			1						Other Direct Costs												Proposed Watermaster Budget		
Mataumaa	***			Total Labor			Other Dir			otner Direct (	Total ODCs				Total Engineering		Watermaster Engineering	Expected	for Engineering Services				
Watermas	ster	Notes	Task		10	otal Labor		Travel	New	Equip-	Outside	Lab	Repro-		Total ODCs		Cost	IEUA Cost Share	Cost	Carryover from		2022/23	
Account	Group			Person Days		Cost		Travel	Equip- ment	ment Rental	Pros	LdD	duction	Task	Project	Account	Estimate 2022/23	Silare	Estimate 2022/23	2021/22	Task	Project	Account
General Ontimum Ro	asin Manaaem	ent Pro	gram/Judgment Administration		Task	Project	Account \$1,143,215									\$7,413	\$1,150,628		\$1,124,614				\$1,124,614
General Engineerin		0110110	g. u.,, j. u.g., i.o., v. u.			\$1,143,215	φ1,110,210	\$4,913	\$0	\$0	\$0	\$0	\$2,500		\$7,413	ψ/,115	\$1,150,628		\$1,124,614			\$1,124,614	Ψ1,121,011
8306, 8506, 8406	, General	f	Pool, Advisory, Watermaster Meetings	55.0	\$110,924			\$2,092						\$2,092			\$113,016		\$113,016		\$113,016		
6206, 6306 6901.8, 5901.8			Other General Meetings as Requested	39.0	\$79,584			\$1,521						\$1,521			\$81,105		\$81,105		\$81,105		
5935	General		Material Physical Injury Requests	44.0	\$81,472			Ψ1,521						Ψ1,021			\$81,472		\$81,472		\$81,472		
6906.71, 5906.71	General	f	Miscellaneous Data Requests - GM/Watermaster Staff	80.0	\$135,120			\$300						\$300			\$135,420		\$135,420		\$135,420		
6906.72, 5906.72	2 General	f	Miscellaneous Data Requests - Non CBWM Staff/RFI	29.0	\$51,312												\$51,312		\$51,312		\$51,312		
6901.95	General		Annual Streamflow Monitoring Report - Water Rights Permit 21225	12.0	\$19,028												\$19,028		\$19,028		\$19,028		
6901.95	General		SGMA Reporting Requirement for WC Section 10720.8 (f)	10.8	\$18,286												\$18,286		\$18,286		\$18,286		
6906 5906.1	General General		Project Management Watermaster Model Application and Required Demonstrations	25.5 43.3	\$44,180 \$71,574			\$100						\$100			\$44,180 \$71,674		\$44,180 \$71,674		\$44,180 \$71,674		
6901.95	General		Compliance with SWRCB Regulations Regarding Measurement and	9.0	\$15,448			,						, , , ,			\$15,448		\$15,448		\$15,448		
		c	Reporting Diversion of Water Support Development of 2020 OBMP CEQA Documentation,					¢400						<b>\$400</b>					·				
6906.26	General		Implementation Plan, and Peace Agreement Amendment	157.1	\$276,399			\$400						\$400			\$276,799		\$276,799		\$276,799		
5945 6906.21	General General	eJ	Assist Watermaster in Preparing the 45th Annual Report 2022 State of the Basin Report	8.5 114.0	\$15,320 \$173,040								\$2,500	\$2,500			\$15,320 \$175,540		\$15,320 \$175,540		\$15,320 \$175,540		
7220	General	f	Integrated Model Meetings and Technical Review - 50% IEUA Cost Share	25.0	\$173,040			\$500					\$2,300	\$500			\$52,028	\$26,014	\$26,014		\$26,014		
Program Element 1:	Comprehensiv	e Moni	toring Program				\$709,603									\$274,683	\$984,286		\$892,600				\$892,600
7502 Groundwater	•	•		<b>5</b> 0	#0.cF0	\$201,333		\$3,053	\$0	\$3,730	\$0	\$52,513	\$0		\$59,296		\$260,630		\$260,630		40.650	\$260,630	
7502 7502	, .		GWQMP: KEY GWOMP: FIELD-as needed field support	5.3 16.0	\$8,650 \$16,208			\$1,463		\$1,190				\$2,653			\$8,650 \$18,861		\$8,650 \$18,861		\$8,650 \$18,861		
7505	, -		GWQMP: LAB	0.0	Ψ10,200			ψ1,103		Ψ1,170		\$28,849		\$28,849			\$28,849		\$28,849		\$28,849		
7502	, -		GWQMP: DB-Field-Lab	7.0	\$10,620												\$10,620		\$10,620		\$10,620		
7502 7502			GWQMP: DB-CBDC GWQMP: As Needed Support/Characterize GW Quality Conditions/Trends	72.0 8.8	\$106,448 \$14,476												\$106,448 \$14,476		\$106,448 \$14,476		\$106,448 \$14,476		
7502			HCMP: GWQ/SWQ - SARWC/NAWQA/SAR	13.6	\$15,482			\$565		\$1,140				\$1,705			\$17,187		\$17,187		\$17,187		
7505			HCMP: GWQ/SWQ - SARWC/NAWQA/SAR - LAB	0.0								\$8,638		\$8,638			\$8,638		\$8,638		\$8,638		
7502 7505	•		HCMP: GWQ HCMP MWs HCMP: GWQ HCMP MWs - LAB	9.8 0.0	\$9,875			\$900		\$1,280		\$15.026		\$2,180 \$15,026			\$12,055 \$15,026		\$12,055 \$15,026		\$12,055 \$15,026		
7502	PE1/RWGRP	ce	PBHSP: GWQMP	3.4	\$5,342			4405		44.00		Ψ13,020					\$5,342		\$5,342		\$5,342		
7502	· ·		PBHSP: SWQMP	11.3	\$14,232	¢212.210		\$125	¢0.724	\$120	¢10.000	¢0	¢0	\$245	¢20.107		\$14,477		\$14,477		\$14,477	¢240.417	
7104.3 Groundwate 7104.3	er Level Monitor PE1/GWLMP		GWLMP: HCMP/GWR/MZ1/MZ3/MWL: SCHED	4.0	\$7,488	\$212,310		\$5,927	\$8,724	\$3,456	\$10,000	\$0	\$0		\$28,107		<i>\$240,417</i> \$7,488		<i>\$240,417</i> \$7,488		\$7,488	\$240,417	
7104.3	•		GWLMP: KEY	3.0	\$4,776												\$4,776		\$4,776		\$4,776		
7104.3			GWLMP: HCMP/GWR/MZ1/MZ3/MWL: FIELD	42.0	\$44,440			\$3,200		\$3,200				\$6,400			\$50,840		\$50,840		\$50,840		
7104.3 7104.3	,		GWLMP: HCMP/GWR/MZ1/MZ3/MWL: DB-WL GWLMP: DB-CBDC	31.2 32.0	\$43,693 \$44,736												\$43,693 \$44,736		\$43,693 \$44,736		\$43,693 \$44,736		
7104.3	•		GWLMP: FIELD-As needed field support	8.8	\$8,595			\$848		\$256				\$1,104			\$9,699		\$9,699		\$9,699		
7104.3			CASGEM Reporting	4.9	\$7,314												\$7,314		\$7,314		\$7,314		
7104.3 7104.8			GWLMP: As Needed Support/Characterize GW Level and Storage Conditions GWLMP: Contract Services	8.0	\$13,116						\$10,000			\$10,000			\$13,116 \$10,000		\$13,116 \$10,000		\$13,116		
7104.8	,		GWLMP: Capital Equipment (Transducers)						\$8,000		\$10,000			\$8,000			\$10,000		\$10,000		\$10,000 \$8,000		
7104.3			GWLMP: Northwest MZ-1 Area: GWLMP	18.0	\$21,168			\$1,254	\$544					\$1,798			\$22,966		\$22,966		\$22,966		
7104.3			GWLMP: PBHSP	14.0	\$16,984			\$625	\$180					\$805			\$17,789		\$17,789		\$17,789		
7402 MZ-1 Ground						\$72,912		\$1,848	\$2,250	\$374	\$118,167	\$0	\$1,596		\$124,235		\$197,147		\$197,147			\$197,147	
Subtask 1 - Setup a 7402			MONITORING NETWORK MZ1-GLMP: Setup and Maintenance of Monitoring Network	14.0	\$21.440			\$1.056	\$250	¢152				\$1,458			<i>\$36,108</i> \$22,898		<i>\$36,108</i> \$22,898		\$22,898		
7402 7408	•		MZ1-GLMP: Setup and Maintenance of Monitoring Network MZ1-GLMP: Setup and Maintenance of Monitoring Network - Equipment	14.0 4.0	\$21,440 \$7,280			\$1,056 \$264	\$250 \$2,000	\$152 \$70	\$2,000		\$1,596	\$1,458 \$5,930			\$22,898 \$13,210		\$22,898 \$13,210		\$22,898 \$13,210		
Subtask 2 - MZ-1: /	Aquifer-System	Monito	ring and Testing						,		, ·						\$31,424		\$31,424				
7402 Subtask 3 - Basin-V		abC	MZ1-GLMP: Aquifer System Monitoring and Testing	20.0	\$30,744			\$528		\$152				\$680			\$31,424 \$90,864		\$31,424 \$90,864		\$31,424		
7402		abC	BW-GLMP: InSAR	3.0	\$5,864												\$90,864 \$5,864		\$5,864		\$5,864		
7403	PE1/GLMP	abC	BW-GLMP: InSAR - Outside Pro								\$85,000			\$85,000			\$85,000		\$85,000		\$85,000		
Subtask 4 - Ground 7402			MZ1-GLMP: Ground Level Surveys	4.5	\$7,584												<i>\$38,751</i> \$7,584		<i>\$38,751</i> \$7,584		\$7,584		
7406	•		MZ1-GLMP: Ground Level Surveys - Outside Pro	1.3	Ψ1,50Τ						\$31,167			\$31,167			\$31,167		\$31,167		\$31,167		
		0.	ta Analysis and Reporting - 50% IEUA Cost Share			\$139,328		\$270	\$0	\$0	\$43,775	\$0	\$0		\$44,045		\$183,373		\$91,687			\$91,68 <b>7</b>	
7302 7306			PBHSP - Vegetation Monitoring Program  Outside Pro	17.3	\$30,332						¢42 E00			\$42 500			\$30,332	\$15,166 \$21,750	\$15,166 \$21,750		\$15,166 \$21,750		
7306 7302			PBHSP - Vegetation Monitoring Program - Outside Pro PBHSP - Climate Monitoring Program	1.3	\$1,902						\$43,500 \$275			\$43,500 \$275			\$43,500 \$2,177	\$21,750 \$1,089	\$21,750 \$1,089		\$21,750 \$1,089		
7302	PE1/RWGRP	ce	PBHSP - Prepare Annual Report	52.5	\$86,960			\$180						\$180			\$87,140	\$43,570	\$43,570		\$43,570		
7302	PE1/RWGRP	ce	PBHSP - Meetings and Project Administration	10.3	\$20,134			\$90						\$90			\$20,224	\$10,112	\$10,112		\$10,112		
7202 Recharge and	Well Monitorin		ram: Pursuant to the Groundwater Recharge Permit and Maximum Benefit			\$30,600		\$0	\$0	\$0	<i>\$0</i>	\$0	\$0		<i>\$0</i>		\$30,600		\$30,600			\$30,600	
7202	PE1/RWGRP	P	RWGRP: Review Documents for Chino Basin Recycled Water GW Recharge Program	16.5	\$30,600												\$30,600		\$30,600		\$30,600		
			1 togram																				



### DRAFT Table 1: Cost Estimates for Watermaster Engineering Services -- FY 2022/23 DRAFT

											С	Other Direct	Costs				Total		Watermaster			ed Watermaster	_
Waterma	ster		Task		Total Labor			New	Equip-					Total ODCs		Engineering	IEUA Cost	Engineering	Expected Carryover	for	Engineering Serv 2022/23	ices	
Account	Group	Notes				Cost		Travel	Equip- ment	ment Rental	Outside Pros	Lab	Repro- duction	Task	Project	Account	Cost Estimate	Share	Cost Estimate	from 2021/22	Task	Project	Account
				Days	Task	Project	Account							1 4 5 11	,	71000	2022/23		2022/23				
5925 Agriculture F	Production and					\$38,552		\$1,000	\$0	\$0	\$18,000	\$0	\$0		\$19,000		\$57,552		\$57,552			<i>\$57,552</i>	
5925	General	J Agriculture Production Estim	nation	22.0	\$38,552			\$1,000			\$18,000			\$19,000			\$57,552		\$57,552		\$57,552		
	•	of Improved Data Collection and Manag				<i>\$14,568</i>		\$0	<i>\$0</i>	<i>\$0</i>	\$0	\$0	\$0		<i>\$0</i>		\$14,568		\$14,568			\$14,568	
5965	General	f Support for Implementation of	of Improved Data Collection and Management	8.3	\$14,568												\$14,568		\$14,568		\$14,568		
		hensive Recharge Program					\$436,562									\$38,699	\$475,261		\$421,249				\$271,236
7202 Engineering .		l la pro angay :		0.5	44.540	\$436,562			\$36,985	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	\$0	#0.00	\$38,699		\$475,261		\$421,249		#1.4.O.4.O	<i>\$271,236</i>	
7202.2 7202.2	PE2 PE2	abcdC PE2: GRCC Meetings abcdC PE2: RIPComm Meetings		8.5 8.5	\$14,540 \$14,472			\$300						\$300			\$14,840 \$14,472		\$14,840 \$14,472		\$14,840 \$14,472		
		PF2: As-requested Technical	Support on the start-up of the 2013 RMPU	0.5													\$14,472		, ,		-		
7202.2	PE2	abcdC projects	support on the start up of the 2015 KM o	16.0	\$28,004			\$1,000						\$1,000			\$29,004		\$29,004		\$29,004		
7202.2	PE2	· ,	r Other Recharge Improvement Projects	53.3	\$95,586			\$414						\$414			\$96,000		\$96,000	\$96,000			
7208	PE2	SB88 Specification to Ensure	Compliance with Regulations - GRCC/IEUA	40.0	\$71,040				\$36,985					\$36,985			\$108,025	\$54,013	\$54,013	\$54,013			
		e Cost Share							\$30,903					\$30,963				\$54,015	· ·	\$54,015			
7210	PE2	abcdC 2023 Recharge Master Plan U	Jpdate	126.5	\$212,920												\$212,920		\$212,920		\$212,920		
		ter Supply Plan - Desalters					\$19,776									<b>\$0</b>	\$19,776		\$19,776				\$19,776
7303 Engineering .						\$19,776		\$0	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	\$0	<i>\$0</i>		<i>\$0</i>		\$19,776		\$19,776		***	<i>\$19,776</i>	
7303	PE3-5	f PE3-5: Engineering Support f	for Desalters	10.5	\$19,776												\$19,776		\$19,776		\$19,776		
7400 Program Elem		one Strategies					\$303,748									\$12,585	\$316,333		\$316,333				\$316,333
7402 Engineering .						\$303,748		\$456	\$0	\$0	\$0	\$0	\$12,129		\$12,585		\$316,333		\$316,333			\$316,333	
Subtask 5 - Data A 7402	•	abC PE4/MZ-1: Data Analyses and	d Panarts	45.0	\$77,500								\$12,129	\$12,129			\$89,629 \$89,629		\$89,629 \$89,629		\$89,629		
		Management Plan for Northwest MZ-1		43.0	\$77,300								Ψ12,12 <i>)</i>	\$12,127			\$172,138		\$172,138		Ψ07,027		
7402.1	•	abC Aquifer-System Monitoring		18.0	\$25,242					A							\$25,242		\$25,242		\$25,242		
7402.1	PE4/MZ-1	abC Refine and Evaluate Subsiden	nce Management Alternatives	75.5	\$146,758			\$138						\$138			\$146,896		\$146,896		\$146,896		
Subtask 7 - Meeti	ngs and Admini	tration															\$54,566		\$54,566				
7402	PE4/MZ-1	abC PE4/MZ-1: Meetings and Adn	ministration	28.0	\$54,248			\$318						\$318			\$54,566		\$54,566		\$54,566		
7500 Program Elem	nents 6 & 7: Co	p Efforts/Salt Mgmt					\$250,848									\$1,781	\$252,629		\$209,991				\$181,329
7502 Engineering .	Services					\$145,704		\$400	\$0	\$0	\$0	\$0	\$300		\$700		\$146,404		\$146,404			\$146,404	
7502	PE6-7	abC PE6-7: As-needed Consulting Plumes	for Chino Airport, South Archibald and Other	48.5	\$74,192			\$200						\$200			\$74,392		\$74,392		\$74,392		
7502	PE6-7	PE6-7: Support for the Develo	opement of a Grant-funded C <mark>hino Bas</mark> in PFAS	15.0	\$27,736												\$27,736		\$27,736		\$27,736		
		abC Study																	· ·				
7502	PE6-7	Ccd Maximum Benefit Annual Rep		26.0	\$43,776	450,004		\$200	40	40	40	40	\$300	\$500	40		\$44,276		\$44,276		\$44,276	40	
7510 Update IEUA	's Recycled Wat	er Permit/Maximum Benefit Salinity Mo	anagement Plan er Permits/Maximum Benefit Salinity			\$60,284		\$0	\$0	\$0	\$0	\$0	\$0		\$0		\$60,284		\$28,662			\$0	
7510	PE6-7	df Management Plan for the Chir		32.5	\$60,284												\$60,284	\$31,622	\$28,662	\$28,662	\$ -		
7511 Support Wate	ermaster in Par	S S	stershed Basin Monitoring Program Task Force			\$23,328		\$581	\$0	\$0	\$0	\$0	\$0		\$581		\$23,909		\$23,909			\$23,909	
		As requested services to supp	port Watermaster in its participation in and																			, , , , , ,	
7511	PE6-7		the Santa Ana Watershed Basin Monitoring	12.0	\$23,328			\$581						\$581			\$23,909		\$23,909		\$23,909		
7508 Loss of Hydro	ulic Control Mi	Program Task Force				\$21,532		\$500	\$0	\$0	\$0	\$0	\$0		\$500		\$22,032		\$11,016			\$11,016	
			ation plan for the temporary loss of Hydraulic			ΨΔ±,332		,	Ψυ	Ψυ	Ψυ	φυ	φυ		Ψ500		. ,					911,010	
7508	PE6-7	d Control - IEUA Cost Share		10.5	\$21,532			\$500						\$500			\$22,032	\$11,016	\$11,016		\$11,016		
		rage Mgmt/Conj Use					\$516,169									\$2,692	\$518,861		\$518,861				\$475,641
7602 Engineering .		11. 0	2000 0	25.0	#40 F06	\$516,169		\$1,692	\$0	\$0	\$0	\$0	\$1,000	<b>#402</b>	\$2,692		\$518,861		\$518,861	#40.000	<b>.</b>	\$475,641	
7610 7614	PE8-9 PE8-9	abJ Support Implementation of the beC Support Implementation of the		25.0 263.4	\$42,728 \$473,441			\$492 \$1,200					\$1,000	\$492 \$2,200			\$43,220 \$475,641		\$43,220 \$475,641	\$43,220	\$ - \$475,641		
	L E0-3	bec Support implementation of tr	ne sare Heiu Court Oruël			40 0 mc 00 c	40 0 <b>m</b> 2 02	. ,	0.48.086	<b>AT F 10</b>	<b>#400</b> 0 4 0	4=0=15		·	400F 0F	4005.055		404 t 07 t	, ,	4004 007		40.004.704	40 001 TO
Totals				2,001	\$3,379,921	\$3,379,921	\$3,379,921	\$22,354	\$47,959	\$7,560	\$189,942	\$52,513	\$17,525	\$337,853	\$337,853	\$337,853	\$3,717,774	\$214,351	\$3,503,423	\$221,895	\$3,281,528	\$3,281,528	\$3,281,528
Notes:																							

**Notes:**Work mandated by:

a OBMP & Peace Agreement

b OBMP Implementation Plan c Peace II

d Water Quality Control Plan for the Santa Ana River Basin (Basin Plan)

e Other Regulatory Compliance f Watermaster staff request

 $\ensuremath{\mathsf{g}}$  New scope item related to Watermaster Process and Testimony at Court if required

C Court Order

J Judgment



## DRAFT Table 2: Comparison of Watermaster Engineering Costs DRAFT FY 2022/23 versus FY 2021/22

FY 2021/22 Account No.	FY 2022/23 Account No(s).	Task	Watermaster Engineering Cost Estimate FY 22/23 <sup>1</sup>	Watermaster Engineering Cost Estimate FY 21/22 <sup>2</sup>	Net Change
General Optimu	m Basin Managemo	ent Program/Judgment Administration	\$1,124,614	\$608,984	\$515,629
6906.31	8306, 8506, 8406, 6206, 6306	Pool, Advisory, Watermaster Meetings	\$113,016	\$108,000	\$5,016
6906.32	6901.8, 5901.8	Other General Meetings as Requested	\$81,105	\$77,137	\$3,968
6906.74	5935	Material Physical Injury Requests, Other	\$81,472	\$77,398	\$4,074
6906.71	6906.71, 5906.71	Miscellaneous Data Requests - GM/Watermaster Staff	\$135,420	\$133,068	\$2,352
6906.72	6906.72, 5906.72	Miscellaneous Data Requests - Non CBWM Staff/RFI	\$51,312	\$50,088	\$1,224
6906.22	6901.95	Annual Streamflow Monitoring Report - Water Rights Permit 21225	\$19,028	\$17,984	\$1,044
6906.23	6901.95	SGMA Reporting Requirement for WC Section 10720.8 (f)	\$18,286	\$15,598	\$2,688
6906	6906	Project Management	\$44,180	\$41,896	\$2,284
6906.1 6906.24	5906.1 6901.95	Watermaster Model Application and Required Demonstrations Compliance with SWRCB Regulations Regarding Measurement and Reporting Diversion	\$71,674 \$15,448	\$15,112 \$12,204	\$56,562 \$3,244
6906.26	6906.26	of Water Support Development of 2020 OBMP CEQA Documentation, Implementation Plan, and Peace Agreement Amendment	\$276,799	\$0	\$276,799
6906.81	5945	Assist Watermaster in Preparing the 45th Annual Report	\$15,320	\$14,626	\$694
6906.21	6906.21	2020 State of the Basin Report	\$175,540	\$0	\$175,540
6906.15	7220	Integrated Model Meetings and Technical Review - 50% IEUA Cost Share	\$26,014	\$45,874	(\$19,860)
		ensive Monitoring Program	\$892,600	\$1,010,055	(\$117,455
7103	7502	Groundwater Quality Monitoring Program	\$260,630	\$269,350	(\$8,721)
7104	7104.3, 7104.8,	Groundwater Level Monitoring Program	\$240,417	\$220,793	\$19,623
7107	7402, 7403, 7406, 7408	Ground Level Monitoring Program	\$197,147	\$337,882	(\$140,735
7108.31	7302, 7306	PBHSP - Monitoring Program	\$91,687	\$71,754	\$19,933
7109.3	7202	Review Documents for Chino Basin Recycled Water GW Recharge Program	\$30,600	\$33,208	(\$2,608)
7110.3	5925	Agriculture Production Estimation	\$57,552	\$56,910	\$642
7111.3	5965	Support for Implementation of Improved Data Collection and Management Process	\$14,568	\$20,158	(\$5,590)
200 Program El	ement 2: Compreh	ensive Recharge Program	\$421,249	\$267,190	\$154,059
7202.2	7202.2	PE2: GRCC Meetings	\$14,840	\$13,848	\$992
7202.2	7202.2	PE2: RIPComm Meetings	\$14,472	\$13,548	\$924
7202.2	7202.2	PE2: As-requested Technical Support on the start-up of the 2013 RMPU projects	\$29,004	\$27,368	\$1,636
7202.2	7202.2	PE2: Engineering Services for Other Recharge Improvement Projects	\$96,000	\$120,000	(\$24,000)
7206.1	7208	SB88 Specification to Ensure Compliance with Regulations - GRCC/IEUA Cost Share	\$54,013	\$54,694	(\$682)
7210	7210	2023 Recharge Master Plan Update	\$212,920	\$37,732	\$175,188
		er Supply Plan - Desalter	\$19,776	\$22,284	(\$2,508)
7303	7303	PE3-5: Engineering Support for Desalters	\$19,776	\$22,284	(\$2,508)
400 Program El	ement 4: Managen	nent Zone Strategies	\$316,333	\$375,933	(\$59,600)
7402	7402	PE4/MZ-1: Data Analyses, Reports, Meetings, and Administration	\$144,195	\$139,806	\$4,389
7402.1	7402.1	PE4: Subsidence Management Plan for Northwest MZ-1	\$172,138	\$236,127	(\$63,989)
500 Program El	ements 6 & 7: Coop	perative Efforts/Salt Management	\$209,991	\$284,296	(\$74,305)
7502	7502	PE6-7: As-needed consulting for Plumes and Maximum Benefit Annual Reporting	\$146,404	\$111,916	\$34,488
7510	7510	Update IEUA's Recycled Water Permits/Maximum Benefit Salinity Management Plan for the Chino Basin - IEUA Cost Share	\$28,662	\$73,975	(\$45,313)
7511	7511	As Requested Services to Review of Work Performed by Santa Ana Watershed BMPTF	\$23,909	\$26,405	(\$2,496)
7508	7508	Follow-on work for the mitigation plan for the temporary loss of Hydraulic Control - IEUA Cost Share	\$11,016	\$72,000	(\$60,984)
_		age Management/Conjunctive Use	\$518,861	\$414,912	\$103,950
7610	7610	Support Implementation of the 2020 Storage Management Plan	\$43,220	\$43,220	\$0
7612	7612	Support Watermaster Review of Storage and Recovery Program - Ad Hoc Applications	\$0	\$0	\$0
7614	7614	Support Implementation of the Safe Yield Court Order	\$475,641	\$371,692	\$103,950

#### Notes:



 $<sup>^1\,\</sup>text{Total engineering cost estimate ($3,717,774) minus estimated IEUA cost share contribution ($213,705) from \,Table\,1}$ 

 $<sup>^{\</sup>rm 2}$  Total engineering cost estimate minus estimated IEUA cost share contribution

# DRAFT Table 3: Variance Explanations for Engineering Costs DRAFT FY 2022/23 versus FY 2021/22

FY 2021/22 Account No.	FY 2022/23 Account No(s).	Task	Change from FY 21/22	Variance Explanation
General Optimum	Basin Management P	rogram/Judgment Administration	\$515,629	
6906.31	8306, 8506, 8406, 6206, 6306	Pool, Advisory, Watermaster Meetings	\$5,016	
6906.32	6901.8, 5901.8	Other General Meetings as Requested	\$3,968	
6906.74	5935	Material Physical Injury Requests, Other	\$4,074	
6906.71	6906.71, 5906.71	Miscellaneous Data Requests - GM/Watermaster Staff	\$2,352	
6906.72	6906.72, 5906.72	Miscellaneous Data Requests - Non CBWM Staff/RFI	\$1,224	
6906.22	6901.95	Annual Streamflow Monitoring Report - Water Rights Permit 21225	\$1,044	
6906.23	6901.95	SGMA Reporting Requirement for WC Section 10720.8 (f)	\$2,688	
6906	6906	Project Management	\$2,284	
6906.1	5906.1	Watermaster Model Application and Required Demonstrations	\$56,562	The scope in FY2022/23 includes the balance of recharge and discharge investigation and an assessment of the cumulative impact of transfers, which were not completed in FY 2021/22.
6906.24	6901.95	Compliance with SWRCB Regulations Regarding Measurement and Reporting Diversion of Water	\$3,244	
6906.26	6906.26	Support Development of 2020 OBMP CEQA Documentation, Implementation Plan, and Peace Agreement Amendment	\$276,799	Appropriative Pool recommended no work on this task during FY 2021/22; it is anticipated that this work will commence in FY 2022/23 and include use of the CVM to conduct additional simulations.
6906.81	5945	Assist Watermaster in Preparing the 45th Annual Report	\$694	
6906.21	6906.21	2022 State of the Basin Report	\$175,540	The State of the Basin Report is prepared every two years. In FY2022/23, the report will be prepared.
6906.15	7220	Integrated Model Meetings and Technical Review - 50% IEUA Cost Share	(\$19,860)	Less coordination and fewer meetings with the Valley District, Valley District task force, and the Regional Board regarding the modeling of water quality in the Chino Basin are contemplated in FY 2022/23.
7100 Program Elen	nent 1: Comprehensiv	ve Monitoring Program	(\$117,455)	
7103	7502	Groundwater and Surface Water Quality Monitoring Program	(\$8,721)	The decrease in budget is due the removal of the triennial sampling of 17 PBHSP monitoring wells in FY 2022/23. The wells be be sampled in FY 2024/2025.
7104	7104.3, 7104.8, 7104.9	Groundwater Level Monitoring Program	\$19,623	An increase in the required field work for all Watermaster's groundwater-level monitoring programs to have two field staff each day for each program for safety and efficiencies
7107	7402, 7403, 7406, 7408	Ground Level Monitoring Program	(\$140,735)	(1) Carryover budget from 2019/20 was added to the 2021/22 budget to pay for late sub-contractor invoices. (2) Reduced scope of work associated with ground-level surveying in 2022/23.
7108.31	7302, 7306	PBHSP Monitoring Program	\$19,933	The increase in cost in FY 2022/23 is due to the triennial field vegetation surveys being performed this year.
7109.3	7202	Review Documents for Chino Basin Recycled Water GW Recharge Program	(\$2,608)	
7110.3	5925	Agriculture Production Estimation	\$642	
7111.3	5965	Support for Implementation of Improved Data Collection and Management Process	(\$5,590)	This is a multi-year project. The decrease is due to the partial completion of the effort in FY 2021/22.
7200 Program Elen	nent 2: Comprehensiv	re Recharge Program	\$154,059	
7202.2	7202.2	PE2: GRCC Meetings	\$992	
7202.2	7202.2	PE2: RIPComm Meetings	\$924	
7202.2	7202.2	PE2: As-requested Technical Support on the start-up of the 2013 RMPU projects	\$1,636	
		PE2: Engineering Services for Other Recharge Improvement	(40.4.000)	This is a multi-year project. The decrease is due to the partial
7202.2	7202.2	Projects	(\$24,000)	completion of the effort in FY 2021/22.



# DRAFT Table 3: Variance Explanations for Engineering Costs DRAFT FY 2022/23 versus FY 2021/22

FY 2021/22 Account No.	FY 2022/23 Account No(s).	Task	Change from FY 21/22	Variance Explanation
7210	7210	2023 Recharge Master Plan Update	\$175,188	The scope for FY 2021/2022 was to prepare the scope of the 2023 RMPU. The scope for FY 2022/23 is to prepare the 2023 RMPU.
7300 Program Elem	ents 3 & 5: Water Su	pply Plan - Desalter	(\$2,508)	
7303	7303	PE3-5: Engineering Support for Desalters	(\$2,508)	
7400 Program Elem	ent 4: Mgmt Zone St	rategies	(\$59,600)	
7402	7402	PE4/MZ-1: Data Analyses, Reports, Meetings, and Administration	\$4,389	
7402.1	7402.1	PE4: Subsidence Management Plan for Northwest MZ-1	(\$63,989)	The subsidence models will be completed in 2021/22. The scope of work in 2022/23 is less expensive than in 2021/22.
7500 Program Elem	ents 6 & 7: Coop Effo	orts/Salt Mgmt	(\$74,305)	
7502	7502	PE6-7: As-needed consulting for Plumes and Maximum Benefit Annual Reporting	\$34,488	In increase is due to a new task in FY 2022/23 to prepare a scope for a grant-funded PFAS Study in Chino Basin.
7510	7510	Update IEUA's Recycled Water Permits/Maximum Benefit Salinity Management Plan for the Chino Basin - IEUA Cost Share	(\$45,313)	This is a multi-year project and the level of effort in FY 2022/23 is less than FY 2021/22.
7511	7511	As Requested Services to Review of Work Performed by Santa Ana Watershed BMPTF	(\$2,496)	
7508	7508	Prepare an updated plan for mitigation of temporary loss of Hydraulic Control - IEUA Cost Share	(\$60,984)	This was a new task in FY 2021/22 and a requirement of the Regional Board. The work will be completed in FY 2022/23.
7600 Program Elem	ents 8 & 9: Storage I	Mgmt/Conj Use	\$103,950	
7610	7610	Support Implementation of the 2020 Storage Management Plan	\$0	This budget will be carryover from FY 2021/22.
7612	7612	Support Watermaster Review of Storage and Recovery Program - Ad Hoc Applications	\$0	
7614	7614	Support Implementation of the Safe Yield Court Order	\$103,950	This is a multi-year project. The scope in FY 2022/23 is greater than the prior year to include work to update the CVM.
Total			\$519,769	



#### **DRAFT** Table 4: Engineering Cost Estimates by Expense Category\* **DRAFT**

FY 2022/23

Account			otal	Expense Category											
No.	Task	_	neering Cost	WY Lab	or	WY Travel	Faui	oment	Rep	ro	Equipmen	ent	Lab	Outside	
110.			mates	Expens	-	Expense		ntal	Expe		Purchases		xpense	Pros	
<b>General Optimum Ba</b>	sin Management Program/Judgment Administration			\$ 1,143	,215	\$ 4,913		-		,500	\$ .	- \$	-	\$ -	
8306, 8506, 8406,	Pool, Advisory, Watermaster Meetings								•						
6206, 6306	Poor, Advisory, Watermaster Meetings	<b>3</b> 1	13,016	110	,924	2,092	-					•		-	
6901.8, 5901.8	Other General Meetings as Requested		81,105		,584	1,521		-		-		-	-		
5935	Material Physical Injury Requests, Other	_	81,472		,472	-		-		-		-	-		
·	Miscellaneous Data Requests - GM/Watermaster Staff		135,420		,120	300		-		-	-		-		
6906.72, 5906.72	Miscellaneous Data Requests - Non CBWM Staff/RFI	\$	51,312	51	,312	-		-		-	-	-	-		
6901.95	Annual Streamflow Monitoring Report - Water Rights Permit 21225	\$	19,028	19	,028	-		-		-	-	-	-	-	
6901.95	SGMA Reporting Requirement for WC Section 10720.8 (f)		18,286		,286	-		-		-		•	-	-	
6906	Project Management	\$	44,180	44	,180	-		-		-		-	-		
5906.1	Watermaster Model Application and Required Demonstrations	\$	71,674	71	,574	100	1	-		-		-	-	-	
6901.95	Compliance with SWRCB Regulations Regarding Measurement and Reporting Diversion of Water	\$	15,448	15	,448	-		-		-	-	-	-	-	
6906.26	Support Development of 2020 OBMP CEQA Documentation,	\$ 2	276,799	276	5,399	400	)	_		_		-	_	-	
5945	Assist Watermaster in Preparing the 45th Annual Report		15,320		,320			_							
6906.21	2022 State of the Basin Report	-	75,540		,040					,500					
7220	Integrated Model Meetings and Technical Review - 50% IEUA Cost		52,028		,528	500				,500	-	-			
7220	Share	Ş	32,026	31	,526	300	,								
	nt 1: Comprehensive Monitoring Program	-	84,286	\$ 709	,603	\$ 12,098		7,560	\$ 1	,596	\$ 10,97	4 \$	52,513	\$ 189,942	
7502, 7505	Groundwater Quality Monitoring Program	\$ 2	260,630	201	,333	3,053	1	3,730		-		-	52,513		
7104.3, 7104.8, 7104.9	Groundwater Level Monitoring Program	\$ 2	240,417	212	,310	5,927	•	3,456		-	8,72	4	-	10,000	
7402, 7403, 7406, 7408	Ground Level Monitoring Program	\$ 1	197,147	72	,912	1,848	;	374	1	,596	2,250	)	-	118,167	
7302, 7306	PBHSP Monitoring Program	\$ 1	183,373	139	,328	270	)	-		-		-	-	43,775	
7202	Review Documents for Chino Basin Recycled Water GW Recharge		20.500											<del></del>	
7202	Program	\$	30,600	30	,600	-		-		_			-	-	
5925	Agriculture Production Estimation	\$	57,552	38	,552	1,000	)	-		-		-	-	18,000	
5965	Support for Implementation of Improved Data Collection and Management Process	\$	14,568	14	,568	_		-		-		-	-	-	
7200 Program Elemei	nt 2: Comprehensive Recharge Program	\$ 4	75,261	\$ 436	,562	\$ 1,714	\$	-	\$	-	\$ 36,98	5 \$	-	\$ -	
7202.2	PE2: GRCC Meetings	\$	14,840	14	,540	300		-		-			-	-	
7202.2	PE2: RIPComm Meetings	\$	14,472	14	,472	-		-		-			-	-	
7202.2	PE2: As-requested Technical Support on the start-up of the 2013 RMPU projects	\$	29,004	28	,004	1,000	)	-		-		-	-	-	
7202.2	PE2: Engineering Services for Other Recharge Improvement Projects	\$	96,000	95	,586	414		-		-			-	-	
7208	SB88 Specification to Ensure Compliance with Regulations	\$ 1	108,025	71	,040	-				-	36,98	5	-		
7210	2023 Recharge Master Plan Update		212,920		,920	-		-		-			-		
7300 Program Elemei	nts 3 & 5: Water Supply Plan - Desalter		19,776		,776	\$ -	\$	-	\$	-	\$ .	- \$	-	\$ -	
7303	PE3-5: Engineering Support for Desalters	\$	19,776	19	,776	-		_					-	-	
7400 Program Elemen	nt 4: Mgmt Zone Strategies	\$ 3	16,333	\$ 303	,748	\$ 456	\$	-	\$ 12	,129	\$ .	- \$	-	\$ -	
7402	PE4/MZ-1: Data Analyses, Reports, Meetings, and Administration		144,195	131	,748	318		-	12	,129			-	-	
7402.1	PE4: Subsidence Management Plan for Northwest MZ-1		72,138		,000	138		-		-		-	-	-	
7500 Program Elemen	nts 6 & 7: Coop Efforts/Salt Mgmt	\$ 2	252,629	\$ 250	,848	\$ 1,481	\$	-	\$	300	\$ .	- \$	-	\$ -	
7502	PE6-7: As-needed consulting for Plumes and Maximum Benefit Annual Reporting	\$ 1	46,404	145	,704	400	)	-		300	-	-	-	-	
7510	Update IEUA's Recycled Water Permit and Water Salinity MP - IEUA Cost Share	\$	60,284	60	,284	-		-		-	-	-	-	-	
	As requested services to support Watermaster in its participation in														
7511	and review of work performed by the Santa Ana Watershed Basin	\$	23,909	23	,328	581		-		-		-	-	-	
7508	Monitoring Program Task Force Prepare an updated plan for mitigation of temporary loss of Hydraulic	\$	22 022	71	522	500	1								
/ 300	Control - IEUA Cost Share	٠ 	22,032		,532										
	nts 8 & 9: Storage Mgmt/Conj Use	-	18,861	\$ 516	,169			-	\$ 1	,000	\$ .	- \$	-	\$ -	
7610	Support Implementation of the 2020 Storage Management Plan	\$	43,220	42	,728	492		-		-	-		-		
7612	Support Watermaster Review of Storage and Recovery Program - Ad Hoc Applications	\$									-				
7614	Support Implementation of the Safe Yield Court Order	\$ 4	75,641	473	,441	1,200	)	-	1	,000			-	-	
Totals		\$ 3.7	717,774	\$ 3.379	.921	\$ 22,354	l Ś.	7.560	\$ 17	7.525	\$ 47.95	9 \$	52.513	\$ 189,942	
		7 3,1		y 3,373	,,,,,,,	7 22,00	· •	.,500	Y 1/	,523	7 41,33	· •	J_,J13	7 103,342	

### Notes:



<sup>\*</sup> Total engineering cost estimates include IEUA cost sharing contributions and Carryover