

Quantification Settlement Agreement Joint Powers Authority

4677 Overland Avenue, San Diego, CA 92123









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QSA JPA FISCAL YEAR 2020 BUDGET

SECTION 1: BACKGROUND

The Quantification Settlement Agreement Joint Powers Authority (QSA JPA) administers funding of environmental mitigation requirements related to the QSA water transfers. The QSA JPA collects, holds, invests, and disburses funds needed for the mitigation projects. The QSA JPA is comprised of designated representatives from the California Department of Fish and Wildlife (CDFW), Coachella Valley Water District (CVWD), Imperial Irrigation District (IID), and San Diego County Water Authority (Water Authority) that serve as Commissioners and staff.

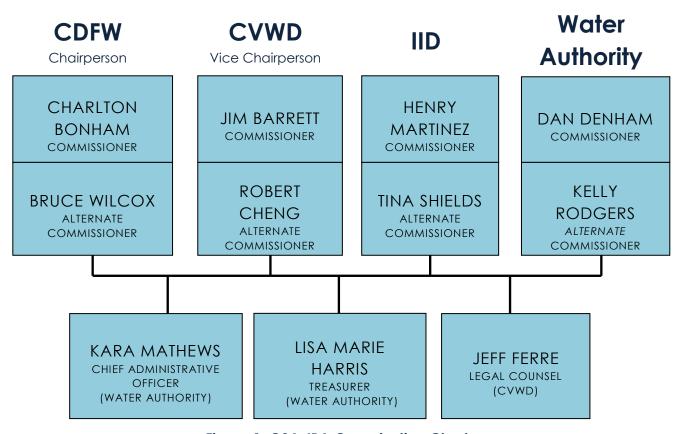


Figure 1. QSA JPA Organization Chart

CVWD, IID, and the Water Authority are required to provide up to \$133 million (in 2003 dollars) to pay for the QSA JPA mitigation program. Under the terms of the *Quantification Settlement Agreement Joint Powers Authority Creation and Funding Agreement* (JPA Agreement), the collective financial obligation of the water agencies is capped at \$133 million, and the State of California is responsible to pay for any QSA water transfer environmental mitigation costs that exceed \$133 million.

SECTION 2: BUDGET OVERVIEW

The QSA JPA Commission adopts an annual budget for the payment of environmental costs for QSA water transfer mitigation projects in the Imperial Valley. The budget is developed by IID in coordination with the QSA Implementation Team (IT), which consists of CDFW, IID, and the U.S. Fish and Wildlife Service (USFWS). The annual budget provides revenues generated from agency contributions and interest earnings to meet anticipated fiscal year (FY) mitigation expenditures. Mitigation projects are implemented by IID under direction from the IT. Specific mitigation measures are implemented per environmental permitting requirements and involve various timeframes for completion. Detailed QSA JPA annual spending through FY 2018 by mitigation task is provided in Appendix 1.

The JPA Agreement provides a schedule of annual agency contributions that are due on December 31 of each calendar year. As a means of managing cash flow requirements for future mitigation activities, the JPA Agreement permits agencies to adjust their payment schedules by rescheduling future payments from outer years to the near term. Under the *Modification of Payment Schedules Pursuant to the QSA JPA Agreement* (Advanced Funding Agreement), advanced payments by the agencies are due on July 1 and are discounted at six percent from the date of the scheduled payment to the date of the advance. The QSA JPA has advanced payments from the original JPA Agreement payment schedules to cover expected environmental mitigation expenses. In 2007, the water agencies modified their payment schedules to advance \$13.2 million in FYs 2007 and 2008 to cover mitigation requirements through 2013. In 2015, the Board of Directors of the individual water agencies authorized advanced payments to the QSA JPA totaling \$40.5 million, consisting of \$10 million from the Water Authority, \$5 million from CVWD, and \$25.5 million from IID, scheduled over six years beginning in FY 2016. The remaining payments per the 2015 Advanced Funding Agreement are shown in Table 1.

Table 1. Water Agency Remaining Payment Schedule

	CVV	WD	III)	Water A	uthority	Total Pc	yments
Year	Due 12/31	Due 7/1	Due 12/31	Due 7/1	Due 12/31	Due 7/1	By Calendar Year	By Fiscal Year
2019	\$745,350	\$1,000,000	\$2,473,610	\$2,800,000	\$1,060,053	\$1,750,000	\$9,829,013	\$20,121,404
2020	\$738,869		\$2,726,346	\$1,825,000	\$1,050,836	\$850,000	\$7,191,051	\$9,829,013
2021	\$2,697,555		\$2,885,115	\$1,500,000	\$3,801,632		\$10,884,302	\$7,191,051
2022	\$2,706,745		\$3,309,240		\$1,517,597		\$7,533,582	\$10,884,302
2023	\$2,733,006		\$4,746,284		\$1,221,837		\$8,701,127	\$7,533,582
2024	\$151,876		\$4,888,673		\$1,345,439		\$6,385,989	\$8,701,127
2025	\$565,131		\$5,035,333		\$1,047,693		\$6,648,157	\$6,385,989
2026			\$5,186,393				\$5,186,393	\$6,648,157
2027			\$5,341,985				\$5,341,985	\$5,186,393
2028			\$5,502,244				\$5,502,244	\$5,341,985
2029			\$5,130,911				\$5,130,911	\$5,502,244
2030			\$5,308,589				\$5,308,589	\$5,130,911
2031			\$5,322,392				\$5,322,392	\$5,308,589
2032			\$4,556,924				\$4,556,924	\$5,322,392
2033			\$6,005,020				\$6,005,020	\$4,556,924
2034			\$5,643,731				\$5,643,731	\$6,005,020
2035			\$5,143,974				\$5,143,974	\$5,643,731
2036								\$5,143,974
Total	\$10,338,532	\$1,000,000	\$79,206,764	\$6,125,000	\$11,045,087	\$2,600,000	\$110,315,384	\$130,436,788

SECTION 3: REVIEW OF ACTIVITIES IN FY 2019 AND FY 2018

On May 31, 2018, the QSA JPA Commission adopted the FY 2019 budget in the amount of \$15,129,270. Table 2 shows the FY 2019 approved and projected budget spending, based on approved invoice totals to date and remaining fiscal year projections by IID. Projected FY 2019 expenditures by mitigation task are shown in Table 2. There have been no amendments to the budget, and the total FY 2019 budget is expected to remain the same through the end of the fiscal year. Major expenses in the FY 2019 budget include implementing the Salton Sea air quality mitigation program (Task 24), the managed marsh habitat (Task 8), and QSA implementation team biologists (Task 2). Two task items were over budget: Task 5 – Salton Sea mitigation water, and Task 16 – Burrowing Owl surveys, and the additional expenditures were covered by savings from other tasks.

Table 2. Detailed FY 2019 Expenditures

TASK	TASK DESCRIPTION	PROJECTED FY-2019	BUDGETED FY-2019	BUDGET SAVINGS
2	QSA Implementation Team Biologists	\$1,157,740	\$1,157,740	\$0
3	Environmental Reporting and Monitoring	\$0	\$510	\$510
4	Salton Sea Salinity and Elevation Program	\$7,995	\$16,600	\$8,605
5	Salton Sea Mitigation Water to Salton Sea	\$34,142	\$16,610	-\$17,532
6	Tamarisk Scrub Habitat - Surveys and Mitigation	\$0	\$368,560	\$368,560
8	Drain Habitat (Aquatic) - Create/Manage/Monitor "Managed Marsh" Areas	\$1,995,898	\$4,555,000	\$2,559,102
10/10a	Worker Education Program Training and Manual	\$0	\$600	\$600
11	Desert Habitat Survey and Mapping of Right of Way	\$0	\$32,000	\$32,000
15	Pre-Construction Burrowing Owl Surveys/Relocation	\$66	\$14,100	\$14,034
16	Burrowing Owl Relative Abundance Surveys	\$224,314	\$157,000	-\$67,314
17	Farmer and Public Education Program	\$3,200	\$5,000	\$1,800
18	Desert Pupfish Abundance and Distribution Study	\$1,000	\$6,000	\$5,000
19/19A	Pupfish Selenium Drain Studies	\$176,440	\$421,000	\$244,560
20	Pupfish Conservation Measures	\$107,325	\$933,000	\$825,675
23	Covered Species Baseline and Monitoring Surveys	\$0	\$316,000	\$316,000
24	Salton Sea Air Quality	\$3,997,334	\$7,065,000	\$3,067,666
35	Management and Planning	\$12,000	\$12,000	\$0
36	JPA Audit Fees	\$10,350	\$10,350	\$0
37	JPA Bank Fees	\$1,600	\$1,600	\$0
43	Salton Sea Shoreline Strand Study	\$0	\$10,000	\$10,000
44	Pupfish Refugium	\$700	\$30,600	\$29,900
	Total	\$7,730,104	\$15,129,270	\$7,399,166

The projected budget savings and delayed expenditures for FY 2019 of \$7,399,166 is mostly due to the deferral of items under the air quality mitigation program (Task 24), postponement of managed marsh creation activities (Task 8), and postponement of pupfish conservation measures (Task 20). Table 3 summarizes the FY 2019 budget projections.

Table 3. FY 2019 Budget Summary

ADOPTED	PROJECTED	PROJECTED
FY 2019	FY 2019	FY 2019
BUDGET	EXPENDITURES	SAVINGS/DELAYS
\$ 15,129,270	\$ 7,730,104	\$ 7,399,166

On November 20, 2019 the QSA JPA Commission accepted an audit of its basic financial statements by Davis Farr Certified Public Accountants for fiscal years ending June 30, 2018 and 2017. Audited FY 2018 environmental mitigation expenditures totaled \$14,890,812. Based upon the audited cash balance of \$23,170,402 at the end of FY 2018, FY 2019 projected agency contributions and interest earnings of \$20,821,404, and projected FY 2019 budget spending of \$7,730,104, the QSA JPA expects to have a positive cash balance of \$36,261,702 at the end of FY 2019 (Table 4).

Table 4. FY 2019 Projected Fund Balance

D	DESCRIPTION											
FY 2018 Audited	FY 2018 Audited Fund Balance (6-30-18)											
Sources	Mitigation Contributions	\$20,121,404	\$20,821,404									
	Interest Income	\$700,000										
Uses	Environmental Mitigation		(\$7,730,104)									
FY 2019 Projecte	\$36,261,702											

SECTION 4: FY 2020 BUDGET

The FY 2019 budget provides projected revenues of \$20,821,404 to meet anticipated expenditures from July 1, 2018 through June 30, 2019 of \$7,730,104, resulting in a net gain of \$13,091,300 from the previous fiscal year. FY 2020 will begin with the projected year-end FY 2019 fund balance of \$36,261,702.

Information summarizing the FY 2020 Budget is presented in Tables 5 and 6. Table 5 provides the agency contributions scheduled for FY 2020 per the 2015 Advanced Funding Agreement, as well as funding contributions by agency through FY 2019. Revenue sources for FY 2020 include funding contributions of \$9,829,013 from the water agencies and interest income estimated at \$700,000.

Table 5. Summary of Mitigation Contributions by Water Agency

AGENCY	CONTRIBUTIONS THROUGH FY 2019	FY 2020 CONTRIBUTIONS
CVWD	\$ 55,587,41	0 \$ 1,745,350
IID	\$ 41,389,85	2 \$ 5,273,610
Water Authority ¹	\$ 77,392,77	3 \$ 2,810,053
Total Agency Contributions	\$ 174,370,03	5 \$ 9,829,013

Projected spending in FY 2020 is \$15,006,927 for environmental mitigation, shown by mitigation task in Table 7. Based upon the projected cash balance of \$36,261,702 at the end of FY 2019, FY 2020 combined sources of \$9,829,013, and projected FY 2020 budget spending of \$15,006,927, the QSA JPA expects to have a positive cash balance of \$31,783,788 at the end of FY 2020 (Table 6). Projected uses exceed sources indicating a decrease of \$4,477,914 in cash reserves for FY 2020.

Table 6. FY 2020 Projected Fund Balance

DE	DESCRIPTION											
FY 2019 Projecte	\$36,261,702											
Sources	Mitigation Contributions Interest Income	\$9,829,013 \$700,000	\$10,529,013									
Uses	Environmental Mitigation		(\$15,006,927)									
FY 2020 Projecte	\$31,783,788											

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¹ Water Authority contributions have been reduced by credits for payments made to the U.S. Bureau of Reclamation for implementation of Conservation and Mitigation Measures for the Colorado River.

Table 7. Detailed FY 2020 Expenditures

TASK	TASK DESCRIPTION	FY 20	20 BUDGET
1	QSA Implementation Team	\$	-
2	QSA Implementation Team Biologists	\$	1,192,600
3	Environmental Reporting and Monitoring	\$	530
4	Salton Sea Salinity and Elevation Program	\$	16,020
5	Salton Sea Mitigation Water to Salton Sea	\$	-
6	Tamarisk Scrub Habitat - Surveys and Mitigation	\$	70,620
7	Drain Habitat - Initial Vegetation and Habitat Surveys	\$	-
8	Drain Habitat (Aquatic) - Create/Manage/Monitor "Managed Marsh" Areas	\$	5,884,147
9	Drain Habitat Restrictions/Requirements for Construction and Maintenance	\$	-
10/10a	Worker Education Program Covered Species Training and Manual	\$	620
11	Desert Habitat Survey and Mapping of Right of Way	\$	32,960
12	Desert Habitat Create/Maintain Desert Habitat	\$	-
13	Changes to Operations on IID Canals to Avoid Covered Species	\$	-
14	Burrowing Owl Worker Annual Education and Manual	\$	-
15	Pre-Construction Activity Burrowing Owl Surveys and Relocation	\$	3,190
16	Burrowing Owl Relative Abundance and Distribution Surveys	\$	238,730
17	Farmer and Public Education Program	\$	7,090
18	Desert Pupfish Abundance and Distribution Study	\$	6,200
19/19A	Pupfish Selenium Drain Studies	\$	301,410
20	Pupfish Construction and Maintenance Conservation Measures	\$	834,300
21	Salvage of Razorback Suckers when Dewatering Canals	\$	-
22	Maintain Habitat on Fallowed Parcels	\$	-
23	Covered Species Baseline and Monitoring Surveys	\$	163,770
24	Salton Sea Air Quality	\$	6,199,070
25	Minimize Dust Emissions from Fallowed Lands	\$	-
26	Drain Connectivity to Salton Sea Elevation Decrease	\$	
27	Grade Spoil/Roads from Drain Maintenance	\$	-
28	Power Line Markers for Pumpback and Seepage Recovery Systems	\$	-
29	Prepare and Implement Management Plan for Abandoned Portions of AAC	\$	-
30	Southwestern Willow Flycatcher Surveys and Habitat Monitoring	\$	-
31	Elf Owl Surveys	\$	-
32	Desert Tortoise Survey and Avoidance	\$	-
33	Least Tern Surveys	\$	
34	Rail and Bittern Surveys	\$	-
35	Management and Planning	\$	12,360
36	JPA Audit Fees	\$	10,660
37	JPA Bank Fees	\$	1,650
38	Financial Advisor	\$	-
39	Bond Counsel Fees	\$	-
40	2001 Biological Opinion Measures	\$	-
41	Brown Pelican Coast	\$	-
42	Brown Pelican Sea	\$	-
43	Salton Sea Shoreline Strand Study	\$	-
44	Pupfish Refugium	\$	31,000
45	Recreation Facilities at Salton Sea	\$	-
	Total	\$	15,006,927

SECTION 5: FY 2020 WORK PLAN

The FY 2020 budget totaling \$15,006,927 includes environmental mitigation activities for compliance with environmental permits and regulatory requirements. A detailed breakdown of anticipated expenditures by task is provided in Table 7. Mitigation measures are implemented consistent with environmental permit requirements of the QSA water transfers. Major expenditure categories for mitigation measures to be implemented in FY 2020 are funding for the biologist team (Task 2), the Managed Marsh (Task 8), pupfish habitat construction (Task 20), and Salton Sea air quality mitigation (Task 24) (Table 8).

FY 2019 **PERCENT OF TASK** TASK DESCRIPTION **TOTAL BUDGET BUDGET** 2 **QSA Implementation Team Biologists** 1,192,600 8% Drain Habitat (Aquatic) - Create/Manage/Monitor 8 5,884,147 40% "Managed Marsh" Areas Pupfish Construction and Maintenance 20 \$ 834,300 5% **Conservation Measures** 24 Salton Sea Air Quality \$ 6,199,070 41% \$ --Other Tasks 6% 896,810 Total \$ 15,006,927 100%

Table 8. Major Expenditures in FY 2020

The Managed Marsh complex (Task 8) is the largest budgeted expenditure for FY 2020 totaling \$5,884,147 or 40 percent of the total FY 2020 budget. Expenditures for FY 2020 include operation and maintenance of the existing marsh (Phase 1 and Phase II) and final design and construction of Phase III. There is an analysis underway of options for pricing and purchase of the Managed Marsh complex land from IID that is expected to be brought to the Commission for review in FY 2020.

Implementation of the Air Quality Mitigation Program (AQMP) (Task 24) is the second largest budgeted expenditure totaling \$6,199,070 or 41 percent of the total FY 2020 budget. Air quality mitigation includes Salton Sea playa monitoring and modeling, emissions inventory, air station monitoring network, proactive dust control, methods to restrict public access to exposed playa, and toxics monitoring.

The QSA Implementation Team Biologists (Task 2) makes up \$1,192,600 or 8 percent of the total budget. This item includes funding for seven full time staff and expenses for their fleet of vehicles.

Desert Pupfish habitat construction and maintenance conservation measures (Task 20) make up \$834,300 or 5 percent of the budget. This item includes funding for drain connection design, interconnection of five drains, operation and maintenance of drain interconnections, and permitting fees.

Wildlife and habitat studies, monitoring, and education and outreach make up the remaining 6 percent of the FY 2020 expenditures totaling \$896,810.

Mitigation water to the Salton Sea (Task 5) concluded in calendar year 2017 and is no longer included as a budget item. A total of 800,000 acre-feet of mitigation water has been delivered to the sea from 2003 to 2017 for a cost of approximately \$90,000,000.

While not included in the FY 2020 budget, previous budgets have included funding to offset and restore mitigation water pre-delivered and stored in the Salton Sea by IID in 2010 for use in subsequent years that is under dispute by the U.S. Bureau of Reclamation (Reclamation). This 2010 disputed water was not generated from fallowing and therefore the volumetric mitigation delivery requirements were reduced, resulting in estimated savings of over \$6.8 million to the QSA JPA due to the reduced volume and rate. In 2013, Reclamation requested IID resolve this issue by restoring certain volumes to Lake Mead which, if fallowing were utilized, would require additional mitigation deliveries to the Salton Sea per the original schedule included in the JPA Agreement. IID had previously indicated in letters to Reclamation that it would offset and restore the 2010 pre-delivered mitigation water in calendar years 2015 and 2016, but to date this action has not been authorized by its Board of Directors and additional mitigation deliveries to resolve this issue have yet to occur. If IID takes action to offset and restore the pre-delivered mitigation water, the QSA JPA Commission agreed that a mid-year budget adjustment would be justified. If required, the total expenditures over the impacted budget cycles of the pre-delivery water will be the original estimated savings, resulting in no net financial impact to the QSA JPA.

Detailed summaries for individual mitigation measures by task including mitigation requirements; historical spending; a detailed breakdown of FY 2020 expenditures; and planned and completed work are included in Appendix 2.

Appendix 1 – Audited Historical QSA JPA Spending, FY 2004 - FY 2018

Task	Task Description	Total FY 2004-2018	FY 2018	FY 2017	FY 2016	FY 2015	FY 2014	FY 2013	FY 2012	FY 2011	FY 2010	FY 2009	FY 2008	FY 2007	FY 2006	FY 2005	FY 2004
1	QSA Implementation Team	\$383,879							\$1,440	\$1,512	\$10,484	\$36,842	\$92,216	\$91,906	\$103,876	\$45,603	
2	QSA Implementation Team Biologists	\$5,711,936	\$1,026,602	\$769,055	\$613,942	\$505,547	\$536,389	\$490,019	\$516,993	\$219,985	\$263,910	\$233,982	\$127,200	\$153,919	\$104,482	\$149,911	
3	Environmental Reporting and Monitoring	\$82,458										\$17,385	\$32,170	\$7,639	\$68	\$25,196	
4	Salton Sea Salinity and Elevation Program	\$12,589	\$7,100													\$5,489	
5	Salton Sea Mitigation Water to Salton Sea	\$89,588,381	\$9,851,798	\$18,412,449	\$17,483,767	\$11,607,035	\$10,580,006	\$3,834,494	\$300,000	\$4,053,901	\$2,011,054	\$3,158,089	\$2,428,737	\$1,068,629	\$3,410,433	\$1,025,690	\$362,299
6	Tamarisk Scrub Habitat - Surveys and Mitigation	\$9,548											\$1,108	\$7,124	\$1,316		
7	Drain Habitat - Initial Vegetation and Habitat Surveys	\$209,123												\$663	\$11,991	\$196,469	
8	Drain Habitat (Aquatic) - Create/Manage/Mo nitor "Managed Marsh" Areas	\$9,865,110	\$439,409	\$297,032	\$389,963	\$2,787,567	\$390,935	\$205,940	\$249,921	\$343,918	\$2,271,303	\$1,991,591	\$301,288	\$63,164	\$94,442	\$38,637	
9	Drain Habitat Restrictions/Requir ements for Construction and Maintenance	\$8,473													\$8,473		
10/ 10a	Worker Education Program Covered Species Training and Manual	\$35,302											\$2,315	\$20,204	\$10,854	\$1,929	
11	Desert Habitat Survey and Mapping of Right of Way	\$379,191													\$323,224	\$55,967	
12	Desert Habitat Create/Maintain Desert Habitat	\$17,300													\$17,300		_

Appendix 1 – Audited Historical QSA JPA Spending, FY 2004 - FY 2018

Task	Task Description	Total FY 2004-2018	FY 2018	FY 2017	FY 2016	FY 2015	FY 2014	FY 2013	FY 2012	FY 2011	FY 2010	FY 2009	FY 2008	FY 2007	FY 2006	FY 2005	FY 2004
13	Changes to Operations on IID Canals to Avoid Covered Species	\$0															
14	Burrowing Owl Worker Annual Education and Manual	\$10,411												\$2,580	\$6,505	\$1,326	
15	Pre-Construction Activity Burrowing Owl Surveys and Relocation	\$923,622	\$7,164	\$1,540	\$6,765		\$4,020	\$756	\$35	\$173,309	\$171,203	\$142,268	\$159,363	\$135,268	\$118,666	\$3,265	
16	Burrowing Owl Relative Abundance and Distribution Surveys	\$3,039,400		\$20,000	\$59,509	\$28,172	\$13,145	\$35,072	\$245,285	\$124,438	\$30,801	\$130,668	\$1,203,135	\$902,195	\$238,861	\$8,119	
17	Farmer and Public Education Program	\$9,568	\$1,600	\$935	\$1,416	\$1,435	\$2,876	\$260		\$499						\$547	
18	Desert Pupfish Abundance and Distribution Study	\$14,291	\$8		\$24		\$14			\$767				\$554	\$12,924		
19/ 19A	Pupfish Selenium Drain Studies	\$2,071,617	\$36,468	\$66,650		\$1,482			\$14,333	\$261,123	\$328,148	\$176,793	\$474,401	\$343,736	\$156,587	\$157,896	
20	Pupfish Construction and Maintenance Conservation Measures	\$48,885	\$11,653	\$504					\$5,800	\$22,778						\$8,150	
21	Salvage of Razorback Suckers when Dewatering Canals	\$9,534												\$166	\$6,626	\$2,742	
22	Maintain Habitat on Fallowed Parcels	\$0															
23	Covered Species Baseline and Monitoring Surveys ²	\$5,395,188	\$800	\$947	\$17,000	\$62	\$151	\$53,333	\$90,752	\$158,917	\$331,375	\$1,443,097	\$2,386,657	\$906,318	\$2,644	\$3,135	
24	Salton Sea Air Quality	\$14,346,347	\$3,483,968	\$3,809,309	\$2,797,387	\$601,399	\$348,604	\$286,877	\$344,955	\$506,207	\$1,136,466	\$967,155	\$62,779		\$1,241		

 $^{^{\}rm 2}$ Includes Avian Studies from FY 2006, 2007, and 2008.

Appendix 1 – Audited Historical QSA JPA Spending, FY 2004 - FY 2018

Task	Task Description	Total FY 2004-2018	FY 2018	FY 2017	FY 2016	FY 2015	FY 2014	FY 2013	FY 2012	FY 2011	FY 2010	FY 2009	FY 2008	FY 2007	FY 2006	FY 2005	FY 2004
25	Minimize Dust Emissions from Fallowed Lands	\$57,775												\$1,298	\$5,157	\$51,320	
26	Drain Connectivity to Salton Sea Elevation Decrease	\$0															
27	Grade Spoil/Roads from Drain Maintenance	\$0															
28	Power Line Markers for Pumpback and Seepage Recovery Systems	\$1,960										\$1,960					
29	Prepare and Implement Management Plan for Abandoned Portions of AAC	\$0															
30	Southwestern Willow Flycatcher Surveys and Habitat Monitoring ³	\$62,938											\$62,717			\$221	
31	Elf Owl Surveys	\$0															
32	Desert Tortoise Survey and Avoidance	\$0															
33	Least Tern Surveys	\$0															
34	Rail and Bittern Surveys	\$0															
35	Management and Planning	\$336,979	\$1,367	\$9,354	\$4,190	\$3,229	\$3,950	\$4,618	\$5,713	\$5,442	\$23,647	\$17,808	\$64,954	\$48,390	\$47,903	\$96,414	
36	JPA Audit Fees	\$137,278	\$10,350	\$10,350	\$12,147	\$11,911	\$11,680	\$11,452	\$11,230	\$8,405	\$10,185	\$10,848	\$10,320	\$5,400	\$13,000		

³ Includes Task 46 from previous years.

Appendix 1 – Audited Historical QSA JPA Spending, FY 2004 - FY 2018

Task	Task Description	Total FY 2004-2018	FY 2018	FY 2017	FY 2016	FY 2015	FY 2014	FY 2013	FY 2012	FY 2011	FY 2010	FY 2009	FY 2008	FY 2007	FY 2006	FY 2005	FY 2004
37	JPA Bank Fees	\$25,659	\$1,526	\$1,584	\$1,609	\$1,678	\$1,603	\$1,708	\$3,200	\$2,023	\$560	\$2,570	\$2,493	\$2,451	\$2,044	\$610	
38	Financial Advisor	\$29,497												\$29,497			
39	Bond Counsel Fees	\$25,000												\$25,000			
40	2001 Biological Opinion Measures	\$3,349,126									\$262,272	\$2,199,283	\$290,365	\$466,006	\$131,200		
41	Brown Pelican Coast	\$0															
42	Brown Pelican Sea	\$0															
43	Salton Sea Shoreline Strand Study	\$0															
44	Pupfish Refugium	\$60,641			\$1,840	\$21,284				\$1,407	\$24,208	\$6,222	\$5,680				
45	Recreation Facilities at Salton Sea	\$18,692	\$10,999	\$6,565		\$1,128											
Total		\$136,223,698	\$14,890,812	\$23,406,274	\$21,389,559	\$15,571,929	\$11,893,373	\$4,924,529	\$1,789,657	\$5,884,631	\$6,875,616	\$10,536,561	\$7,707,898	\$4,282,107	\$4,829,817	\$1,878,636	\$362,299
Measi	ical Opinion Ires Credited to Authority	\$3,349,126									\$262,272	\$2,199,283	\$290,365	\$466,006	\$131,200		
Total .	PA Expenditures	\$132,874,572	\$14,890,812	\$23,406,274	\$21,389,559	\$15,571,929	\$11,893,373	\$4,924,529	\$1,789,657	\$5,884,631	\$6,613,344	\$8,337,278	\$7,417,533	\$3,816,101	\$4,698,617	\$1,878,636	\$362,299

Work Task 1: QSA Implementation Team

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$383,879

Description and Purpose: The QSA Implementation Team is to hold quarterly Implementation Team (IT) meetings consisting of representatives from IID, USFWS, and CDFW, to guide implementation of the HCP and In-Valley CESA Permit for the duration of the HCP and Permit.

Permit Reference: HCP; CESA Permit 4(a)(ii) and MMRP 8

Accomplishments Through FY18: Monthly and quarterly implementation team meetings.

FY19 Activities: Quarterly implementation team meetings.

Proposed FY20 Activities: Quarterly implementation team meetings. Costs included in Task 2 for staff time and vehicle expenses.

Work Task 2: QSA Implementation Team Biologists

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$1,192,600	\$1,157,740	\$1,157,740	\$5,711,936

Description and Purpose: Salary and expenses for IT Biologists.

Permit Reference: HCP, General 1; CESA Permit 4(a)(i) and MMRP 7

Accomplishments Through FY18: Environmental Mitigation Staff.

FY19 Activities: Environmental Mitigation Staff.

Proposed FY20 Activities: Environmental Mitigation Staff.

Work Task 3: Environmental Reporting and Monitoring

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$530	\$0	\$510	\$82,458

Description and Purpose: Report annually to USFWS and CDFW the amount of water conserved, transferred, and allowed to flow to the Salton Sea. Make available to USFWS and CDFW valley-wide statistics regarding agricultural production and implementation of water conservation measures, including total acreage in agricultural production in the IID water service area, acres of each crop grown, acres of land fallowed, acres of participating farms, and total amount of water conserved and transferred. Submit annual report to SWRCB on actions taken to comply with the mitigation measures and conservation strategies included in the Final EIR/EIS and HCP and all other state and federal permits and regulatory requirements. Prepare Adaptive Management Plan for monitoring effectiveness of mitigation measures. Submit reports of the previous year's activities to USFWS, CDFW and SWRCB including details of fish and wildlife conservation actions implemented, monitoring/surveying activities, and water conservation activities.

Permit Reference: HCP Chp 4; In-Valley Biological Opinion, TC Reporting Requirements; CESA Permit Conditions of Approval, General Conditions (a) and (b) and MMRPs; SWRCB Section 4

Accomplishments Through FY18: Annual report sent by March 31st of each year for the previous calendar year.

FY19 Activities: Printing and shipping costs for annual reports. Annual Report sent March, 2019 for activities completed in calendar year 2018.

Proposed FY20 Activities: Printing and shipping costs for annual reports.

Work Task 4: Salton Sea Salinity and Elevation Program

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$16,020	\$7,995	\$16,600	\$12,589

Description and Purpose: To demonstrate compliance with the Salton Sea Habitat Conservation Strategy, monitor salinity and elevation of the Salton Sea.

Permit Reference: SWRCB-6; CESA Permit MMRP 40

Accomplishments Through FY18: Annual selenium monitoring.

FY19 Activities: Selenium Analysis at the Salton Sea.

Proposed FY20 Activities: Selenium analysis at the Salton Sea.

Work Task 5: Salton Sea Mitigation Water to Salton Sea

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$34,142	\$16,610	\$89,588,381

Description and Purpose: To implement refined Salton Sea Habitat Conservation Strategy (SSHCS), which requires provision of mitigation water to the Salton Sea for the first 15 years of the project to mitigate reductions in inflow due to the transfer of water to the Water Authority. Mitigation water will be delivered in accordance with the schedule in Table 1-3 of the 9/03 Addendum.

Permit Reference: SWRCB CESA Permit 4(c)(i) and MMRP13

Accomplishments Through FY18: Mitigation water was delivered per calendar year, broken up over two fiscal years, from 2003 to 2017.

FY19 Activities: Delivery of mitigation water through December 31, 2017. After finalized water accounting, the remainder of calendar year 2017 mitigation water in the amount of 125 acre-feet was delivered in FY19.

Proposed FY20 Activities: The remaining calendar year 2017 delivery was completed in 2018. The budget does not include payback mitigation water from 2011.

Work Task 6: Tamarisk Scrub Habitat - Surveys and Mitigation

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$70,620	\$0	\$368,560	\$9,548

Description and Purpose: To develop preconstruction survey checklists and protocols in consultation with the IT, to identify proposed construction and impacted vegetation and covered species. Specific survey protocol will be developed to monitor and quantify changes in the amount/quality of habitat in consultation with USFWS and CDFW. Includes the evaluation of all potential cottonwood-willow and tamarisk stands for Southwestern Willow Flycatcher breeding habitat suitability, prior to IID water conservation activities that could impact tamarisk habitat.

Permit Reference: HCP-TREE 1-3; In-Valley Biological Opinion, Willow Flycatcher Measures 1 to 4; CESA Permit 4(f) and MMRP 21-27, 29-36, 41, 42

Accomplishments Through FY18: Managed Marsh Complex native tree habitat in buffer zones installed.

FY19 Activities: Operation and maintenance of native tree habitat.

Proposed FY20 Activities: Operation and maintenance of native tree habitat.

Work Task 7: Drain Habitat - Initial Vegetation and Habitat Surveys

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$209,123

Description and Purpose: To complete drain vegetation database, conduct covered species baseline surveys as necessary, and participate in a comprehensive planning process to address selenium impacts. Includes the evaluation of all potential cottonwood-willow and tamarisk stands for southwestern willow flycatcher breeding habitat suitability, based on characterizations provided in the draft Southwestern Willow Flycatcher Recovery Plan.

Permit Reference: HCP, Drain Habitat 1; In-Valley Biological Opinion Willow Flycatcher Measures 1 to 4; CESA Permit, 4(g) and MMRPs

Accomplishments Through FY18: Baseline drain vegetation surveys were conducted in 2005 to determine acreage amounts for the Managed Marsh Complex and habitat types. 950 acres of emergent, open water and riparian habitats.

FY19 Activities: N/A

Proposed FY20 Activities: N/A

Work Task 8: Drain Habitat (Aquatic) - Create/Manage/Monitor "Managed Marsh" Areas

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$5,884,147	\$1,995,898	\$4,555,000	\$9,865,110

Description and Purpose: To create 959 acres of managed marsh habitat over a 15 year period, 1/3 of the total within the first five years. The specific amount will be determined by the IT, and approved by USFWS and CDFW, based upon the drain vegetation survey (an amount equal to the total amount of habitat in the drains), as well as the acreage required to compensate for selenium effects. Due diligence will be conducted on land chosen for Managed Marsh and land will be purchased for managed marsh.

Permit Reference: HCP Drain Habitat; In-Valley Biological Opinion-Rail CM 1-2; CESA 4(g)(i) and MMRP 45, 46, 47, 88, 101, 102, 103

Accomplishments Through FY18: Phase 1 built in 2009 - 365 acres. Phase 2 built in 2014 - 360 acres. Phase 3 planning began in 2017. Buffer zones double as native tree habitat for construction projects.

FY19 Activities: Operation & maintenance of Phase I and II of Managed Marsh Complex conducted. Design of Phase 3. Phase 1 Berm Repair.

Proposed FY20 Activities: Operation & Maintenance of Phase 1 and 2 of the Managed Marsh Complex conducted. Phase 3 Design and Construction to be carried out.

Work Task 9: Drain Habitat Restrictions/Requirements for Construction and Maintenance

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$8,473

Description and Purpose: To implement the listed measures when conducting scheduled construction activities within rights-of-way along the AAC, East Highline, and portions of the Westside Main, Thistle, and Trifolium Extension Canals containing desert habitat (these measures may be modified during the permit term with the approval of USFWS and CDFW or based on survey results or adaptive management).

Permit Reference: HCP-Drain 3; CESA Permit 4(f)(i, ii, iii, and ix), 4(g), 4(i)(iv) and MMRP 36, 49, 50, 70, 71, 76, 77, 89

Accomplishments Through FY18: Pre-construction surveys for construction activities.

FY19 Activities: N/A

Proposed FY20 Activities: Costs of biological monitors included as Environmental Specialists in Task 2.

Work Task 10/10a: Worker Education Program Covered Species Training and Manual

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$620	\$0	\$600	\$35,302

Description and Purpose: To implement an annual worker education program for workers conducting O&M and construction activities to ensure compliance with the Desert Habitat Conservation Strategy. A worker education manual is to be prepared with the concurrence of USFWS and CDFW; copies are to be distributed to each person conducting O&M activities along the AAC, East Highline, Westside Main, Thistle or Trifolium canals. Includes review of worker education manual, updates as appropriate, and distribution to workers; copies are to be given to USFWS and CDFW. Workers' compliance is to be monitored with worker education manual procedures, and any infractions will be reported by the IT Biologist to the worker's supervisor.

Permit Reference: HCP-Desert 1; CESA Permit 4(i) MMRP 58, 59 and 60

Accomplishments Through FY18: Annual worker education trainings conducted at the beginning of each calendar year and then an additional training mid-year for new employees.

FY19 Activities: Annual worker education program.

Proposed FY20 Activities: Annual worker education program.

Work Task 11: Desert Habitat Survey and Mapping of Right of Way

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$32,960	\$0	\$32,000	\$379,191

Description and Purpose: To conduct a desert habitat survey encompassing IID's rights-of-way along the AAC (from the intersection with the East Highline Canal to the desilting basins at Imperial Dam) and the Westside Main, East Highline, Thistle and Trifolium Extension Canals where the rights-of-way contain or are adjacent to desert habitat. Includes Identifying and mapping habitat and habitat features. A report of the results of the desert habitat survey is tube reported to USFWS and CDFW. The worker education manual will be updated to include a habitat map and map(s) of known locations of each of the covered species within the canal rights-of-way.

Permit Reference: HCP DH 4; CESA Permit 4(i)(v) MMRP 64

Accomplishments Through FY18: Habitat survey conducted as part of initial habitat mapping at the beginning of QSA.

FY19 Activities: No items performed for this task in FY19. Costs rebudgeted in FY20 for implementation.

Proposed FY20 Activities: Purchase of aerial imagery of desert habitat adjacent to IID's rights-of-way and a consultant to see if there are any changes from existing data. HCP team will conduct any necessary ground truthing surveys.

Work Task 12: Desert Habitat Create/Maintain Desert Habitat

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$17,300

Description and Purpose: To determine the amount of habitat lost, and work with the IT to identify a replacement property (in a 1:1 ratio to the lost acreage) to be acquired or covered with a conservation easement if desert habitat used by covered species would be permanently lost due to O&M or construction activities. IID may not permanently remove more than 100 acres of desert habitat and/or tamarisk scrub habitat over the permit term.

Permit Reference: HCP-DH 5; CESA Permit 4(i)(vi) and MMRP 66, 67, 68

Accomplishments Through FY18: N/A

FY19 Activities: N/A

Proposed FY20 Activities: N/A

Work Task 13: Changes to Operations on IID Canals to Avoid Covered Species

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$0

Description and Purpose: To implement the listed "interim" practices in connection with O&M activities. These measures may be modified during the permit term based upon survey results or adaptive management.

Permit Reference: HCP, Desert 2; CESA Permit, Conditions 4(i)(iii), 4(i)(vii) to (xiv) and MMRP 50,60,62,63,70, 71,76 and 77

Accomplishments Through FY18: No major modifications to operations and maintenance activities.

FY19 Activities: N/A

Proposed FY20 Activities: Assumes no changes to operation activities during FY20. Should changes occur, the HCP Team will work with the Implementation Team to address changes and necessary mitigation measures.

Work Task 14: Burrowing Owl Worker Annual Education and Manual

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$10,411

Description and Purpose: To develop and implement an annual worker education program to ensure workers are familiar with Burrowing Owl mitigation measures. Also to ensure new workers are informed of and understand the HCP requirements. A worker education manual is to be prepared and distributed to each person conducting drain cleaning or canal maintenance procedures and refresher instruction is to be conducted. Copies of the manual are o be provided to USFWS and CDFW and approval of the workers' manual from USFWS and CDFW must be obtained. The IT Biologist will conduct random checks of workers to ensure compliance with the HCP.

Permit Reference: HCP, Owl 1

Accomplishments Through FY18: The Burrowing Owl Worker Education and Manual have been combined with Task 10/10A: Worker Education Program to conduct one annual worker education program. All Water Department O&M and construction workers are trained in January of each year. Zanjeros and

FY19 Activities: N/A

Proposed FY20 Activities: Annual education program rolled into Task 10/10A.

Work Task 15: Pre-Construction Activity Burrowing Owl Surveys and Relocation

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$3,190	\$66	\$14,100	\$923,622

Description and Purpose: To implement the following in connection with construction and O&M activities:

- Conduct visual inspection of banks and indicate location of burrows; avoid collapsing or fillingburrows, exercise care in removing sediment, and avoid moving the excavator bucket directlyover a burrow.
- Develop standard operating procedures through teamwork of IT biologist and maintenanceworkers for drain/canal cleaning.

Permit Reference: HCP-Owl 2-8

Accomplishments Through FY18: Annual inspections of canals and drains prior to all operations and maintenance activities.

FY19 Activities: Purchase of burrowing owl inspection materials.

Proposed FY20 Activities: Pre-inspection activities are conducted by HCP Team members as soon as an operation/maintenance or construction activity is identified. HCP Team member and vehicles are covered under Task 2. Costs to Task 15 include materials and equipment. Assume no more than two burrows needing artificial relocation each year. Adjusted Additional Equipment task to purchases every five years.

Work Task 16: Burrowing Owl Relative Abundance and Distribution Surveys

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$238,730	\$224,314	\$157,000	\$3,039,400

Description and Purpose: To prepare and conduct a study design for a relative abundance and distribution survey of Burrowing Owls (BUOW) in the HCP area; prepare in consultation with a statistician; obtain IT approval of the study design.

Permit Reference: HCP, Owl 7

Accomplishments Through FY18: Population Studies conducted in 2007/2008. Sub-Sampling conducted in 2011/2012. "Efficacy study" on burrowing owl marking protocol in 2015/2016.

FY19 Activities: Burrowing Owl Population Subsampling Year 1 occured April - May 2019.

Proposed FY20 Activities: Burrowing Owl population surveys.

Work Task 17: Farmer and Public Education Program

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$7,090	\$3,200	\$5,000	\$9,568

Description and Purpose: To implement a farmer and public education program on Burrowing Owls; periodically include information on Burrowing Owls in water bills to farmers.

Permit Reference: HCP, Owl 9

Accomplishments Through FY18: Design an ad and public outreach presentations to various groups.

FY19 Activities: Design an ad program carried out.

Proposed FY20 Activities: Public outreach presentations, design an ad, etc.

Work Task 18: Desert Pupfish Abundance and Distribution Study

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$6,200	\$1,000	\$6,000	\$14,291

Description and Purpose: To develop in coordination with the IT a protocol for monitoring pupfish presence in drains currently maintained, and in drain channels constructed, to increase the amount of potential pupfish drain habitat under Pupfish 3.

Permit Reference: HCP, Pupfish 4; In-Valley Biological Opinion, Pupfish CM 3; CESA Permit

Accomplishments Through FY18: Desert pupfish distribution monitoring protocol, purchasing of equipment, and implementation to date.

FY19 Activities: Pupfish surveys to be conducted with CDFW staff.

Proposed FY20 Activities: Pupfish distribution surveys and equipment costs.

Work Task 19/19a: Pupfish Selenium Drain Studies

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$301,410	\$176,440	\$421,000	\$2,017,617

Description and Purpose: To operate and maintain drains in a manner that minimizes the effects of water conservation on water quality. To implement the selenium drain monitoring study. To work together with the IT to determine the best means for managing the drain channels to minimize potential selenium effects on pupfish, based upon the findings of studies conducted by USFWS or others and continue funding of the Selenium Toxicity Study.

Permit Reference: HCP-Pupfish 4; CESA Permit Conditions 4(j)(ii), 4(j)(vi), 4(j)(vii), 4(j)(x); MMRP 80, 81, 87, 94; In-Valley Biological Opinion,; SWRCB Order

Accomplishments Through FY18: USGS Selenium Study completed in 2009. Recommendations from USGS study used to create Selenium Work Plan for the RWQCB Ag Waiver completed.

FY19 Activities: Equipment purchases made for selenium study. Service Agreement with Wood Environmental for selenium analysis.

Proposed FY20 Activities: Selenium analysis within IID drains, equipment costs, and data analysis.

Work Task 20: Pupfish Construction and Maintenance Conservation Measures

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$834,300	\$107,325	\$933,000	\$48,885

Description and Purpose: To implement the listed measures in connection with construction activities (i.e., in-channel modifications) that directly affect pupfish drains and require dewatering or removal of drain sections.

Permit Reference: HCP-Pupfish 6; CESA Permit MMRP 80, 86, 89, 90, 94, 95, 96, 97; In-Valley Biological Opinion

Accomplishments Through FY18: Any required drain maintenance activities have been consulted with CDFW. Pupfish trapping occured five consecutive days with no pupfish caught before work has started.

FY19 Activities: Engineer working on draft drain interconnection plan and meetings with agency staff.

LiDAR acquisition purchased for south end of the Salton Sea for topography and use by engineering for design.

Proposed FY20 Activities: Pupfish drain interconnection of five drains and operations and maintenance.

Work Task 21: Salvage of Razorback Suckers when Dewatering Canals

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$9,534

Description and Purpose: The IT will develop a procedure for salvaging and returning fish to the Colorado River and ensure that a person qualified to capture and handle razorback suckers, and approved by USFWS and CDFW, will be present during dewatering of main canals or reservoirs.

Permit Reference: HCP-Razorback Sucker 1; CESA Permit 4(k)(i) and MMRP 99

Accomplishments Through FY18: No relocation efforts have been conducted to date.

FY19 Activities: N/A

Proposed FY20 Activities: Should Razorback Suckers be found in a canal or reservoir, and need returning to the Colorado River, the HCP Team and IID Biological Control will conduct relocation efforts. The budget includes assumed costs for four Biological Control Hatchery Workers fo

Work Task 22: Maintain Habitat on Fallowed Parcels

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$0

Description and Purpose: N/A

Permit Reference: N/A

Accomplishments Through FY18: Task has no value. Fallowed parcels are privately owned with residual cover from previous crops. Fallowed parcels are scattered around the valley, so no one area has had a significant percentage of fallowed lands.

FY19 Activities: N/A. Fallowing is no longer conducted as a conservation measure post 2017.

Proposed FY20 Activities: N/A. Fallowing is no longer conducted as a conservation measure post 2017.

Work Task 23: Covered Species Baseline and Monitoring Surveys

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$163,770	\$0	\$316,000	\$5,395,188

Description and Purpose: To work with the IT to define specific surveys and studies to be conducted as part of a study program for the "Other Species" listed in Table 3.9-1 of the HCP within the HCP area. The use of created or acquired native tree habitat is to be monitored. A baseline desert survey will be conducted.

Permit Reference: HCP-OTHER Species 1 and 2; CESA Permit 4(i)(v) and MMRP 35, 48, 64, 65; HCP; CESA Permit 4(i)(v) and MMRP 64; HCP DH 2, DH3, DH4

Accomplishments Through FY18: Baseline survey of covered species completed in 2009. Imagery purchased for Imperial Valley Agricultural area. Annual marsh bird protocol surveys and Southwest Willow Flycatcher surveys conducted.

FY19 Activities: Marsh bird and southwestern willow flycatcher surveys by HCP team.

Proposed FY20 Activities: Covered species surveys.

Work Task 24: Salton Sea Air Quality

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$6,199,070	\$3,997,334	\$7,065,000	\$14,346,347

Description and Purpose: Continue implementation of the 4-step air quality plan: (1) Restrict Access, (2) Research and Monitoring, (3) Emission Reduction Credits, (4) Direct Emissions Reductions.

Permit Reference: SWRCB-8; EIR/EIS STEP 2, AQPLAN-AQ 7

Accomplishments Through FY18: Emissions Inventory and Monitoring Program, Air Quality Plan Development, Air Station Network, and Data Validation. Air Quality Pilot Projects carried out - Surfactant Project, Alamo River North, and Emissions Inventory. Air Quality Plan developed in July

FY19 Activities: Annual emissions inventory, Air Quality network operations & maintenance, proactive dust control planning, groundwater development, air quality mitigation planning, restricted access, shallow tile install, and Sephton Water Tech project.

Proposed FY20 Activities: Annual emissions inventory, air quality network operations & maintenance, proactive dust control planning, groundwater development, air quality mitigation planning, restricted access, and shallow tile install.

Task 24 – Air Quality	Activity Description	2020 Budget
Annual Emissions Estimate	Develop fiscal year annual emissions estimate: map playa exposure, monitor playa characteristics, PISWERL, estimate annual emissions, and identify areas for proactive dust control projects.	\$1,180,000
AQ Network Operations & Maintenance	O&M for 6 Air Quality stations, O&M for portable MET/camera stations, and O&M for Roundshot camera network.	\$832,320
Proactive Dust Control Projects - Planning, Characterization & Design	Planning and design specs for proactive dust control projects.	\$545,900
Proactive Dust Control Projects - Implementation & Construction	Implementation of construction for projects using as-needed ag services contracts. Four planned project areas.	\$450,000
Proactive Dust Control Projects - Performance Monitoring & Reporting	Monitoring of proactive dust control projects.	\$675,000
Stakeholder Support	Coordination with ICAPCD, SCAQMD, CARB, and other agencies.	
Groundwater Resource Development - Groundwater Test Well	Installation of groundwater test well at Tule Wash and Clubhouse for future pilot study if production wells are feasible.	
Groundwater Resource Development - Shallow Groundwater Monitoring	Maintain and expand access tube transects at locations around Salton Sea. Analyze shallow groundwater changes around the Salton Sea.	\$267,800
AQ Mitigation Planning	Collect soil cores on current and future exposed playa to estimate emissions potential for future playa. Prioritize areas that will need dust control based on soil conditions and anticipated emissions potential. Focusing on playa from 2017 to 2028.	\$755,000
Restrict Access	Restrict public access on playa using signs, gates, and partially funding Imperial County Sheriffs for high traffic weekends to issue tickets.	\$206,000
Shallow Tile Installation	Installation of shallow tile for agricultural reclamation on a small plot on the south end of the Salton Sea.	\$66,950
As Needed Technical & Field Services	Unanticipated support from outside services, may include: regulatory support, field monitoring, and instrumentation replacement.	\$300,000
Total Estimated Budget		\$6,199,070

Work Task 25: Minimize Dust Emissions from Fallowed Lands

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$57,775

Description and Purpose: To implement at least one of the Best Management Practices ("BMPs") to minimize PM10 emissions prior to and after fallowing.

Permit Reference: SWRCB-8; EIR/EIS-AQ 3

Accomplishments Through FY18: Fallowed fields are required to have a crop left in place for dust mitigation at the owners expense. No cost to the JPA.

FY19 Activities: N/A

Work Task 26: Drain Connectivity to Salton Sea Elevation Decrease

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$0

Description and Purpose: To ensure an appropriate level of connectivity between pupfish populations within individual drains that connect to the Sea and are below the first check (at the north and south ends of the Sea) if Salton Sea conditions become unsuitable for pupfish. To maintain created pupfish habitats for the duration of the term of the take permits.

Permit Reference: HCP-SS 2; In-Valley Biological Opinion; CESA Permit MMRP 79, 80

Accomplishments Through FY18: Drain connectivity for pupfish due to salinity levels is included in Task 20.

FY19 Activities: Included in Task 20.

Work Task 27: Grade Spoil/Roads from Drain Maintenance

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$0

Description and Purpose: When grading spoils from drain or canal cleaning, the soil to be graded will first be rolled away from the channel and broken up into small clods and slowly rolled back towards the channel. Care will be taken to not roll the soil back down the slope.

Permit Reference: Owl-3, HCP

Accomplishments Through FY18: IID protocols for drain and canal cleaning include spoil to be graded away from the channel. Costs for burrowing owl marking included in Task 15.

FY19 Activities: Included in Task 15.

Work Task 28: Power Line Markers for Pumpback and Seepage Recovery Systems

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$1,960

Description and Purpose: To install markers in accordance with industry standards in order to reduce bird strikes and to alert birds to the presence of the lines if IID builds additional power lines to provide power to pumps for tailwater return systems. If additional lines are erected, submit a report to USFWS and CDFW.

Permit Reference: HCP-AG 1; CESA Permit MMRP 55, 57

Accomplishments Through FY18: N/A

FY19 Activities: N/A

Work Task 29: Prepare and Implement Management Plan for Abandoned Portions of AAC

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$0

Description and Purpose: To prepare and implement a Management Plan for abandoned portions of AAC.

Permit Reference: CESA Permit MMRP 78

Accomplishments Through FY18: N/A

FY19 Activities: N/A

Work Task 30: Southwestern Willow Flycatcher Surveys and Habitat Monitoring

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$62,938

Description and Purpose: To carry out Southwestern Willow Flycatcher Surveys.

Permit Reference: CESA Permit 4(f) and MMRP 41, 42; HCP; In-Valley Biological Opinion, Willow Flycatcher Measures

Accomplishments Through FY18: Included in Task 23.

FY19 Activities: Included in Task 23.

Work Task 31: Elf Owl Surveys

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$0

Description and Purpose: To carry out pre-construction surveys of potential habitat with a 0.25 mile radius for nesting owls.

Permit Reference: CESA Permit 4(f)(ix) and MMRP 44

Accomplishments Through FY18: Included in Task 23.

FY19 Activities: Included in Task 23.

Work Task 32: Desert Tortoise Survey and Avoidance

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$0

Description and Purpose: To carry out pre-construction surveys and avoidance or minimization.

Permit Reference: CESA Permit 4(i) and MMRP 71 to 75; HCP DH 2 and DH 3

Accomplishments Through FY18: Included in Task 23.

FY19 Activities: Included in Task 23.

Work Task 33: Least Tern Surveys

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$0

Description and Purpose: Permitee is to use fencing or other techniques to protect nesting terns if least terns begin nesting at the Salton Sea.

Permit Reference: CESA Permit 4(e) and MMRP 20

Accomplishments Through FY18: Included in Task 23.

FY19 Activities: Included in Task 23.

Work Task 34: Rail and Bittern Surveys

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$0

Description and Purpose: To carry out Managed Marsh monitoring and initial baseline monitoring of suitable agricultural drain habitat.

Permit Reference: CESA Permit 4(g) and MMRPs 51, 52, 54; In-Valley Biological Opinion, Rail Measures; HCP

Accomplishments Through FY18: Included in Task 23.

FY19 Activities: Included in Task 23.

Work Task 35: Management and Planning

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$12,360	\$12,000	\$12,000	\$336,979

Description and Purpose: Management and Planning.

Permit Reference: N/A

Accomplishments Through FY18: Costs for monthly accounting, invoicing, and budget development.

FY19 Activities: Costs for monthly accounting, invoicing, and budget development.

Proposed FY20 Activities: Costs for monthly accounting, invoicing, and budget development.

Work Task 36: JPA Audit Fees

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$10,660	\$10,350	\$10,350	\$137,278

Description and Purpose: To pay for JPA audit fees.

Permit Reference: N/A

Accomplishments Through FY18: Costs for JPA Auditor.

FY19 Activities: Costs for JPA Auditor.

Proposed FY20 Activities: Costs for JPA Auditor.

Work Task 37: JPA Bank Fees

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$1,650	\$1,600	\$1,600	\$25,659

Description and Purpose: To pay for JPA bank fees.

Permit Reference: N/A

Accomplishments Through FY18: Costs for JPA Bank Fees.

FY19 Activities: Costs for JPA Bank Fees.

Proposed FY20 Activities: Costs for JPA Bank Fees.

Work Task 38: Financial Advisor

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$29,497

Description and Purpose: To pay for financial advisor services.

Permit Reference: N/A

Accomplishments Through FY18: In FY07, the QSA JPA hired First Southwest Company as a financial advisor tasked with analyzing projected expenditures and existing payment schedules to develop options for an upcoming deficit. This led to the 2007 Advanced Payment Agreement.

FY19 Activities: N/A

Work Task 39: Bond Counsel Fees

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$25,000

Description and Purpose: To pay for bond counsel fees.

Permit Reference: N/A

Accomplishments Through FY18: In FY07, the QSA JPA hired Orrick, Herrington and Sutcliffe to advise on the potential issuance of bonds.

FY19 Activities: N/A

Work Task 40: 2001 Biological Opinion Measures

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$3,349,126

Description and Purpose: Bureau of Reclamation implementation of "on-river" measures including backwater marsh creation, razorback sucker stocking, willow flycatcher habitat, and bonytail chub rearing. Costs for this Task have been credited to the Water Authority.

Permit Reference: 2001 LCR BO; CESA

Accomplishments Through FY18: Section 9.5 of the JPA Agreement provides for a \$3.118 million credit to the Water Authority for certain on-river mitigation activities that are implemented by the Bureau of Reclamation (BOR). Specifically, the language states "SDCWA shall receive credit.

FY19 Activities: N/A

Work Task 41: Brown Pelican Coast

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$0

Description and Purpose: To construct, maintain, and monitor major coastal roost sites in San Diego Bay and Santa Barbara Harbor.

Permit Reference: CESA 4(d); 2002 In-Valley BO BP CM-1

Accomplishments Through FY18: N/A

FY19 Activities: N/A

Work Task 42: Brown Pelican Sea

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$0

Description and Purpose: To deliver mitigation water to Salton Sea until 2017 (2030 per HCP) to stabilize elevation and moderate salinity.

Permit Reference: CESA 3(c); 2002 In-Valley BO BP CM-1; HCP SS-1

Accomplishments Through FY18: N/A

FY19 Activities: N/A

Work Task 43: Salton Sea Shoreline Strand Study

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$10,000	\$0

Description and Purpose: To survey for and mitigate, if required, impacts to tamarisk scrub upon completion of SS mitigation deliveries.

Permit Reference: HCP SS-3; HCP 4(f)

Accomplishments Through FY18: N/A

FY19 Activities: Shoreline strand imagery. Purchased through LiDAR acquisition for desert

pupfish.

Proposed FY20 Activities: Shoreline strand surveys.

Work Task 44: Pupfish Refugium

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$31,000	\$700	\$30,600	\$60,641

Description and Purpose: To construct and maintain one refugium pond.

Permit Reference: HCP SS-2; 2002 In-Valley BO DP CM-1; CESA 4(j)

Accomplishments Through FY18: Pupfish refugium built in 2010 and stocked in 2016.

FY19 Activities: Pupfish refugium operations and maintenance.

Proposed FY20 Activities: Pupfish refugium operations and maintenance.

Work Task 45: Recreation Facilities at Salton Sea

PROPOSED	PROJECTED	BUDGETED	SPENT THROUGH
FY 2020	FY 2019	FY 2019	FY 2018
\$0	\$0	\$0	\$18,692

Description and Purpose: To relocate boat launch site and/or maintain boat launch connection to Salton Sea.

Permit Reference: SWRCB Order Measure R-7; 2002 EIS/EIR Measure R-7

Accomplishments Through FY18: Inventory of recreational facilities around the Salton Sea.

FY19 Activities: Cleaning of the harbor at the Salton Sea.