

CALIFORNIA DEPARTMENT OF WATER RESOURCES

Annual Report for DWR Investments on Delta Levees Fiscal Year 2023-2024



Purpose of Report

To inform the Delta Stewardship Council (DSC) of Department of Water Resources' (DWR) investment decisions regarding Sacramento-San Joaquin Delta (Delta) levees in Fiscal Year (FY) 23-24, pursuant to California Code of Regulations Title 23 § 5012, Prioritization of State Investments in Delta Levees and Risk Reduction.



DWR Annual Reporting Requirements

- A. Description of FY 23-24 DWR expenditures for delta levees
- B. List of all proposed levee improvement projects
- C. List of awarded levee improvement and maintenance projects, funding level, cost shares, priority, and location
- D. Description of each awarded project in FY 23-24, priority, level of flood protection changes or achieved
- E. List of funded projects that are inconsistent with Delta Levees Investment Strategy (DLIS) priorities
- F. A summary of the California Department of Water Resources' rationale for levee improvement project proposals submitted, but not awarded funding during the reporting year
- G. Summary and location of all funded levee improvement projects which were completed in FY 23-24



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FY 23-24 Summary of Expenditures

Program	Number of Projects	Expenditures FY 23-24*
Delta Levees	11	\$30.9 million
Systemwide	3	\$1.4 million
Flood Management	8	\$61.3 million

*Project funding information for FY 23-24 can be found in the Annual Report



Delta Levees Expenditures

District No.	Location	Project Title	FY 23-24 Expenditures	DLIS Priority
BALMD	Brannan Island	Design and Construction of District Multi-Benefit Project on Brannan Island	\$7,497,443	Very High
2028	Bacon Island	Engineering, Design, and Construction of District Levee Repair Project on Bacon Island	\$6,980,000	Very High
38	Staten Island	Engineering, Design, and Construction of District Levee Repair Project on Staten Island	\$3,499,200	Very High
	Grizzly Slough	Grizzly Slough Floodplain Project	\$1,696,911	Very High
BALMD	Brannan Island	Design and Construction of District Multi-Benefit Project on Brannan Island	\$1,586,808	Very High
1601	Twitchell Island	Twitchell Island Wetland Enhancement Restoration Project	\$637,044	Very High
2127	Simmons-Wheeler Island	Construction of District Levee Project on Simmons Wheeler Island	\$246,258	Very High
2038	Lower Jones Tract	Design and Construction of District Multi-Benefit Project on Lower Jones Tract	\$242,801	Very High
756	Bouldin Island	Engineering, Design, and Construction of District Levee Repair Project on Bouldin Island	\$7,770,000	High
2072	Woodward Island	Design and Construction of District Multi-Benefit Project on Woodward Island	\$549,998	High
2024	Orwood Palm Tract	Design and Construction of District Multi-Benefit Project on Orwood and Palm Tracts	\$ 230,010	High
		Total	\$30,936,473	



Systemwide Expenditures

District No.	Location	Project Title	FY 23-24 Expenditures	DLIS Priority
2060	Hasting Tract	RD 2060 Pipe Replacement	\$259,254	Very High
2084	Little Egbert Tract	Little Egbert Multi-Benefit Project	\$687,904	High
2068	Yolano	RD 2068 Levee Rehabilitation Project	\$482,027	High
		Total	\$ 1,429,185	



Flood Management Expenditures

District No.	Location	Project Title	FY 23-24 Expenditures	DLIS Priority
	Pocket Area Along the Sacramento River	American River Common Features 2016 (USACE)	\$10,710,000	Very High
	Stockton	Lower San Joaquin River California (LSJR) Project (USACE)	\$7,000,000	Very High
17	Mossdale Tract	Lower San Joaquin River Lathrop and Manteca Feasibility Study (USACE)	\$458,500	Very High
	Smith Canal & San Joaquin River in Stockton	Smith Canal Gate Project (UFRR)	\$6,842,490	High
369	Libby McNeil	RD 369 -- Libby McNeil Tract: Planning and Monitoring	\$938,200	High
	West Sacramento	West Sacramento Project (USACE)	\$25,000,000	Other
	SPFC Facilities and Levees	Deferred Maintenance Project (DMP)	\$7,722,840	none
	SPFC Facilities and Levees	Flood Maintenance Assistance Program (FMAP)	\$2,600,000	none
		Total	\$ 61,272,030	

Delta Levees Maintenance Subventions Program

FY2022-23

- CVFPB Approved Funding: \$13.5 million
- Final Claims Reimbursed: 70
- Reimbursement: \$12.9 million

FY2023-24

- CVFPB Approved Funding: \$14.0 million
- Final Claims: 71 received
- Reimbursement: TBD

FY2022-23 Island Priority List

- Very High: 23
- High: 22
- Other: 17
- Not Identified: 8

Program Deductible

- Urban Islands: 8 @ \$2500 per levee mile
- Rural Islands: 62 @ \$1000 per levee mile
- Cost Share: 25%



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FY 23-24 Project Proposals

Delta Levees Special Flood Control Projects 2023 Project Solicitation Package (PSP) for Multi-Benefit Projects released

- Available Funding - up to \$37 million
- Projects that promote:
 - levee improvements
 - habitat enhancement
 - seismic resiliency
 - and/or export water supply reliability
- Selected applications are funded in 2 phases
 - Phase 1 - project planning, design, and permitting
 - Phase 2 - project construction
 - Phase 1 award will not guarantee Phase 2 funding (*dependent upon available funding*)
- Five projects selected
 - Phase 1 – 4 projects
 - Phase 2 – 1 project



FY 23-24 Project Proposals Submitted

Delta Levees PSP for Multi-Benefit Projects received 17 concept proposals

Not Selected (12)

- 2023- Reclamation District 548 Multi-Benefit Project(s)
- Reclamation District 1607 Levee Improvement and Habitat Enhancement Project
- Webb Tract Levee Rehabilitation (San Joaquin River)
- Brack Tract Levee Rehabilitation Project (South Mokelumne River Corridor)
- Holland Tract Waterside Slope Armoring (Holland Cut)
- King Island Disappointment Slough Levee Rehabilitation and Multi-Benefit Project
- Medford Island San Joaquin River Levee Rehabilitation Project (San Joaquin River-Middle River)
- The Beaver Slough Multi-Benefit Project
- 2023-Reclamation District 1007 Multi-Benefit Project(s)
- Levee Improvement of the Suisun March Exterior Levee (Suisun Marsh)
- Bacon Island Levee Rehabilitation Project
- Levee Improvement in the Bethel Island Urban Area

Selected (5)

- Twitchell Island San Joaquin River Setback Levee – Reach
- Bouldin Island 2023 Multi-Benefit Project
- Hotchkiss Tract Perimeter Levee Improvement Project
- San Joaquin River Multi-Benefit Project on Sherman Island
- Mokelumne River Confluence Multi-Benefit Project on Staten Island



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FY 23-24 Project Proposals Awarded

Phase 1 – Planning/Design/Permitting

Reclamation District	Project Title	Estimated Total Project Cost	Phase 1 Total Project Cost	Phase1 State Cost Share	Phase 1 Local Cost Share	FY 23-24 Expenditures	DLIS Priority
RD 38 Staten Island	Mokelumne River Confluence Multi-Benefit Project on Staten Island (Phase 1)	\$15,787,021	\$1,516,854	\$1,350,000	\$166,854	\$0	Very High
RD 341 Sherman Island	San Joaquin River Multi-Benefit Project on Sherman Island (Phase 1)	\$8,966,554	\$898,876	\$800,000	\$98,876	\$0	Very High
RD 799 Hotchkiss Tract	Hotchkiss Tract Perimeter Levee Improvement Project (Phase 1)	\$3,374,800	\$591,954	\$515,000	\$76,954	\$0	Very High
RD 756 Bouldin Island	Reclamation District No. 756 (Bouldin Island) Multi-Benefit Project (Phase 1)	\$7,500,000	\$1,000,000	\$900,000	\$100,000	\$0	High
Totals		\$35,628,375	\$4,007,684	\$3,565,000	\$442,684		



FY 23-24 Project Proposals Awarded

Phase 2 - Construction

Reclamation District	Project Title	Total Project Cost	State Cost Share	Local Cost Share	FY 23-24 Expenditures	DLIS Priority
RD1601 Twitchell Island	Reclamation District No. 1601 – Twitchell Island San Joaquin River Setback Levee – Reach 6	\$17,526,400	\$15,000,000	\$2,526,400	\$0	Very High
	Totals	\$17,526,400	\$15,000,000	\$2,526,400		

Note: Twitchell Island has entered into a Phase 2 Agreement because it is shovel ready and will forgo a Phase 1 Agreement.



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FY 23-24 Project Proposals Awarded

Phase 1 – Planning/Design/Permitting

Reclamation District	Project Title	Project Description	Standard to Achieve	DLIS Priority
RD 38 Staten Island	Mokelumne River Confluence Multi-Benefit Project on Staten Island	Planning, engineering, and design of levee rehabilitation, approximately 4 miles, to the Delta Specific PL 84-99 Standard, create approximately 1 acre of Delta Levee Waterside Habitat.	PL 84-99	Very High
RD 341 Sherman Island	San Joaquin River Multi-Benefit Project on Sherman Island	Planning, engineering, and design of levee rehabilitation to the Delta Specific PL 84-99 Standard. Additionally, the Project will create approximately 1 acre of Riparian Forest and Scrub Shrub Habitat on the counterbalance berm.	PL 84-99	Very High
RD 799 Hotchkiss Tract	Hotchkiss Tract Perimeter Levee Improvement Project	Planning, engineering, and design of levee improvements that include raising the elevation on the crown to 10.5 feet while maintaining a minimum of 3H:1V landslide slope, maintaining the existing crown width at the minimum 16 feet to 20 feet where possible. Create waterside habitat along the Little Dutch and Dutch Slough.	Bulletin 192-82	Very High
RD 756 Bouldin Island	Reclamation District No. 756 (Bouldin Island) 2023 Multi-Benefit Project	Planning, engineering, and design of levee rehabilitation for approximately 8,500 feet (1.6 miles) of levee with waterside bench width of approximately 20 feet and will support a variety of habitat including Shaded Riverine Aquatic, Scrub Shrub, and Riparian Forest.	Bulletin 192-82	High



FY 23-24 Project Proposals Awarded

Phase 2 - Construction

Reclamation District	Project Title	Project Description	Standard to Achieve	DLIS Priority
RD1601 Twitchell Island	Reclamation District No. 1601 – Twitchell Island San Joaquin River Setback Levee – Reach 6	Construction to provide additional levee freeboard, landside improvements consist of the construction of the foundation berm and a new setback levee behind and attached to the existing levee. Provide channel margin habitat along this stretch of the San Joaquin River with approximately 5 design options to create a mosaic of three different habitat types (tule, marsh and mudflat, riparian forest and scrub, and upland scrub and grassland).	Bulletin 192-82	Very High

Note: Twitchell Island has entered into a Phase 2 Agreement because it is shovel ready and will forgo a Phase 1 Agreement.



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FY 23-24 Project Proposal Awarded

Inconsistent DLIS Priorities

- Bouldin Island – Phase 1 of District Multi-Benefit Project (DWR Grant)
 - Priority: High
 - Scored well in the 2023 Delta Levees Special Flood Control Projects PSP
 - Failure of levee could cause catastrophic failure
 - Project will provide ecosystem restoration, flood control, water supply and water quality benefits



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FY 23-24 Project Proposals Not Selected

Reclamation District	Location	Special Flood Control Proposed Project	DLIS Priority
348	New Hope Tract	The Beaver Slough Multi-Benefit Project	Very High
548	Terminous Tract	2023- Reclamation District 548 Multi-Benefit Project(s)	Very High
1607	Van Sickle Island	Reclamation District 1607 Levee Improvement and Habitat Enhancement Project	Very High
2026	Webb Tract	Webb Tract Levee Rehabilitation (San Joaquin River)	Very High
2028	Bacon Island	Bacon Island Levee Rehabilitation Project (Middle River)	Very High
2127	Simmons-Wheeler	Levee Improvement of the Suisun March Exterior Levee (Suisun Marsh)	Very High
BIMID	Bethel Island	Levee Improvement in the Bethel Island Urban Area	Very High
2033	Brack Tract	Brack Tract Levee Rehabilitation Project (South Mokelumne River Corridor)	High
2025	Holland Tract	Holland Tract Waterside Slope Armoring (Holland Cut)	High
1007	Pico-Naglee Tract	2023-Reclamation District 1007 Multi-Benefit Project(s)	Other
2044	King Island	King Island Disappointment Slough Levee Rehabilitation and Multi Benefit Project	Other
2041	Medford Island	Medford Island San Joaquin River Levee Rehabilitation Project (San Joaquin River-Middle River)	Other



Note: These proposed projects did not score high enough to be selected for funding.

Rationale for Project Proposals Not Selected

2023 Project Solicitation Package for Multi-Benefit Projects

- Limited funding available \$37 million
- Sum of all projects submitted totaled \$135 million
- Projects did not score well based on the PSP scoring criteria.
 - Partnerships/Matching Funds
 - General Elements and Quality of Proposal
 - Ecosystem Enhancement
 - Levee System Integrity



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FY 23-24 Completed Project

- Bethel Island Design and Construction of District Multi-Benefit Project
 - Stations 0+00 to 130+00 and 340+00 to 450+00
 - Fill placement to improve the levee to Bulletin 192-82
 - Improve existing levee toe drains
 - Provided a Shaded Riverine Aquatic habitat and lowland habitats with native plant species
 - Selected through the DLSP 2016 Multi-benefit PSP and awarded funding in FY17-18
 - Total project cost - \$10,392,847



Thank you
Questions & Answers



Delta Levee Standards

