## **ATTACHMENT 2**

T1-	I Calleagh	I c	Cost Description	<u> </u>			Takal	Comparative
Task	Subtask	Sub- Subtask	Cost Description				Total	Costs from 2020 Budget
					NTS & CONTRAC			
				MPWMD	Private Contractors Consultants			
	<u>l</u>		Labor		Consultants			
			Technical Project Manager	\$0	\$60,000	\$0	\$60,000	\$50,00
I.1 Pr	ogram Adn	ninistration	, ,	Ψ0	\$00,000	40	400,000	\$50,00
	M.1.a	I	Project Budget and Controls	\$0	\$0	\$0	\$0	5
	M.1.b		Assist with Board and TAC Agendas	\$0	\$0	\$0	\$0	9
	M.1.c,		Preparation for and Attendance at Meetings	\$0	\$23,000	\$0	\$23,000	\$19,00
	M.1.d, & M.1.e		and Peer Review of Documents and					
			Reports <sup>(8)</sup>				•	
	M.1.f		QA/QC	\$0	\$0	\$0	\$0	5
	M.1.g		SGMA Documentation Preparation	\$0	\$2,320	\$0	\$2,320	\$2,00
l Init hase l		Monitoring	g Well Construction (Task Completed in					
2 Pro		ter Level	and Quality Monitoring					
	I. 2. a.	I. 2. a. 1.	Database Management  Conduct Ongoing Data Entry/ Database	\$14 COA	\$2,400	\$0	\$17,004	\$17,00
	1	1. 2. a. 1.	Maintenance/Enhancement <sup>(15)</sup>	\$14,604	Φ∠,400	20	φ17,004	\$17,00
	1	I. 2. a. 2.	Verify Accuracy of Production Well Meters	\$0	\$0	\$0	\$0	\$
	I. 2. b.	<del>                                     </del>	Data Collection Program					
	T	I. 2. b. 1.	Site Representation and Selection <sup>(7)</sup>	\$0	\$0	\$0	\$0	\$
		I. 2. b. 2.	Collect Monthly Water Levels <sup>(6)</sup>	\$3,726	\$0	\$0	\$3,726	\$3,72
	1	I. 2. b. 3.	Collect Quarterly Water Quality Samples and	\$23,550	\$0	\$18,551	\$42,101	\$42,80
		2. 0. 3.	Perform Sentinel Well Induction Logging <sup>(1)(5)(6)</sup>	<b>\$25,550</b>	•	<b>\$10,551</b>	Ψ12,101	Ψ12 <sub>3</sub> 01
		I. 2. b. 4.	Update Program Schedule and Standard Operating Procedures.	\$0	\$0	\$0	\$0	
	+	I. 2. b. 5.	Monitor Well Construction <sup>(7)</sup>	\$0	\$0	\$0	\$0	
	+	I. 2. b. 6.	Reports	\$2,086	\$0	\$0	\$2,086	\$2,0
		I. 2. b. 7.	CASGEM Data Submittal for Watermaster's	\$5,960	\$0	\$0	\$5,960	\$8,94
			Voluntary Wells					, ,
3 Bas	in Manager I. 3. a.	nent	Enhanced Seaside Basin Groundwater Model	(Costs Shown in Subtasks Below)				
	1	I. 3. a. 1	Update the Existing Model <sup>(11)</sup>	\$0	\$0	\$0	\$0	
	+	I. 3. a. 2	Develop Protective Water Levels <sup>(12)</sup>	\$0	\$0	\$0	\$0	
		I. 3. a. 3	Evaluate Replenishment Scenarios and Develop Answers to Basin Management Questions <sup>(10)</sup>	\$0	\$70,000	\$0	\$70,000	\$20,0
	I. 3. b.		Complete Preparation of Basin Management Action Plan	\$0	\$0	\$0	\$0	,
	I. 3. c.		Refine and/or Update the Basin Management	\$0	\$0	\$0	\$0	
			Action Plan					
	I. 3. d		Evaluate Coastal Wells for Cross-Aquifer Contamination Potential	\$0	\$0	\$0	\$0	
	I. 3. e		Seaside Basin Geochemical Model <sup>(13)</sup>	\$0	\$10,000	\$0	\$10,000	\$10,0
4 Sea	water Intru	sion Conti	ngency Plan		•	•		
	I. 4. a.		Oversight of Seawater Intrusion Detection and Tracking	\$0	\$0	\$0	\$0	
	I. 4. b.		Provide focused area hydrogeologic investigation for Sand City Public Works Well <sup>(16)</sup>	\$0	\$0	\$0	\$0	
	I. 4. c.		Annual Report- Seawater Intrusion Analysis	\$1,192	\$26,310	\$0	\$27,502	\$25,3
	I. 4. d.		Complete Preparation of Seawater Intrusion Response Plan <sup>(2)(16)</sup>	\$0	\$0	\$0	\$0	
	I. 4. e.		Refine and/or Update the Seawater Intrusion	\$0	\$0	\$0	\$0	
	I. 4. f.		Response Plan <sup>(2) (9)</sup> If Seawater Intrusion is Determined to be Occurring, Implement Contingency Response Plan <sup>(2)</sup>	be Necessary D Contingency	icluded for This Ta During 2021. If it I Funds or a Budge Necess	Does Become No t Modification V sary)	ecessary, Use of	
		TOT	ALS CONSULTANTS & CONTRACTORS	\$51,118	\$194,030	\$18,551		
		101			m 4 · · · -		A	
		101	SUBTOT.		Technical Progran		\$203,699	\$150,8
		101		luding Technical		) @ 10% <sup>(4)</sup> =	\$203,699 \$20,370 \$60,000	\$150,8 \$15,0 \$50,0

## Footnotes:

- (1) Under this Subtask the Watermaster will directly contract with an outside contractor to perform the Sentinel Well induction logging work, and to also collect water level data in conjunction with doing the induction logging. MPWMD will perform the other portions of the work of this
- (2) The response plan would only be implemented in the event sea water intrusion is determined to be occurring.
- (3) Within the context of this document the term "Consultant" refers either to a Private Consultant providing professional engineering or other types of technical services, or to the Monterey Peninsula Water Management District (MPWMD). The term "Contractor" refers to a firm providing construction or field services such as well drilling, induction logging, or meter calibration.
- (4) Due to the uncertainties of the exact scopes of some of the larger Tasks listed above at the time of preparation of this Budget it is recommended that a Contingency of approximately 10% be included in the Budget.
- (5) The MPWMD portion of this Task includes \$1,000 to maintain equipment previously installed for this purpose, \$2,000 to purchase a new sampling pump if an existing one needs to be replaced, and lab costs to analyze for barium and iodide ions in certain of these wells as was done in preceding years beginning in 2012. The Contractor portion of this Task includes the newly imposed \$50 to pay the State Department of Parks and Recreation annual fee to renew the Right-of-Entry Permit to perform this work.
- (6) Does not include costs for MPWMD to collect water level data or water quality samples from wells other than those that are part of the basic monitoring well network, i.e. for private well owners who have requested that the Watermaster obtain this data for them. Costs to obtain that data are to be reimbursed to the Watermaster by those well owners, so there should be no net cost to the Watermaster for that portion of the work under these Tasks. Includes the purchase and installation of one new and/or replacement datalogger at a price of \$700, plus \$50 for installation parts, to keep in inventory as a spare if needed.
- (7) No additional monitoring well is expected to be constructed in 2021.
- (8) This cost is for Montgomery and Associates, Todd Groundwater, and Martin Feeney to provide hydrogeologic consulting assistance to the Watermaster, beyond that associated with performing other specified Tasks, when requested to do so by the Technical Program Manager. This work may include participation in conference calls and reviewing documents prepared by others.
- (9) If work under this Task is found to be necessary, it will be funded through the Contingency line item in this Budget.
- (10) Since the BMAP was updated in 2019, this Task would only be used if there were other issues the Board wished to evaluate and which were not covered in the updated BMAP.
- (11) The Model was updated and recalibrated in 2018, so no costs for this Task are anticipated in 2021.
- (12) The protective water levels developed in 2009 were examined in 2013 to see if they needed to be updated. It was concluded that the 2009 protective levels were still satisfactory for Basin management purposes, and that no revisions were needed. No work under this Task is anticipated in 2021.
- (13) This was a new Task that was started in 2018, and was completed for the PWM AWT water in 2019. Funds allocated for this Task in 2021 would only be used if the geochemical modeling that is expected to be performed in 2021 for the MPWSP desalination plant water indicates the need to have Montgomery and Associates use the Seaside Basin groundwater model to provide additional information needed by the geochemical model to develop miitgation measures for any adverse water quality impacts the geochemical model predicts could occur from introducing desalinated water into the Basin.
- (14) This Task is included to provide funds for the Watermaster to perform modeling and other investigative work to aid in making Basin management decisions.
- (15) Includes \$200/month for an outside consultant to maintain the Watermaster's website and post documents on it.
- (16) This work was completed some years ago and no longer needs to be included in this Budget. It will be eliminated from the M&MP in 2021.