

FY
2021

QSA JPA
Fiscal Year 2021
Budget & Work Plan
Adopted June 9, 2020

Quantification Settlement Agreement Joint Powers Authority

4677 Overland Avenue, San Diego, CA 92123



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QSA JPA FISCAL YEAR 2021 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.

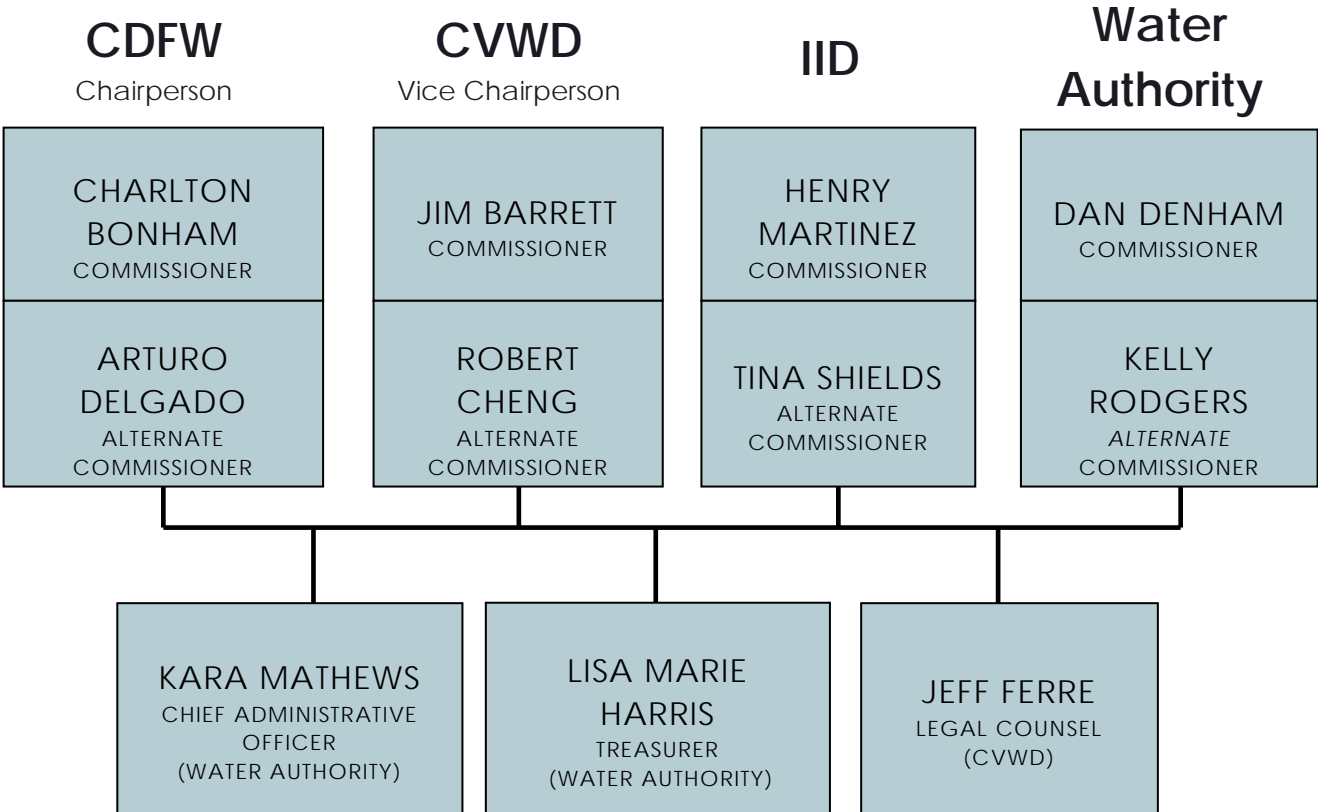


Figure 1. QSA JPA Organization Chart

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 2019 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

Year	CVWD		IID		WATER AUTHORITY		TOTAL PAYMENTS	
	Due 12/31	Due 7/1	Due 12/31	Due 7/1	Due 12/31	Due 7/1	Calendar Year	Fiscal Year
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	\$9,593,182	\$0	\$76,733,154	\$3,325,000	\$9,985,034	\$850,000	\$100,486,371	\$110,315,384

SECTION 3: REVIEW OF ACTIVITIES IN FY 2020 AND FY 2019

On June 13, 2019, the QSA JPA Commission adopted the FY 2020 budget in the amount of \$15,006,927. On April 8, 2020, the QSA JPA Commission amended the FY 2020 budget to increase the total budget to \$22,050,577. The single budget amendment in FY 2020 increased the original adopted budget by \$7,043,650 for Salton Sea mitigation water predelivery payback (Task 5). Table 2 shows the FY 2020 budgeted and projected spending by mitigation task, based on approved invoice totals to date and remaining fiscal year projections by IID. Major expenses in the FY 2020 budget include Salton Sea mitigation water predelivery payback (Task 5), implementing the Salton Sea air quality mitigation program (Task 24), the managed marsh habitat (Task 8), and the QSA IT biologists (Task 2). Two task items are projected to be over budget: Task 8 – managed marsh, and Task 42 – Brown Pelican (Sea), and the additional expenditures were covered by savings from other tasks.

Table 2. Detailed FY 2020 Expenditures

TASK	TASK DESCRIPTION	PROJECTED FY-2020	AMENDED BUDGET FY-2020	BUDGET SAVINGS
2	QSA Implementation Team Biologists	\$ 1,192,600	\$ 1,192,600	\$ -
3	Environmental Reporting and Monitoring	\$ 530	\$ 530	\$ -
4	Salton Sea Salinity and Elevation Program	\$ 16,020	\$ 16,020	\$ -
5	Salton Sea Mitigation Water	\$ 7,043,650	\$ 7,043,650	\$ -
6	Tamarisk Scrub Habitat - Surveys and Mitigation	\$ 6,000	\$ 70,620	\$ 64,620
8	Drain Habitat (Aquatic) – Create, Manage, Monitor "Managed Marsh"	\$ 7,276,880	\$ 5,884,147	\$ (1,392,733)
10/10A	Worker Education Program Covered Species Training and Manual	\$ -	\$ 620	\$ 620
11	Desert Habitat Survey and Mapping of Right of Way	\$ -	\$ 32,960	\$ 32,960
15	Pre-Construction Activity Burrowing Owl Surveys and Relocation	\$ -	\$ 3,190	\$ 3,190
16	Burrowing Owl Relative Abundance and Distribution Surveys	\$ 238,730	\$ 238,730	\$ -
17	Farmer and Public Education Program	\$ 5,000	\$ 7,090	\$ 2,090
18	Desert Pupfish Abundance and Distribution Study	\$ 500	\$ 6,200	\$ 5,700
19/19A	Pupfish Selenium Drain Studies	\$ 301,410	\$ 301,410	\$ -
20	Pupfish Construction and Maintenance Conservation Measures	\$ 5,000	\$ 834,300	\$ 829,300
23	Covered Species Baseline & Monitoring Surveys	\$ 10,000	\$ 163,770	\$ 153,770
24	Salton Sea Air Quality	\$ 4,000,000	\$ 6,199,070	\$ 2,199,070
35	Management and Planning	\$ 12,360	\$ 12,360	\$ -
36	JPA Audit Fees	\$ 10,350	\$ 10,660	\$ 310
37	JPA Bank Fees	\$ 1,024	\$ 1,650	\$ 626
42	Brown Pelican - Sea	\$ 1,000	\$ -	\$ (1,000)
44	Pupfish Refugium	\$ 31,000	\$ 31,000	\$ -
	Total	\$ 20,152,054	\$22,050,577	\$ 1,898,523

The projected budget savings and delayed expenditures for FY 2020 of \$1,898,523 is mostly due to the deferral of items under the air quality mitigation program (Task 24), and postponement of pupfish conservation measures (Task 20). Table 3 summarizes the FY 2020 budget projections.

Table 3. FY 2020 Budget Summary

AMENDED FY 2020 BUDGET	PROJECTED FY 2020 EXPENDITURES	PROJECTED FY 2020 SAVINGS/DELAYS
\$ 22,050,577	\$ 20,152,054	\$ 1,898,523

On January 13, 2020 the QSA JPA Commission accepted an audit of its basic financial statements by Davis Farr Certified Public Accountants for fiscal years ending June 30, 2019 and 2018. Audited FY 2019 environmental mitigation expenditures totaled \$7,584,446. Based upon the audited cash balance of \$36,663,860 at the end of FY 2019, FY 2020 projected agency contributions and interest earnings of \$10,729,013, and projected FY 2020 budget spending of \$20,152,054, the QSA JPA expects to have a positive cash balance of \$27,240,819 at the end of FY 2020 (Table 4).

Table 4. FY 2020 Projected Fund Balance

DESCRIPTION		CASH FLOW
FY 2019 Audited Fund Balance (6-30-19)		\$36,663,860
Sources	Mitigation Contributions	\$9,829,013
	Interest Income	\$900,000
		\$10,729,013
Uses	Environmental Mitigation	(\$20,152,054)
FY 2020 Projected Fund Balance (6-30-20)		\$27,240,819

SECTION 4: FY 2021 BUDGET

The FY 2020 budget provides projected revenues of \$10,729,013 to meet anticipated expenditures from July 1, 2019 through June 30, 2020 of \$20,152,054, resulting in a net loss of \$9,423,041 from the previous fiscal year. FY 2021 will begin with the projected year-end FY 2020 fund balance of \$27,240,819.

Information summarizing the FY 2021 budget is presented in Tables 5 and 6. Table 5 provides the agency contributions scheduled for FY 2021 per the 2015 Advanced Funding Agreement, as well as funding contributions by agency through FY 2020. Revenue sources for FY 2021 include funding contributions of \$7,191,051 from the water agencies and interest income estimated at \$900,000.

Table 5. Summary of Mitigation Contributions by Water Agency

AGENCY	CONTRIBUTIONS THROUGH FY 2020	FY 2021 CONTRIBUTIONS
CVWD	\$57,332,760	\$ 738,869
IID	\$46,663,462	\$ 4,551,346
Water Authority ¹	\$80,202,826	\$ 1,900,836
Total Agency Contributions	\$184,199,048	\$ 7,191,051

Projected spending in FY 2021 is \$14,994,760 for environmental mitigation, shown by mitigation task in Table 7. Based upon the projected cash balance of \$27,240,819 at the end of FY 2020, FY 2021 combined sources of \$8,091,051, and projected FY 2021 budget spending of \$14,994,760, the QSA JPA expects to have a positive cash balance of \$20,337,110 at the end of FY 2021 (Table 6). Projected uses exceed sources indicating a decrease of \$6,903,709 in cash reserves for FY 2021.

Table 6. FY 2021 Projected Fund Balance

DESCRIPTION		CASH FLOW	
FY 2020 Projected Cash Balance (6-30-20)		\$27,240,819	
Sources	Mitigation Contributions	\$7,191,051	\$8,091,051
	Interest Income	\$900,000	
Uses	Environmental Mitigation	(\$14,994,760)	
FY 2021 Projected Cash Balance (6-30-21)		\$20,337,110	

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 2021 Expenditures

TASK	TASK DESCRIPTION	FY 2021 BUDGET
1	QSA Implementation Team	\$ 0
2	QSA Implementation Team Biologists	\$ 1,093,590
3	Environmental Reporting and Monitoring	\$ 540
4	Salton Sea Salinity and Elevation Program	\$ 16,330
5	Salton Sea Mitigation Water to Salton Sea	\$ 0
6	Tamarisk Scrub Habitat - Surveys and Mitigation	\$ 72,740
7	Drain Habitat - Initial Vegetation and Habitat Surveys	\$ 0
8	Drain Habitat (Aquatic) - Create/Manage/Monitor "Managed Marsh" Areas	\$ 4,860,210
9	Drain Habitat Restrictions/Requirements for Construction and Maintenance	\$ 0
10/10a	Worker Education Program Covered Species Training and Manual	\$ 640
11	Desert Habitat Survey and Mapping of Right of Way	\$ 33,950
12	Desert Habitat Create/Maintain Desert Habitat	\$ 0
13	Changes to Operations on IID Canals to Avoid Covered Species	\$ 0
14	Burrowing Owl Worker Annual Education and Manual	\$ 0
15	Pre-Construction Activity Burrowing Owl Surveys and Relocation	\$ 3,290
16	Burrowing Owl Relative Abundance and Distribution Surveys	\$ 245,890
17	Farmer and Public Education Program	\$ 7,300
18	Desert Pupfish Abundance and Distribution Study	\$ 6,400
19/19A	Pupfish Selenium Drain Studies	\$ 310,450
20	Pupfish Construction and Maintenance Conservation Measures	\$ 253,390
21	Salvage of Razorback Suckers when Dewatering Canals	\$ 0
22	Maintain Habitat on Fallowed Parcels	\$ 0
23	Covered Species Baseline and Monitoring Surveys	\$ 171,870
24	Salton Sea Air Quality	\$ 7,785,200
25	Minimize Dust Emissions from Fallowed Lands	\$ 0
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	\$ 0
29	Prepare and Implement Management Plan for Abandoned Portions of AAC	\$ 0
30	Southwestern Willow Flycatcher Surveys and Habitat Monitoring	\$ 0
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	\$ 12,730
36	JPA Audit Fees	\$ 10,770
37	JPA Bank Fees	\$ 3,000
38	Financial Advisor	\$ 16,000
39	Bond Counsel Fees	\$ 0
40	2001 Biological Opinion Measures	\$ 0
41	Brown Pelican Coast	\$ 0
42	Brown Pelican Sea	\$ 58,540
43	Salton Sea Shoreline Strand Study	\$ 0
44	Pupfish Refugium	\$ 31,930
45	Recreation Facilities at Salton Sea	\$ 0
Total		\$ 14,994,760

SECTION 5: FY 2021 WORK PLAN

The FY 2021 budget totaling \$14,994,760 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 2021 are shown in Table 8 and include: the biologist team (Task 2), the Managed Marsh (Task 8), and Salton Sea air quality mitigation (Task 24).

Table 8. Major Expenditures in FY 2021

TASK	TASK DESCRIPTION	FY 2020 BUDGET	PERCENT OF TOTAL BUDGET
2	QSA Implementation Team Biologists	\$ 1,093,590	7%
8	Drain Habitat (Aquatic) – Create, Manage, Monitor "Managed Marsh" Areas	\$ 4,860,210	32%
24	Salton Sea Air Quality	\$ 7,785,200	52%
--	Other Tasks	\$ 1,255,760	8%
Total		\$ 14,994,760	100%

Implementation of the Air Quality Mitigation Program (AQMP) (Task 24) is the largest budgeted expenditure for FY 2021 totaling \$7,785,200 or 52 percent of the total FY 2021 budget. Air quality mitigation includes Salton Sea playa monitoring and modeling, emissions inventory, air station monitoring network, and proactive dust control projects.

The Managed Marsh complex (Task 8) is the second largest budgeted expenditure totaling \$4,860,210 or 32 percent of the total FY 2021 budget. Expenditures for FY 2021 include operations and maintenance of the existing marsh (Phase I and Phase II); and construction, planting, and operations and maintenance of Phase III. There is an analysis underway of options for pricing and purchase of the Managed Marsh complex land (owned by IID) that is expected to be brought to the Commission for review in FY 2021.

The QSA IT Biologists (Task 2) makes up \$1,093,590 or 7 percent of the total budget. This item includes funding for eight full time staff and expenses for their fleet of vehicles.

Wildlife and habitat studies, monitoring, and education and outreach make up the remaining 8 percent of the FY 2021 expenditures totaling \$1,255,760.

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. The FY 2020 amended budget included funding to reimburse IID to resolve an outstanding issue with the U.S. Bureau of Reclamation (Reclamation) regarding Colorado River water IID pre-delivered to the Salton Sea in 2010 for subsequent years (2011 and 2012) mitigation purposes. IID's 2010 action, using non-conserved water to satisfy mitigation obligations, resulted in a cost savings to the QSA JPA, however resolution of this issue required IID to restore a like volume of conserved water to Lake Mead. IID submitted its proposal to restore conserved water to Lake Mead in a December 18,

2019 revision to its water order, which was approved by Reclamation on March 10, 2020 and is documented in the 2019 Colorado River Decree Accounting Report. Upon verification by Reclamation of this conservation, IID submitted an invoice for \$7,043,650, the balance of the Salton Sea mitigation water funding. The total expenditures over the impacted budget cycles of the pre-delivery water are equal to the original estimated savings, resulting in no net financial impact to the QSA JPA.

The budget also includes reimbursements to the Water Authority for designated financial costs such as bank fees, audit fees, and financial consultants. In FY 2020, the QSA JPA hired Chandler Asset Management to implement an investment strategy for QSA JPA funding reserves. Projected fees associated with the investment contract are included in Task 38.

Audited historical spending by task is included as Appendix 1. Detailed summaries for individual mitigation measures by task including mitigation requirements; historical spending; a detailed breakdown of FY 2021 expenditures; and planned and completed work are included in Appendix 2. Information on the status of each task including which tasks have been completed can be found in Appendix 3.

Appendix 1 – Audited Historical QSA JPA Spending, FY 2004 - FY 2019

Task	Task Description	Total FY 2004-2019	FY 2019	FY 2018	FY 2017	FY 2016	FY 2015	FY 2014	FY 2013	FY 2012	FY 2011	FY 2004-2010
1	QSA Implementation Team	\$383,879								\$1,440	\$1,512	\$380,927
2	QSA Implementation Team Biologists	\$6,793,294	\$1,081,358	\$1,026,602	\$769,055	\$613,942	\$505,547	\$536,389	\$490,019	\$516,993	\$219,985	\$1,033,404
3	Environmental Reporting and Monitoring	\$82,458	\$0									\$82,458
4	Salton Sea Salinity and Elevation Program	\$17,484	\$4,895	\$7,100								\$5,489
5	Salton Sea Mitigation Water to Salton Sea	\$89,622,523	\$34,142	\$9,851,798	\$18,412,449	\$17,483,767	\$11,607,035	\$10,580,006	\$3,834,494	\$300,000	\$4,053,901	\$13,464,931
6	Tamarisk Scrub Habitat - Surveys and Mitigation	\$9,548										\$9,548
7	Drain Habitat - Initial Vegetation and Habitat Surveys	\$209,123										\$209,123
8	Drain Habitat (Aquatic) - Create/Manage/Monitor "Managed Marsh" Areas	\$11,776,720	\$1,911,610	\$439,409	\$297,032	\$389,963	\$2,787,567	\$390,935	\$205,940	\$249,921	\$343,918	\$4,760,425
9	Drain Habitat Restrictions/Requirements for Construction and Maintenance	\$8,473										\$8,473
10/ 10a	Worker Education Program Covered Species Training and Manual	\$35,302										\$35,302
11	Desert Habitat Survey and Mapping of Right of Way	\$379,191										\$379,191
12	Desert Habitat Create/Maintain Desert Habitat	\$17,300										\$17,300

Appendix 1 – Audited Historical QSA JPA Spending, FY 2004 - FY 2019

Task	Task Description	Total FY 2004-2019	FY 2019	FY 2018	FY 2017	FY 2016	FY 2015	FY 2014	FY 2013	FY 2012	FY 2011	FY 2004-2010
13	Changes to Operations on IID Canals to Avoid Covered Species	\$0										\$0
14	Burrowing Owl Worker Annual Education and Manual	\$10,411										\$10,411
15	Pre-Construction Activity Burrowing Owl Surveys and Relocation	\$923,622		\$7,164	\$1,540	\$6,765		\$4,020	\$756	\$35	\$173,309	\$730,033
16	Burrowing Owl Relative Abundance and Distribution Surveys	\$3,263,714	\$224,314		\$20,000	\$59,509	\$28,172	\$13,145	\$35,072	\$245,285	\$124,438	\$2,513,779
17	Farmer and Public Education Program	\$11,718	\$2,150	\$1,600	\$935	\$1,416	\$1,435	\$2,876	\$260		\$499	\$547
18	Desert Pupfish Abundance and Distribution Study	\$14,407	\$116	\$8		\$24		\$14			\$767	\$13,478
19/ 19A	Pupfish Selenium Drain Studies	\$2,175,595	\$157,978	\$36,468	\$66,650		\$1,482			\$14,333	\$261,123	\$1,637,561
20	Pupfish Construction and Maintenance Conservation Measures	\$172,990	\$124,105	\$11,653	\$504					\$5,800	\$22,778	\$8,150
21	Salvage of Razorback Suckers when Dewatering Canals	\$9,534										\$9,534
22	Maintain Habitat on Fallowed Parcels	\$0										\$0
23	Covered Species Baseline and Monitoring Surveys ²	\$5,395,188		\$800	\$947	\$17,000	\$62	\$151	\$53,333	\$90,752	\$158,917	\$5,073,226
24	Salton Sea Air Quality	\$18,371,285	\$4,024,938	\$3,483,968	\$3,809,309	\$2,797,387	\$601,399	\$348,604	\$286,877	\$344,955	\$506,207	\$2,167,641

² Includes Avian Studies from FY 2006, 2007, and 2008.

Appendix 1 – Audited Historical QSA JPA Spending, FY 2004 - FY 2019

Task	Task Description	Total FY 2004-2019	FY 2019	FY 2018	FY 2017	FY 2016	FY 2015	FY 2014	FY 2013	FY 2012	FY 2011	FY 2004-2010
25	Minimize Dust Emissions from Fallowed Lands	\$57,775										\$57,775
26	Drain Connectivity to Salton Sea Elevation Decrease	\$0										\$0
27	Grade Spoil/Roads from Drain Maintenance	\$0										\$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										\$0
30	Southwestern Willow Flycatcher Surveys and Habitat Monitoring ³	\$62,938										\$62,938
31	Elf Owl Surveys	\$0										\$0
32	Desert Tortoise Survey and Avoidance	\$0										\$0
33	Least Tern Surveys	\$0										\$0
34	Rail and Bittern Surveys	\$0										\$0
35	Management and Planning	\$336,979		\$1,367	\$9,354	\$4,190	\$3,229	\$3,950	\$4,618	\$5,713	\$5,442	\$299,116

³ Includes Task 46 from previous years.

Appendix 1 – Audited Historical QSA JPA Spending, FY 2004 - FY 2019

Task	Task Description	Total FY 2004-2019	FY 2019	FY 2018	FY 2017	FY 2016	FY 2015	FY 2014	FY 2013	FY 2012	FY 2011	FY 2004-2010
36	JPA Audit Fees	\$147,628	\$10,350	\$10,350	\$10,350	\$12,147	\$11,911	\$11,680	\$11,452	\$11,230	\$8,405	\$49,753
37	JPA Bank Fees	\$27,064	\$1,405	\$1,526	\$1,584	\$1,609	\$1,678	\$1,603	\$1,708	\$3,200	\$2,023	\$10,728
38	Financial Advisor	\$29,497										\$29,497
39	Bond Counsel Fees	\$25,000										\$25,000
40	2001 Biological Opinion Measures	\$3,349,126										\$3,349,126
41	Brown Pelican Coast	\$0										\$0
42	Brown Pelican Sea	\$0										\$0
43	Salton Sea Shoreline Strand Study	\$0										\$0
44	Pupfish Refugium	\$63,815	\$3,174			\$1,840	\$21,284				\$1,407	\$36,110
45	Recreation Facilities at Salton Sea	\$22,603	\$3,911	\$10,999	\$6,565		\$1,128					\$0
Total		\$143,808,144	\$7,584,446	\$14,890,812	\$23,406,274	\$21,389,559	\$15,571,929	\$11,893,373	\$4,924,529	\$1,789,657	\$5,884,631	\$36,472,934
Biological Opinion Measures Credited to Water Authority		\$3,349,126										\$3,349,126
Total JPA Expenditures		\$140,459,018	\$7,584,446	\$14,890,812	\$23,406,274	\$21,389,559	\$15,571,929	\$11,893,373	\$4,924,529	\$1,789,657	\$5,884,631	\$33,123,808

Work Task 1: QSA Implementation Team

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: Quarterly implementation team meetings and FY 2020 budget review.

FY20 Activities: Quarterly implementation team meetings.

Proposed FY21 Activities: Quarterly implementation team meetings.

Work Task 2: QSA Implementation Team Biologists

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$1,093,590	\$1,192,600	\$1,192,600	\$6,793,294

Description and Purpose: Salary and expenses for IT Biologists.

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

Accomplishments Through FY19: Environmental Mitigation Staff.

FY20 Activities: Environmental Mitigation Staff.

Proposed FY21 Activities: Environmental Mitigation Staff.

Work Task 3: Environmental Reporting and Monitoring

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$540	\$530	\$530	\$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 FY19: Annual report sent by March 31st of each year for the previous calendar year.

FY20 Activities: Printing and shipping costs for annual reports.

Proposed FY21 Activities: Printing and shipping costs for annual reports.

Work Task 4: Salton Sea Salinity and Elevation Program

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$16,330	\$16,020	\$16,020	\$17,484

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 FY19: Annual selenium monitoring.

FY20 Activities: Selenium analysis at the Salton Sea.

Proposed FY21 Activities: Selenium analysis at the Salton Sea.

Work Task 5: Salton Sea Mitigation Water to Salton Sea

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$0	\$7,043,650	\$7,043,650	\$89,622,523

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 MMRP 13

Accomplishments Through FY19: Delivered mitigation water to the Salton Sea.

FY20 Activities: Delivered 46,546 AF of mitigation water to the Salton Sea to resolve 2010 pre-delivery payback.

Proposed FY21 Activities: N/A

Work Task 6: Tamarisk Scrub Habitat - Surveys and Mitigation

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$72,740	\$6,000	\$70,620	\$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 FY19: Managed Marsh Complex native tree habitat in buffer zones installed.

FY20 Activities: Operation and maintenance of native tree habitat.

Proposed FY21 Activities: Operation and maintenance of native tree habitat.

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

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: Baseline drain.

FY20 Activities: N/A

Proposed FY21 Activities: N/A

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

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$4,860,210	\$7,276,880	\$5,884,147	\$11,776,720

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 FY19: Phase 1 built in 2009 - 365 acres. Phase 2 built in 2014 - 360 acres. Phase 3 design and construction. Buffer zones double as native tree habitat for construction projects.

FY20 Activities: Operation & Maintenance of Phase I and II of Managed Marsh Complex conducted. Phase III Design and Construction to be carried out.

Proposed FY21 Activities: O&M of Phase I and II of Managed Marsh Complex. Complete construction of Phase III and beginning O&M.

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

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: Pre-construction surveys for construction activities.

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

Proposed FY21 Activities: N/A

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

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$640	\$0	\$620	\$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 FY19: Annual worker education trainings conducted at the beginning of each calendar year and then an additional training mid-year for new employees.

FY20 Activities: Annual worker education program.

Proposed FY21 Activities: Annual worker education program.

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

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$33,950	\$0	\$32,960	\$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 FY19: Habitat survey conducted as part of initial habitat mapping at the beginning of the QSA.

FY20 Activities: N/A

Proposed FY21 Activities: Desert habitat surveys.

Work Task 12: Desert Habitat Create/Maintain Desert Habitat

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: N/A

FY20 Activities: N/A

Proposed FY21 Activities: N/A

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

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: No major modifications to operations & maintenance activities to date.

FY20 Activities: N/A

Proposed FY21 Activities: N/A

Work Task 14: Burrowing Owl Worker Annual Education and Manual

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 to 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 FY19: 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 water patrolmen are trained in February/March of each year. A mid-year make up training is conducted for anyone who missed trainings at the beginning of the year or who have been hired since trainings occurred.

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

Proposed FY21 Activities: Annual education program rolled into Task 10/10A.

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

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$3,290	\$0	\$3,190	\$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 filling burrows, exercise care in removing sediment, and avoid moving the excavator bucket directly over a burrow.
- Develop standard operating procedures through teamwork of IT biologist and maintenance workers for drain/canal cleaning.

Permit Reference: HCP-Owl 2-8

Accomplishments Through FY19: Annual inspections of canals and drains prior to all operations and maintenance activities

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.

Proposed FY21 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 FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$245,890	\$238,730	\$238,730	\$3,263,714

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 FY19: Population Studies conducted in 2007/2008. Sub-Sampling conducted in 2011/2012. "Efficacy study" on burrowing owl marking protocol in 2015/2016. Beginning of a 2-year subsampling effort in 2019 and 2020.

FY20 Activities: Burrowing Owl population subsampling event began in 2019 and ongoing through 2021.

Proposed FY21 Activities: Burrowing Owl population subsampling event began in 2019 and ongoing through 2021.

Work Task 17: Farmer and Public Education Program

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$7,300	\$5,000	\$7,090	\$11,718

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 FY19: Design an ad and public outreach presentations to various groups.

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

Proposed FY21 Activities: Public outreach presentations, design an ad, etc.

Work Task 18: Desert Pupfish Abundance and Distribution Study

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$6,400	\$500	\$6,200	\$14,407

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 FY19: Desert pupfish distribution monitoring protocol, purchasing of equipment, and implementation to date. IID environmental mitigation staff trained to survey for pupfish within drains around the Salton Sea.

FY20 Activities: Pupfish distribution surveys and equipment costs.

Proposed FY21 Activities: Monitoring of pupfish within IID drains at the Salton Sea by IID staff.

Work Task 19/19A: Pupfish Selenium Drain Studies

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$310,450	\$301,410	\$301,410	\$2,175,595

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 FY19: USGS Selenium Study completed in 2009. Recommendations from USGS study used to create Selenium Work Plan for the RWQCB Ag Waiver completed. 1st year of 3 year study began in late 2018.

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

Proposed FY21 Activities: Ongoing Selenium Work Plan activities.

Work Task 20: Pupfish Construction and Maintenance Conservation Measures

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$253,390	\$5,000	\$834,300	\$172,990

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 FY19: Any required drain maintenance activities have been consulted with CDFW. Pupfish trapping occurred five consecutive days with no pupfish caught before work has started.

FY20 Activities: Kicked off consultant to develop pupfish habitat connectivity plan.

Proposed FY21 Activities: Develop a Pupfish Habitat Connectivity Plan with consultant, USFWS, CDFW and CVWD for IID and CVWD drains.

Work Task 21: Salvage of Razorback Suckers when Dewatering Canals

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: No relocation efforts have been conducted to date.

FY20 Activities: No Razorback Suckers were found.

Proposed FY21 Activities: Relocation of Razorback Suckers if needed.

Work Task 22: Maintain Habitat on Fallowed Parcels

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$0	\$0	\$0	\$0

Description and Purpose: N/A

Permit Reference: N/A

Accomplishments Through FY19: 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.

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

Proposed FY21 Activities: N/A

Work Task 23: Covered Species Baseline and Monitoring Surveys

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$171,870	\$10,000	\$163,770	\$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 FY19: 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.

FY20 Activities: Covered species surveys.

Proposed FY21 Activities: Covered species surveys

Work Task 24: Salton Sea Air Quality

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$7,785,200	\$4,000,000	\$6,199,070	\$18,371,285

Description and Purpose: To 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 FY19: Annual emissions inventory, Air Quality network operations & maintenance, proactive dust control planning, groundwater development, air quality emissions inventory.

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

Proposed FY21 Activities: Annual emissions inventory, air quality network operation & maintenance, proactive dust control planning, groundwater development, air quality mitigation planning, restricting access.

Work Task 25: Minimize Dust Emissions from Fallowed Lands

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: Fallowed fields are required to have a crop left in place for dust mitigation at the owners expense. No cost to the JPA.

FY20 Activities: N/A

Proposed FY21 Activities: N/A

Work Task 26: Drain Connectivity to Salton Sea Elevation Decrease

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: Drain connectivity for pupfish due to salinity levels is included in Task 20.

FY20 Activities: Included in Task 20.

Proposed FY21 Activities: Included in Task 20.

Work Task 27: Grade Spoil/Roads from Drain Maintenance

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: 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.

FY20 Activities: Included in Task 15.

Proposed FY21 Activities: Included in Task 15.

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

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: N/A

FY20 Activities: N/A

Proposed FY21 Activities: N/A

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

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: N/A

FY20 Activities: N/A

Proposed FY21 Activities: N/A

Work Task 30: Southwestern Willow Flycatcher Surveys and Habitat Monitoring

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: Included in Task 23.

FY20 Activities: Included in Task 23.

Proposed FY21 Activities: Included in Task 23.

Work Task 31: Elf Owl Surveys

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: Included in Task 23.

FY20 Activities: Included in Task 23.

Proposed FY21 Activities: Included in Task 23.

Work Task 32: Desert Tortoise Survey and Avoidance

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: Included in Task 23.

FY20 Activities: Included in Task 23.

Proposed FY21 Activities: Included in Task 23.

Work Task 33: Least Tern Surveys

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$0	\$0	\$0	\$0

Description and Purpose: Permittee 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 FY19: Included in Task 23.

FY20 Activities: Included in Task 23.

Proposed FY21 Activities: Included in Task 23.

Work Task 34: Rail and Bittern Surveys

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: Included in Task 23.

FY20 Activities: Included in Task 23.

Proposed FY21 Activities: Included in Task 23.

Work Task 35: Management and Planning

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$12,730	\$12,360	\$12,360	\$336,979

Description and Purpose: Management and Planning.

Permit Reference: N/A

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

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

Proposed FY21 Activities: Costs for monthly accounting, invoicing, and budget development.

Work Task 36: JPA Audit Fees

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$10,770	\$10,350	\$10,660	\$147,628

Description and Purpose: To pay for JPA audit fees.

Permit Reference: N/A

Accomplishments Through FY19: Costs for JPA Auditor.

FY20 Activities: Costs for JPA Auditor.

Proposed FY21 Activities: Costs for JPA Auditor.

Work Task 37: JPA Bank Fees

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$3,000	\$1,024	\$1,650	\$27,064

Description and Purpose: To pay for JPA bank fees.

Permit Reference: N/A

Accomplishments Through FY19: Costs for JPA Bank Fees.

FY20 Activities: Costs for JPA Bank Fees.

Proposed FY21 Activities: Costs for JPA Bank Fees.

Work Task 38: Financial Advisor

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$16,000	\$0	\$0	\$29,497

Description and Purpose: To pay for financial advisor services.

Permit Reference: N/A

Accomplishments Through FY19: 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.

FY20 Activities: The QSA JPA hired Chandler Asset Management as an investment advisor.

Proposed FY21 Activities: Chandler Asset Management will be managing the JPA's investments.

Work Task 39: Bond Counsel Fees

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$0	\$0	\$0	\$25,000

Description and Purpose: To pay for bond counsel fees.

Permit Reference: N/A

Accomplishments Through FY19: In FY07, the QSA JPA hired Orrick, Herrington and Sutcliffe to advise on the potential issuance of bonds.

FY20 Activities: N/A

Proposed FY21 Activities: N/A

Work Task 40: 2001 Biological Opinion Measures

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: 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 toward its payment obligations under this Agreement, not to exceed a present value of \$3,118,000, for payments made to BOR for satisfaction of Environmental Mitigation Requirements pursuant to that agreement among BOR, MWD, and SDCWA, dated October 10, 2003, regarding responsibility for implementation of Conservation and Mitigation Measures for the Colorado River described in a US Fish and Wildlife Service Biological Opinion dated January 12, 2001.”

FY20 Activities: N/A

Proposed FY21 Activities: N/A

Work Task 41: Brown Pelican Coast

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$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 FY19: N/A

FY20 Activities: N/A

Proposed FY21 Activities: N/A

Work Task 42: Brown Pelican Sea

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$58,540	\$1,000	\$0	\$0

Description and Purpose: To construct, maintain, and monitor major coastal roost sites at the Salton Sea.

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

Accomplishments Through FY19: N/A

FY20 Activities: N/A

Proposed FY21 Activities: Design roosts for installation in IID reservoirs and consult with the IT before moving to final design.

Work Task 43: Salton Sea Shoreline Strand Study

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$0	\$0	\$0	\$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 FY19: N/A

FY20 Activities: Shoreline strand picked up in annual shoreline lidar imagery.

Proposed FY21 Activities: N/A

Work Task 44: Pupfish Refugium

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$31,930	\$31,000	\$31,000	\$63,815

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 FY19: Pupfish refugium built in 2010 and stocked in 2016.

FY20 Activities: Pupfish refugium operations and maintenance.

Proposed FY21 Activities: Pupfish refugium operations and maintenance.

Work Task 45: Recreation Facilities at Salton Sea

PROPOSED FY 2021	PROJECTED FY 2020	BUDGETED FY 2020	SPENT THROUGH FY 2019
\$0	\$0	\$0	\$22,603

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 FY19: Inventory of recreational facilities around the Salton Sea

FY20 Activities: N/A

Proposed FY21 Activities: N/A

Appendix 3 – Status Update of Mitigation Tasks

Task	Task Description	Proposed FY-2021 Budget	Description and Purpose	Permit Reference	Accomplishments Through FY19	Task Status
1	QSA Implementation Team	\$0	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.	HCP; CESA Permit 4(a)(ii) and MMRP 8	Quarterly implementation team meetings and FY 2020 budget review.	Ongoing
2	QSA Implementation Team Biologists	\$1,093,590	Salary and expenses for IT Biologists.	HCP, General 1; CESA Permit 4(a)(i) and MMRP 7	Environmental Mitigation Staff.	Ongoing
3	Environmental Reporting and Monitoring	\$540	<p>Report annually to USFWS and CDFW the amount of water conserved, transferred, and allowed to flow to the Salton Sea.</p> <p>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.</p> <p>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.</p> <p>Prepare Adaptive Management Plan for monitoring effectiveness of mitigation measures.</p> <p>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.</p>	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	Annual report sent by March 31st of each year for the previous calendar year.	Ongoing
4	Salton Sea Salinity and Elevation Program	\$16,330	To demonstrate compliance with the Salton Sea Habitat Conservation Strategy, monitor salinity and elevation of the Salton Sea.	SWRCB-6; CESA Permit MMRP 40	Annual selenium monitoring.	Ongoing
5	Salton Sea Mitigation Water to Salton Sea	\$0	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.	SWRCB CESA Permit 4(c)(i) and MMRP13	Delivered mitigation water to the Salton Sea.	Completed
6	Tamarisk Scrub Habitat - Surveys and Mitigation	\$72,740	<p>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.</p> <p>Includes the evaluation of all potential cottonwood-willow and tamarisk stands for Southwestern Willow Flycatcher breeding</p>	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	Managed Marsh Complex native tree habitat in buffer zones installed.	Ongoing

Appendix 3 – Status Update of Mitigation Tasks

Task	Task Description	Proposed FY-2021 Budget	Description and Purpose	Permit Reference	Accomplishments Through FY19	Task Status
			habitat suitability, prior to IID water conservation activities that could impact tamarisk habitat.			
7	Drain Habitat - Initial Vegetation and Habitat Surveys	\$0	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.	HCP, Drain Habitat 1; In-Valley Biological Opinion Willow Flycatcher Measures 1 to 4; CESA Permit, 4(g) and MMRPs	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.	Completed
8	Drain Habitat (Aquatic) - Create/Manage/Monitor or "Managed Marsh" Areas	\$4,860,210	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.	HCP Drain Habitat; In-Valley Biological Opinion-Rail CM 1-2; CESA 4(g)(i) and MMRP 45, 46, 47, 88, 101, 102, 103	Phase 1 built in 2009 - 365 acres. Phase 2 built in 2014 - 360 acres. Phase 3 design and construction. Buffer zones double as native tree habitat for construction projects.	Ongoing
9	Drain Habitat Restrictions/Requirements for Construction and Maintenance	\$0	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).	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	Pre-construction surveys for construction activities.	Ongoing
10/10 a	Worker Education Program Covered Species Training and Manual	\$640	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.	HCP-Desert 1; CESA Permit 4(i) MMRP 58, 59 and 60	Annual worker education trainings conducted at the beginning of each calendar year and then an additional training mid-year for new employees.	Ongoing
11	Desert Habitat Survey and Mapping of Right of Way	\$33,950	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 to be 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.	HCP DH 4; CESA Permit 4(i)(v) MMRP 64	Habitat survey conducted as part of initial habitat mapping at the beginning of the QSA.	Ongoing

Appendix 3 – Status Update of Mitigation Tasks

Task	Task Description	Proposed FY-2021 Budget	Description and Purpose	Permit Reference	Accomplishments Through FY19	Task Status
12	Desert Habitat Create/Maintain Desert Habitat	\$0	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.	HCP-DH 5; CESA Permit 4(i)(vi) and MMRP 66, 67, 68	N/A	Ongoing
13	Changes to Operations on IID Canals to Avoid Covered Species	\$0	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.	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	No major modifications to operations & maintenance activities to date.	Ongoing
14	Burrowing Owl Worker Annual Education and Manual	\$0	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 to 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.	HCP, Owl 1	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 water patrolmen are trained in February/March of each year. A mid-year make up training is conducted for anyone who missed trainings at the beginning of the year or who have been hired since trainings occurred.	Ongoing
15	Pre-Construction Activity Burrowing Owl Surveys and Relocation	\$3,290	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 filling burrows, exercise care in removing sediment, and avoid moving the excavator bucket directly over a burrow. - Develop standard operating procedures through teamwork of IT biologist and maintenance workers for drain/canal cleaning.	HCP-Owl 2-8	Annual inspections of canals and drains prior to all operations and maintenance activities.	Ongoing
16	Burrowing Owl Relative Abundance and Distribution Surveys	\$245,890	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.	HCP, Owl 7	Population Studies conducted in 2007/2008. Sub-Sampling conducted in 2011/2012. "Efficacy study" on burrowing owl marking protocol in 2015/2016. Beginning of a 2-year subsampling effort in 2019 and 2020.	Ongoing
17	Farmer and Public Education Program	\$7,300	To implement a farmer and public education program on Burrowing Owls; periodically include information on Burrowing Owls in water bills to farmers.	HCP, Owl 9	Design an ad and public outreach presentations to various groups.	Ongoing
18	Desert Pupfish Abundance and Distribution Study	\$6,400	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.	HCP, Pupfish 4; In-Valley Biological Opinion, Pupfish CM 3; CESA Permit	Desert pupfish distribution monitoring protocol, purchasing of equipment, and implementation to date. IID environmental mitigation staff trained to survey for pupfish within drains around the Salton Sea.	Ongoing

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Task	Task Description	Proposed FY-2021 Budget	Description and Purpose	Permit Reference	Accomplishments Through FY19	Task Status
19/19 A	Pupfish Selenium Drain Studies	\$310,450	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.	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	USGS Selenium Study completed in 2009. Recommendations from USGS study used to create Selenium Work Plan for the RWQCB Ag Waiver completed. 1st year of 3 year study began in late 2018.	Ongoing
20	Pupfish Construction and Maintenance Conservation Measures	\$253,390	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.	HCP-Pupfish 6; CESA Permit MMRP 80, 86, 89, 90, 94, 95, 96, 97; In-Valley Biological Opinion	Any required drain maintenance activities have been consulted with CDFW. Pupfish trapping occurred five consecutive days with no pupfish caught before work has started.	Ongoing
21	Salvage of Razorback Suckers when Dewatering Canals	\$0	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.	HCP-Razorback Sucker 1; CESA Permit 4(k)(i) and MMRP 99	No relocation efforts have been conducted to date.	Ongoing
22	Maintain Habitat on Fallowed Parcels	\$0	N/A	N/A	Task has no value. Fallowed parcels are privately owned with residual cover from previous crops.	Completed
23	Covered Species Baseline and Monitoring Surveys	\$171,870	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.	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	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.	Included in Task 23.
24	Salton Sea Air Quality	\$7,785,200	To continue implementation of the 4-step air quality plan: (1) Restrict Access, (2) Research and Monitoring, (3) Emission Reduction Credits, (4) Direct Emissions Reductions.	SWRCB-8; EIR/EIS STEP 2, AQPLAN-AQ 7	Annual emissions inventory, Air Quality network operations & maintenance, proactive dust control planning, groundwater development, air quality emissions inventory.	Ongoing
25	Minimize Dust Emissions from Fallowed Lands	\$0	To implement at least one of the Best Management Practices ("BMPs") to minimize PM10 emissions prior to and after fallowing.	SWRCB-8; EIR/EIS-AQ 3	Fallowed fields are required to have a crop left in place for dust mitigation at the owners expense. No cost to the JPA.	Completed
26	Drain Connectivity to Salton Sea Elevation Decrease	\$0	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.	HCP-SS 2; In-Valley Biological Opinion; CESA Permit MMRP 79, 80	Drain connectivity for pupfish due to salinity levels is included in Task 20.	Included in Task 20.

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Task	Task Description	Proposed FY-2021 Budget	Description and Purpose	Permit Reference	Accomplishments Through FY19	Task Status
27	Grade Spoil/Roads from Drain Maintenance	\$0	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.	Owl-3, HCP	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.	Ongoing
28	Power Line Markers for Pumpback and Seepage Recovery Systems	\$0	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.	HCP-AG 1; CESA Permit MMRP 55, 57	N/A	Ongoing
29	Prepare and Implement Management Plan for Abandoned Portions of AAC	\$0	To prepare and implement a Management Plan for abandoned portions of AAC.	CESA Permit MMRP 78	N/A	Ongoing
30	Southwestern Willow Flycatcher Surveys and Habitat Monitoring	\$0	To carry out Southwestern Willow Flycatcher Surveys.	CESA Permit 4(f) and MMRP 41, 42; HCP; In-Valley Biological Opinion, Willow Flycatcher Measures	Included in Task 23.	Included in Task 23.
31	Elf Owl Surveys	\$0	To carry out pre-construction surveys of potential habitat with a 0.25 mile radius for nesting owls.	CESA Permit 4(f)(ix) and MMRP 44	Included in Task 23.	Included in Task 23.
32	Desert Tortoise Survey and Avoidance	\$0	To carry out pre-construction surveys and avoidance or minimization.	CESA Permit 4(i) and MMRP 71 to 75; HCP DH 2 and DH 3	Included in Task 23.	Included in Task 23.
33	Least Tern Surveys	\$0	Permitee is to use fencing or other techniques to protect nesting terns if least terns begin nesting at the Salton Sea.	CESA Permit 4(e) and MMRP 20	Included in Task 23.	Included in Task 23.
34	Rail and Bittern Surveys	\$0	To carry out Managed Marsh monitoring and initial baseline monitoring of suitable agricultural drain habitat.	CESA Permit 4(g) and MMRPs 51, 52, 54; In-Valley Biological Opinion, Rail Measures; HCP	Included in Task 23.	Included in Task 23.
35	Management and Planning	\$12,730	Management and Planning.	N/A	Costs for monthly accounting, invoicing, and budget development.	Ongoing
36	JPA Audit Fees	\$10,770	To pay for JPA audit fees.	N/A	Costs for JPA Auditor.	Ongoing
37	JPA Bank Fees	\$3,000	To pay for JPA bank fees.	N/A	Costs for JPA Bank Fees.	Ongoing

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Task	Task Description	Proposed FY-2021 Budget	Description and Purpose	Permit Reference	Accomplishments Through FY19	Task Status
38	Financial Advisor	\$16,000	To pay for financial advisor services.	N/A	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. In FY20, the QSA JPA hired Chandler Asset Management as an investment advisor.	Ongoing as-needed
39	Bond Counsel Fees	\$0	To pay for bond counsel fees.	N/A	In FY07, the QSA JPA hired Orrick, Herrington and Sutcliffe to advise on the potential issuance of bonds.	Completed
40	2001 Biological Opinion Measures	\$0	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.	2001 LCR BO; CESA	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 Reclamation. Specifically, the language states “SDCWA shall receive credit toward its payment obligations under this Agreement, not to exceed a present value of \$3,118,000, for payments made to BOR for satisfaction of Environmental Mitigation Requirements pursuant to that agreement among BOR, MWD, and SDCWA, dated October 10, 2003, regarding responsibility for implementation of Conservation and Mitigation Measures for the Colorado River described in a US Fish and Wildlife Service Biological Opinion dated January 12, 2001.”	Completed (Credit provided)
41	Brown Pelican Coast	\$0	To construct, maintain, and monitor major coastal roost sites in San Diego Bay and Santa Barbara Harbor.	CESA 4(d); 2002 In-Valley BO BP CM-1	N/A	Ongoing
42	Brown Pelican Sea	\$58,540	To deliver mitigation water to Salton Sea until 2017 (2030 per HCP) to stabilize elevation and moderate salinity.	CESA 3(c); 2002 In-Valley BO BP CM-1; HCP SS-1	N/A	Ongoing
43	Salton Sea Shoreline Strand Study	\$0	To survey for and mitigate, if required, impacts to tamarisk scrub upon completion of SS mitigation deliveries.	HCP SS-3; HCP 4(f)	N/A	Ongoing
44	Pupfish Refugium	\$31,930	To construct and maintain one refugium pond.	HCP SS-2; 2002 In-Valley BO DP CM-1; CESA 4(j)	Pupfish refugium built in 2010 and stocked in 2016.	Construction completed. Ongoing O&M.
45	Recreation Facilities at Salton Sea	\$0	To relocate boat launch site and/or maintain boat launch connection to Salton Sea.	SWRCB Order Measure R-7; 2002 EIS/EIR Measure R-7	Inventory of recreational facilities around the Salton Sea.	Ongoing