



## **Notice of Adjourned Regular Water Resources Committee Meeting and Joint Adjourned Regular Water Resources Committee Meeting-Special Board Workshop**

**Monday, September 9, 2019 10:00 a.m.**

SLDMWA Boardroom  
842 6th Street, Los Banos  
[telephonic participation locations identified below]

### **Agenda**

NOTE: Any member of the public may address the Water Resource Committee/Board concerning any item on the agenda before or during its consideration of that matter. Public comment is limited to no more than three minutes per person per item. For good cause, the Chair may waive this limitation.

NOTE FURTHER: Because the notice provides for a regular meeting of the Water Resources Committee and a joint regular Water Resources Committee/special Board workshop, Board Directors/Alternates may discuss items listed on the agenda; however, only Water Resource Committee Members/Alternates may correct or add to the agenda or vote on action items.

1. Call to Order/Roll Call
2. Water Resources Committee to Consider Corrections or Additions to the Agenda of Items, as authorized by Government Code Section 54950 *et seq.*
3. Opportunity for Public Comment – Any member of the public may address the Water Resource Committee concerning any matter not on the agenda, but within the Committee's jurisdiction. Public comment is limited to no more than three minutes per person. For good cause, the Chair may waive this limitation.

### **ACTION ITEMS**

4. **Water Resources Committee to Consider Approval of the August 5, 2019, Meeting Minutes**
5. **Water Resources Committee to Consider Recommendation to the Board of Directors to Authorize Execution of Agreement with State Water Contractors and Expenditure of up to \$125,000 from the Technical Budget to Jointly Fund CAMT Facilitation**

### **REPORT ITEMS**

6. Briefing on Voluntary Agreements, Barajas/Petersen
7. Briefing on CSAMP/CAMT Funding, Petersen/Jennifer Pierre
8. Briefing on San Joaquin Valley Water Blueprint, Petersen/Austin Ewell
9. Update on Water Policy/Resources Activities, Petersen  
(May include reports on activities related to 1) Reinitiation of Consultation on Long-Term Operations of the Central Valley Project and State Water Project, including environmental compliance; 2) State Water Resources Control Board action; 3) San Joaquin River Restoration Program; 4) Delta conveyance; 5) Reclamation action; 6) Delta Stewardship Council action; 7) San Joaquin Valley Water Blueprint)
10. Update on California Storage Projects, Barajas  
(May include reports on activities related to 1) Sites Reservoir, 2) Temperance Flat Reservoir, 3) Los Vaqueros Reservoir, 4) Shasta Reservoir, 5) San Luis Reservoir, 6) Pacheco Reservoir, 7) Del Puerto Canyon Reservoir)

11. Report on State and Federal Affairs, Petersen
12. Update on Water Operations and Forecasts, Tom Boardman
13. Update on Infrastructure Projects, Mizuno
14. Executive Director's Report, Barajas  
(May include reports on activities within the Water Resources Committee's jurisdiction related to 1) CVP/SWP water operations; 2) regulation of the CVP/SWP; 3) existing or possible new State and Federal policies; 4) Water Authority activities)
15. Closed Session

CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

Initiation of Litigation Pursuant to paragraph (4) of Subdivision (d) of Government Code Section 54956.9 – 5 potential cases

CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

Significant Exposure to Litigation Pursuant to Paragraph (2) or (3) of Subdivision (d) of Government Code Section 54956.9 – 4 potential cases

CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION

Existing Litigation Pursuant to paragraph (1) of Subdivision (d) of Section 54956.9

- A. Natural Resources Defense Council et al. v. Bernhardt et al., U.S. District Court, E.D. Cal., Case No. 1:05-cv-01207, LJO-BAM (Old FWS – OCAP BO/Contracts)
- B. Modesto Irrigation District, et al. v. State Water Resources Control Board & Woods Irrigation Company, Sacramento County Superior Court Case No. 34-2011-80000803 (Complaint for Declaratory Relief re Woods Irrigation Company)
- C. SWRCB Water Rights Complaints: Modesto Irrigation District, State Water Contractors, San Luis & Delta- Mendota Water Authority, Interested Persons in SWRCB CDO Enforcement Proceedings and/or Petitions for Reconsideration: Pak & Young; Mussi et al; George Speckman Testamentary Trust (Water Rights Complaints)
- D. Pacific Coast Federation of Fishermen's Associations, California Sportfishing Protection Alliance, Friends of the River, San Francisco Crab Boat Owners Association, Inc., The Institute for Fisheries Resources, and Felix Smith v. Donald R. Glaser and San Luis & Delta-Mendota Water Authority, U.S. District Court, E.D. Cal., Case No. 2:11-CV-02980-KJM-CKD, Appeal No. 17-17130 ("PCFFA v Glaser" or "GBP Citizens Suit")
- E. San Luis & Delta-Mendota Water Authority and Westlands Water District v. Delta Stewardship Council, et al., Sacramento County Superior Court Case No. 34-2013-80001500 (Delta Plan Litigation). Appeals in Delta Plan Litigation: State Water Contractors, et al. v. Delta Stewardship Council, et al. (Sacramento County Superior Court JCCP No. 4758) (Third District Court of Appeal Case No. C082944); California Water Impact Network, et al. v. Delta Stewardship Council, et al. (Sacramento County Superior Court JCCP No. 4758) (Third District Court of Appeal Case No. C082994); Central Delta Water Agency, et al. v. Delta Stewardship Council, et al. (Sacramento County Superior Court JCCP No. 4758) (Third District Court of Appeal Case No. C082994); North Coast Rivers Alliance, et al. v. Delta Stewardship Council, et al. (Sacramento County Superior Court JCCP No. 4758) (Third District Court of Appeal Case No.C082994); San Luis & Delta-Mendota Water Agency, et al. v. Delta Stewardship Council, et al. (Sacramento County Superior Court JCCP No. 4758) (Third District Court of Appeal Case No. C082994); Save the California Delta Alliance v. Delta Stewardship Council, et al. (Sacramento County Superior Court JCCP No. 4758) (Third District Court of Appeal Case No. C082994)
- F. California Sportfishing Protection Alliance, et al. vs. California State Water Resources Control Board, et al., Alameda County Superior Court Case No. RG15780498 (State WQCP/TUCP)
- G. City of Fresno, et al. v. United States, U.S. Court of Federal Claims, Case No. 16-1276L (Friant Takings Suit)
- H. Monterey Coastkeeper, et al. v. Central Valley Regional Water Quality Control Board, et al., Sacramento County Superior Court Case No. 34-2018-80002853; Environmental Law Foundation v. State Water Resources Control Board, Sacramento County Superior Court Case No. 34-2018-80002851; Protectores del Agua Subterranea v. State Water Resources Control Board, Sacramento Superior Court Case No. 34-2018-80002852 ("Waste Discharge Requirement Cases")
- I. North Coast Rivers Alliance v. Delta Stewardship Council, Sacramento County Superior Court, Case No. 34-2018-80002898; Central Delta Water Agency v. Delta Stewardship Council, Sacramento County Superior Court, Case No. 34-2018-80002900; Friends of the River v. Delta Stewardship Council, Sacramento County Superior Court, Case No. 34-2018-80002901; California Water Impact Network v. Delta Stewardship Council, Sacramento County Superior Court, Case No. 34-2018-80002904 ("Delta Plan Amendment Cases")

16. Return to Open Session
17. Report from Closed Session, if any, Required by Government Code Section 54957.1
18. Reports Pursuant to Government Code Section 54954.2(a)(3)
19. ADJOURNMENT

Persons with a disability may request disability-related modification or accommodation by contacting Cheri Worthy or Felicia Luna at the San Luis & Delta-Mendota Water Authority Office, 842 6th Street, P.O. Box 2157, Los Banos, California, telephone: 209/826-9696 at least 3 days before a regular meeting or 1 day before a special meeting/workshop.

**Telephonic Participation Locations:**

San Benito County Water District  
30 Mansfield Road  
Hollister, CA 95023

Santa Clara Valley Water District  
5750 Almaden Expressway  
San Jose, CA 95118

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<sup>1</sup> Attention telephonic participants: This Notice & Agenda must be posted at the telephonic participation location, which must be accessible to the public.

**SAN LUIS & DELTA-MENDOTA WATER AUTHORITY  
REGULAR WATER RESOURCES COMMITTEE MEETING AND JOINT  
REGULAR WATER RESOURCES COMMITTEE MEETING - SPECIAL  
BOARD WORKSHOP MINUTES**

**AUGUST 5, 2019**

The Adjourned Regular Water Resources Committee and Joint Regular Water Resources Committee Meeting and Special Board Workshop of the San Luis & Delta-Mendota Water Authority convened at approximately 10:00 a.m. at 842 6th Street in Los Banos, California with Chair Tom Birmingham presiding.

**Water Resources Committee Members Present**

**Ex-Officio**

Cannon Michael

**Division 1**

Anthea Hansen, Alternate for Earl Perez

**Division 2**

Bill Diedrich, Member - William Bourdeau, Alternate

**Division 3**

Chris White, Alternate

**Division 4**

Jeff Cattaneo, Alternate for Cindy Kao (via Teleconference)

**Division 5**

Tom Birmingham, Member - Steve Stadler, Alternate

**Board of Directors Present**

**Division 1**

Anthea Hansen, Director

**Division 2**

William Bourdeau, Director

Bill Diedrich, Director

**Division 3**

Chris White, Alternate for James O'Banion

Cannon Michael, Director

**Division 4**

Jeff Cattaneo, Director (via teleconference)

**Division 5**

Tom Birmingham, Director

Steve Stadler, Director

**Authority Representatives Present**

Federico Barajas, Executive Director

Frances Mizuno, Assistant Executive Director

Scott Petersen, Water Policy Director

Rebecca Akroyd, General Counsel

**Others Present**

Tom Boardman, Westlands Water District

John Wiersma, Henry Miller Reclamation District

Jack Worsley, Bureau of Reclamation (via Teleconference)

Jarret Martin, Central California Irrigation District

Dana Jacobson, Valley Water

Bruce DiGennaro, Essex Partnership

**1. Call to Order**

Chair Tom Birmingham called the meeting to order and a roll call was held.

**2. The Water Resources Committee Will Consider Corrections or Additions to the Agenda of Items, as authorized by Government Code Section 54950 et seq**

There were no corrections or additions to the agenda.

**3. Opportunity for Public Comment**

There was no public comment.

**4. Water Resources Committee to Consider Approval of the July 1, 2019 Meeting Minutes**

With a few minor edits, Chair Tom Birmingham pronounced the July 1, 2019 meeting minutes approved.

**5. Water Resources Committee to Consider Recommendation to the Board of Directors to Authorize Execution of the Amended and Restated Joint Exercise of Powers Agreement Creating the San Joaquin Valley Water Infrastructure Authority (SJWVIA)**

Executive Director Federico Barajas reported that in recent SJVWIA meetings it had been discussed that the membership will stay the same, but the focus of the organization will change. Barajas informed the committee that the SJVWIA has prepared an Amended and Restated Joint Powers Agreement, and that several members have already authorized execution of the Amended JPA. Barajas also reported that the SJVWIA is proposing to have no permanent staff, and will use resources from its member agencies to help reduce cost. Barajas concluded explaining that SJVWIA will only have meetings when needed.

General Counsel Rebecca Akroyd reported that each year the SJVWIA Board will decide if a budget is needed, and the Authority wants to make certain that it has no liability issues if a budget is proposed sometime in the future. Akroyd asked the committee to refer to the Amended and Restated JPA included in the packet, which included some initial edits by the Authority. She indicated that Authority staff would work with member agencies to further refine the document.

After a brief discussion the Committee agreed to table this item and take another look at it once the final document is completed. No action was taken.

**6. Presentation regarding CSAMP/CAMT Science Activities**

Bruce DiGennaro walked through a PowerPoint presentation slides on CSAMP/CAMP Science Activities via teleconference. DiGennaro described the origins of CSAMP and CAMT, its participants, structure, mission, priorities, and expenditures. Committee members highlighted the importance of this effort, and the changes in project operations resulting from CAMT science. Committee Chair Tom Birmingham requested that Bruce DiGennaro present a similar presentation in person to the entire Board during the Authority's upcoming budgeting process.

**7. Briefing on Proposed Delta Channel Maintenance Program**

Assistant Executive Director Frances Mizuno reported that the Authority has been working with the Department of Water Resources, Bureau of Reclamation, State Water Resources Control Board, Office of the Watermaster, South Delta Water Agency, and Westlands Water District to come up with a program to remove sedimentation from South Delta channels. Mizuno reported that Authority staff has been working to develop a Joint Problem Statement to describe the issue related to siltation in the Delta Channels and its impact to beneficial uses within the Delta and to gather support from State and Federal resource agencies, Public Water Agencies, and non-Governmental Organizations to collaboratively develop a long-term channel maintenance program. Mizuno explained that the program would identify the scope of the problem, criteria for silt removal, and mitigation measures, and the objectives would be to 1) engage permit agencies, and secure all

necessary permits, 2) establish an adequate and consistent source of funding, 3) reestablish adequate channel depths, and 4) provide for regular dredging to remove sediment.

**8. Update on Water Policies Activities**

Water Policy Director Scott Petersen reported that Reclamation and state and federal resource agencies continue to work on the Reinitiation of Consultation on Long-Term Operations and that a multi-agency team is working on internal coordination issues.

Petersen reported that work continues on the Voluntary Agreements, and highlighted the Assets to Outcomes Work group's continued development of biological and environmental targets.

Petersen reported that in July a number of activities occurred to advance the San Joaquin Valley Water Blueprint, including a coordination meeting, acceptance of proposals for the economic analysis, and number of different meetings to highlight the importance of the Blueprint to San Joaquin Valley water resilience.

**9. Update on California Storage Projects**

Executive Director Federico Barajas reported that there will be a General Manager update meeting on Los Vaqueros Reservoir expansion on August 29, 2019.

Barajas also reported that the Authority continues to work with Reclamation on the B.F. Sisk Dam raise, including another Contributed Funds Agreement, and a project management plan. In addition, the Authority is working with MBK Engineers to develop initial operational scenarios for B.F. Sisk, which will be brought to the Board at a later date.

**10. Report on State and Federal Affairs**

Water Policy Director Scott Petersen reported that Congress is continuing work on the Appropriations bills, which have to be completed by September 30, 2019.

Petersen reported that Authority staff will be traveling to DC in September to advance the adopted legislative objectives.

Petersen also reported that Executive Director Federico Barajas testified before the House of Natural Resources Oversight and Investigations Subcommittee last week regarding Reclamation's infrastructure funding.

**11. Update on Water Operations and Forecasts**

Westlands Water District's Tom Boardman reported that Jones and Banks are pumping at capacity. Banks recently increased its pumping by 500 cfs when DWR completed the installation

of the south delta salinity barriers by late July. Shasta and Folsom storage are high for this time of year. Boardman stated that there has been only one other year in the past 20 years when Shasta storage has been near its current level. Boardman discussed a chart showing that Reclamation significantly overestimated CVP demands and underestimated flood flows and exports this year.

Boardman concluded his report with a brief review of two charts showing CVP San Luis refill projections under dry and normal hydrology.

**12. Executive Director's Report**

Executive Director Federico Barajas reminded the Committee that the Finance and Administrative Committee meeting has been moved to Thursday at 8:30 a.m., and the Board meeting is also scheduled Thursday at 9:30 a.m.

**13. Closed Session**

Chair Tom Birmingham adjourned the open session to address the items listed on the Closed Session Agenda at approximately 11:35 a.m. Upon return to open session at approximately 11:50 a.m., General Counsel Rebecca Akroyd reported that no reportable actions were taken in closed session.

**14. Reports Pursuant to Government Code Section 54954.2**

None.

**15. Adjournment**

The meeting was adjourned at approximately 11:50 a.m.





## MEMORANDUM

TO: SLDMWA Water Resources Committee Members and Alternates

FROM: Scott Petersen, Water Policy Director

DATE: September 9, 2019

RE: Committee to Consider Recommendation to the Board of Directors to Authorize Execution of Agreement with State Water Contractors and Expenditure of up to \$125,000 from the Technical Budget to Jointly Fund CAMT Facilitation

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### BACKGROUND

The Collaborative Science and Adaptive Management Program (CSAMP) is an applied science program specifically designed to inform decisions regarding operations of the State Water Project (SWP) and the Central Valley Project (CVP) and species protection in the Delta. The Program was established in 2013 as an outgrowth of litigation and is intended to provide an alternative where parties can work together to address critical uncertainties and promote common understanding. Since the CSAMP is an outgrowth of litigation over the salmon and Delta smelt biological opinions, the process is focused on the south Delta, the export facilities, and some of the science issues that were at the base of that litigation.

CSAMP has a two-tiered organizational structure comprised of a Policy Group made up of agency directors and top-level executives from the entities involved in the litigation, and the Collaborative Adaptive Management Team (CAMT), which includes designated managers and scientists representing state and federal agencies, water contractors and non-governmental organizations to serve as a working group functioning under the direction of the Policy Group. The Delta Science Program and the Interagency Ecological Program Lead Scientist are involved as well. Technical teams are formed as needed.

Currently, the technical investigations that are underway include the application of Delta smelt survey data, fall outflow management for Delta smelt, Old and Middle River Management and Delta smelt entrainment, and south Delta salmonid survival.

### CSAMP Technical Studies

#### Completed

- Effects of Water Project Operations on salmon behavior and survival
- Review of Delta Smelt Survey Data

## Ongoing

- Delta Smelt Entrainment Studies
- Fall Outflow Studies
- Delta Salmon Rearing Habitat Study
- Delta Smelt Science Plan Implementation

## Planned

- Structured Decision Making for Delta Smelt
- Coordinated Salmon Science Plan for the Delta

The 2019 Workplan (attached) identifies a \$1.7 million budget for 2019, with a current funding shortfall of \$125,000 for management and facilitation costs. Traditionally, the Authority and the State Water Contractors have jointly funded expenditures at CSAMP/CAMT including facilitation costs.

### **ISSUE FOR DECISION**

Whether to recommend to the Board of Directors approval to authorize execution of an agreement with State Water Contractors and expenditure of up to \$125,000 from the Technical Budget to jointly fund CAMT/CSAMP facilitation for the 2019.

### **RECOMMENDATION**

Staff recommends that the Water Resources Committee recommend to the Board to authorize execution of an agreement with the State Water Contractors and expenditure of up to \$125,000 from the Technical Budget to jointly fund CAMT/CSAMP facilitation costs.

### **ANALYSIS**

CAMT/CSAMP facilitation is necessary to enable consultants to assist with CAMT/CSAMP agenda development, outreach, and research to support technical meetings. In addition, facilitators assist with the development of background materials and briefings as needed to support CAMT/CSAMP efforts, and develop scopes and solicitations for CAMT studies. Without facilitation, the CAMT/CSAMP processes would not be as efficient or effective in supporting the development, implementation, and utilization of technical studies.

### **BUDGET IMPLICATIONS**

The Board approved \$1.01 million in this year's Technical Budget, which includes \$105,000 for Coordinated Science (unobligated), \$200,000 for Science Studies (\$135,000 unobligated) and \$505,000 for previous technical project commitments. Should the Committee recommend to the Board, and the Board act upon that recommendation, that will obligate \$125,000 of the remaining \$240,000 available for this fiscal year for the Technical Studies/Science Budget, resulting in \$115,000 of unobligated funds in this fiscal year's budget.

**CAMT 2019 Workplan and Budget**

Approved February, 15, 2019

Updated May 23, 2019

<b>CSAMP Priorities and CAMT Workplan Activities</b>	<b>Budget</b>	<b>Committed</b>	<b>Uncommitted</b>
1. Maintain Collaborative Process			
a. Management and Facilitation	\$420,000	\$295,000	\$125,000
b. Sponsored participants	<u>\$200,000</u>	<u>\$200,000</u>	<u>\$0</u>
	<b>\$620,000</b>	<b>\$495,000</b>	<b>\$125,000</b>
2. Complete Current CAMT Investigations and Communicate Findings			
a. OMR Management - Factors Affecting Delta Smelt Entrainment (Grimaldo)	\$82,000	\$82,000	\$0
b. Fall Outflow - Characterizing the Relationships between Fall Outflow and Survival and Abundance of Delta Smelt (Fleishman)	\$60,000	\$60,000	\$0
c. Delta Smelt Science Plan (Reed)	\$15,000	\$15,000	\$0
d. Delta Salmon Rearing Habitat Study (SFEI)	<u>\$173,000</u>	<u>\$173,000</u>	<u>\$0</u>
	<b>\$330,000</b>	<b>\$330,000</b>	<b>\$0</b>
3. Support Implementation of Resiliency Strategies for Delta Smelt and Sacramento Salmonids			
a. CSAMP Structured Decision Making for Delta Smelt Recovery	\$320,000	\$320,000	\$0
b. Assist with coordination of the Suisun Marsh Salinity Control Gates, North Delta Food Web and Flow Augmentation actions	Costs included in Item 1 – Collaborative Process		
c. Assist where projects are stuck or otherwise need guidance, including sorting out potential controversy, providing guidance on monitoring, and communicating status and results.	Costs included in Item 1 – Collaborative Process		
	<u><b>\$320,000</b></u>	<u><b>\$320,000</b></u>	<u><b>\$0</b></u>

<p>4. Support Additional Near-term, No Regrets Salmon Actions</p> <ul style="list-style-type: none"> <li>a. Use available models to evaluate potential actions.</li> <li>b. Identify projects in addition to the resiliency strategy where CSAMP could provide science support, funding and project management recommendations for early recovery actions that benefit both listed and non-listed species upriver and in the Delta.</li> </ul>	<p style="text-align: right;">\$100,000</p> <p>Costs included in Item 1 – Collaborative Process</p> <hr/> <p style="text-align: right;"><b>\$100,000</b></p>	<p style="text-align: right;">\$0</p> <hr/> <p style="text-align: right;"><b>\$0</b></p>	<p style="text-align: right;">\$100,000</p> <hr/> <p style="text-align: right;"><b>\$100,000</b></p>
<p>5. Improve Coordination of Salmonid Research in the Delta and Support Development of an Integrated Central Valley Science Plan for Salmonids</p> <ul style="list-style-type: none"> <li>a. Develop salmon science plan for the Bay-Delta (ESSA)</li> </ul>	<p style="text-align: right;"><u>\$250,000</u></p> <p style="text-align: right;"><b>\$250,000</b></p>	<p style="text-align: right;"><u>\$0</u></p> <p style="text-align: right;"><b>\$250,000</b></p>	<p style="text-align: right;"><u>\$0</u></p> <p style="text-align: right;"><b>\$0</b></p>
<p>6. Initiate Conversation Regarding Oversight, Guidance, and Feedback on Monitoring Schemes Targeting the Delta's Natural Resources</p> <ul style="list-style-type: none"> <li>a. Help establish monitoring designs and protocols necessary to evaluate the effectiveness of adaptive management actions</li> <li>b. Support efforts to identify indicators of the health and integrity of Delta ecosystems and communities</li> <li>c. Discuss CAMT role, if any, in review of long-term fish surveys and sampling schemes to assess status and trends and assess how to maximize the value of dedicated resources.</li> </ul>	<p>Costs included in Item 1 – Collaborative Process</p>		
<p>7. Advance Decision Support Tools</p> <ul style="list-style-type: none"> <li>a. Continue Winter-run Life Cycle Model Workshops</li> <li>a. Continue engagement in the Delta Science Program SDM process for the Delta.</li> </ul>	<p style="text-align: right;">\$80,000</p> <p>Costs included in Item 1 – Collaborative Process</p> <hr/> <p style="text-align: right;"><b>\$80,000</b></p>	<p style="text-align: right;">\$80,000</p> <hr/> <p style="text-align: right;"><b>\$80,000</b></p>	<p style="text-align: right;">\$0</p> <hr/> <p style="text-align: right;"><b>\$0</b></p>
<b>Total</b>	<b>\$1,700,000</b>	<b>\$1,475,000</b>	<b>\$225,000</b>

## 2019 CAMT Workplan Details

### 1. Maintain Collaborative Process

<b>Description</b>	Provide management and facilitation for CAMT, Policy Group and subcommittees. Support sponsored participants													
<b>Contractors</b>	Bruce DiGennaro (Essex), Kerns and West, Sam Luoma, Rene Henry, and John Ferguson (Anchor QEA)													
<b>2019 Budget</b>	\$620,000 (\$420k for management and facilitation, \$200k for sponsored participants)													
<b>Funding</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><u>Committed</u></td> <td style="width: 50%;"><u>Unfunded</u></td> </tr> <tr> <td>PWA \$40,000</td> <td>\$125,000</td> </tr> <tr> <td>USBR \$105,000</td> <td></td> </tr> <tr> <td>DWR \$320,000</td> <td></td> </tr> <tr> <td><u>NMFS \$30,000</u></td> <td></td> </tr> <tr> <td style="text-align: right;">\$495,000</td> <td></td> </tr> </table>	<u>Committed</u>	<u>Unfunded</u>	PWA \$40,000	\$125,000	USBR \$105,000		DWR \$320,000		<u>NMFS \$30,000</u>		\$495,000		
<u>Committed</u>	<u>Unfunded</u>													
PWA \$40,000	\$125,000													
USBR \$105,000														
DWR \$320,000														
<u>NMFS \$30,000</u>														
\$495,000														
<b>Comments</b>	Existing facilitation contracts expire on 6/30/19. Funding shortfall is primarily a contracting issue.													

### 2. Complete Current CAMT Investigations and Communicate Findings

#### 2a. OMR Management - Factors Affecting Adult Delta Smelt Entrainment

<b>Description</b>	Studies 1 and 2 have been completed and a draft report has been received for Study 3 (proportional entrainment). Work in 2019 will focus on DSST review of Study 3 and completion of Study 4 (life cycle modeling).					
<b>Contractors</b>	Lenny Grimaldo (ICF), Edward Gross, Josh Korman. Pete Smith, Michael MacWilliams, Will Smith					
<b>2019 Budget</b>	\$82,000					
<b>Funding</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><u>Committed</u></td> <td style="width: 50%;"><u>Unfunded</u></td> </tr> <tr> <td>PWA \$82,000</td> <td>\$0</td> </tr> </table>	<u>Committed</u>	<u>Unfunded</u>	PWA \$82,000	\$0	
<u>Committed</u>	<u>Unfunded</u>					
PWA \$82,000	\$0					
<b>Comments</b>	Funding for responding to DSST comments, preparing presentation materials for CAMT and Policy Group and publication.					

#### 2b. Fall Outflow - Characterizing the Relationships between Fall Outflow and Survival and Abundance of Delta Smelt

<b>Description</b>	Identify environmental variables that are associated strongly with annual changes in survival during autumn and recruitment of Delta Smelt.					
<b>Contractors</b>	Erica Fleishman– Principal Investigator, Nobel Hendrix, Robin Waples					
<b>2019 Budget</b>	\$60,000					
<b>Funding</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><u>Committed</u></td> <td style="width: 50%;"><u>Unfunded</u></td> </tr> <tr> <td>PWA \$60,000</td> <td>\$0</td> </tr> </table>	<u>Committed</u>	<u>Unfunded</u>	PWA \$60,000	\$0	
<u>Committed</u>	<u>Unfunded</u>					
PWA \$60,000	\$0					
<b>Comments</b>	Funding to complete modeling responding to DSST comments and preparing presentation materials for CAMT and Policy Group.					

## 2c. Delta Smelt Science Plan

<b>Description</b>	Support implementation of the Delta Smelt Science Plan	
<b>Contractors</b>	Denise Reed	
<b>2019 Budget</b>	\$15,000	
<b>Funding</b>	<u>Committed</u> PWA \$15,000	<u>Unfunded</u> \$0
<b>Comments</b>		

## 2d. Delta Salmon Rearing Habitat Study

<b>Description</b>	Complete Delta Salmon Rearing Habitat Study	
<b>Contractors</b>	San Francisco Estuary Institute (SFEI), Anchor QEA, RMA	
<b>2019 Budget</b>	\$173,000	
<b>Funding</b>	<u>Committed</u> NMFS \$ 50,000 DSP \$100,000 PWA \$ 23,000	<u>Unfunded</u> \$0
<b>Comments</b>	PWA's funding RMA to provide hydrodynamic modeling and expertise. NMFS funding is for Anchor QEA support. DSP funding is going to the Delta Conservancy for SFEI contract. The Conservancy is providing additional funding for SFEI not shown here.	

## 3. Support Implementation of Resiliency Strategies for Delta Smelt and Sacramento Salmonids

### 3a. CSAMP Structured Decision Making for Delta Smelt Recovery

<b>Description</b>	Conduct Structured Decision Making (SDM) for Delta Smelt recovery	
<b>Contractors</b>	Kerns and West and Compass Resources	
<b>2019 Budget</b>	\$320,000	
<b>Funding</b>	<u>Committed</u> PWA \$ 25,000 USBR \$295,000	<u>Unfunded</u> \$0
<b>Comments</b>	PWA's funding Phase 1 (Project Initiation). USBR funding Phase 2. Work will continue into 2020.	

#### 4. Support Additional Near-term, No Regrets Salmon Actions

##### 4a. Use Available Models to Evaluate Potential Near-term Salmon Actions.

<b>Description</b>	Evaluate potential benefits of near-term actions using existing models	
<b>Contractors</b>	TBD	
<b>2019 Budget</b>	\$100,000	
<b>Funding</b>	<u>Committed</u> \$0	<u>Unfunded</u> \$100,000
<b>Comments</b>	Actions to be identified by CAMT	

#### 5. Improve Coordination of Salmonid Research in the Delta and Support Development of an Integrated Central Valley Science Plan for Salmonids

##### 5a. Develop Salmon Science Plan for the Bay-Delta

<b>Description</b>	Develop a Salmon Science Plan for the Bay-Delta	
<b>Contractors</b>	Kerns and West and ESSA	
<b>2019 Budget</b>	\$250,000	
<b>Funding</b>	<u>Committed</u> USBR \$250,000	<u>Unfunded</u> \$0
<b>Comments</b>	Work to continue into 2020	

#### 6. Initiate Conversation Regarding Oversight, Guidance, and Feedback on Monitoring Schemes Targeting the Delta's Natural Resources

<b>Description</b>	<ul style="list-style-type: none"> <li>a. Help establish monitoring designs and protocols necessary to evaluate the effectiveness of adaptive management actions.</li> <li>b. Support efforts to identify indicators of the health and integrity of Delta ecosystems and communities.</li> <li>c. Discuss CAMT role, if any, in review of long-term fish surveys and sampling schemes to assess status and trends and assess how to maximize the value of dedicated resources.</li> </ul>
<b>Contractors</b>	None – To be done by CAMT
<b>2019 Budget</b>	Costs included in Item 1 – Collaborative Process
<b>Funding</b>	NA
<b>Comments</b>	

## 7. Advance Decision Support Tools

<b>Description</b>	Continue Winter-run Life Cycle Model Workshops	
<b>Contractors</b>	SWFSC	
<b>2019 Budget</b>	\$80,000	
<b>Funding</b>	<u>Committed</u> USBR \$80,000	<u>Unfunded</u> \$0
<b>Comments</b>	Included in USBR contract with SWFSC for LCM development. Need to verify budget amount.	