3):	8	124	298	386	0	0	0	0	0	817	\$ 141,159	\$ 20,601.60	\$ 161,7
V4: WATER MASTER PLAN UPDATE		T	l	1	1 1			T					l.
a DRAFT	6	24	36		16		-			122	\$ 23,444	\$ 500.00	\$ 23,9
b DRAFT FINAL c FINAL	2	24 24	24 19	40	12 8		+ +			102 100.2	\$ 19,368 \$ 18,916	S -	\$ 19,36 \$ 18,9
TOTAL AMOUNT (TASK 4):	9	72	79		36	0	0	0	0	324	\$ 61,728	\$ 500.00	\$ 62,22
1: WASTE WATER PLAN UPDATES - PROJECT MANAGEMENT INCLUDED IN				.20	- 00	<u> </u>		<u> </u>		021	¥ 01,120	000.00	V 02,22
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b PROJECT ADMINISTRATION (SCHEDULING, INVOICING, ETC.)	INCLUDED IN W									0	\$ -	s -	\$
c PROJECT COMMUNICATION UPDATES	INCLUDED IN W									0	\$ -	\$ -	\$
d PROJECT CLOSEOUT	INCLUDED IN W	1 SCHEDULE								0	\$ -	s -	\$
BI WEEKLY MEETINGS NOT INCLUDED ELSEWHERE	INCLUDED IN W	V1 SCHEDULE								0	\$ -	\$ -	\$
BI-WEEKLY TELEPHONE UPDATES (ASSUME 30 MINUTES)	INCLUDED IN W	V1 SCHEDULE								0	\$ -	\$ -	\$
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TOTAL AMOUNT (TASK 1):	0	0	0	0	0	0	0	0	0	0	\$ -		\$
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22: WASTWATER MASTER PLAN UPDATES - PROJECT INITIATION a PROJECT INITIATION WORKSHOP SEWER RECORDS RESEARCH INCLUDING WATER AND SEWER b GERNERAL OBJECTIVES c DESIGN CRITERIA AND LEVEL OF SERVICE TM	INCLUDED IN W	24 12	16	24						166 60	\$ 12,420	\$ - \$ -	\$ 1
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22 WASTWATER MASTER PLAN UPDATES - PROJECT INITIATION 3 PROJECT INITIATION WORKSHOP SEWER RECORDS RESEARCH INCLUDING WATER AND SEWER 5 GERNERAL OBJECTIVES C DESIGN CRITERIA AND LEVEL OF SERVICE TM TOTAL AMOUNT (TASK 1): 33 WASTEWATER SYSTEM EVALUATION AND MODEL UPDATE BASE MODEL UPDATE MARKET ASSESSMENT OF AVAIALBLE MODELS EXISTING SYSTEM DEFFICIENCIES EVALUATION AND MODEL UPDATES 5 EXISTING SYSTEM DEFFICIENCIES EVALUATION AND MODEL UPDATES 6 EXISTING SYSTEM DEFFICIENCIES OF ALIDACIATION FLOW MONITORING AND CALIBRATION 3 PORTABLE FLOW MONITORS C FOR 14 DAYS 4 FUTURE FLOWS DEVELOPMENT ALLOCATION 6 EXISTING SYSTEM EVALUATION 1 EXISTING SYSTEM EVALUATION 1 EXISTING SYSTEM EVALUATION 1 PROPOSE RECOMMENDATION WORKSHOP 5 PROPOSE RECOMMENDATION WORKSHOP 1 FUTURE SYSTEM EVALUATION 1 FUTURE SYSTEM EVALUATION 1 FUTURE SYSTEM EVALUATION 1 FUTURE SYSTEM EVALUATION	8 8 INCLUDED IN W	24 12 36 1 SCHEDULE 24 16 8 8 16 8	80 16 87 4 8 8 8 8	24 95 106 16 12 12 12 8 8	0	0	0	0	0	166 60 226 0 0 210 48 0 24 28 32 24	\$ 12,420 \$ 43,860 \$ - \$ - \$ 38,904 \$ 9,680 \$ - \$ 4,720 \$ 5,500	\$ - \$ - \$ - \$ - \$ 200 \$ - \$ - \$ -	\$ 1 \$ 4 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
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22 WASTWATER MASTER PLAN UPDATES - PROJECT INITIATION 2 PROJECT INITIATION WORKSHOP SEWER RECORDS RESEARCH INCLUDING WATER AND SEWER 5 GERNERAL OBJECTIVES 2 DESIGN CRITERIA AND LEVEL OF SERVICE TM TOTAL AMOUNT (TASK 1): 33 WASTEWATER SYSTEM EVALUATION AND MODEL UPDATE 2 BASE MODEL UPDATE MARKET ASSESSMENT OF AVAIABLE MODELS EXISTING SYSTEM DEFFICIENCIES EVALUATION AND MODEL UPDATES 5 EXISTING FIOWS DEVELOPMENT AND ALLOCATION FLOW MONITORING AND CALIBRATION 3 PORTABLE FLOW MONITORS C FOR 14 DAYS 4 FUTURE FLOWS DEVELOPMENT ALLOCATION EXISTING SYSTEM EVALUATION EXISTING SYSTEM EVALUATION WORKSHOP PROPOSE RECOMMENDATION N PROPOSE RECOMMENDATION WASTEWATER QUALITY ANALYSIS	8 8 INCLUDED IN W	24 12 36 1 SCHEDULE 24 16 8 8 16 8	80 16 87 4 8 8 8 8	24 95 106 16 12 12 12 8 8	0	0		0	0	166 60 226 0 0 210 48 0 24 28 32 24 32 24	\$ 12,420 \$ 43,860 \$ - \$ - \$ 38,904 \$ 9,680 \$ - \$ 4,720 \$ 5,500 \$ 4,840 \$ 4,720 \$ 4,700	\$ - \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
22 WASTWATER MASTER PLAN UPDATES - PROJECT INITIATION 2 PROJECT INITIATION WORKSHOP 3 SEWER RECORDS RESEARCH INCLUDING WATER AND SEWER 5 GERNERAL OBJECTIVES 2 DESIGN CRITERIA AND LEVEL OF SERVICE TM TOTAL AMOUNT (TASK 1): 33 WASTEWATER SYSTEM EVALUATION AND MODEL UPDATE 2 BASE MODEL UPDATE MARKET ASSESSMENT OF AVAIALBLE MODELS EXISTING SYSTEM DEFFICIENCIES EVALUATION AND MODEL UPDATES EXISTING FIOWS DEVELOPMENT AND ALLOCATION FLOW MONITORING AND CALIBRATION 3 PORTABLE FLOW MONITORS C FOR 14 DAYS 4 FUTURE FLOWS DEVELOPMENT ALLOCATION EXISTING SYSTEM EVALUATION 1 EXISTING SYSTEM EVALUATION 1 EXISTING SYSTEM EVALUATION 1 PROPOSE RECOMMENDATION 1 PROPOSE RECOMMENDATION 1 WASTEWATER QUALITY ANALYSIS 1 QUALITY ASSURANCE AND QUALITY CONTROL QAYQC	8 8 INCLUDED IN W	24 12 36 12 36 15 16 16 8 8 16 2	16 87 80 16 4 8 8 8	24 95 106 16 12 12 8 8 8						166 60 226 0 0 210 48 0 24 28 32 24 32 24 20	\$ 12,420 \$ 43,860 \$ - \$ - \$ 38,904 \$ 9,680 \$ - \$ 4,720 \$ 5,500 \$ 4,840 \$ 4,840 \$ 4,720 \$ 4,840	\$ - \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
22 WASTWATER MASTER PLAN UPDATES - PROJECT INITIATION 2 PROJECT INITIATION WORKSHOP SEWER RECORDS RESEARCH INCLUDING WATER AND SEWER 5 GERNERAL OBJECTIVES C DESIGN CRITERIA AND LEVEL OF SERVICE TM TOTAL AMOUNT (TASK 1): 33 WASTEWATER SYSTEM EVALUATION AND MODEL UPDATE A BASE MODEL UPDATE MARKET ASSESSMENT OF AVAIABLE MODELS EXISTING SYSTEM DEFFICIENCIES EVALUATION AND MODEL UPDATES EXISTING SYSTEM DEFFICIENCIES EVALUATION AND MODEL UPDATES EXISTING SYSTEM DEFFICIENCIES OF A DATE O	8 8 INCLUDED IN W	24 12 36 12 36 15 16 16 8 8 16 2	16 87 80 16 4 8 8 8	24 95 106 16 12 12 8 8 8						166 60 226 0 0 210 48 0 24 28 32 24 32 24 20	\$ 12,420 \$ 43,860 \$ - \$ - \$ 38,904 \$ 9,680 \$ - \$ 4,720 \$ 5,500 \$ 4,840 \$ 4,840 \$ 4,720 \$ 4,840	\$ - \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ 1 \$ 4 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
22: WASTWATER MASTER PLAN UPDATES - PROJECT INITIATION 29: PROJECT INITIATION WORKSHOP 5: SEWER RECORDS RESEARCH INCLUDING WATER AND SEWER 5: GERNERAL OBJECTIVES 20: DESIGN CRITERIA AND LEVEL OF SERVICE TM TOTAL AMOUNT (TASK 1): 21: WASTEWATER SYSTEM EVALUATION AND MODEL UPDATE 21: BASE MODEL UPDATE 22: MARKET ASSESSMENT OF AVAIABLE MODELS 23: EXISTING SYSTEM DEFFICIENCIES EVALUATION AND MODEL UPDATES 24: DESISTING FIOWS DEVELOPMENT AND ALLOCATION 25: FOR 14 DAYS 26: FUTURE FLOWS DEVELOPMENT AND ALLOCATION 26: EXISTING SYSTEM EVALUATION 27: FUTURE FLOWS DEVELOPMENT ALLOCATION 28: EXISTING SYSTEM EVALUATION 29: EXISTING SYSTEM EVALUATION 20: EXISTING SYSTEM EVALUATION 20: PROPOSE RECOMMENDATION WORKSHOP 20: PROPOSE RECOMMENDATION WORKSHOP 21: FUTURE SYSTEM EVALUATION 26: WASTEWATER QUALITY ANALYSIS 26: WASTEWATER QUALITY ANALYSIS 26: WASTEWATER MASTERLAN UPDATES 26: WASTEWATER MASTERLAN UPDATES	8 8 INCLUDED IN W	24 12 36 1 SCHEDULE 24 16 8 8 16 8 16 2 122	80 16 87 4 8 8 8 8 4 4	24 95 106 16 12 12 12 8 8 8 12	0					166 60 226 0 0 210 48 0 24 28 32 24 32 24 456	\$ 12,420 \$ 43,860 \$ - \$ - \$ 38,904 \$ 9,680 \$ - \$ 4,720 \$ 5,500 \$ 4,840 \$ 4,700 \$ 4,700 \$ 4,090 \$ 77,154	\$ - \$ \$ 200 \$ - \$ \$ 17,325	\$ 1 \$ 4 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
22 WASTWATER MASTER PLAN UPDATES - PROJECT INITIATION a PROJECT INITIATION WORKSHOP SEWER RECORDS RESEARCH INCLUDING WATER AND SEWER b GERNERAL OBJECTIVES c DESIGN CRITERIA AND LEVEL OF SERVICE TM TOTAL AMOUNT (TASK 1): 33 WASTEWATER SYSTEM EVALUATION AND MODEL UPDATE A BASE MODEL UPDATE MARKET ASSESSMENT OF AVAIALBLE MODELS EXISTING SYSTEM DEFFICIENCIES EVALUATION AND MODEL UPDATES EXISTING FOWS DEVELOPMENT AND ALLOCATION FLOW MONITORING AND CALIBRATION 3 PORTABLE FLOW MONITORS C FOR 14 DAYS 4 FUTURE FLOWS DEVELOPMENT ALLOCATION EXISTING SYSTEM EVALUATION 1 EXISTING SYSTEM EVALUATION 1 EXISTING SYSTEM EVALUATION 1 PROPOSE RECOMMENDATION A PROPOSE RECOMMENDATION WASTEWATER QUALITY ANALYSIS K QUALITY ASSURANCE AND QUALITY CONTROL QA/QC TOTAL AMOUNT (TASK 5): 34 WASTEWATER MASTERPLAN UPDATES B DRAFT D DRAFT FINAL C FINAL	8 8 INCLUDED IN W	24 12 36 1 SCHEDULE 24 16 8 8 16 8 16 2 122	80 16 87 4 8 8 8 8 4 4 140	24 95 106 16 12 12 8 8 8 12 18 18 7	0 16 12 8					166 60 226 0 0 210 48 0 24 28 32 24 24 20 14 456	\$ 12,420 \$ 43,860 \$ - \$ - \$ 38,904 \$ 9,680 \$ - \$ 4,720 \$ 5,500 \$ 4,840 \$ 4,840 \$ 4,900 \$ 77,154	\$ - \$ 200 \$ - \$ \$ 17,325 \$ \$ 175,525 \$ \$ 400 \$ \$ 100 \$ \$ 100 \$ \$ 100	\$ 1 \$ 4 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
APROJECT INITIATION WORKSHOP BYENDER RECORDS RESEARCH INCLUDING WATER AND SEWER BYENDER RESEARCH INCLUDING WATER AND LEVEL OF SERVICE TM TOTAL AMOUNT (TASK 1): WASTEWATER SYSTEM EVALUATION AND MODEL UPDATE BYENDER WASTEWATER SYSTEM EVALUATION AND MODEL UPDATES BYENDER SYSTEM EVALUATION AND MODEL UPDATES EXISTING SYSTEM PERFICIENCIES EVALUATION AND MODEL UPDATES EXISTING SYSTEM DEFFICIENCIES EVALUATION AND MODEL UPDATES EXISTING FIOWS DEVELOPMENT AND ALLOCATION FLOW MONITORING AND CALIBRATION 3 PORTABLE FLOW MONITORS FOR 14 DAYS FUTURE FLOWS DEVELOPMENT ALLOCATION EXISTING SYSTEM EVALUATION FUTURE SYSTEM EVALUATION PROPOSE RECOMMENDATION PROPOSE RECOMMENDATION WORKSHOP FUTURE SYSTEM EVALUATION WASTEWATER QUALITY ANALYSIS K QUALITY ASSURANCE AND QUALITY CONTROL QA/QC TOTAL AMOUNT (TASK 5): WASTEWATER MASTERPLAN UPDATES D DRAFT FINAL	8 8 8 INCLUDED IN W	24 12 36 12 36 15 16 16 8 8 16 2 122 122 140 32	16 87 80 16 4 8 8 8 4 4 4 4 140	24 95 106 16 12 12 12 8 8 12 12 182	0 16 12					166 60 226 0 0 210 48 0 24 28 32 24 20 14 456	\$ 12,420 \$ 43,860 \$ - \$ - \$ 38,904 \$ 9,680 \$ - \$ 4,720 \$ 5,500 \$ 4,840 \$ 4,840 \$ 4,700 \$ 4,090 \$ 77,154	\$ - \$ 200 \$ - \$ \$ 17,325 \$ \$ 175,525 \$ \$ 400 \$ \$ 100 \$ \$ 100 \$ \$ 100	\$ 1 \$ 4 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

	Principal/	Project	Senior	Project	Grant	Regulatory	Regulatory	Graphics	Admin	
	QA/QC	Manager	Engineer	Engineer CAD	Writing	Specialist	Support	Support		Total Hrs
Total Labor Hours per Staff	68	564	810	1011	92	0	0	0	0	2545