

CALIFORNIA DEPARTMENT OF WATER RESOURCES

REPORT OF ACTIVITIES

JUNE 2023

THE PURPOSE OF THIS REPORT...

is to provide a brief update to Central Valley Flood Protection Board (CVFPB) members on California Department of Water Resources (DWR) activities that occurred in the previous month. This report is organized by the five DWR mega-programs:

- Flood Emergency Response
- Floodplain Risk Management
- Flood Risk Reduction Projects
- Flood Management Planning
- Flood System Operations and Maintenance

Only programs with updates for this month have been included in this report. Programs not listed in this month's report may be included in future reports if updates are provided.

*** NOTE: This report contains information from March, April, and May, as the last written report submitted covered February 2023. Due to staff activation during the high-water events, some programs do not have items for this report, and will resume reporting next month.**

If you have any questions or concerns regarding this report, please contact Eric Nichol, Assistant Manager, Division of Flood Management (DFM) at Eric.Nichol@water.ca.gov.

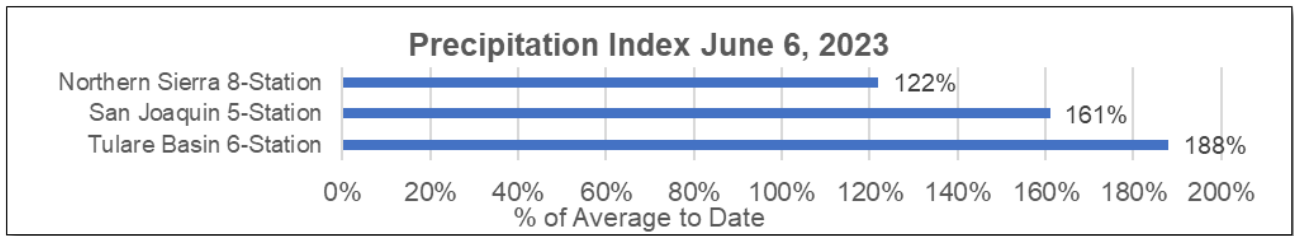
FLOOD EMERGENCY RESPONSE (FER)

FER // REAL-TIME FLOOD CONDITIONS, STATUS, & WARNING

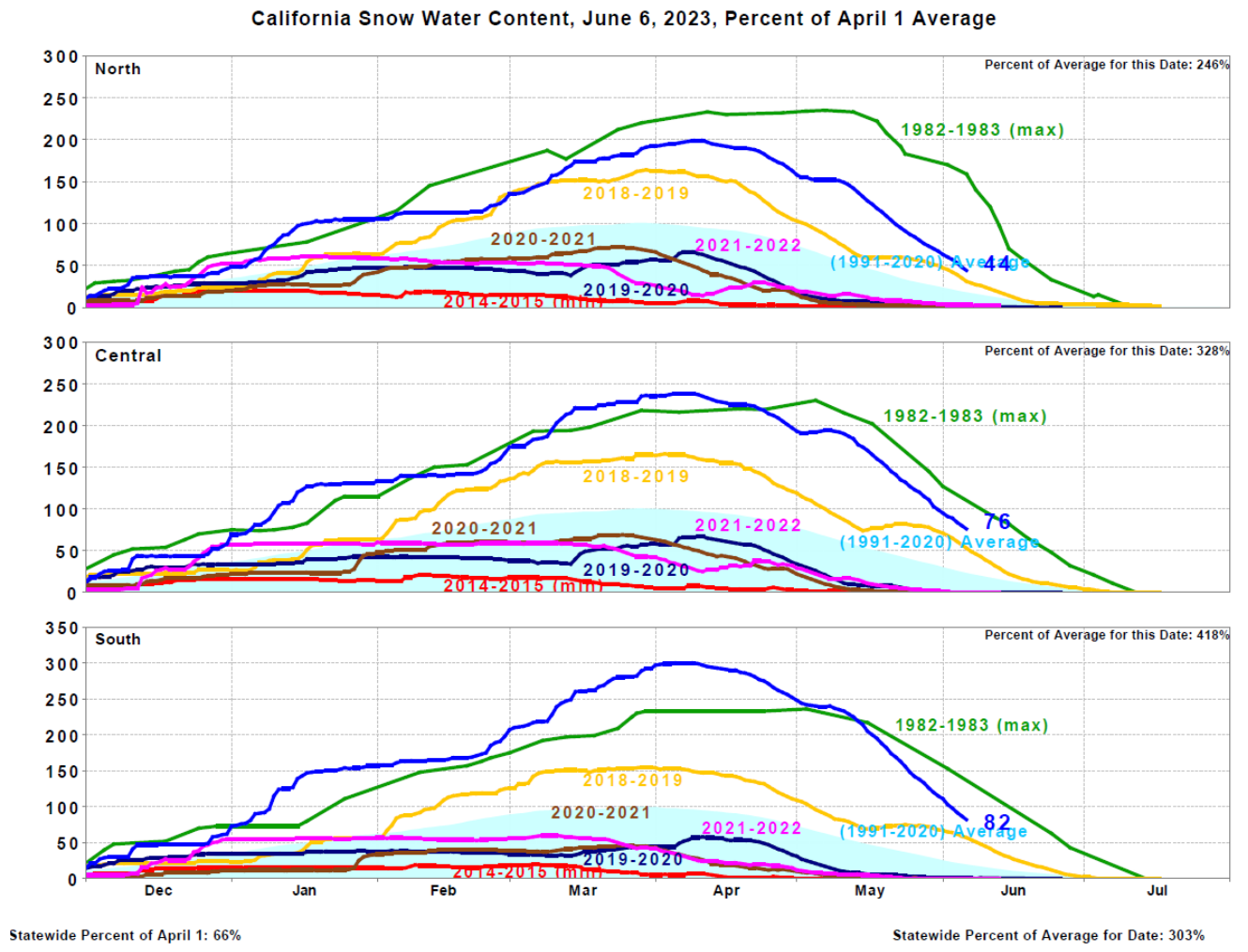
- On March 2, FPIU held its quarterly LMA Coordination meeting. This meeting provides the CVFPB, LMAs, and DWR staff an opportunity to share information relevant to the flood control system.
- During March, April, and May, the eight Flood Fight Specialists in the Flood Project Inspection Unit (FPIU) were deployed to approximately 50 locations throughout California to provide technical assistance and have been involved in directing 9 flood fights during that time.
- During March, April, and May, FPIU inspectors inspected 14 of the designated floodway reaches. Two new reaches were added to the designated floodway inspections this year, so there is a total of 62 reaches (instead of 60 as seen in previous years). All 62 reaches have been inspected this year.
- During March, April, and May, FPIU inspectors completed 1,300 miles out of 1,548 miles of the 2023 Spring Levee Inspections. Due to the atmospheric rivers and near-record snowfall in the Sierra Nevada, the remaining SPFC levees will not be inspected this spring. The levees that were not inspected are in the lower San Joaquin area. As a result of the large snowpack and ongoing snowmelt, high water has been on these levees during the spring inspections and the LMA maintainers have been busy patrolling and conducting localized flood fights. These areas will be inspected in September after the high water has receded.
- To date, Local Maintaining Agency Assessment Unit (LMAAU) staff inspected 196 utility crossings for the 2023 Utility Crossing Inspection Program (UCIP). Data entry has been completed for 92 of those pipes (47% complete).
- To date, LMAAU staff performed detailed updates on 666 (32%) out of the 2,101 pipes inspected in 2022. Of those 2,101 pipes, 119 (6%) are QA final for the 2022 QAP.
- To date, LMAAU staff performed detailed updates on 2,525 (94%) out of the 2,679 pipes inspected in 2021. Of those 2,679 pipes, 1,826 (68%) are now QA final for the 2021 QAP.

FER // HYDRO-CLIMATE DATA COLLECTION & PRECIPITATION / RUNOFF FORECASTING

- During the month of May, California was cooler and drier than average. The monthly precipitation total was 1.9 inches or 68% of average in the Northern Sierra, 1.0 inches or 48% of average in the San Joaquin, and 0.4 inches or 31% of average in the Tulare Basin.
- National Weather Service (NWS) Climate Prediction Center (CPC) long-range, 1-month outlook for June 2023 suggests:
 - Equal chance of above or below average temperatures in northern California with below average temperatures in central and southern California.
 - Above average precipitation in northern and central California with equal chance of above or below average precipitation in southern California.



The Precipitation Index bar chart for June 6, presents the yearly total precipitation to date as a percentage of normal for three major basins: Northern Sierra 122% (63.1 inches to date), San Joaquin 161% (62.3 inches to date), and Tulare 188% (51.6 inches to date).



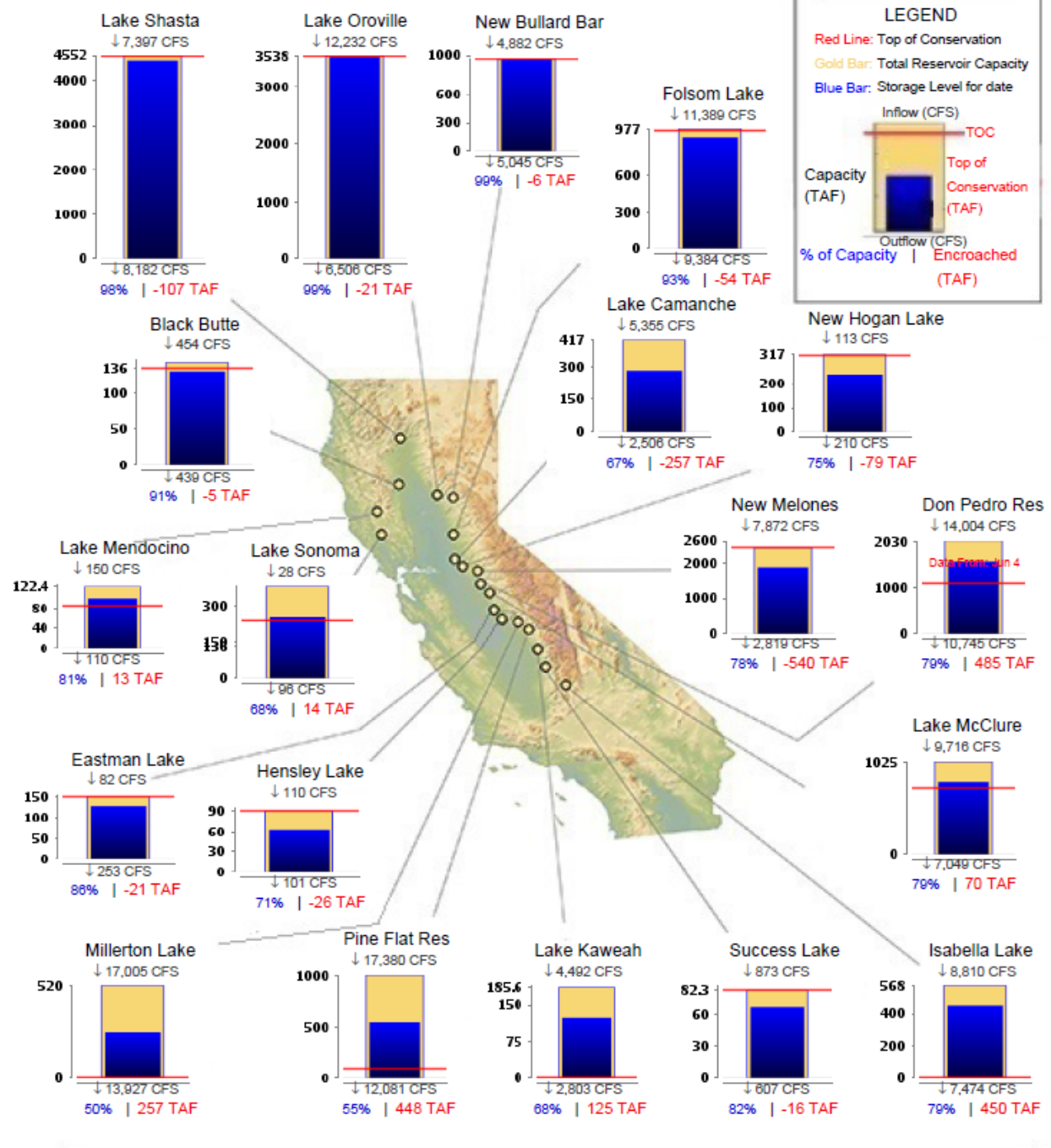
The California Snow Water Content graph for June 6, plots the current snow water content as a percent of April 1 average for the Northern, Central, and Southern Sierra Nevada. As of the morning of June 6, the snowpack in Northern, Central and Southern Sierra were 12.7, 18.6, and 15.3 inches respectively, or 44%, 76%, and 82% of the April 1 average respectively. Statewide snowpack was 16.1 inches or 66% of the April 1 average.

FER // RESERVOIR OPERATIONS & RIVER FORECASTING

TOP OF CONSERVATION CONDITIONS (TOC)

Midnight - June 5, 2023

CENTRAL VALLEY RUSSIAN RIVER FLOOD CONTROL RESERVOIRS



Updated 06/06/2023 11:48 AM

The Top of Conservation for Central Valley and Russian River Flood Control Reservoirs figure, dated June 5, shows reservoir storage ranges from 50 percent of capacity at Millerton Lake (San Joaquin River) to 99 percent of capacity at New Bullards Bar Reservoir (Yuba River). Shasta Reservoir is at 98 percent of capacity, and Lake Oroville is at 99 percent of capacity. Eight of the reservoirs are currently encroached into their flood conservation storage space.

FER // FLOOD EMERGENCY PREPAREDNESS & OPERATIONS

- The Flood Operations Center (FOC) is activated/staffed from 0800 – 1700 Monday-Friday, and at duty monitor status after hours and on weekends.
- The FOC continues to monitor conditions and make high water notification calls when river stages are forecast to reach critical stages.
- The FOC continues to coordinate with counties to fulfill resource requests.
- A DWR representative continues to support San Joaquin County OES remotely and a flood fight specialist attends the weekly levee maintaining agencies field meeting.
- 7-miles of wavewash protection placement that began in May on the Corcoran levee in Kings County is near completion.
- Flood fight materials have been pre-positioned in the Tulare Basin region to provide a more rapid and efficient response to requests:

Type	Coalinga (Fresno County)	Gustine (Merced County)	Lost Hills (Kern County)	Mettler (Kern County)
Plastic (roll)	126	126	126	126
Poly Sandbags	507,500	475,000	504,000	504,000
HESCO (L.F.)	2,760	2,700	2,700	2,700
Super Sacks	3,200	11,200	10,000	2,800
Muscle Wall (unit)	0	256	0	768

(Burlap sandbags, stakes, buttons, and twine are also positioned at each location)

FLOODPLAIN RISK MANAGEMENT (FRM)

FRM // RISK ASSESSMENT & MAPPING SECTION

- April 18: Staff moderated a CA Water & Environmental Modeling Forum session titled “Extreme Flood Events under Climate Change in California,” with presentations by DWR/State Climatologist, Scripps Institution of Oceanography, DWR/Climate Change Adaptation Program, and Desert Research Institute Hydrologic Sciences.
- May 10: Provided FEMA consultant team data and reports of the 2012 Central Valley Hydrology Study to be used for the Fresno and Madera County flood insurance study.

FRM // FLOOD PLANNING SECTION

- April - May: All six Regional Flood Management Program agreements have been executed with local regional flood management planning workgroups have been executed. The effective date for all agreements is April 1, 2023.

FLOOD RISK REDUCTION PROJECTS (FRRP)

FRRP // DELTA LEVEE SYSTEM INTEGRITY (DLSI)

Delta Levees Maintenance Subventions Program

- **Subventions Program FY 2020-21**
 - CVFPB approved \$12 million for the FY 2020-21 Funding Plan. (June 26, 2020)
 - 73 work agreements executed.
 - 72 final claims for \$9.5 million have been processed for reimbursement.
- **Subventions Program FY 2021-22**
 - 73 applications for \$54 million were received and reviewed.
 - CVFPB approved \$10 million for the FY 2021-22 Funding Plan (June 25, 2021).
 - CVFPB approved an additional \$2 million for the FY2021-22 Amended Funding Plan, for a total of \$12 million (June 24, 2022).
 - 73 work agreements executed.
 - 72 final claims have been received for \$16.3M (estimated reimbursement \$11.6)
 - 66 final claims for \$9.0 million are being processed for reimbursement.
- **Subventions Program FY 2022-23**
 - 72 applications for \$61 million have been received and reviewed.
 - The CVFPB approved \$12 million for the FY 2022-23 Funding Plan (June 24, 2022).
 - Work agreements are due June 2023.
- **Subventions Program FY 2023-24**
 - 72 applications for \$62.5 million have been received and are being reviewed.

FRRP // USACE PROJECTS

American River Common Features – Natomas Basin (USACE)

- On April 10, 2023, USACE awarded the Reach E Construction contract. Notice to proceed is anticipated to be on May 15, 2023, with the construction start date in June 2023 and construction completion in 2026.

American River Common Features – 2016 Project (USACE)

- A Supplemental Environmental Assessment/ Environmental Impact Report (SEA/EIR) was circulated for public review from March 1, 2023 – April 14, 2023, to comply with the National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA). A virtual public meeting regarding the document was held on March 22, 2023, at 4:30 pm.
- Concerns over DWR's certified real estate rights on the second parking lot near at Cliff's Marina were raised from Senator Bill Dodd's office. The following information was provided to address the concern:

- DWR has certified real estate rights for the project.
- The public was also notified of the project via the EIR/EIS document.
- Per current design and planning, only one of the two parking lots would be affected. There is a potential for the second parking lot to be affected but as of now, the contractor has not indicated any need to use both parking lots at the same time which could affect public access to the Marina.
- USACE opened construction bids on April 10 for the Sacramento Weir widening. The construction contract was awarded on May 3 and construction activities are anticipated to begin in July or August. Due to overlapping construction areas between the Sacramento Weir widening project and DWR's Lower Elkhorn Basin Levee Setback (LEBLS) project, USACE has requirements for their contractor to coordinate construction activities with LEBLS.

Folsom Dam Raise Project

- Main Dam & Left- and Right-Wing Dams (MD/LRWD) project contract was Awarded on March 31, 2023, to Shimmick Construction and California Engineering Company (Joint Venture).
- Dikes 1 through 6 project bid opening was on April 13, 2023, and was awarded on May 1, 2023, Construction is scheduled to begin August 2023 and be completed July 2026. Portions of Dikes 1-6 are being raised by compacted fill up to 3.5' for a total length of 2.1 miles along the Dikes. Concrete floodwalls will be placed along some sections of Dike's 1, 4, 5 and 6.

Marysville Ring Levee Improvement Project

- On March 31, 2023, USACE gave the Notice to Proceed to the selected contractor (NorthStar Odin JV) for the Phase 2B project. A kick-off meeting occurred April 10, 2023, with construction anticipated to begin in July 2023.
- Hwy 70 gap 95% design documents were completed on April 28, 2023. The Hwy 70 gap project will place 400 feet of seepage berm under the Hwy 70 overpass and will bridge the gap between the Phase 3 cutoff wall and the Phase 2C cutoff wall. No significant impacts to traffic are anticipated because of the construction. Final plans and specifications are scheduled to be completed by June 9, 2023, with construction anticipated in the 2024 construction season.

San Joaquin River Basin, Lower San Joaquin River California Project (PED)

- The SEIR/SEA for the TS30L levee was submitted for Public Review on May 31, 2023 and will end on July 17, 2023. An in-person and online public meeting is scheduled for June 26, 2023.
- The 10% design report for the levee design along Shima Tract Phase A, is scheduled to be completed this month.
- SJAFCA's public outreach for the upcoming Assessment District ballot has been on-going for the project. Ballots have been sent out and must all be turned in by June 8, 2023. The results will be disclosed at the SJAFCA Board meeting on June 15, 2023.
- Land acquisition negotiations for the mitigation land for TS30L have started.

West Sacramento Levee Improvement Project (USACE)

- April 21, 2023, USACE awarded to the low bidder, Nordic Enterprises, the bid for the Yolo Bypass East Levee (YBEL) South project. Project notice to proceed for construction is anticipated to be given on August 15th, 2023.
- On May 26, 2023, USACE posted the solicitation for the YBEL North improvements project. The bids are tentatively due June 22, 2023.

FRRP // USACE STUDIES**Lower San Joaquin (Lathrop & Manteca), CA**

- The second USACE Lower San Joaquin Executive Leadership Board meeting, scheduled for Friday, May 19th, 2023, from 1:30 to 3:30 pm, was cancelled. This meeting will be rescheduled for some time in July or August 2023.

FRRP // URBAN FLOOD RISK REDUCTION PROGRAM (UFRR)**TRLIA – 200-year Goldfields Levee Project (UFRR)**

- On April 1, 2023, TRLIA submitted 90% plan documents for the Climate Resiliency Project that proposes to provide 500-yr protection to the RD784 urban levee system. DWR staff is currently reviewing the plan documents.
- On April 1, 2023, TRLIA submitted the Draft Final Goldfields Multi-Benefit Feasibility Study to analyze replacing the existing 100-yr embankment. DWR staff is currently reviewing the study.

TRLIA – Upper Yuba River Levee Improvement Project (EIP)

- On May 22, 2023, the final retention payment and final project payment was sent to the Division of Fiscal Services for processing.

FRRP // SYSTEMWIDE FLOOD RISK REDUCTION (SFRR)**Lower Elkhorn Basin Levee Setback (LEBLS) Project**

- The pump station contractor has completed nearly all work and is conducting startup and commissioning testing of the pump station. The LEBLS contractor is preparing for removal of the existing levee after receiving approval from USACE to proceed. AT&T is mobilizing to install a temporary fiber optic line to have in place so the existing fiber optic line along the existing levee can be removed. The LEBLS contractor is scheduled to complete the remaining portions of the new setback levee this construction season and remove the existing levee.

Flood System Operations and Maintenance

Flood Maintenance and Operations Branch is responsible for two areas of State Plan of Flood Control (SPFC) facilities: State Maintained Areas (SMAs), which are authorized by CWC Section 8361, and ten Maintenance Areas (MAs), which are described in CWC Section 12878. SMAs are funded by state general funds, while MAs are funded by reimbursable accounts and through the assessments of property owners protected by the MA levees and facilities.

State Maintained Areas (SMAs):

- Levees: 142 miles
- Channels: 1,200 miles
- Flood Structures: 41 (weirs, gate structures, pumping plants, bridges, etc.)
- Collecting Canals: 44 miles

Maintenance Areas (MAs):

- MAs: MA01, 03, 04, 05, 07, 09, 12, 13, 16, and 17
- Levees: 148 miles
- Structures: 2 (1 pumping plant and 1 diversion weir)

CHANNEL MAINTENANCE & EVALUATIONS

Activities related to evaluating SPFC channels under DWR O&M responsibility to identify any deficiencies, and prioritizing (emergency, critical, serious, monitor) them for repair or rehabilitation. The following channel activities are currently being conducted:

- No updates.

FLOOD CONTROL FACILITIES & STRUCTURES

Activities related to evaluating all SPFC facilities to identify any deficiencies, and prioritizing (emergency, critical, serious, monitor) them for repair, rehabilitation, or replacement. These include structure functionality evaluations.

Structural Rehabilitation

- **Sutter Pumping Plants Rehabilitation Project:** On May 17, 2023, DWR awarded the construction contract to low bidder Syblon Reid. The Notice to Begin Work was issued on June 5, 2023.

LEVEE EVALUATIONS & REPAIRS

Activities related to evaluating all SPFC levees to identify any deficiencies, and prioritizing (emergency, critical, serious, monitor) them for repair, rehabilitation, or replacement. These evaluations include:

- Levee stability

- Levee penetrations, such as pipes and culverts
- Levee Tree Assessment
- Encroachments
- O&M right-of-way

Levee Repairs

- No updates.

*****End of Report*****