

**Department of Water Resources Quarterly Status Report  
Central Valley Flood Protection Board Resolution 2012-25, 11(y)  
Amendments and Adoption of the 2012 Central Valley Flood Protection Plan  
(CVFPP)**

**March 2016 Update**

- 11(e) DWR anticipates completing a draft Central Valley Flood System Conservation Strategy not later than 2014, expanding on the Conservation Framework attached to the adopted CVFPP, to describe long-term, system-wide conservation objectives and covered actions associated with the flood management system.**

**Conservation Strategy Document**

Since the adoption of the CVFPP Board Resolution 2012-25, the FESSRO Floodway Ecosystem Sustainability Branch has been developing a draft Conservation Strategy document, building upon the Conservation Framework adopted as part of the 2012 CVFPP. Through the Interagency Advisory Committee (IAC), resources agencies provided input on several previous drafts. FESSRO has also engaged other interested groups, including the Regional Flood Management Planning (RFMP) groups, Central Valley Flood Protection Board Coordinating Committee, agricultural interests and environmental non-governmental organizations (NGOs) to get initial feedback on key elements of the document. These elements include integrated flood/ecosystem measurable objectives, regional permitting, potential revisions to levee vegetation management approaches, approaches for agricultural land stewardship, improvements to fish passage, and targeted species conservation assessments.

In early 2014, FESSRO circulated the Administrative Draft Conservation Strategy (ADCS) for comment among multiple programs within DWR. In July 2014, DWR released it to the resources agencies and other targeted stakeholders for a high level review. FESSRO received comments on the ADCS main document and appendices and made revisions based on the comments.

In response to feedback from resources agencies and NGOs regarding the importance of having measurable objective targets, FESSRO convened The Conservation Strategy Measurable Objectives Advisory Workgroup in September 2014 to develop a technical memorandum that includes scientifically based targets. In January 2015, DWR incorporated the Workgroup's results into the draft Conservation Strategy and Appendix L.

At the January 2015 CVFPB meeting, DWR presented the public review draft Conservation Strategy to the Board. DWR provided a walk-through of the document and Appendix L at a February 2015 CVFPB public workshop, and posted the draft Conservation Strategy, Executive Summary and several appendices on FESSRO's public website. Additional appendices were posted as they became available.

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DWR held a public workshop on the CVFPP, including the Conservation Strategy, in June 2014. The workshop provided participants with information on the scope, purpose, and timing of 2017 CVFPP update activities; how planning activities are being integrated; and DWR's outcome based planning approach and the value of partnering with DWR on this approach. DWR, in turn, received input on transparency in its process, support for the Conservation Strategy, and concerns related to protection of agricultural interests.

In July 2015, DWR initiated a 60 day public review period. The draft Conservation Strategy, Executive Summary, and all appendices are now available on DWR's website. The draft document was released in coordination with the CVFPB, which will hold a second public workshop on the Conservation Strategy in October. Comments are due September 14, 2015.

During 2014 and 2015, FESSRO staff also collaborated with DWR's Central Valley Flood Planning Office (CVFPO) on integrating conservation elements into planning for flood bypasses in the Sacramento and San Joaquin Basins.

### **Feather River Regional Permitting Program (FRRPP)**

DWR is developing the Feather River Regional Permitting Program (FRRPP) within the Feather River region to support implementation of CVFPP and Conservation Strategy activities, including flood system operations and maintenance; structural repairs; improvements to levees; and conservation actions such as levee setbacks, riparian habitat restoration and removal of fish passage barriers. The IAC Permitting Subcommittee transitioned into the FRRPP Development Committee to aid in the development and review of the associated Habitat Conservation Plan (HCP) and related permits, review stakeholder assessments, integrate with other plans, and determine a structure for additional stakeholder coordination.

The permitting program received a federal Endangered Species Act Section 6 Grant to aid in the development of the HCP, a major component of the FRRPP.

Next steps in the process include developing an Impacts Assessment, determining avoidance, minimization and potential mitigation needs, developing a conservation strategy, defining funding options, developing a joint EIR/EIS for issuance of the federal and state 'Take' permits, and determining additional permit holders and permitted structure. DWR has determined that all potential permittees would separately hold permits that are revocable, but would not disrupt the function of the HCP for DWR.

### **Advance Mitigation Projects**

DWR's first Project Solicitation Package (PSP) issued under the Central Valley Flood System Conservation Framework and Strategy Guidelines (approved February 2012) was issued in September 2012. The focus of the funding is to provide mitigation in advance of improvements to State Plan of Flood Control (SPFC) facilities that are expected to cause impacts to threatened or endangered species or their habitat. Nine proposals covering eight projects were approved by the DWR Director in 2013.

At this time, four projects are moving forward (see below), one is under development, one was withdrawn in early 2014, and two are not being pursued at this time.

- FESSRO contracted with Westervelt Ecological Services to create a giant garter snake (GGS) conservation bank that will provide credits that can be used by DWR or levee maintaining agencies in the south Delta and the San Joaquin Valley, from Stockton to Fresno to mitigate for impacts to GGS from improvements to SPFC facilities.
- FESSRO, along with the DWR Flood Corridor Protection Program and the Wildlife Conservation Board, funded the acquisition of Hidden Valley Ranch at the confluence of the Tuolumne and San Joaquin rivers. This project, in conjunction with the Dos Rios Acquisition, will provide transient storage and ecosystem enhancements consistent with multi-benefit objectives of the State Systemwide Investment Approach (SSIA). Phase 2 of the Hidden Valley Ranch project will fund restoration to enhance riparian vegetation and benefit riparian brush rabbit along the lower-mid San Joaquin River.
- FESSRO contracted with Westervelt Ecological Services to establish advance mitigation in the form of salmonid habitat within the Sacramento River in Yolo County for future SPFC mitigation needs resulting from CVFPP implementation and potential impacts to salmonids. DWR will ultimately receive credits that can be used for DWR impacts and/or impacts potentially caused by local maintaining agencies (LMAs) within the Sacramento River Watershed. The resources agencies are reviewing the proposed service areas for Endangered Species Act impacts to Salmonids, CA Endangered Species Act impacts to Swainson's hawk, Fish and Game Code Section 1600 related impacts, and Clean Water Act impacts related to 'other waters of the US'.
- FESSRO funded the Three Rivers Levee Improvement Authority (TRLIA) to enhance riparian vegetation and benefit salmonids on a parcel of land within the Feather River setback area that would provide mitigation credits for flood management projects consistent with the SSIA.

**11(f) Pursuant to CWC § 9620(c), DWR will prepare a recommended schedule and funding plan in 2013 to implement the recommendations of the adopted CVFPP, and DWR, by December 31, 2012, will brief the Board as to how it intends to collaborate with local, state and federal agencies on the development of the recommended schedule and funding plan.**

Table 4-3 (Page 4-39) of the 2012 CVFPP provides a preliminary range of investments over time to implement the CVFPP-SSIA. This table, reflecting a preliminary funding plan was based on estimated federal cost-sharing and local cost-sharing for studies and projects and available Proposition 84 and Proposition 1E funds. DWR has developed a Bond Plan of Expenditures (BPE) for Proposition 84 and Proposition 1E funds. The

BPE is updated each year and reflects DFM's current plans for expending remaining bond funds associated with FloodSAFE and implementing the CVFPP-SSIA.

The funding plan is now referred to as the "Investment Strategy. The "Investment Strategy will be a companion document to the 2017 CVFPP Update.

Based on collaboration with local, state and federal agencies, DWR has established various projects and programs to assist local agencies in implementing the recommendations of the CVFPP. Collectively, these projects and programs provide grant funds to levee maintaining agencies and regional flood agencies and take advantage of funds made available through the preliminary funding plan and the annual Bond Plan of Expenditures. These projects and programs are evolving; some are being closed out and others are newly established. They include: Early Implementation Program (EIP), Urban Flood Risk Reduction Program (UFRR), Small Erosion Repair Program (SERP), Small Community Flood Risk Reduction Program (SCFRR), Flood System Repair Project (FSRP), Local Levee Assistance Program (LLAP), Flood Corridor Program (FCP), and Flood System Implementation Office (FSIO) projects.

**11(g) DWR intends to provide funding, to be cost shared by local agencies, to implement urban, small community, and rural levee repairs and improvements consistent with the adopted CVFPP.**

Based on collaboration with local, state and federal agencies, DWR has established various projects and programs to assist local agencies in implementing the recommendations of the CVFPP. These projects and programs are evolving, some are being closed out and others are newly established. These projects and programs include: EIP, UFRR, SERP, SCFRR, FSRP, LLAP, and FCP.

The following is the status of each of the projects/programs listed above:

- EIP - No new agreements are being executed; however, there are jurisdictions that still have funds appropriated that may be used to supplement existing agreements. New amendment to existing agreements will be modified to meet the UFRR Guidelines requirements.
- UFRR - Seven concept proposals were approved for a total of \$246 million. Application review is underway. DWR is planning to execute all agreements by the summer of 2016.
- SERP - Program is underway and focuses on small erosion repairs on state maintained levees that are part of the Sacramento River Flood Control Project. Phase 1, the initial 5-year effort, is currently underway and will address approximately 293 miles of state maintained levees. Currently, one SERP site is under construction, with 12 additional sites under development for 2016/17 construction. The current SERP repair site is located north of the City of Colusa on the east levee of the Sacramento River.
- SCFRR – The 60-day public review and comment period for the draft Small Communities Flood Risk Reduction (SCFRR) program is closed. The guidelines are being finalized. This program is part of the implementation of the 2012 Central

Valley Flood Protection Plan and is focused on the small communities protected by facilities of the State Plan of Flood Control.

- FSRP - Guidelines have been finalized and program implementation has begun. As of February 2016, FSRP has completed two construction projects; one a proactive erosion repair in State Maintained Area ST008, and the other, an all-weather access road repair in RD 1500. The total cost of these projects was approximately \$660,000, which includes \$60,000 in local cost share. Additionally, FSRP has committed approximately \$39.4 million for all-weather access road improvements and levee repair projects to rural portions of the SPFC. This amount includes approximately \$4.2 million in local-share contributions. These committed projects are in various stages of permitting/design/construction. Projects supported with these funds include 10 all-weather levee access road repair projects, 7 critical erosion repair projects and 1 control structure repair project. FMO staff continues to develop work agreements to commit additional FSRP funding for these types of rural levee repair projects.
- LLAP - This is a statewide grant program for non-SPFC levees. This program has been very well received and is winding down. Final awards for \$15.3M in new projects, one in the Central Valley, are in process based on a solicitation that closed March 17, 2015.
- FCP - A final solicitation is planned for FY 2016/17 to award approximately \$10M to \$15M in grant funds. Approximately half the existing FCP projects are within the Central Valley, and the future awards are likely to follow a similar geographic distribution.

**11(j) DWR, in coordination with the Board, USACE, local agencies and the public will initiate state-led basin-wide feasibility studies for the Sacramento and San Joaquin River Basins (in time to inform the 2017 CVFPP update) to evaluate and refine the conceptual system improvement elements described in the adopted CVFPP, including bypass expansions and new bypasses, and evaluate appropriate regional plan elements at the system-wide level. These are likely to include the formation of one or more working groups to identify potential implementation challenges and solutions, potential effects on local and regional land uses and economies, and specific multi-benefit objectives for system elements.**

The Basin-wide Feasibility Studies: Sacramento Basin and San Joaquin Basin, were initiated in September 2012. Both basin studies are at the later stages of the planning process, described below.

The Basin-wide Feasibility Studies, Sacramento Basin, is preparing a draft document for stakeholder review. At the January CVFPP Coordinating Committee meeting, DWR provided an update on its development of the study, including description of a tentatively recommended option. No recommended option will be identified for the Feather River/Sutter

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Bypass. Next steps are release of a stakeholder review draft Sacramento River BWFS in e spring 2016 and incorporation into the draft 2017 CVFPP.

The Basin-wide Feasibility Studies, San Joaquin Basin, identifies a tentatively recommended plan for the San Joaquin River Basin. Next steps are communications and engagement with stakeholders on the tentative recommendations, incorporation into the draft 2017 CVFPP, and preparation of a stakeholder review draft San Joaquin River BWFS in the summer of 2016.

The communication and engagement for basin-wide feasibility studies will continue to leverage existing venues and opportunities, including the Board's Coordinating Committee, monthly Board meetings, venues established by the RFMP efforts, informal meetings, and other processes.

Interested parties can join the Central valley Flood Management Planning (CVFMP) email list by emailing the request to [cvfmp@water.ca.gov](mailto:cvfmp@water.ca.gov) The CVFMP website address is [www.water.ca.gov/cvfmp](http://www.water.ca.gov/cvfmp) and past presentations can be accessed at [www.water.ca.gov/cvfmp/meetings](http://www.water.ca.gov/cvfmp/meetings)

**11(l) In conducting post-adoption implementation activities associated with the adopted CVFPP, DWR will work with the Board on other ongoing projects and programs in the Central Valley to identify mutual objectives, complementary project elements, and improve the efficiency of outreach and engagement with stakeholders and the public.**

DWR meets regularly with the Board in a variety of forums to coordinate implementation of the CVFPP and related efforts, including DWR's update at the monthly Board meeting. Furthermore, DWR participates in the monthly Coordinating Committee meeting and the Coordinating Committee Steering Committee, and an executive-level meeting between the Board's President and DWR's Executive Management and respective staff on a monthly basis. The Board also receives project specific briefings when requested, or as necessary to inform the Board of significant issues, funding requests, or change in project status. CVFPO has regular discussions with Board staff and Board members for continuous coordination and for addressing specific concerns. Where appropriate, or upon request, DWR has included Board staff and member(s) in meetings and other engagements.

Interested parties can join the Central valley Flood Management Planning (CVFMP) email list by emailing the request to [cvfmp@water.ca.gov](mailto:cvfmp@water.ca.gov) The CVFMP website address is [www.water.ca.gov/cvfmp](http://www.water.ca.gov/cvfmp) and past presentations can be accessed at [www.water.ca.gov/cvfmp/meetings](http://www.water.ca.gov/cvfmp/meetings)

**11(n) DWR will continue to make investments in new data, analysis tools, and system-wide benefit policies to support refinement of the physical**

**elements of the adopted CVFPP, and assess the feasibility of project-specific implementation actions and local planning efforts.**

To support implementation of the SSIA detailed in the 2012 CVFPP, DWR continues investing in new data, tools, and systemwide policies as discussed below:

- A Library of Flood Models was developed to provide access to DWR programs and partner agencies and to reduce duplication of model development efforts and ensure that the most current models are available for use in Flood analysis. Significant progress has been made in populating the library with new FloodSAFE models. Most of CVFED foundational models are populated in LOM. Continued progress is made to populate rest of the FloodSAFE models as they become available.
- Flood Forecasting continues to be enhanced by expanding a variety of hydro-meteorological monitoring efforts that also support improved reservoir operations and increase understanding of climate and climate change.
- Inspection and documentation of the levees and appurtenant facilities of the State Plan of Flood Control is ongoing and updated annually.
- The annual inspection of the levees, channels, and structures of the SPFC has been streamlined and modernized with geo-referenced data and maps and improved coordination with local maintaining agencies.
- 95% of LMAs complied with AB156 annual reporting requirements in 2014 and 98% complied in 2015.
- Forecast-Coordinated Operations to reduce peak downstream flood flows is ongoing and is expanding from the Yuba-Feather Basin to flood control reservoirs in the San Joaquin Basin. Reservoir operations modeling and simulations of reservoir operations is an ongoing effort.
- Forecast-Informed Operations is being implemented in other Central Valley river basins.
- Improving data exchange is an ongoing, continuous process. The development of the Flood Emergency Response Information Exchange (FERIX) website to facilitate exchange of information among flood agencies, local levee maintaining agencies, reservoir operators, etc., is complete and the website is available to flood management partners and public safety agencies. Enhancements to the user interface and the addition of more flood control system data is continuing.
- Data acquisition under the Central Valley Topography Acquisition Project is complete. Data obtained includes Digital Aerial Photography (DAP) (9,000 square miles), Initial Post-Processed LIDAR (7,800 square miles), Final Post-Processed LIDAR (5,700 square miles), and bathymetric and field surveys (5,500 cross sections). DWR is releasing approved DAP and Final Post-Processed LIDAR to local, state and federal agencies.
- The Central Valley Hydrology Study, a partnership study with the USACE to update stream flow frequencies and magnitudes of the Sacramento and San Joaquin Rivers and their major tributaries, is essentially complete. The current effort is on delivery of models, datasets, and documentation, and on completion of the final study report.
- The Central Valley Hydraulic Evaluation Project to update hydraulic models for Central Valley rivers and streams to support local, regional, and basin-wide flood

planning efforts, and emergency response applications including enhanced river stage forecasting is completed.

- A geotechnical assessment of the Central Valley levees was completed on April 30, 2015 and program status has been updated monthly in the DWR report to the CVFPB. This information is available online at the following website: [www.dwr-lep.com](http://www.dwr-lep.com)
- The Levees Evaluation team is currently providing technical assistance to the USBR led San Joaquin River Restoration Project.
- Floodplain mapping under the Central Valley Floodplain Delineation Project is completed. The project provided urban 200-year SPFC informational floodplain maps for the urban communities of Chico, Yuba City, Marysville, Davis, Woodland, West Sacramento, Sacramento, Stockton, Lathrop, and Merced. Additional follow-up technical support for the Stockton area is completed.
- Development of a Searchable Flood Inundation Maps for Simulated Levee Breaches has been completed with electronic maps for potential SPFC levee breach scenarios at various river stages at selected locations along the Sacramento and San Joaquin Rivers systems. Effort is ongoing to integrate these maps into FERIX system to support pre-season preparedness, emergency coordination and information exchange with partner agencies during real time flood operations.
- Development of Levee Flood Protection Zones (LFPZ) maps, to provide an initial level of awareness to property owners protected by SPFC levees, is complete for 2,205 square miles of land in 17 counties in the Central Valley protected by SPFC levees. Scoping has begun to determine the amount of effort needed to update the SPFC LFPZ maps/boundaries using modeling tools developed by the CVFED program.
- Awareness (Approximate) Floodplain Mapping, 100-year advisory (non-regulatory) flood event maps for areas in the state expected to have some development in the next 25 years is complete with mapping of 26,500 river and stream miles.
- The Building Standards Code updates for areas protected by SPFC facilities where flood levels are anticipated to exceed 3 feet for a 200-year flood event were implemented as voluntary code within the 2010 California Building Standards Code. Appendix K and the 2010 California Residential Code Appendix R (California Code of Regulations, Title 24, Part 2 and Part 2.5 respectively).
- Community Assistance Visits are ongoing with more than 124 community assistance visits and over 45 local floodplain management training workshops conducted to date.
- Flood Risk annual notification is ongoing with written flood risk notices mailed annually to property owners of more than 350,000 distinct properties and 275,000 property owners in 2010, 2011, 2012, 2013, 2014, and 2015. This notification is unique in that it utilizes both GIS information about local flood risks and county assessor parcel databases to produce notices that are targeted to and provide specific local flood risk information for each parcel.
- A "Best-Available Maps" database was established to provide best available federal, state, and local flood inundation maps for each county within California. State agencies, counties and consultants regularly ask for BAM datasets for the entire state or a regional area.

- DWR completed development of robust benefit assessment procedures that can be applied to a broad range of integrated water management projects, including multi-benefit flood management improvement projects. The “Handbook for Assessing Value of State Flood Management Investments” is available on request.
- DWR, in partnership with the Department of Fish and Wildlife and the U.S. Fish and Wildlife Service, is refining an existing data management system to track gains and losses of habitat within the flood system over time.
- The Floodplain Restoration Opportunity Area analysis, initially described in the 2012 Conservation Framework, has been refined to incorporate other factors that add or detract from an area’s potential restoration suitability.
- DWR has completed a more detailed assessment of all major fish passage barriers within the flood system, focusing on strategic needs and opportunities along individual river reaches.
- The first fine-scale vegetation data set for the entire SPFC flood system has been completed. This provides higher resolution and more detailed information about the distribution and condition of natural habitat and other land cover within the flood system.

**11(o) DWR will conduct additional analyses to evaluate the effects of climate change and the effectiveness of various flood system improvements proposed in the SSIA to accommodate future changes in hydrology and sea level rise, for use in the basin-wide feasibility studies.**

DWR continues working with climate change experts to advance the knowledge of atmospheric rivers, a phenomenon that statistically correlates with historical California flooding. This new information will help bridge the gaps in current understanding of atmospheric river intensity changes under climate change conditions. A presentation titled “Incorporation of Climate Change in CVFPP Flood Planning Activities” was made at the CVFPB Coordination Committee meeting on June 25, 2014 and is available on the Regional Flood Management Planning (RFMP) website. An updated presentation on CVFPP “Hydrologic Variability and Climate Change” was presented at the July 2015 CVFPB Coordinating Committee meeting. The website address is [www.RFMPCC.com](http://www.RFMPCC.com). A link to the website can also be found on the Board’s website at [www.CVFPB.ca.gov](http://www.CVFPB.ca.gov).

**11(p) The proposed CVFPP includes the Folsom Dam Joint Federal Project, the Folsom Dam Water Control Manual Update Project, the Folsom Dam Raise Project, the Yuba-Feather Rivers Joint Project for Forecast Coordinated Operations (FCO), and FCO for other reservoirs. These projects will have the effect of increasing and / or improving the use of the reservoir storage space for flood management. In addition to these projects, DWR will: (1) consider reservoir reoperations, expansions or modifications, including those proposed by local or regional entities; and (2) continue to consider flood management as an objective of its ongoing multi-benefit surface storage investigations and system-wide reoperation studies. Should these related DWR efforts identify flood management as a component of a**

**feasible reservoir storage project, such project may be proposed for implementation under the adopted CVFPP and / or may be reflected in future updates to the adopted CVFPP.**

DWR is actively collaborating with the USACE and local flood management agencies in USACE/Board cost-shared flood control projects and feasibility studies in the Central Valley that will result in the increase and/or improvement in the use of reservoir storage space for flood risk reduction. The Folsom Dam Joint-Federal Project is currently under construction (see DWR monthly reports to the CVFPB for further details). The Folsom Dam Raise Project is on the near horizon and DWR is negotiating with the USACE and the Sacramento Area Flood Control Agency for the Project Partnering Agreement. DWR is actively participating in the update of the Folsom Dam Water Control Manual in coordination with the USACE, SAFCA, and the U.S. Bureau of Reclamation. DWR is analyzing and developing operational parameters to incorporate forecasts and upstream watershed conditions into potential reservoir operations. Public outreach and collaboration is ongoing under the direction of the USACE.

Enhancement of the Yuba-Feather Forecast-Coordinated Operations is ongoing as is development of the San Joaquin Forecast-Coordinated Operations (see 11(n) above). Flood risk reduction is currently, and will continue to be, included as an objective in multi-benefit surface storage investigations and systemwide reoperation studies on the Sacramento and San Joaquin river systems.

**11(q) DWR will continue to provide guidance, criteria, data, analyses and technical support to assist cities and counties in making findings related to the urban level of flood protection and related land use planning requirements that come into effect upon adoption of the CVFPP to assist them to meet their statutory deadlines. The Board encourages DWR to provide preliminary 100- and 200-year floodplain mapping of areas protected by SPFC facilities to cities and counties by July 1, 2013 to allow cities and counties to meet their statutory deadlines.**

DWR completed the Urban Levee Design Criteria (ULDC) in May 2012 and Urban Level of Flood Protection (ULOP) Criteria in November 2013. ULDC is engineering criteria that are incorporated by reference in the ULOP Criteria where levees and floodwalls are used for providing urban level of flood protection (200-year level of protection). Subsequent Senate Bill 1278 and Assembly Bill 1965 of 2012 amended the original Senate Bill 5 of 2007 to clarify certain aspects of the 2007 legislation and to amend some of the milestone dates and time frames included in the original legislation. In addition, SB 1278 requires DWR to provide information maps for the 200-year floodplain in urban areas from the Sacramento and San Joaquin river systems due to the failure of SPFC facilities by July, 2013. DWR has completed the draft information maps in June 2013 and made them available to 10 urban areas in the Central Valley. DWR is conducting additional coordination with cities and counties on map review and potential applications, as well as meeting with local agencies and their consultants who are in the process of making a Finding of Urban Level of Protection.

In response to the legislation amendments and associated changes, DWR reinitiated a work group process to refine the ULOP Criteria. The ULOP Criteria included participants from cities and counties, planning professionals, floodplain managers, environmental interests, and Board members and staff. The criteria refinements were completed in October 2013. As a separate effort, DWR also initiated efforts to develop model language and references for cities and counties when updating their General Plan pursuant to legislation requirements.

In 2010, DWR published a report titled "Implementing California Flood Legislation into Local Land Use Planning: A Handbook for Local Communities" and in 2014, a report titled: "Addendum to Implementing California Flood Legislation into Local Land Use Planning: A Handbook for Local Communities." In October 2014, DWR completed report titled "Guidance on General Plan Amendments for Addressing Flood Risks". The purpose of this report is to provide technical assistance to cities and counties related to their compliance requirements to amend their General Plans and ordinances. DWR worked with Board staff in this process, and invited agencies and organizations (including those identified in the legislation) to provide early review and comments on the document to ensure the guidance is accessible and useful for the intended audience. DWR continues to provide technical assistance to communities on meeting the ULOP government code requirements when requested.

**11(r) Studies and analyses that result from implementation of the adopted CVFPP will be included in the 2017 update of the CVFPP and will be shared with the USACE to be considered in its Central Valley Integrated Flood Management Study scheduled for release at the same time, consistent with the state's goal to maximize federal and local cost sharing.**

DWR worked closely with USACE to re-scope the Central Valley Integrated Flood Management Study (Watershed Study) consistent with USACE planning modernization guidance and CVFPP, and as a result, a revised Feasibility Cost Share Agreement (FCSA) for the Watershed Study was approved by the Board in August 2013. The revised FCSA encompasses a 3-year, \$5 million watershed study focused on the Sacramento Basin. The USACE released the draft Watershed Study to stakeholders on December 9, 2015 and a public meeting was held on December 16, 2015. The CVIFMS team continues to make progress with the study and is currently reconciling comments on the Draft Final report released in November 2015. Once the comments received from USACE South Pacific Division as well as sponsor and internal team comments are reconciled and a final quality control check is complete, the Watershed Report will be sent to USACE Headquarters at the end of March 2016 for approval. Relevant information and data from the CFMS will be incorporated into the 2017 CVFPP.

**11(s) DWR will sponsor regional flood management planning efforts which will develop regional plans that present stakeholder perspectives of flood management priorities for each region, the results of which will be**

**coordinated between regions and integrated into or consistent with the basin-wide plans. Regional planning should create a role for all interested stakeholders including representatives from agricultural, city and county, conservation, environmental, landowner, and water supply interests as well as the flood control agencies and organizations.**

Regional Flood Management Plans (RFMP) have been completed for the following regions: Feather River Region; Mid and Upper Sacramento Region; Lower Sacramento River/Delta North Region; Lower San Joaquin River/Delta South Region; Mid San Joaquin River Region; and Upper San Joaquin River Region. Links to final RFMP reports for all six regions are available at the Coordinating Committee website at [www.RFMPCC.com](http://www.RFMPCC.com).

DWR has amended each of the six RFMP funding agreements for time, scope, and budget to facilitate regional engagement with DWR, the Board, and stakeholders through adoption of 2017 CVFPP. Each region has developed work plans for 2015 to describe their near-term activities for RFMP Phase 2.

DWR staff has reviewed each final RFMP document and has toured each of the regions and met with the regional leads and other individuals responsible for producing each plan. DWR has extracted the recommendations from each RFMP and categorized the recommendations into various categories including repairs, encroachments, operations and maintenance, and levee improvements. The focus of the continued meetings with the RFMP teams is to get the local perspective firsthand, visit key project sites and local landowners, exchange information on the regional and state plans, and discuss integration of the regional effort with the 2017 CVFPP update, the Conservation Strategy, and developing DWR flood management programs such as the Urban and Small Communities Flood Risk Reduction Programs.

Based on a thorough review of the six regional plans, DWR has prepared a Regional Flood Management Planning Phase 1 Summary and shared it with the regions in August 2015. DWR has scheduled and conducted a series of meetings with each region to review the content of the binder and specifically, gain more information on the management actions, further studies, and projects that they consider a top priority and that collectively best represent the overall magnitude of investment needed in their region. This collaborative screening process will result in a portfolio of management actions for each region that are anticipated to deliver the desired outcomes consistent with the goals of the CVFPP. Combined with the findings of the two feasibility studies, the regional perspectives provided in the RFMPs are essential to the 2017 CVFPP, which will present a compelling case for a reasonable short and long-term investment in multi-benefit Central Valley flood risk management.

**11(y) For those deliverables and processes set forth in items (a) through (x) above, it is understood that DWR shall provide quarterly reports to the Board regarding schedules and progress.**

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This report provides an update on information regarding schedules and progress related to CVFPP-SSIA implementation as outlined within the Board's Resolution. In addition, DWR will continue to provide monthly reports and project specific briefings to the Board, the Coordinating Committee and interested parties.