

Mid and Upper Sacramento River Regional Flood Management Plan

Initial Project List Distributed with Draft RFMP (Previously Table 11-1)

MUSR ID	County	Project Partners		Project Category		Project Name/Type	Project Description
		Lead Agency	Partner Agency(s)	Primary	Secondary		
A1	All	*	Northern California Regional Land Trust	Planning		Northern Sacramento Valley Regional Atlas	Development of a centralized GIS database and Digital Atlas for the Northern Sacramento Valley Region to build a comprehensive collection of water and resource management-related spatial information.
A10	All	*		Programmatic	Planning	Continuance in Federal Program Feasibility Study	A feasibility level analysis to identify levees that while providing critical flood protection, may benefit from being removed from the Federal program, while remaining in the State Plan of Flood Control. In this study, consideration should be given to the ability of LMAs and the State to meet standards which would provide emergency and rehabilitation assistance, the ability to fund levee improvement projects without Federal cost-share dollars, and liability for damages in the event of failures. Further consideration should be given for evaluating where levees may not be necessary and could altogether be removed from the Federal program.
A11	All	*		O&M	Programmatic	Levee Easement and Property Line Survey	Research and survey the existing levee easements and adjacent property lines. There is no existing clear definition regarding the locations of LMA's legal boundaries.
A12	All	*		Permitting	Programmatic	Regional Programmatic Permitting	Develop regional program level permitting to streamline permit acquisition, similar to the DWR approach with the Small Erosion Repair Program (SERP). Actions to be considered for inclusion: <ul style="list-style-type: none"> • Programmatic EIR for series' of actions that can be characterized as one large project. • Master or Programmatic Streambed Alteration Agreements:obtained to cover a large, multi-phased project consisting of smaller specific projects for which detailed project plans are not available at the time the SAA is applied for. • USACE Regional General Permit (RGP): issued by a USACE district or division and authorizes a class of activities within a geographic region that are similar in nature and have minimal individual and cumulative environmental effects.
A16	All	*		Permitting	Programmatic	Advanced Regional Mitigation Banks	Advanced mitigation of flood management improvements provides a means of making flood maintenance less expensive and timelier
A17	All	*		Planning	Programmatic	Corridor Management Strategy	The Corridor Management Strategy (CMS) approach is a concept for improving flood management and ecological conditions through developing a vision, strategy, and plan (CMP) for managing a corridor that integrates flood risk management, improved ecosystem function and integrated water management over a long-term (greater than 30 years) planning horizon.
A18	All	*		Programmatic	Multi Benefit	Safe Harbor Agreements	A Safe Harbor Agreement is a voluntary agreement between any non-Federal property owner(s) and the USFWS or the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (collectively, the Services) whereby performing actions that contribute to the recovery of listed species and fulfilling the conditions of the Safe Harbor Agreement, the property owner(s) will receive formal assurances from the Services that they will not require any additional or different management activities by the parties without their consent.
A19	All	*		Ecosystem Function	Planning	Working Landscapes	Encourage farmers to invest in habitat on farmland in a manner that is mutually beneficial to production agriculture and the ecosystem
A2	All	*		Water Supply	Planning	Improve Flood Reservoir Operations	Implement Flood-Coordinated Operations (F-CO) for Shasta Dam and Black Butte Dam.
A20	All	*		O&M	Programmatic	Levee Maintenance Issues	Develop a Regional Roundtable including LMA, Resource Agencies, State, and USACE representatives to develop strategies, programs, and projects to address the O&M issues discussed in Chapter 4 of the MUSR RFMP.
A13	All	*		Permitting	Programmatic	Master or Programmatic Streambed Alteration Agreements	A Master SAA (Master Agreement) may be obtained to cover a large, multi-phased project consisting of smaller specific projects for which detailed project plans are not available at the time the SAA is applied for. The SAA process would then be streamlined as each smaller future project is implemented.
A14	All	*		Permitting	Programmatic	Program EIRs	Develop a program EIR for series' of actions that can be characterized as one large project. When subsequent activities considered in the program EIR are ready for implementation, a checklist may be used to determine whether the environmental effects of the activity were covered in the program EIR. If it is found that the subsequent activity has no new effects not already identified in the program EIR, and no new mitigation would be required, the subsequent activity can be approved as being within the scope of the project covered by the program EIR, and no new CEQA document would be required. If there are new effects or new mitigation measures are needed, a CEQA document addressing the subsequent activity may focus solely on the new effects or mitigation that had not been considered before.
A15	All	*		Permitting	Programmatic	Regional General Permits (RGPs)	A Regional General Permit (RGP) is issued by a USACE district or division and authorizes a class of activities within a geographic region that are similar in nature and have minimal individual and cumulative environmental effects. RGPs may be used to collectively meet permitting needs for multiple projects, over longer planning horizons, while also consolidating mitigation and conservation efforts into larger, more viable conservation areas. Overall RGPs streamline the USACE permitting process by avoiding the need to obtain separate permits on a project-by-project basis.
A4	All	*		Permitting	Programmatic	Deer Special Hunt Permits	Manage deer populations through special hunt permits.
A5	All	*		O&M	Programmatic	Property Line Survey	Surveying property lines and sign posting on private lands so CDFW enforcement staff can help keep the public off of private lands adjacent to CDFW owned or managed lands.
A6	All	*		O&M	Planning	Establish Flood Structure Protection Area Zones	Creation of "Flood Structure Protection Areas" directly adjacent to levees and other flood control structures would provide LMAs an opportunity for input on land-use decisions occurring in the vicinity of their facilities. These areas would be identified in county and city floodplain management ordinances and/or general plans as zones in which input is required from LMAs before land-use decisions are finalized.
A7	All	*		ER	Planning	ER Training	Training for Emergency Response Responders
A8	All	*		O&M	Programmatic	Vegetation and Sediment Removal Programs	Establish regularly scheduled vegetation maintenance and sediment removal programs for the Sutter Bypass, Tisdale Bypass, and Cherokee Canal.
A9	All	*		ER	Flood Reduction	Floodplain Delineations	Develop more detailed 100-year/200-year/500-year floodplain delineations and base flood elevations for the region to aid with will floodplain management policy and decision making.
B57	Butte	MA 05		Flood Reduction	Freeboard	Other	Unit#2b, RB, LM start 15.36. Abandoned SPRR crosses levee 3 ft. below crown. Provide for temporary closure, or remove RR and close low spot.
B1	Butte	Butte County Department of Water and Resource Conservation		Water Supply	Flood Reduction	Identification and Evaluation of Groundwater Recharge	To provide a more comprehensive characterization of countywide groundwater recharge areas, and identify potential areas for recharge projects which could also provide flood reduction benefits.

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B59	Butte	Rock Creek RD		Flood Reduction	Multi Benefit	Rock Creek and Sand Creek Flood Mitigation Project	The proposed Rock and Sand Creek Flood Mitigation Project will build upon the work already completed by the ACOE to develop and assess potential solutions to flooding from Rock Creek, focusing on the potential floodwater detention on Sand Creek. The project will assess potential hydrologic benefits of alternative detention strategies including creation of seasonal wetland habitats. The magnitude and timing of flood flows down Sand Creek and down the mainstem of Rock Creek will be analyzed. The analysis will be carried out through hydrologic modeling of storm runoff from the Sand Creek basin using HEC-HMS. The calculated runoff will be used as input to a HEC-RAS hydraulic model to evaluate the magnitude of flooding below the confluence of Sand and Rock Creeks under existing and proposed detention scenarios. The project will include an assessment of potential detention dam sites and examine the potential ecological benefits of new seasonal wetlands and groundwater recharge. Deliverables will include a feasibility analysis and conceptual designs for the detention project.
Misc	Butte	Butte County PWD		Flood Reduction	Seepage	Various Locations	Seepage Repair - Multiple Sites
Misc	Butte	Butte County PWD		O&M	Erosion Repair	Erosion Repair - Various Locations	Small erosion repair
Misc	Butte	Butte County PWD		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Butte	Butte County PWD		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
	Butte	City of Chico		Flood Reduction	Planning	City of Chico 200-Year Level of Protection	Provide the City of Chico with a 200-Year level of protection
B27	Butte	DWR		O&M	ER	The 3B's Weir Improvements	Restore 3B's Weir elevation so overflows into Butte Basin when the Sacramento River do not occur below flood stage. Improvements are needed to raise the weir and then harden it so that the weir does not degrade in the future. Premature overflows from the 3B's weir result in damages to agricultural lands and infrastructure, and result in numerous road and bridge closures such as Hwy 162 and Ord Ferry (in 1995, Hwy 162 east of Butte City was closed for 26 days).
B29	Butte	DWR		O&M	Instream	Butte Basin Overflow Weir Maintenance	Improved maintenance by DWR is needed following flood events (cleaning debris, repairing washout damage, etc.) at Goose Lake and M&T weirs.
B30	Butte	DWR		O&M	Fish Passage	Butte Slough Outfall Gates Replacement	Replacement of the Butte Slough outfall gates to improve O&M and fish passage.
Misc	Butte	MA 05		Flood Reduction	Seepage	Various Locations	Seepage Repair - Multiple Sites
Misc	Butte	MA 05		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Butte	MA 05		O&M	Freeboard/Breach Repair	Various Locations	Freeboard/Breach Repair
B18	Butte	Butte County PWD		O&M	Erosion	PL84-99	Unit#1, RB, Bank protection project to repair erosion site at RM 0.00, LM start 4.32, LM end 4.37
B14	Butte	Butte County PWD		O&M	Instream	Other	Unit#1, RB, LM start 1.87. Large Sandbar, most critical location, loss of capacity.
B15	Butte	Butte County PWD		O&M	Instream	Other	Unit#1, RB, LM start 2.34, LM end 2.4. Sandbar through HWY 32 Bridge.
B16	Butte	Butte County PWD		O&M	Instream	Encroachments	Unit#1, RB, LM start 2.95. Remove encroachments. Sandbar causing loss of capacity.
B22	Butte	Butte County PWD		O&M	Instream	Other	Unit#2b, LB, LM start 4.2, LM end 4.4. Aggradations associated with cut.
B12	Butte	Butte County PWD		O&M	Misc	Other	Unit#1, RB, LM start 4.8. Undercut out fall associated aggradations.
	Butte	Butte County PWD		O&M	PL 84-98	PL84-98	Restore PL 84-99 Eligibility - Various
B4	Butte	Butte County PWD		O&M	PL 84-99	PL84-99	Unit #1 (RB Mud Creek): Repair deficiencies to regain active status in the PL84-99 Program. Deficiencies include: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion
B5	Butte	Butte County PWD		O&M	PL 84-99	PL84-99	Unit #2 (LB Mud Creek): Repair deficiencies to regain active status in the PL84-99 Program. Deficiencies include: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion
B6	Butte	Butte County PWD		O&M	PL 84-99	PL84-99	Unit #2A (LB Channel Slough): Repair deficiencies to regain active status in the PL84-99 Program. Deficiencies include: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion
B7	Butte	Butte County PWD		O&M	PL 84-99	PL84-99	Unit #3 (RB Sycamore and Sheep Hollow Creeks): Repair deficiencies to regain active status in the PL84-99 Program. Deficiencies include: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion
B8	Butte	Butte County PWD		O&M	PL 84-99	PL84-99	Unit #4 (RB Sycamore and Dry Creeks): Repair deficiencies to regain active status in the PL84-99 Program. Deficiencies include: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion
B9	Butte	Butte County PWD		O&M	PL 84-99	PL84-99	Unit #5 (Big Chico Diversion): Repair deficiencies to regain active status in the PL84-99 Program. Deficiencies include: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion
B13	Butte	Butte County PWD		O&M	PL 84-99	Erosion Repair	Unit#1, RB, LM start 4.22. 2011: Two large erosion scallops at the toe from a rotational failure. Deep cracks along the slope indicate the potential for further failures. [2011 Site ID: MUD_4-4_R]
B17	Butte	Butte County PWD		O&M	PL 84-99	PL84-99	Unit#1, RB, General PL84-99 repair of deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion
B21	Butte	Butte County PWD		O&M	PL 84-99	PL84-99	Unit#2, General PL84-99 repair of deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion
B23	Butte	Butte County PWD		O&M	PL 84-99	PL84-99	Unit#2A, General PL84-99 repair of deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion
B24	Butte	Butte County PWD		O&M	PL 84-99	PL84-99	Unit#3, General PL84-99 repair of deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion
B25	Butte	Butte County PWD		O&M	PL 84-99	PL84-99	Unit#4, General PL84-99 repair of deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion
B26	Butte	Butte County PWD		O&M	PL 84-99	PL84-99	Unit#5, General PL84-99 repair of deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion
B11	Butte	Butte County PWD		O&M	Stability	Stability Repair	Bank protection project to repair serious stability site, LM start 5.73, LM end 6.05 LB
B19	Butte	Butte County PWD		O&M	Stability	Stability Repair	Unit#1, RB, Bank protection project to repair serious stability site, LM start 5.73, LM end 6.05 LB
B20	Butte	Butte County PWD		O&M	Stability	Serious Slope Stability	Unit#2, LB, LM start 5.73, LM end 6.05. Cracking at waterside toe, 5 inches deep by 15 to 20 ft. long.
B3	Butte	Butte County PWD		O&M		Levee Patrol Road Improvements	
Misc	Butte	MA 05		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Butte	MA 05		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair

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B28	Butte	DWR		O&M	Instream	Cherokee Canal Improvements	
B90	Butte	Richvale Sanitation District		Flood Reduction	ER	Flood Protection for Richvale WWTP	Develop and implement flood protection improvements for Richvale Sanitation District's wastewater treatment plant and associated 18-acre pond system.
B60	Butte	Rock Creek RD		Flood Reduction	Interior Drainage	Rock Creek Interior Drainage Improvements	Develop interior drainage solution for flood waters which currently pond up against the railroad tracks. Potentially need to install larger culverts through the tracks in order to relieve ponding.
B61	Butte	Rock Creek RD		Water Supply	Flood Reduction	Rock Creek Groundwater Recharge Feasibility Study	Feasibility Study to examine potential groundwater recharge sites to address depleting groundwater levels in the area while also providing flood reduction benefits.
B62	Butte	Rock Creek RD		Flood Reduction		Rock Creek/Keefer Slough Flow Split	Implement improvements at the Rock Creek/Keefer Slough flow split in order to re-establish Rock Creek as the main channel
Misc	Butte	ST 03		Flood Reduction	Seepage	Various Locations	Seepage Repair - Multiple Sites
Misc	Butte	ST 03		O&M	Erosion Repair	Various Locations	Small erosion repair
B41	Butte	MA 05		O&M	Breach Repair	Breach Repair	Unit#1, LB, LM start 13.8. Levee Break is 100 ft. long and 6 ft. deep.
B37	Butte	MA 05		O&M	Encroachments	Encroachments	Unit#1, LB, LM start 2.95. Remove encroachments.
B38	Butte	MA 05		O&M	Encroachments	Encroachments	Unit#1, LB, LM start 5.7. Encroachment gates near top of waterside crest 1.68 miles north of 381-25.
B47	Butte	MA 05		O&M	Erosion Repair	Erosion Repair	Unit#2, RB, LM start 2.50, LM end 2.51. 2008 - Sandy non-cohesive bank with rotational/slab failure. 2011: No observed change. [2011 Site ID: BTC_2-5_R]
B53	Butte	MA 05		O&M	Erosion Repair	Erosion Repair	Unit#2, RB, Bank protection project to repair erosion site at RM 0.0, LM start 2.50, LM end 2.51
B46	Butte	MA 05		O&M	Freeboard	Freeboard	Unit#2, RB, LM start 8.14. Provide for temporary closure.
B31	Butte	MA 05		O&M	Levee Patrol Road Improvements	Levee Patrol Road Improvements	Levee Patrol Road Improvements, Unit#1, LB.
B32	Butte	MA 05		O&M	Levee Patrol Road Improvements	Levee Patrol Road Improvements	Levee Patrol Road Improvements, Unit#2, RB.
B44	Butte	MA 05		O&M	Overtopping Repairs	Overtopping Repairs	Unit#2, RB, LM start 0.5, LM end 1.36. Landside Erosion from Overtopping; restore levee to preflood condition; PL84-99 (Site 1A)
B45	Butte	MA 05		O&M	Overtopping Repairs	Overtopping Repairs	Unit#2, RB, LM start 6.7. Landside Erosion from Overtopping; recommended repair - to be completed by DWR (Site 3)
B48	Butte	MA 05		O&M	Overtopping Repairs	Overtopping Repairs	Unit#2, RB, LM start 3.36. Levee Overtopped (Site 2; Phase I Repair as project no. COE-CO-33)
B49	Butte	MA 05		O&M	Overtopping Repairs	Overtopping Repairs	Unit#2, RB, LM start 4.15. LM end 4.92. Overtopping. 7/18/2013 - No change. Crown in good condition. Recommend removal from annual site visit list unless a high water event occurs.
B50	Butte	MA 05		O&M	Overtopping Repairs	Overtopping Repairs	Unit#2, RB, LM start 4.25, LM end 4.35. Landside Erosion from Overtopping; recommended repair - restore to preflood conditions; PL84-99 (Site 2B).
B51	Butte	MA 05		O&M	Overtopping Repairs	Overtopping Repairs	Unit#2, RB, LM start 6.3. Butte Creek in Butte County is experiencing overtopping of the levee (both banks). 2100 ft. left bank and 1000 ft. Right bank This area (incident No. 97-013-0101) is immediately up stream of Nelson Bridge, left bank levee. Landside is eroded due to culvert.
B40	Butte	MA 05		O&M	PL84-99	PL84-99	Unit#1, LB, LM start 2.08. Proposed "Order 1" PL84-99 Repair Site. 250' long. Nature of damage unknown.
B43	Butte	MA 05		O&M	PL84-99	PL84-99	Unit#1, LB, General PL84-99 repair of deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Repair Gates
B52	Butte	MA 05		O&M	PL84-99	PL84-99	Unit#2, RB, General PL84-99 repair of deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Repair Gates
B54	Butte	MA 05		O&M	PL84-99	PL84-99	Unit#2b, RB, LM start 14. Proposed "Order 1" PL84-99 Repair Site. 280' long. Nature of damage unknown.
B58	Butte	MA 05		O&M	PL84-99	PL84-99	Unit#3, General PL84-99 repair of deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Repair Gates
B33	Butte	MA 05		O&M	Seepage Repair	Seepage Repair	Bank protection project to repair serious Seepage site, Unit#1. LM start 10.7, Right Bank.
B34	Butte	MA 05		O&M	Seepage Repair	Seepage Repair	Bank protection project to repair serious Seepage site, Unit#1. LM start 10.76, Right Bank.
B35	Butte	MA 05		O&M	Seepage Repair	Seepage Repair	Unit#1, LB, LM start 3.8. Repair Seepage problem.
B55	Butte	MA 05		O&M	Serious Seepage Repair	Serious Seepage Repair	Unit#2b, RB, LM start 10.7. Boil on Landside; recommended repair - slurry wall by DWR, status unknown (Site 5).
B56	Butte	MA 05		O&M	Serious Seepage Repair	Serious Seepage Repair	Unit#2b, RB, LM start 10.76. Boil on Landside; recommended repair - slurry wall by DWR, status unknown (Site 5).
B39	Butte	MA 05		O&M	Slope Stability Repair	Slope Stability Repair	Unit#1, LB, LM start 12.1. 0.56 miles north of USACE-2011-0098, cracking at landside toe for a length of 350 feet or more. Cracks are up to 1 foot deep and 1.5 inches wide. Bench is spalling off into ditch. Embankment material is fat clay.
B42	Butte	MA 05		O&M	Slope Stability Repair	Slope Stability Repair	Unit#1, LB, LM start 12.673. Slope failure on the landside for approximately 10 feet wide, separation between soil layers and bulge of soil at the toe observed.
B36	Butte	MA 05		O&M	SPRR Bridge Improvements	SPRR Bridge Improvements	Unit#1, LB, LM start 7.35. SPRR bridge design creates blockage and flow obstruction during high water; needs maintenance on a regular basis.
Misc	Butte	ST 03		O&M	Freeboard/Breach Repair	Various Locations	Freeboard/Breach Repair
Misc	Butte	ST 03		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Butte	ST 03		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
B85	Butte	USACE	Rock Creek Reclamation District	Flood Reduction	Planning	Rock and Sand Creek Flood Mitigation Project	Evaluate flood reduction alternatives for Rock Creek and Sand Creek.
B82	Butte		M&T Ranch	O&M	Erosion	Repair Critical Erosion Site	A critical erosion site exists in the Phelan levee upstream of the M&T weir at R.M. 192.5. A breach at this site would result in major changes to the hydraulics of the Butte Basin.
B67	Butte	ST 03		O&M	Erosion	Erosion Repair	Unit#1 LB, LM start 13.47, LM end 13.66. Deep, eroded tire ruts along road at waterside.
B70	Butte	ST 03		O&M	Erosion	Critical Erosion Repair	Unit#1 LB, LM start 6.71. Monitor and repair rodent holes and erosion. Combine with DWR_ST0003_01_s_2012_31.
B71	Butte	ST 03		O&M	Erosion	Critical Erosion Repair	Unit#1 LB, LM start 6.71, LM end 6.76. Monitor and repair rodent holes and erosion. Group with DWR_ST0003_01_s_2012_30.

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B72	Butte	ST 03		O&M	Erosion	Erosion Repair	Unit#1 LB, LM start 13.47, LM end 13.66. Longitudinal erosion along waterside ground beyond toe;
B66	Butte	ST 03		O&M	Freeboard	Other	Unit#1 LB, Slight sag in levee profile. 0.75 feet below design WSE. Continue monitoring.
B79	Butte	ST 03		O&M	Rodent Control	Rodent Control	Unit#1, RB, LM start 0.50 LM end 0.57. Numerous large rodent holes on waterside and lanside levee slope. Total site length is approx. 400 feet. Levee miles were approximated. Recommend rodent control.
B63	Butte	ST 03		O&M	Seepage	Seepage Repair	Unit#1 LB, LM start 8.36. Recommend vegetation control. Monitor and repair LS encroachment.
B64	Butte	ST 03		O&M	Seepage	Seepage Repair	Unit#1 LB, LM start 12.7, LM end 13.0. No evidence of underseepage observed on LS (walked full length). Regular occurrence of landside boils at toe since before 1986 to the present, low velocity flow. Underseepage.
B65	Butte	ST 03		O&M	Seepage	Seepage Repair	Unit#1 LB, LM start 15.0. No evidence of seepage. Levee LS toe is also SR45 south-bound lane gutter. Low velocity flow underseepage in 1986. GAR reports multiple channels on this segment which may be coarser grained.
B75	Butte	ST 03		O&M	Seepage	Critical Seepage Repair	Unit#1 LB, LM start 3.776, LB. Landside pipe encroachment has been excavated for repairs. This site should remain critical until the repairs are verified. Recommend merging with USACE_CESPK_SE1C_2011_p_0206.
B76	Butte	ST 03		O&M	Seepage	Critical Seepage Repair	Unit#1 LB, LM start 3.776. Seepage is being repaired. Recommend verifying repairs and continue monitoring.
B77	Butte	ST 03		O&M	Seepage	Seepage Repair	Unit#1 South LB, Continue monitoring seepage. Possible need for cut-off wall due to coarse distributary channels, high susceptibility.
B68	Butte	ST 03		O&M	Stabilty	Erosion Repair	Unit#1 LB, LM start 11.51, LM end 11.77. 2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011: Site extended downstream. [2011 Site ID: SAC_152-6_L]
B69	Butte	ST 03		O&M	Stabilty	Erosion Repair	Unit#1 LB, LM start 11.81, LM end 11.83. 2006 - Large rotational/mass failure in the bank with tree slump. Tough clayey toe material. 2007 - Site is between stone revetments with a pump station at the downstream end. 2010 - Erosion is into the levee toe. 2011: Minor new erosion.
B73	Butte	ST 03		O&M	Stabilty	Slope Stability Repair	Unit#1 LB, LM start 16.969, LM end 17.467. Start point. Longitudinal cracking on the upper half of the waterside embankment. Up to 13 inches deep and 1/2 inch wide. Crack lengths exceed levee height at some places. No displacement observed along the cracks. End point is 18.
B74	Butte	ST 03		O&M	Stabilty	Slope Stability Repair	Unit#1 LB, LM start 17.864. Cracking on the waterside embankment for 40 foot stretch, up to 1.5 inches wide and 20 inches deep. The crack length exceeds the levee height. No displacement observed along the cracks.
	Butte	ST 03		O&M	Various	Various	Misc O&M Issues - Various Locations
B78	Butte	ST 03		O&M		Other	Unit#1 South LB, LM start 5.16. No evidence of seepage, leakage, or ponding. Continue monitoring.
B83	Butte		M&T Ranch	Water Supply	Multi Benefit	Protect M&T/Llano Seco Pumping Facilities	Develop a long term soltion to address current meandering of the Sacramento River which is resulting in the need for dredging of the river to keep M&T/Llano Seco pump facilities operational.
B86	Butte			O&M	Stabilty	Slope Stability Repair	Latitude 39.76883N, Longitude -121.90213W. Longitudinal dessication cracking along waterside berm near toe. Approximate length = 300 feet. Largest crack about 2 inches wide and 15 inches deep.
B10	Butte	Butte County PWD		O&M	Erosion	Erosion	Bank protection project to repair erosion site at RM 0.00, LM start 4.32, LM end 4.37
B84	Butte			Flood Reduction	Planning	Big Chico Creek, Little Chico Creek, and Comanche Creek Flood Reduction Improvements	Evaluate flood carrying capacity of Big Chico Creek, Little Chico Creek, and Comanche Creek inlight of increased flows due to urbanization of surrounding areas.
B2	Butte	Butte County Division of Environmental Health		Water Supply	Planning	Butte County Well Abandonment Program	The Division of Environmental Health proposes to fund staff time and procurement of field equipment in order to begin a field survey to document and create an inventory of improperly abandoned domestic and irrigation wells throughout the county. It is the intent of the Division to work collaboratively with other County departments in order to ensure project success. The key recharge areas of the County will be given the highest priority for initial land surveys, and any well presenting a fall in hazard to humans or animals will be designated as critical for proper abandonment. Once the field portion of the work is under way, staff will develop a database management system. Each abandoned well will be categorized and assigned a tracking number that includes all the pertinent physical data associated with that location. This information will also be utilized for creation of map layers in GIS.
B87	Butte			Flood Reduction	Planning	Little Chico Creek Diversion to Butte Creek	Evaluate flood carrying capacity of Little Chico Creek diversion to Butte Creek.
B80	Butte		M&T Ranch	Water Supply	Instream	M&T Pump Repair short-term	M&T pumps short-term project. Gravel dredge and toe rock extension of time. This is being done to keep the M&T operable until a long-term solution is identified.
B81	Butte		M&T Ranch	Water Supply	Instream	M&T Pump Repair long-term	M&T pumps long-term project. Public scoping will begin early 2014. Begin EIR/EIS process for identifying a long term solution to the gravel migration problem at the site.
B88	Butte			Flood Reduction	Planning	City of Durham 100-Year Level of protection.	Evaluate feasibility of bringing the Butte Creek levees which protect Durham up to 100-yr FEMA standard.
B89	Butte			Flood Reduction	Planning	Nelson/Richvale Small 100-Year Level of protection	Evaluate feasibility of providing 100-yr protection to Richvale and Nelson. Look at the feasibility of using existing agricultural lands as temporary detention basins to relieve high flows within Butte Creek.
	Butte			Flood Reduction	Planning	Nord 100-Year Level of Protection	Provide Nord with a 100-Year level of protection
	Butte			Flood Reduction	Planning	Richvale 100-Year Level of Protection	Provide Richvalewith a 100-Year level of protection
	Butte			Flood Reduction	Planning	Nelson 100-Year Level of Protection	Provide Nelson with a 100-Year level of protection
	Colusa	City of Colusa		Flood Reduction	Planning	City of Colusa 100-Year Level of Protection	Provide City of Colusa with a 100-Year level of protection
C1	Colusa	Colusa County OES	Cities of Colusa and Williams	ER	Flood Reduction	Colusa County LHMP	Implement County Local Hazard Mitigation Plan

Mid and Upper Sacramento River Regional Flood Management Plan

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MUSR ID	County	Project Partners		Project Category		Project Name/Type	Project Description
		Lead Agency	Partner Agency(s)	Primary	Secondary		
C2	Colusa	Colusa County RCD	Counties of Colusa, Glenn and Yolo, and CA-DWR.	Flood Reduction	Water supply	Colusa Basin WMP	Action items of the Water Management Plan including: 1) Assess the status and functionality of flood control infrastructure (e.g., drainage canals, ditches, canal banks, levees) and identify areas of risk, work with other agencies, coordinate efforts, support maintenance of flood control infrastructure and levees, 2) Manage flood water for short term retention and groundwater recharge where appropriate and promote recharge infrastructure, 3) Develop and implement measures to control runoff in foothills and on agricultural lands. Utilize vegetation to increase infiltration and create "sponge effect" in foothills. Create natural floodplains and detention ponds where appropriate.
Misc	Colusa	MA 01		Flood Reduction	Seepage	Various Locations	Seepage Repair - Multiple Sites
Misc	Colusa	MA 01		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Colusa	MA 01		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Colusa	MA 01		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
Misc	Colusa	MA 12		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Colusa	MA 12		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Colusa	MA 12		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
Misc	Colusa	RD 0108		Flood Reduction	Seepage	Various Locations	Seepage Repair - Multiple Sites
Misc	Colusa	RD 0108		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Colusa	RD 0108		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Colusa	RD 0108		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
Misc	Colusa	Sacramento River West Side Levee District		Flood Reduction	Seepage	Various Locations	Seepage Repair - Multiple Sites
Misc	Colusa	Sacramento River West Side Levee District		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Colusa	Sacramento River West Side Levee District		O&M	Freeboard/Breach Repair	Various Locations	Freeboard/Breach Repair
Misc	Colusa	Sacramento River West Side Levee District		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Colusa	Sacramento River West Side Levee District		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
C4	Colusa	MA 01		O&M	Encroachments	Encroachments	Unit#01, RB, LM start 0.43, LM end 0.47. Concrete retaining wall with pipe guardrail on landward shoulder. (ABC No. 9480-Grenfell)
C5	Colusa	MA 01		O&M	Encroachments	Encroachments	Unit#01, RB, LM start 0.68, LM end 0.71. Concrete retaining wall on the landward shoulder. (ABO No. 9479 - City of Colusa)
C13	Colusa	MA 01		O&M	Encroachments	Serious Encroachment	Unit#01, RB, LM start 9.01, LM end 9.03. Concrete retaining wall failed along water ward slope.
C3	Colusa	MA 01		O&M	Erosion	Erosion	Unit#01, RB, repair erosion.
C15	Colusa	MA 01		O&M	Erosion	Erosion	Unit#01, RB, LM start 4.89, LM end 5.25. 2009 - Slump in the middle of the section has left a vertical section on the bank. 2010 - Old cobble site unraveling, site extended downstream. 2011: No observed change. [2011 Site ID: SAC_151-0_R]
C16	Colusa	MA 01		O&M	Erosion	Erosion	Unit#01, RB, LM start 7.60, LM end 7.61. 2010 - Downstream end of 154.5, needs maintenance, small amount to erosion into the levee toe. 2011: Old cobble site starting to unravel. Some new minor erosion since last year. [2011 Site ID: SAC_154-0_R]
C17	Colusa	MA 01		O&M	Erosion	Erosion	Unit#01, RB, LM start 10.46, LM end 10.46. 2004 - Slowly eroding but near vertical with no vegetation to hold it. 2005 - Erosion is close to levee toe but not into the levee section yet. 2010 - Some new toe scour. 2011: No observed change. [2011 Site ID: SAC_157-7_R]
C18	Colusa	MA 01		O&M	Erosion	Erosion	Unit#01, RB, LM start 16.66, LM end 16.66. Erosion site added in 1997 and removed in 2005. 2009 - Site added back in, hard toe with slow moving erosion. Potential geotechnical failure. 2011: Site extended downstream. [2011 Site ID: SAC_164-3_R]
C20	Colusa	MA 01		O&M	Erosion	Serious Erosion	Unit#01, RB, LM start 17.024. The waterside slope is over steepened (less than 3:1) and shows signs of sliding.
C21	Colusa	MA 01		O&M	Erosion	Serious Erosion	Unit#01, RB, LM start 17.009. Over a roughly 400 foot long segment, vertical scarp is present about 2/3 way up the landside levee slope up to 18 inches deep. Irregular slope is present below the scarp and may be associated with former sloughing of the landside slope.
C25	Colusa	MA 01		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 151.0, LM start 5.00, LM end 5.38
C26	Colusa	MA 01		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 154.0, LM start 7.42, LM end 7.43
C27	Colusa	MA 01		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 157.7, LM start 10.30, LM end 10.38
C28	Colusa	MA 01		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 164.3, LM start 16.49, LM end 16.69
C30	Colusa	MA 01		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair serious Seepage site, LM start 17.009, Right Bank
C31	Colusa	MA 01		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair serious Seepage site, LM start 17.024, Right Bank
C32	Colusa	MA 01		O&M	Erosion	Other Repair	Unit#01, RB, Bank protection project to repair other serious site, LM start 9.01, LM end 9.03Right Bank
C22	Colusa	MA 01		O&M	Misc	Other	Unit#01, RB, LM start LM 9.05.
C23	Colusa	MA 01		O&M	Misc	Levee Patrol Road Improvements	Unit#01, RB, Levee Patrol Road Improvements
C24	Colusa	MA 01		O&M	PL 84-99	PL84-99	Unit#01, RB, General PL84-99 repair of deficiencies including: Vegetation, Animal Control, and Erosion
C6	Colusa	MA 01		O&M	Seepage	Seepage	Unit#01, RB, LM start 4.00, LM end 5.00. Moderate seepage along landward levee toe.
C7	Colusa	MA 01		O&M	Seepage	Seepage	Unit#01, RB, LM start 6.37. Boil on landward toe.
C8	Colusa	MA 01		O&M	Seepage	Seepage	Unit#01, RB, LM start 15.55, LM end 16.08. Seepage along the landward levee toe.
C9	Colusa	MA 01		O&M	Seepage	Serious Seepage	Unit#01, RB, LM start 15.55, LM end 16.08
C10	Colusa	MA 01		O&M	Seepage	Seepage	Unit#01, RB, LM start 4.00, LM end 5.00. Moderate seepage (underseepage) along landward toe, running clear.
C11	Colusa	MA 01		O&M	Seepage	Seepage	Unit#01, RB, LM start 6.37, LM end 6.37. Boil at landward levee toe flowing clear water (underseepage).
C12	Colusa	MA 01		O&M	Seepage	Seepage	Unit#01, RB, LM start 8.8, LM end 8.8. Seepage area of considerable seepage that occurs when high stages continue for extended periods. In 1983 seepage was particularly bad.
C14	Colusa	MA 01		O&M	Seepage	Seepage	Unit#01, RB, LM start 9.44. Seepage.
C19	Colusa	MA 01		O&M	Seepage	Seepage	Unit#01, RB, LM start 0.4, LM end 0.8. Seepage in tunnels beneath streets (underseepage - boil).
C29	Colusa	MA 01		O&M	Seepage	Seepage Repair	Unit#01, RB, Bank protection project to repair serious Seepage site, LM start 15.55, LM end 16.08, Right Bank
A3	Colusa	Sites Reservoir JPA		Water Supply	Multi Benefit	Sites Reservoir	Proposed off-stream storage reservoir.

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C165	Colusa		Colusa County	Flood Reduction	Muli Benefit	City of Williams Flood Hazard Mitigation Project	Implement alternative methods of reducing flood damages to the City of Willows and surrounding agricultural lands while increasing ecological value within the South Fork Willow Creek, North Fork Willow Creek, and Wilson Creek Sub-basins in Glenn County.
C166	Colusa		Colusa County Resource Conservation District	Habitat Enhancement	Water supply	Foothill Stream Restoration and Recharge Enhancement	Ten acre foothill stream corridor restoration project that will achieve multiple resource objectives including: •Remove and/or control invasive vegetation •Reestablish riparian vegetation and improve connectivity •Reduce existing and potential bank erosion, •Reestablish flood plain(s) to facilitate groundwater recharge, retain floodwater and provide habitat••Utilize the project as a demonstration site to facilitate education and outreach through workshops and field days, and studies to evaluate project effectiveness .
C34	Colusa	MA 12		O&M	Erosion	Serious Erosion	Unit#01, LB, LM start 8.75. At approximate LM 8.5 the landside access road appears to be eroding away bank. Landside ditch is extremely wide at this location (up to 800 ft. wide) which could result in waves being generated during windy days.
C36	Colusa	MA 12		O&M	Erosion	Serious Erosion	Unit#01, LB, LM start 9.1. 2011: Erosion occurring upstream and downstream of an irrigation diversion structure. [2011 Site ID: SYC_9-3_L]
C42	Colusa	MA 12		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair erosion site at RM 0.0, LM start 9.02, LM end 9.02
C43	Colusa	MA 12		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair serious Erosion site, LM start 8.75, Left Bank
C44	Colusa	MA 12		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair serious Erosion site, LM start 9.1, Left Bank
C41	Colusa	MA 12		O&M	PL 84-99	PL84-99	Unit#01, LB, General PL84-99 repair of deficiencies including: Animal Control, Slope Stability, and Erosion
C38	Colusa	MA 12		O&M	Rodent Control	Rodent Control	Unit#01, LB, LM start 10.42, LM end 10.67. Collapsed rodent burrows; Landside erosion.
C33	Colusa	MA 12		O&M	Stabilty	Serious Stability	Unit#01, LB, LM start 1.3
C35	Colusa	MA 12		O&M	Stabilty	Stability	Unit#01, LB, LM start 7.54. Site had been repaired last year by pushing material up slope and track-walking to compact. Site currently has localized low point (up to 2.5 inches deep) where material may be sliding again.
C37	Colusa	MA 12		O&M	Stabilty	Critical Stability	Unit#01, LB, LM start 8.10. Continuous longitudinal cracking for 260' along the LS hinge and slope. Cracks are 1-3" wide and up to 24" deep. In a 75' long section near the middle of the cracking we observed a welldeveloped slump with a 2' vertical scarp toward the LS edge of the crown, and signs of obvious slope bulging at midslope and toe. Scarp has removed a maximum of 5' of crown width.
C39	Colusa	MA 12		O&M	Stabilty	Slope Stability Repair	Unit#01, LB, Bank protection project to repair critical stability site, LM start 8.1, Left Bank
C40	Colusa	MA 12		O&M	Stabilty	Slope Stability Repair	Unit#01, LB, Bank protection project to repair serious stability site, LM start 1.3, Left Bank
C169	Colusa			Habitat Enhancement	Recreation	Wildlife Area improvements- Princeton SE	Wildlife Area improvements- Princeton SE restoration of 50 acres and addition of a parking lot, Invasive removal and restoration on 8 acres at the Stegman Unit.
	Colusa			Flood Reduction	Planning	Grimes 100-Year Level of Protection	Provide Grimes with a 100-Year level of protection
	Colusa			Flood Reduction	Planning	Princeton 100-Year Level of Protection	Provide Princeton with a 100-Year level of protection
Misc	Glenn	LD 01G		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Colusa	RD 0108		O&M	Erosion	Serious Erosion	Unit#, RB, LM start 11.5.
Misc	Colusa	RD 0108		O&M	Erosion	Erosion	Unit#, RB, LM start 21.4.
Misc	Colusa	RD 0108		O&M	Erosion	Serious Erosion	Unit#, RB, LM start 21.45.
Misc	Colusa	RD 0108		O&M	Erosion	Serious Erosion	Unit#, RB, LM start 39.8.
Misc	Colusa	RD 0108		O&M	Erosion	Erosion	Unit#01, LB, Repair erosion.
Misc	Colusa	RD 0108		O&M	Erosion	Other	Unit#01, LB, LM start 4.7, LM end 5.8.Segment 116 flood damage. Crown Subsidence, erosion on water and land side, slips on landside.
Misc	Colusa	RD 0108		O&M	Erosion	Serious Erosion	Unit#01, LB, LM start 19.2. 2011: Toe scour at the bottom of a steep bank, large sections of the toe are sliding down. Erosion may be due to the upstream bend. [2011 Site ID: CBD_19-2_L]
Misc	Colusa	RD 0108		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair erosion site at RM 0.0, LM start 19.29, LM end 19.29
Misc	Colusa	RD 0108		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair serious erosion site, LM start 19.2
Misc	Colusa	RD 0108		O&M	Misc	Levee Patrol Road Improvements	Levee Patrol Road Improvements, Unit#01, LB.
Misc	Colusa	RD 0108		O&M	PL 84-99	PL84-99	Develop System Wide Improvement Framework (SWIF) to repair deficiencies including: Animal Control, Slope Stability, Cracking, and Erosion
Misc	Colusa	RD 0108		O&M	PL 84-99	PL84-99	Implement SWIF
Misc	Colusa	RD 0108		O&M	Seepage	Seepage	Unit#01, LB, LM start 1.119. Possible evidence of a sand boil remnant, approximately 15 feet from landside toe.
Misc	Colusa	RD 0108		O&M	Seepage	Seepage Repair	Unit#01, LB, 400 feet of partial levee replacement
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 1.5
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 4.7, LM end 5.8. Segment 116 flood damage. Crown Subsidence, erosion on water and land side, slips on landside.
Misc	Colusa	RD 0108		O&M	Stabilty	Serious Stability	Unit#01, LB, LM start 4.07. minor sloughing.
Misc	Colusa	RD 0108		O&M	Stabilty	Other	Unit#01, LB, LM start 2.35, LM end 2.48. subsided to a depth of 5' for a length of 600'.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 19. Sloughing.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 17.8. slips on Colusa basin drain.
Misc	Colusa	RD 0108		O&M	Stabilty	Critical Stability	Unit#01, LB, LM start 17.1, LM end 17.3. Levee section approximately 300 ft. long with evidence of subsidence. RD points out this is an area of concern. RD is adding aggregate base every year. Presence of cracks at hinge points and upper third of levee (1 inch wide and two inches deep).
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 13.74. 2" crack (4" wide and 24" deep) sloughed down landside slope of levee. Slough is 85' long, dropped 13" at the greatest point, and extends into the center of the levee crown.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 0.049, LM end 5.812. Start point. Typical conditions - cracking on landside from toe to slope. Depth on landside varies from 6 to 30 inches, width from 1 to 4 inches. End point is 120.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 0.036, LM end 0.088. Start point. Longitudinal and perpendicular cracks in top half of the waterside slope 0.5-1 inch wide, 6-12 inches deep, 3-5 feet long. End point is 10.

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Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 0.9. Crack along landside slope 6-16 inches deep approximately 25 feet long.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 0.971, LM end 2.78. Cracks in crown road about 6-7 inches deep, 2 inches wide. Gravel filling in the voids in the crack, 10 ft. from edge of crown. Occurs intermittently for lengths of 20-100 feet at each occurrence.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 1.376. Longitudinal cracks on landside slope at landside toe. 6 to 12 inch deep, 20 to 30 feet long.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 2.051. Cracking along waterside slope approximately 15 feet above the toe, 11 inches deep, 1.5 inches wide, and 8 feet long.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 4.146. Seasonal cracking on waterside of crown up to 12 inches deep, 1.5 inches wide and 25 feet long.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 5.814, LM end 10.118. Start point. Cracking on landside slope and toe, 1 to 8 inches deep. End point is 158.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 8.523. Seasonal cracking in the middle of waterside slope, 1 inch wide, up to 6-17 inches deep and 20 feet long.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 9.112. Seasonal cracking on waterside slope approximately 15 feet above toe, 100 feet long, 1-1.5 inches wide and up to 15 inches deep.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 10.12. Typical cracking in landside slope, up to 24 inches deep and 2 inches wide. Cracks are buried due to grading of slopes.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 11.251. Start point. Typical conditions - seasonal cracking along waterside slope and toe, typically about 18 inches deep and 1 inch wide. End point is 273.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 14.875. Cracking along waterside toe. 16-21 inches deep, 3 inches wide, extends 100 feet.
Misc	Colusa	RD 0108		O&M	Stabilty	Stability	Unit#01, LB, LM start 15.284. Cracking along waterside toe. 12-16 inch deep, extends about 100 feet.
Misc	Colusa	RD 0108		O&M	Stabilty	Slope Stability Repair	Unit#01, LB, Bank protection project to repair critical stability site, LM start 17.1 LM end 17.3 LB
Misc	Colusa	RD 0108		O&M	Stabilty	Slope Stability Repair	Unit#01, LB, Bank protection project to repair serious stability site, LM start 4.07
Misc	Glenn	LD 01G		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Glenn	LD 01G		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
Misc	Glenn	LD 02		Flood Reduction	Seepage	Various Locations	Seepage Repair - Multiple Sites
Misc	Glenn	LD 02		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Glenn	LD 02		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
C112	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion	Unit#01, RB, LM start 10.0, LM end 11.51. 1997 - Toe damage and loss of cobble revetment and small patch of local damage to the cobble revetment. 2000 - Cohesive vertical toe; revegetation site. 2011: No observed change. [2011 Site ID: SAC_101-3_R]
C113	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion	Unit#01, RB, LM start 29.98, LM end 29.98. 1997 - Mass failure of the lower cohesive bank and toe. 2000 - Still eroding, steeply dipping foresets in the toe are falling off. 2010 - Some new erosion and some new deposition. Eddy current off the upstream rock. 2011: Still plenty of berm left.
C114	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion	Unit#01, RB, LM start 30.21, LM end 30.21. 2002 - Upstream end has recent slope failure and exposure of tree roots. 2003 - Some new minor slope erosion with new snags on the bank. 2004 - Appears a little worse. 2005 - Scallop in bank at the upstream end looks worse. 2009 - Minimal new erosion.
C115	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion	Unit#01, RB, LM start 31.76, LM end 31.78. 1997 - Erosion into the levee section; old concrete rubble loss at toe; transition between the rock upstream and the cobble downstream. 2000 - Cohesive bench with concrete slabs on top; 25 ft. deep scour hole on the downstream end. 2011: No observed chan
C116	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion	Unit#01, RB, LM start 33.64, LM end 33.64. 2008 - Slow erosion of the hard toe. 2010 - Cobble rubble is failing, erosion is into the toe of the levee, with vertical slumping. 2011: No observed change. [2011 Site ID: SAC_125-6_R]
C117	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion	Unit#01, RB, LM start 35.62, LM end 35.62. 1997 - Major scour off the downstream end of existing rock, creating a scour pocket where the levee starts diverging from the bankline. 2000 - Some minor erosion, 20 ft. deep hole at downstream end. 2004 - Small amount of new erosion.
C118	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion	Unit#01, RB, LM start 43.35, LM end 43.35. 2010 - Lower portion of 136.7 that did not extend far enough. Abrupt transition from upstream site. 2011: No observed change. [2011 Site ID: SAC_136-6_R]
C119	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Critical Erosion	Unit#01, RB, LM start 19.00, LM end 19.00. 2009 - Minor erosion, should be repaired under maintenance. 2011: Some new minor erosion at the toe. [2011 Site ID: SAC_111-0_R]
C120	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion	Unit#01, RB, LM start 48.11, LM end 48.11. 2010 - Old cobble site starting to unravel at toe. 2011: Cobbles continue to unravel. [2011 Site ID: SAC_141-5]
C121	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion	Unit#01, RB, LM start 50.03, LM end 50.14. 2011: multiple scallops, one tree pop out. old cobble site starting to unravel [2011 Site ID: SAC_143-5_R]
C122	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion	Unit#01, RB, LM start 23.69, LM end 23.69. 2008 - Slippage of cobbles off hard underlying toe material. 2011: Minor slumping site. [2011 Site ID: SAC_115-9_R]
C123	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion	Unit#01, RB, LM start 25.91, LM end 25.91. 2008 - Whole bank is eroding, nearly vertical slope with cohesive toe. Bed is very deep along the toe (greater than 30 ft. deep at 20 ft. from the shore) 2011: Some new minor erosion. [2011 Site ID: SAC_118-0_R]
C124	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Serious Erosion	Unit#01, RB, LM start 44.014. Erosion of river bank 5 to 10 feet from waterside toe. 300 foot long section between pump and access ramp.
C125	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion	Unit#01, RB, LM start 42.736. Sloughing on upper third of the landside levee slope 50 feet long and up to 13 inches deep.
C129	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion	Unit#01, RB, LM start 20.098, LM end 20.243. Start point. Apparent erosion at waterside toe is 2-3 feet deep. End point is 490.
C130	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Other	Unit#01, RB, LM start 36.07, LM end 36.61. Levee slopes damaged by over pasturing.
C141	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 101.3, LM start 11.48, LM end 11.48
C142	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 111.0, LM start 18.74, LM end 18.74
C143	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 115.9, LM start 23.54, LM end 23.54
C144	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 118.0, LM start 25.90, LM end 25.90
C145	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 122.0, LM start 29.67, LM end 29.67
C146	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 122.3, LM start 29.93, LM end 29.93
C147	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 123.7, LM start 31.42, LM end 31.42
C148	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 125.6, LM start 33.27, LM end 33.27
C149	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 127.9, LM start 35.21, LM end 35.21

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		Lead Agency	Partner Agency(s)	Primary	Secondary		
C150	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 136.6, LM start 42.93, LM end 42.93
C151	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 141.5, LM start 47.61, LM end 47.61
C152	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair erosion site at RM 143.5, LM start 49.44, LM end 49.44
C153	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair critical erosion site, LM start 19.0 Right Bank
C159	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, Bank protection project to repair serious seepage site, LM start 44.014, Right Bank
C163	Colusa	Sacramento River West Side Levee District		O&M	Erosion	Erosion Repair	Unit#01, RB, 320 feet of Rock Revetment
C88	Colusa	Sacramento River West Side Levee District		O&M	Freeboard	Other	Unit#01, RB, LM start 0.3. Overtopping in 1997 at the boat ramp that is at the confluence of the Sacramento River and the Colusa Basin Drainage Canal, near the Knights Landing Outfall Gates-overtopping from river into CBDC, over Highway 45.
C91	Colusa	Sacramento River West Side Levee District		O&M	Freeboard	Other	Unit#01, RB, LM start 0.26 LM end 0.30. 1.5' below design WSE.
C92	Colusa	Sacramento River West Side Levee District		O&M	Freeboard	Other	Unit#01, RB, LM start 9.9. 2' below design WSE.
C93	Colusa	Sacramento River West Side Levee District		O&M	Freeboard	Other	Unit#01, RB, LM start 14.1, LM end 14.2. 2.5' below design WSE.
C94	Colusa	Sacramento River West Side Levee District		O&M	Freeboard	Other	Unit#01, RB, LM start 19.2, LM end 19.2. 2.5' below design WSE.
C131	Colusa	Sacramento River West Side Levee District		O&M	Freeboard	Other	Unit#01, RB, LM start 37.94. 0.25' below design WSE.
C132	Colusa	Sacramento River West Side Levee District		O&M	Freeboard	Other	Unit#01, RB, LM start 41.08. State highway No. 20 crosses the levee, 2 feet at below the crown.
C135	Colusa	Sacramento River West Side Levee District		O&M	Misc	Levee Patrol Road Improvements	Levee Patrol Road Improvements, Unit#01, RB.
C140	Colusa	Sacramento River West Side Levee District		O&M	PL 84-99	PL84-99	Unit#01, RB, General PL84-99 repair of deficiencies including: Vegetation, Encroachments, Animal Control and Erosion
C84	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Serious Seepage	Unit#01, RB, LM start 2.60 LM end 6.72. Seepage area designated worst by SRWSLD personnel
	Colusa	Sacramento River West Side Levee District		O&M	Seepage		Seepage Repair - Multiple Sites
C83	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 25.02. Undefined Seepage at a penetration.
C85	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Serious Seepage	Unit#01, RB, LM start 9.1, LM end 11. seepage area.
C86	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 15.2. bad seepage area.
C87	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 19.7, LM end 22.7. Long stretch of bad seepage.
C89	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Serious Seepage	Unit#01, RB, LM start 6.16. Bad seepage area on L/S shoulder and slope, continuing as of 3/91.
C90	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Serious Seepage	Unit#01, RB, LM start 6.72. Bad seepage (through seepage) area on L/S shoulder and slope.
C95	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 25.15. Seepage (through seepage) on L/S shoulder and slope.
C97	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 0.8. Bank failure caused by underseepage from irrigation ditch.
C98	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Serious Seepage	Unit#01, RB, LM start 2.6 LM end 5.8. Landside seepage and boils (site 1).
C99	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 13.2, LM end 15.5. Landside seepage and boils (site 2).
C100	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 21.7, LM end 24.6. Landside seepage and boils (site 3).
C101	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 49.23, LM end 50.12. boils/seepage/Small boils, Sac River, Right Bank (Site 12).
C102	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 34.5. boil appeared at high water flood stage/Two locations with boils.
C103	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 34.0. boils near Cecil lake.
C104	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 33.1, LM end 33.6. Seepage area including boils in yards of Grimes residents (not moving much material), up to 15' from levee toe.
C105	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Serious Seepage	Unit#01, RB, LM start 34.15, LM end 35.5. Seepage area designated as next-to-worst by SRWSLD personnel.
C106	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 33.1, LM end 33.6. Seepage area including boils in yards of Grimes residents (not moving much material), up to 15' from levee toe.
C107	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Critical Seepage	Unit#01, RB, LM start 35.08. Boils (2 with ring sacks), RB.
C108	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 26.74, LM end 27.78. Seepage and recommended stability berm (2,700 ft.), Sac River (Site 4).
C109	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 30.1, LM end 30.7. Seepage, Sac River, Right Bank (Site 5).
C110	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Serious Seepage	Unit#01, RB, LM start 34.15, LM end 35.13. Seepage, Sac River, Right Bank (Site 4 near Cecil Lake).
C111	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 41.5, LM end 41.85. Seepage, Sac River (Site 10).
C133	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 46.06, LM end 50.12. Seepage, Sac River, Right Bank, (Site 11).
C138	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage	Unit#01, RB, LM start 39.97, LM end 40.70.
C154	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage Repair	Unit#01, RB, Bank protection project to repair serious seepage site, LM start 2.6, LM end 5.8 Right Bank
C155	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage Repair	Unit#01, RB, Bank protection project to repair serious seepage site, LM start 34.15, LM end 35.13 Right Bank
C156	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage Repair	Unit#01, RB, Bank protection project to repair serious seepage site, LM start 34.75, LM end 35.5 Right Bank
C157	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage Repair	Unit#01, RB, Bank protection project to repair critical seepage site, LM start 35.08, Right Bank
C158	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage Repair	Unit#01, RB, Bank protection project to repair serious seepage site, LM start 4.8, LM end 6.72, Right Bank
C160	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage Repair	Unit#01, RB, Bank protection project to repair serious seepage site, LM start 6.16, Right Bank
C161	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage Repair	Unit#01, RB, Bank protection project to repair serious seepage site, LM start 6.72, Right Bank
C162	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage Repair	Unit#01, RB, Bank protection project to repair serious seepage site, LM start 9.1, Right Bank
C164	Colusa	Sacramento River West Side Levee District		O&M	Seepage	Seepage Repair	Unit#01, RB, 250 feet of drained seepage berm
	Colusa	Sacramento River West Side Levee District		O&M	Stability		Levee Stability Repair - Multiple Sites
C96	Colusa	Sacramento River West Side Levee District		O&M	Stability	Other	Unit#01, RB, LM start 20.46. Two Sinkholes, LM 20.46 (landside levee toe).
C126	Colusa	Sacramento River West Side Levee District		O&M	Stability	Stability	Unit#01, RB, LM start 42.695. Sloughing on upper third of the landside levee slope up to 12 inches deep, which leaves an over steepened levee slope of 1.5:1.
C127	Colusa	Sacramento River West Side Levee District		O&M	Stability	Stability	Unit#01, RB, LM start 39.958. Tension cracking on upper half of the landside levee slope up to 15 inches deep.
C128	Colusa	Sacramento River West Side Levee District		O&M	Stability	Stability	Unit#01, RB, LM start 39.756. Slumping up to 7 feet wide with an 18 inch scarp about 23 way up the landside levee slope.
C134	Colusa	Sacramento River West Side Levee District		O&M	Stability	Stability	Unit#01, RB, LM start 48.189. Section of levee shoulder appears to be slumping onto the adjacent access road.
C137	Colusa	Sacramento River West Side Levee District		O&M	Stability	Stability	Unit#01, RB, LM start 36.22.
	Colusa	Sacramento River West Side Levee District		O&M	Various	Various	Misc O&M Issues - Various Locations

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C136	Colusa	Sacramento River West Side Levee District		O&M		Other	Unit#01, RB, LM start 35.32, LM end 35.48.
C139	Colusa	Sacramento River West Side Levee District		O&M		Other	Unit#01, RB, LM start 41.27.
C167	Colusa			O&M	Rodent Control	Animal Control	Rodent Control Multiple sites
C168	Colusa			O&M	Rodent Control	Animal Control	Animal Burrows approx. 2-3 inches in diameter.
Misc	Glenn	LD 02		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
Misc	Glenn	LD 03		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Glenn	LD 03		O&M	Freeboard/Breach Repair	Various Locations	Freeboard/Breach Repair
Misc	Glenn	LD 03		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Glenn	LD 03		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
G42	Glenn	RD 2140		Flood Reduction	Habitat Enhancement	Hamilton City Flood Damage and Ecosystem Restoration Project (J Levee)	J-Levee Project
G13	Glenn	LD 01G		O&M	Erosion	Other	Unit#01, RB, LM start 1.16, LM end 1.19. Slopes severely damaged.
G12	Glenn	LD 01G		O&M	Misc	Levee Patrol Road Improvements	Levee Patrol Road Improvements, Unit#01, RB
G11	Glenn	LD 01G		O&M	Pipe Penetrations	Pipe Penetration Repairs & Replacements	Unit#01, RB
G10	Glenn	LD 01G		O&M	PL 84-99	PL84-99	Unit#01, RB, Implement SWIF Program Repairs
G9	Glenn	LD 01G		O&M	PL 84-99	PL84-99	Unit#01, RB, Develop Systemwide Improvement Framework (SWIF) to regain active status in the PL84-99 Program. Deficiencies include: Vegetation, Thin and Trim Tress, Encroachments, Animal Control, and Slope Stability
G3	Glenn	LD 01G		O&M	Seepage	Seepage	Unit#01, RB, LM start 2.5, LM end 2.9. Significant seepage in the field between the levee and the highway. Levee underseepage analysis performed.
G2	Glenn	LD 01G		O&M	Stability	Other	Unit#01, RB, LM start 6.83. Concrete bulkheads on both levee slopes.
G4	Glenn	LD 01G		O&M	Stability	Other	Unit#01, RB, LM start 4.05. Concrete bulkhead landside.
G1	Glenn	LD 01G		O&M	Stability	Stability	Unit#01, RB, LM start 5.03. Tension cracking, 7 inches deep, 1 inch wide, 15 feet long.
G14	Glenn	LD 01G		O&M	Stability	Stability	Unit#01, RB, LM start 0.152. Cracking up to 7 inches deep and 0.5 inches wide on the waterside levee slope.
G7	Glenn	LD 01G		O&M	Stability	Stability	Unit#01, RB, LM start 11.988. Cracking on the landside levee slope, up to 10 inches deep.
G8	Glenn	LD 01G		O&M	Stability	Stability	Unit#01, RB, LM start 7.027. Cracking on the waterside slope, 6 feet above the toe, 5 inches deep, extends for 40 feet.
	Glenn	LD 01G		O&M	Various	Various	Misc O&M Issues - Various Locations
G5	Glenn	LD 01G		O&M		Other	Unit#01, RB, LM start 11.3
G6	Glenn	LD 01G		O&M		Other	Unit#01, RB, Area of Concern
G43	Glenn	River Partners		Habitat Enhancement	Multi Benefit	USFWS Riparian Sanctuary project	Riparian Sanctuary project. Riparian restoration on the Llano Seco Riparian Sanctuary Unit (USFWS) and to protect alignment of the Sac River at the Princeton-Codora-Glenn-Provident Irrigation District. Environmental Documentation has been complete.
G44	Glenn			Water Supply	Planning	In-lieu Recharge in North-Eastern Glenn County	Provide surface water in-lieu of groundwater pumping to provide for greater flexibility and supply reliability for property operators as well as providing in-lieu recharge to the aquifer below.
	Glenn			Flood Reduction	Planning	Hamilton City 100-Year Level of Protection	Provide Hamilton City with a 100-Year level of protection
	Glenn			Flood Reduction	Planning	Butte City 100-Year Level of Protection	Provide Butte City with a 100-Year level of protection
G19	Glenn	LD 02		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion site at XXXX, Unit#01, RB
G23	Glenn	LD 02		O&M	Erosion	Serious Erosion Repair	Unit#2, RB, LM start 0.02. 2009 - Very slow retreat, hard toe, encroaching into the levee projection. 2010 - Slowly eroding. 2011: Site extended downstream. [2011 Site ID: SAC_164-7_R]
G21	Glenn	LD 02		O&M	Misc	Levee Patrol Road Improvements	Levee Patrol Road Improvements, Unit#01, RB
G20	Glenn	LD 02		O&M	Pipe Penetrations	Pipe Penetration Repairs & Replacements	Unit#01, RB
G18	Glenn	LD 02		O&M	PL 84-99	PL84-99	Develop Systemwide Improvement Framework (SWIF) to regain active status in the PL84-99 Program. Deficiencies include: Animal Control, Slope Stability, and Erosion, Unit#01, RB
G15	Glenn	LD 02		O&M	Seepage	Seepage	Unit#01, RB, LM start 3.8, LM end 3.8. Seepage (underseepage) into a perpendicular ditch that intercepts the sand layer.
G16	Glenn	LD 02		O&M	Seepage	Seepage	Unit#01, RB, LM start 1.9, LM end 1.9. Seepage (through) was observed adjacent to a 4-inch cast iron pipe through the levee, below the design flood level.
G17	Glenn	LD 02		O&M	Seepage	Seepage	Unit#01, RB, LM start 3.3, LM end 3.3. Water reportedly flows out of the ground between the levee and the highway during high-water events (underseepage).
G22	Glenn	LD 02		O&M	Seepage	Seepage Repair	Unit#1, RB, LM start 0.4. Area of seepage (underseepage) reportedly develops when the river is at high stages for several days. Seepage occurs in the irrigation district and in the field away from the levee. No repairs were recommended or performed.
	Glenn	LD 02		O&M	Various	Various	Misc O&M Issues - Various Locations
	Glenn			Flood Reduction	Planning	Glenn 100-Year Level of Protection	Provide Glenn with a 100-Year level of protection
	Glenn			Flood Reduction	Planning	Ord Bend 100-Year Level of Protection	Provide Ord Bend with a 100-Year level of protection
G27	Glenn, Butte, Colusa, Sutter, Yolo	DWR	USACE	Flood Reduction	Planning	100-year/200year WS Profiles for Sacramento River and Butte Basin	Develop 100-year/200year WS Profiles for Sacramento River and Butte Basin

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L10	Lake	Lake County WPD		Flood Reduction	Planning	Upper Lake 100-year Feasibility Study	Conduct Feasibility Study for achieving 100-year protection for Upper Lake
G25	Glenn	LD 03		O&M	Erosion	Critical Erosion Repair	Unit#1, LM start 9.88. Combine with DWR_LD0003_01_s_2012_52.
G27	Glenn	LD 03		O&M	Erosion	Critical Erosion Repair	Unit#1, LM start 9.60, LM end 9.88. Repair 1500 feet of critical erosion on WS.
G26	Glenn	LD 03		O&M	Erosion	Erosion Repair	Unit#1, LM start 5.99. Vegetation is an issue, especially poison oak. Recommend vegetation control, inspect for erosion and repair as required. Monitor and repair landside encroachment.
G28	Glenn	LD 03		O&M	Erosion	Erosion Repair	Unit#1, LM start 1.35, LM end 1.61. Erosion WS bench appears to be about 200 feet. Site remains inaccessible from levee. Recommend vegetation control, WS erosion repair.
G34	Glenn	LD 03		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion site at RM 163.00, LM Start 1.35, LM end 1.35, Unit#1, LB.
G35	Glenn	LD 03		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion site at RM 168.30, LM start 5.96, LM end 5.96, Unit#1, LB.
G36	Glenn	LD 03		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion site at RM 172.0, LM start 9.60, LM end 9.60, Unit#1, LB.
G38	Glenn	LD 03		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion sites, Critical erosion at LM 9.60 to 9.87 LB, Unit#1, LB.
G39	Glenn	LD 03		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion sites, Critical erosion at LM 9.88 LB, Unit#1, LB.
G37	Glenn	LD 03		O&M	Erosion	Serious Erosion Repair	Bank protection project to repair erosion sites, serious erosion at , Unit#1, LB, LM 11.25, LM end 11.25, LB. Area identified where WS toe has been cut into by almost 20 ft. Took a cross-section and coordinates to provide to LMA to repair. Cut is 6' high, 20' deep (into levee) and 40' long.
G41	Glenn	LD 03		O&M	Misc	Levee Access Road Improvements	Address high water levee access issues north of Butte City, Unit#1, LB.
G40	Glenn	LD 03		O&M	Pipe Penetrations	Pipe Penetration Repairs & Replacements	Unit#1, LB.
G33	Glenn	LD 03		O&M	PL 84-99	PL84-99	General PL84-99 repair of deficiencies including: Vegetation, Thin and Trim Tress, Encroachments, Animal Control, Slope Stability, and Erosion, Unit#1, LB
G24	Glenn	LD 03		O&M	Seepage	Patrol Road and Seepage Repairs	Unit 1, LB, LM start 0, LM end 2. Numerous potholes on levee crown. Water-preferring vegetation identified along waterside of levee between toe and 5 feet upslope. Low severity underseepage, clear water, levee underlain by coarse grained distributary channels. Recommend crown re-surfacing, and vegetation control.
G29	Glenn	LD 03		O&M	Stabilty	Slope Stability Repair	Unit#1, LM start 3.586. Monitor minor cracking on the landside at mid-embankment. Recommend rodent control.
G31	Glenn	LD 03		O&M	Stabilty	Slope Stability Repair	Unit#1, LM start 11.812. Cracking on the levee crown at the landside hinge, 1/2 to 1 inch wide, up to 8 inches deep, with no displacement along the crack.
G32	Glenn	LD 03		O&M	Stabilty	Slope Stability Repair	Unit#1, LM start 11.925, LM end 12.201. Start point. Longitudinal cracking along the landside hinge, up to 1/2 inch wide, 7 inches deep, with no displacement. The crack lengths exceed the levee height. End point is 350.
	Glenn	LD 03		O&M	Various	Various	Misc O&M Issues - Various Locations
G30	Glenn	LD 03		O&M		Slope Stability Repair	Unit#1, LM start 9.204. Monitor and repair cracking in levee. Monitor and control rodents.
L11	Lake	Lake County WPD		Flood Reduction	Planning	Scotts Creek Levee Improvements Feasibility Study	Conduct Feasibility Study for achieving 100-year protection for Scotts Creek
L12	Lake	Lake County WPD		ER	Flood Reduction	Upper Lake Flood Safety Plan	Develop a Flood Emergency Response Plan for Upper Lake area.
L1	Lake	Lake County WPD	Lake County WPD	Flood Reduction	Planning	DFIRM Re-Mapping	The flooding that occurred in 1995 was about 2' below the current FIRM BFE. Re-mapping efforts are needed and desired by the County in order to adequately relay the flood risk to the public.
L13	Lake	Lake County WPD		Recreation	Multi Benefit	Middle Creek Recreational Trail	Construct new bike and pedestrian access along the Middle Creek east levee. Project includes a new Middle Creek crossing just below the Confluence with Scotts Creek.
L8	Lake	Lake County WPD		Flood Reduction	Planning	Upper Lake Interior Drainage Improvements	Construct a diversion to convey high water flows to the lower Middle Creek restoration area (once project is complete).
L9	Lake	Lake County WPD		Flood Reduction	Planning	Clover Diversion Channel Improvements	Increase the capacity of the Diversion Channel (currently ~7,000 cfs). Construct improvements to the Clover Creek inlet structure (currently consists of (5) unregulated pipes and (2) 36-inch gated culverts. Install monitoring gage.
Misc	Lake	Lake County WPD		Flood Reduction	Seepage	Various Locations	
Misc	Lake	Lake County WPD		O&M	Erosion Repair	Various Locations	Small erosion repair
L18	Lake	MA 17		Flood Reduction	O&M	Breach Repair	Unit#1, LB, LM start 6.0. Breach.
Misc	Lake	Lake County WPD		O&M	Freeboard/Breach Repair	Various Locations	Freeboard/Breach Repair
L14	Lake	Lake County WPD		O&M	Freeboard	Other	Observed low area of levee where pipe crosses. Approximately 60 feet in length.
L15	Lake	Lake County WPD		O&M	Freeboard	Overtopping Repairs	Unit#3, LB, LM start 0.92. Overtopping.
L2	Lake	Lake County WPD		O&M	PL 84-99	Levee Access Road Improvements	
L3	Lake	Lake County WPD		O&M	PL 84-99	PL84-99	Unit #1 (LB Middle Creek): Address deficiencies to regain active status in the PL84-99 Program. Deficiencies include: Vegetation, Thin/Trim Trees, Encroachments, and Slope Stability
L4	Lake	Lake County WPD		O&M	PL 84-99	PL84-99	Unit #2 (RB Middle Creek): Address deficiencies to regain active status in the PL84-99 Program. Deficiencies include: Vegetation, Thin/Trim Trees, Encroachments, and Slope Stability
L5	Lake	Lake County WPD		O&M	PL 84-99	PL84-99	Unit #3 (LB Scotts Creek): Address deficiencies to regain active status in the PL84-99 Program. Deficiencies include: Vegetation, Thin/Trim Trees, Encroachments, and Slope Stability
L6	Lake	Lake County WPD		O&M	PL 84-99	PL84-99	Unit #4 (RB Poge, Alley and Clover Creek Diversion): Address deficiencies to regain active status in the PL84-99 Program. Deficiencies include: Vegetation, Thin/Trim Trees, Encroachments, and Slope Stability

Mid and Upper Sacramento River Regional Flood Management Plan

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L7	Lake	Lake County WPD		O&M	PL 84-99	PL84-99	Unit #5 (LB Clover Creek and Clover Creek Diversion): Address deficiencies to regain active status in the PL84-99 Program. Deficiencies include: Vegetation, Thin/Trim Trees, Encroachments, and Slope Stability
Misc	Lake	Lake County WPD		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Lake	Lake County WPD		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
Misc	Lake	MA 17		Flood Reduction	Seepage	Various Locations	Seepage Misc sites
Misc	Lake	MA 17		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Lake	MA 17		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Lake	MA 17		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
L30	Lake	USACE	DWR, Lake County WPD	Habitat Enhancement	Water Quality	Middle Creek Flood Relief and Restoration	De-authorize and breach the lower east Middle Creek levees in multiple locations and restoring about 1,650 acres of floodplain. The project provides water quality benefits to Clear Lake (alleviates sediment inflow), and the depths of flooding within the Southern zone of benefit are estimated to be between 5' and 10' during the 100-year event.
Misc	Sutter	RD 0070		Flood Reduction	Seepage	Various Locations	Seepage Misc sites
Misc	Sutter	RD 0070		O&M	Erosion Repair	Various Locations	Small erosion repair
L21	Lake	MA 17		O&M	PL 84-99	PL84-99	General PL84-99 repair of deficiencies including: Vegetation and Thin/Trim Trees, Unit#1, LB.
L22	Lake	MA 17		O&M	PL 84-99	PL84-99	General PL84-99 repair of deficiencies including: Vegetation and Thin/Trim Trees, Unit#1, LB.
L16	Lake	MA 17		O&M	Seepage	Critical Seepage Repair	Unit#1, LB, LM start 4.82, LM end 4.95. Boil.
L17	Lake	MA 17		O&M	Seepage	Seepage Repair	Unit#1, LB, LM start 5.8. Boil.
L19	Lake	MA 17		O&M	Seepage	Critical Seepage Repair	Unit#1, LB, LM start 5.4, LM end 5.5. Boil.
L20	Lake	MA 17		O&M	Seepage	Seepage Repair	Unit#1, LB, A 30-in pipe that penetrates through the levee is seeping approx. 100-GPM and carrying soil.
L23	Lake	MA 17		O&M	Seepage	Seepage Repair	Bank protection project to repair critical stability site, Unit#1, LB, LM start 4.82, LM end 4.95, Left Bank
L24	Lake	MA 17		O&M	Seepage	Seepage Repair	Bank protection project to repair critical stability site, Unit#1, LB, LM start 4.9, Left Bank
L25	Lake	MA 17		O&M	Seepage	Seepage Repair	Bank protection project to repair critical Seepage site, Unit#1, LB, LM start 4.91, Left Bank
L26	Lake	MA 17		O&M	Seepage	Seepage Repair	Bank protection project to repair critical Seepage site, Unit#1, LB, LM start 5.4, LM end 5.5, Left Bank
L27	Lake	MA 17		O&M	Seepage	Seepage Repair	Bank protection project to repair critical Seepage site, Unit#1, LB, LM start 5.4, LM end 5.4, Left Bank
L28	Lake	MA 17		O&M	Seepage	Seepage Repair	800 feet of drained seepage berm, Unit#1, LB.
L29	Lake	MA 17		O&M	Seepage	Seepage Repair	650 feet of a combined drained seepage and stability berm, Unit#1, LB.
Misc	Sutter	RD 0070		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Sutter	RD 0070		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
S1	Sutter	RD 0070	RD 70*RD 1660*Meridian	ER	Planning	Emergency Response Flood Safety Plan	RD 70/RD 1660 Emergency Response Plan: Prepare Emergency Response Plan that contains contact information for every resident within the basin. Pre-design of a future Meridian emergency berm is needed (alignment agreements, interior drainage, top of berm elevations, etc.) Improve coordination with E.R. responders in order to allow District staff access to the levees during an emergency.
Misc	Sutter	RD 1500		Flood Reduction	Seepage	Various Locations	Seepage Misc sites
Misc	Sutter	RD 1500		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Sutter	RD 1500		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Sutter	RD 1500		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
S6	Sutter	RD 0070		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion sites, Unit#02, LB, RM 138.10, LM start 0.04 LM end 0.33
S7	Sutter	RD 0070		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion sites, Unit#02, LB, RM 136.60, LM start 1.78, LM end 1.91
S8	Sutter	RD 0070		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion sites, Unit#02, LB, RM 133.80, LM start 4.44, LM end 4.48
S9	Sutter	RD 0070		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion sites, Unit#02, LB, RM 133.00, LM start 5.30, LM end 5.52
S10	Sutter	RD 0070		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion sites, Unit#02, LB, RM 131.80, LM start 6.50, LM end 6.60
S11	Sutter	RD 0070		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion sites, Unit#02, LB, RM 130.0, LM start 8.16, LM end 8.32
S12	Sutter	RD 0070		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion sites, Unit#02, LB, RM 125.80 LM start 11.64, LM end 11.66
S13	Sutter	RD 0070		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion sites, Unit#02, LB, RM 123.30, LM start 14.09, LM end 14.22
S14	Sutter	RD 0070		O&M	Erosion	Erosion Repair	Repair serious erosion on RB at XXXXXXXX, Unit#01.
S15	Sutter	RD 0070		O&M	Erosion	Erosion Repair	Bank protection project to repair critical stability site, Unit#01, RB, LM start 4.472 LM end 4.512 LB
S16	Sutter	RD 0070		O&M	Erosion	Pipe Penetration Repairs & Replacements	Unit#01, RB.
S18	Sutter	RD 0070		O&M	Erosion	Critical Erosion	Unit#01, RB, LM start 0.50. 350 feet of Rock Revetment.
S35	Sutter	RD 0070		O&M	Erosion	Erosion	Unit#02, LB, LM start 0.041, LM end 0.326, 1997 - Loss of cobble revetment in levee section. 2004 - New fresh erosion in a short section of the downstream end. 2010 - New deposition on cobbles. 2011: No observed change. [2011 Site ID: SAC_138-1_L]
S36	Sutter	RD 0070		O&M	Erosion	Erosion	Unit#02, LB, LM start 1.796, LM end 1.916, 1997 - Toe erosion on a cobble revetment on the outside of a low receding bend. 2011: No observed change. [2011 Site ID: SAC_136-6_L]
S37	Sutter	RD 0070		O&M	Erosion	Erosion	Unit#02, LB, LM start 0.01, LM end 0.17, 1997 - Loss of cobble revetment in levee section. 2004 - New fresh erosion in a short section of the downstream end. 2010 - New deposition on cobbles. 2011: No observed change. [2011 Site ID: SAC_138-1_L]
S39	Sutter	RD 0070		O&M	Erosion	Erosion	Unit#02, LB, LM start 5.349, LM end 5.561, 1997 - Cobble toe failures. 2000 - Erosion into the levee toe at the downstream end. 2002 - Some fresh erosion at the upstream and downstream end. 2010 - Cobble appears to be at the end of its design life, 1 - 2 ft. slump in mid-bank of the cobble, up
S40	Sutter	RD 0070		O&M	Erosion	Erosion	Unit#02, LB, LM start 6.469, LM end 6.594, 2005 - (known as 132) On inside of bend. Erosion of berm toe. Levee slope is steep. Erosion probably due to eddy scour off upstream cobble. 2009 - Groins may be a good option for repair. 2010 - Scour off the upstream rock, some new erosion. 2011: Sit

Mid and Upper Sacramento River Regional Flood Management Plan
Initial Project List Distributed with Draft RFMP (Previously Table 11-1)

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S41	Sutter	RD 0070		O&M	Erosion	Erosion	Unit#02, LB, LM start 8.165, LM end 8.294, 1997 - Critical Site - Erosion of cobble site on outside of a bend. Failure caused by erosion of a material from behind the cobbles and cobbles rolling down the slope. Failure is just above the toe levee. Some repairs had been done at the upstream end.
S42	Sutter	RD 0070		O&M	Erosion	Erosion	Unit#02, LB, LM start 11.717, LM end 11.755, 2005 - Site was repaired. 2009 - Site is at upstream end of the repair site. 2011: Still minor erosion. [2011 Site ID: SAC_125-8_L]
S43	Sutter	RD 0070		O&M	Erosion	Erosion	Unit#02, LB, LM start 14.173, LM end 14.193, 2006 - Erosion into the levee toe. Rock at upstream end has poor transition causing eddy scour. 2010 - Minor new erosion. 2011: Some fresh erosion. [2011 Site ID: SAC_123-3_L]
S23	Sutter	RD 0070		O&M	Erosion	Other	Unit#01, RB, LM start 4.521, LM end 4.559, 1-2.7' below design WSE
S38	Sutter	RD 0070		O&M	Erosion	Serious Erosion	Unit#02, LB, LM start 4.472, LM end 4.512, 1997 - Local toe scour of cobble site, eroded into the levee section. Outside of a moderate receding bend. Some rock rehabilitation performed. 2010 - Failing cobble site 2011: Cobble site starting to unravel. [2011 Site ID: SAC_133-8_L]
S17	Sutter	RD 0070		O&M	Misc	Levee Access Road Improvements	Levee Patrol Road Improvements, Unit#01, RB.
S34	Sutter	RD 0070		O&M	Misc	Other	Unit#02, LB, LM start 4.65, LM end 4.99, Wide Levee Section
S2	Sutter	RD 0070		O&M	PL 84-99	PL84-99	Develop Systemwide Improvement Framework (SWIF) to regain active status in the PL84-99 Program for the Right Bank of the Sutter Bypass. Deficiencies include: Animal Control, Slope Stability, and Erosion, Unit#01, RB.
S3	Sutter	RD 0070		O&M	PL 84-99	PL84-99	Develop Systemwide Improvement Framework (SWIF) to regain active status in the PL84-99 Program for the Left Bank of the Sacramento River. Deficiencies include: Animal Control, Slope Stability, and Erosion, Unit#02, LB.
S4	Sutter	RD 0070		O&M	PL 84-99	PL84-99	Implement SWIF Program Repairs for Left Bank of the Sacramento River, Unit#02, LB.
S5	Sutter	RD 0070		O&M	PL 84-99	PL84-99	Implement SWIF Program Repairs for Right Bank of the Sutter Bypass
S19	Sutter	RD 0070		O&M	Seepage	Seepage	Unit#01, RB, LM start 5.98, LM end 6.67, Seepage Area
S20	Sutter	RD 0070		O&M	Seepage	Seepage	Unit#01, RB, LM start 3.4, LM end , A number of small boils near levee toe
S22	Sutter	RD 0070		O&M	Seepage	Seepage	Unit#01, RB, LM start 4.01, LM end , Seepage (Site B)
S28	Sutter	RD 0070		O&M	Seepage	Seepage	Unit#02, LB, LM start 12.0, Boils
S29	Sutter	RD 0070		O&M	Seepage	Seepage	Unit#02, LB, LM start 12.18, LM end 12.19, Boils in landside ditch. Documented as running and carrying sand (CLD).
S30	Sutter	RD 0070		O&M	Seepage	Seepage	Unit#02, LB, LM start 12.24, Boil in landside ditch.
S33	Sutter	RD 0070		O&M	Seepage	Seepage	Unit#02, LB, LM start 12.1, Excessive Seepage
S44	Sutter	RD 0070		O&M	Seepage	Seepage	Unit#02, LB, LM start 3.625, LM end , Possible sand boils (between 3 and 7 in number) on lower 1/3 of LS slope, about 24-36 inches in diameter, material consists of fine to medium sand with silt, extends about 200 feet.
S21	Sutter	RD 0070		O&M	Stabilty	Other	Unit#01, RB, LM start 7.1, Depression 3' deep and 9'x11'
S27	Sutter	RD 0070		O&M	Stabilty	Other	Unit#02, LB, LM start 14.46, Sinkhole on Berm
S24	Sutter	RD 0070		O&M	Stabilty	Stability	Unit#02, LB, LM start 0.83, LM end 0.6, Sloughing
S25	Sutter	RD 0070		O&M	Stabilty	Stability	Unit#02, LB, LM start 2.19, LM end 2.35, Sloughing
S26	Sutter	RD 0070		O&M	Stabilty	Stability	Unit#02, LB, LM start 12.22, LM end 12.35, Slips
S31	Sutter	RD 0070		O&M	Stabilty	Stability	Unit#02, LB, LM start 12.17, Slough in ditch at landward toe, 25 feet in length.
S32	Sutter	RD 0070		O&M	Stabilty	Stability	Unit#02, LB, LM start 7.7, Sloughing on Berm (S.R. Site O)
S45	Sutter	RD 0070		O&M	Stabilty	Stability	Unit#02, RB, LM start 14.43, LM end 14.5, Sloughing
S46	Sutter	RD 0070		O&M	Stabilty	Stability	Unit#02, RB, LM start 14.48, Sloughing
Misc	Sutter	RD 1660		Flood Reduction	Seepage	Various Locations	Seepage Misc sites
Misc	Sutter	RD 1660		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Sutter	RD 1660		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Sutter	RD 1660		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
S91	Sutter	RD 1500		O&M	Encroachments	Encroachments	Unit#01, LB, LM start 19.18, LM end 19.25. Concrete Retaining Wall Along Landward Slope
S94	Sutter	RD 1500		O&M	Encroachments	Encroachments	Unit#01, LB, LM start 33.3, LM end 33.35. Concrete Retaining Wall on Landward Slope.
S95	Sutter	RD 1500		O&M	Erosion	Erosion	Unit#01, LB, LM start 1.36, LM end 1.97. 2006 - New erosion upstream, new bank failures near levee but still fairly wide berm in most places. 2008 - Large berm, questionable as to if it should remain in the inventory. 2010 - Minor new erosion, old cobble starting to fail. 2011: Cobble continue
S96	Sutter	RD 1500		O&M	Erosion	Erosion	Unit#01, LB, LM start 8.35, LM end 8.57. 1997 - Damage to cobble revetment on top left bank and toe damage. 2004 - Site is pretty minor. 2010 - Cobbles continue to deteriorate. 2011: Minor new erosion at the toe. [2011 Site ID: SAC_92-8_L]
S97	Sutter	RD 1500		O&M	Erosion	Erosion	Unit#01, LB, LM start 2.33, LM end 2.55. 2010 - The upstream end of the repair site at 87.0. Repair did not extend far enough upstream. 2011: New erosion pockets. [2011 Site ID: SAC_87-1_L]
S100	Sutter	RD 1500		O&M	Erosion	Erosion	Unit#01, LB, LM start 14.12, LM end 14.37. 1997 - Intermittent toe failure of the hand placed riprap; failure of toe materials. 2011: No observed change. [2011 Site ID: SAC_99-0_L]
S101	Sutter	RD 1500		O&M	Erosion	Erosion	Unit#01, LB, LM start 18.40, LM end 18.41. 2006 - Eddy flow and overtopping flow collide on the inside of a tight bend. Scour caused by converging flows created large scallop on the inside of a bend. 2007 - Site still looks bad. Would be a good candidate for a setback levee. 2008 - Some new de
S102	Sutter	RD 1500		O&M	Erosion	Erosion	Unit#01, LB, LM start 18.58, LM end 19.27. 1997 - Pocket failures of cobble revetment toe; scallops of rock loss along the bank; irregular bankline developing. 2001 - Small scallops in the toe of the berm. 2005 - Still multiple erosion pockets in the toe. 2006 - Two new small slumps. 2011: Old
S103	Sutter	RD 1500		O&M	Erosion	Erosion	Unit#01, LB, LM start 19.38, LM end 19.69. 1997 - Cobbles eroded off the clay materials; not much evidence of erosion on the toe; cobble loss on the toe. 2011: Some new minor erosion. [2011 Site ID: SAC_104-5_L]

Mid and Upper Sacramento River Regional Flood Management Plan

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S104	Sutter	RD 1500		O&M	Erosion	Erosion	Unit#01, LB, LM start 31.34, LM end 32.01. 2003 - New sedimentation and some new small toe scallops at the upstream end; downstream end has some new erosion. 2004 - Some new erosion at the toe and upper bank and some small new rotational failures (mainly minor, except at the downstream end). 200
S105	Sutter	RD 1500		O&M	Erosion	Erosion	Unit#01, LB, LM start 8.43, LM end 8.43.
S106	Sutter	RD 1500		O&M	Erosion	Erosion	Unit#01, LB, LM start 31.00, LM end 31.15. 2000 - Eroding, vertical berm slope over a vertical cohesive toe; slow erosion but getting close to the toe. 2002 - Erosion is getting close to the levee, still eroding with some new small slumps. 2004 - Some minor new erosion. 2006 - Some new erosion,
S107	Sutter	RD 1500		O&M	Erosion	Erosion	Unit#01, LB, LM start 8.43, LM end 8.43.
S65	Sutter	RD 1500		O&M	Erosion	Erosion and sloughing	Unit#01, LB, Known erosion and sloughing, need rock rip-rap
S67	Sutter	RD 1500		O&M	Erosion	Erosion and sloughing	Unit#01, LB, Known erosion and sloughing, need rock rip-rap
S71	Sutter	RD 1500		O&M	Erosion	Erosion and sloughing	Unit#01, LB, Known erosion and sloughing, need to reslope and add rock rip-rap
S72	Sutter	RD 1500		O&M	Erosion	Erosion and sloughing	Unit#01, LB, Known erosion and sloughing, need to reslope and add rock rip-rap
S49	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair erosion site at RM 86.3, LM start 1.34, LM end 1.34
S50	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair erosion site at RM 87.1, LM start 2.31, LM end 2.31
S51	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair erosion site at RM 92.8, LM start 8.26, LM end 8.26
S52	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair erosion site at RM 95.8, LM start 11.79, LM end 11.79
S53	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair erosion site at RM 96.2, LM start 11.98, LM end 11.98
S54	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair erosion site at RM 99.0, LM start 13.98, LM end 13.98
S55	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair erosion site at RM 103.4, LM start 18.28, LM end 18.28
S56	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair erosion site at RM 104.0, LM start 18.38, LM end 18.38
S57	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair erosion site at RM 104.5, LM start 19.16, LM end 19.16
S58	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair erosion site at RM 116.0, LM start 30.6, LM end 30.6
S59	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair erosion site at RM 116.5, LM start 30.94, LM end 30.94
S60	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair serious erosion site, LM start 11.91, LM end 12.09, LB
S61	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Bank protection project to repair serious erosion site, LM start 11.91, LM end 12.38, LB
S68	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Known bank erosion, need SR Bank Protection Project
S69	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Known bank erosion, need SR Bank Protection Project
S70	Sutter	RD 1500		O&M	Erosion	Erosion Repair	Unit#01, LB, Known bank erosion, need SR Bank Protection Project
S98	Sutter	RD 1500		O&M	Erosion	Serious Erosion	Unit#01, LB, LM start 11.91, LM end 12.09. 1997 - No toe on the large upstream rubble (mix of broken concrete, bricks, rock, and steel) - should be replaced. Oversized bank. 2001 - New slump at the downstream end. 2003 - Some minor bank retreat at the downstream end. 2004 - Some new retreat at
S99	Sutter	RD 1500		O&M	Erosion	Serious Erosion	Unit#01, LB, LM start 11.91, LM end 12.38. 2000 - Vertical Modesto Formation bank with mass failure. 2003 - Upstream end has some new bank retreat. 2004 - Upstream end is worse. 2006 - Some new erosion, mainly on the steep slope and scarps. (Pumping station is not part of the erosion site.) 2
S76	Sutter	RD 1500		O&M	Freeboard	Other	Unit#01, LB, LM start 0, LM end 1.5. Near overtopping (20 inches of freeboard)
S63	Sutter	RD 1500		O&M	Freeboard	Dip in levee crown on paved road	Unit#01, LB, Known dip in levee crown, need core sampling and borings
S88	Sutter	RD 1500		O&M	Freeboard	Overtopping Repairs	Unit#01, LB, LM start 18.04, LM end . 85 Foot Long Full Bank Overtopping Scour and Eddy
S123	Sutter	RD 1500		O&M	Misc	Levee Patrol Road Improvements	Levee Patrol Road Improvements, Unit#02, LB.
S122	Sutter	RD 1500		O&M	Pipe Penetrations	Pipe Penetration Repairs & Replacements	Unit#02, LB.
S47	Sutter	RD 1500		O&M	PL 84-99	PL84-99	Develop Systemwide Improvement Framework (SWIF) to regain active status in the PL84-99 Program. Deficiencies include: Thin and Trim Tress, Encroachments, Animal Control, Underseepage, and Erosion
S48	Sutter	RD 1500		O&M	PL 84-99	PL84-99	Implement SWIF Repairs
S75	Sutter	RD 1500		O&M	Programmatic	Permitting for Maintenance	Secure permits for maintenance issues from PL84-99 inspection, Unit#01, LB.
S93	Sutter	RD 1500		O&M	Rodent Control	Other	Unit#01, LB, LM start 31.34, LM end 31.81. Beaver holes, tension cracks, and slumping.
S77	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#01, LB, LM start 0.5, LM end 1.2. Seepage
S78	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#01, LB, LM start 13, LM end . Two boils behind building 10 feet off the levee toe; carried a small amount of material, not sand bagged.
S79	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#01, LB, LM start 13, LM end 13.19. Seepage
S80	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#01, LB, LM start 13.92, LM end 14.35. Seepage
S81	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#01, LB, LM start 19.88, LM end 20.75. Seepage
S82	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#01, LB, LM start 20.3, LM end 22.5. Through and Under seepage and Boils
S85	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#01, LB, LM start 23.30, LM end 23.70. Foundation Seepage Daylights in Ag Field
S89	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#01, LB, LM start 11, LM end 12.7. Heavy Seepage
S92	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#01, LB, LM start 31.2, LM end 31.7. Boils; This site experiences through seepage and foundation seepage during high flows.
S108	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, LB, LM start 18.5, LM end 19.5. Seepage (S.R. Site G)
S129	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 13.6, LM end 14.6. Numerous clear water boils (S.B. Site F)
S135	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 12.09, LM end . Boil # 9 in Irrigation Ditch
S136	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 13.99, LM end . Seepage at toe
S137	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 14.11, LM end . Boil # 11 in Irrigation Ditch

Mid and Upper Sacramento River Regional Flood Management Plan

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S138	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 14.22, LM end . Boil # 12 in Irrigation Ditch
S139	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 14.26, LM end . Boil # 13 in Irrigation Ditch
S140	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 14.48, LM end . Boil # 14 in Irrigation Ditch
S141	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 14.56, LM end . Boil # 16 in Irrigation Ditch
S142	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 15.45, LM end . Boil # 17 in Irrigation Ditch
S143	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 15.71, LM end . Boil # 18 Flows Back When Irrigation Ditch is Full
S144	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 16.2, LM end . Boil # 19 in Irrigation Ditch
S145	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 17.14, LM end . Boil # 20 in Irrigation Ditch
S146	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 17.73, LM end . Seepage at toe
S147	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 17.76, LM end . Boil at toe, Carried Material in 1973
S148	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 19.88, LM end 20.75. Excessive Seepage
S152	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 18.3, LM end . Boil (S.B. Site G)
S153	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 18.6, LM end . Seepage (S.B. Site H)
S154	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 18.9, LM end . Boils (S.B. Site I)
S155	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 20.3, LM end . Seepage (S.B. Site J)
S156	Sutter	RD 1500		O&M	Seepage	Seepage	Unit#02, RB, LM start 21.2, LM end . Seepage
S126	Sutter	RD 1500		O&M	Seepage	Critical Seepage	Unit#02, RB, LM start 9.13, LM end . Boil # 4 in Irrigation Ditch
S127	Sutter	RD 1500		O&M	Seepage	Critical Seepage	Unit#02, RB, LM start 9.53, LM end . Boil # 5 in Irrigation Ditch
S128	Sutter	RD 1500		O&M	Seepage	Critical Seepage	Unit#02, RB, LM start 9.6, LM end . Boil # 6 in Irrigation Ditch
S130	Sutter	RD 1500		O&M	Seepage	Critical Seepage	Unit#02, RB, LM start 10.32, LM end . Boil # 7 in Irrigation Ditch
S131	Sutter	RD 1500		O&M	Seepage	Critical Seepage	Unit#02, RB, LM start 9.58, LM end . Seepage was well reported in the 2005 Inspection Log.
S132	Sutter	RD 1500		O&M	Seepage	Critical Seepage	Unit#02, RB, LM start 9.8, LM end . Seepage well reported in 2005 Inspection Log at LM#9.58
S133	Sutter	RD 1500		O&M	Seepage	Critical Seepage	Unit#02, RB, LM start 10.38, LM end . Boil # 8 in Irrigation Ditch
S134	Sutter	RD 1500		O&M	Seepage	Critical Seepage	Unit#02, RB, LM start 10.41, LM end . Boil in Irrigation Ditch
S62	Sutter	RD 1500		O&M	Seepage	Heavy Seepage	Unit#01, LB, Known heavy seepage, need core sampling and borings
S66	Sutter	RD 1500		O&M	Seepage	Heavy Seepage	Unit#01, LB, Known heavy seepage, need landside stability berm
S73	Sutter	RD 1500		O&M	Seepage	Heavy Seepage	Unit#01, LB, Known heavy seepage, need core sampling and borings
S64	Sutter	RD 1500		O&M	Seepage	Seepage Boils	Unit#01, LB, Known boils, need landside stability berm
S109	Sutter	RD 1500		O&M	Seepage	Seepage Repair	Bank protection project to repair serious seepage site, LM start 0.8, LM end 1.8, RB, Unit#02, LB.
S110	Sutter	RD 1500		O&M	Seepage	Seepage Repair	Bank protection project to repair critical seepage site, LM start 10.32, RB, Unit#02, LB.
S111	Sutter	RD 1500		O&M	Seepage	Seepage Repair	Bank protection project to repair critical seepage site, LM start 10.38, RB, Unit#02, LB.
S112	Sutter	RD 1500		O&M	Seepage	Seepage Repair	Bank protection project to repair critical seepage site, LM start 10.41, RB, Unit#02, LB.
S113	Sutter	RD 1500		O&M	Seepage	Seepage Repair	Bank protection project to repair serious seepage site, LM start 7.3, RB, Unit#02, LB.
S114	Sutter	RD 1500		O&M	Seepage	Seepage Repair	Bank protection project to repair serious seepage site, LM start 7.5, RB, Unit#02, LB.
S115	Sutter	RD 1500		O&M	Seepage	Seepage Repair	Bank protection project to repair serious seepage site, LM start 7.67, RB, Unit#02, LB.
S116	Sutter	RD 1500		O&M	Seepage	Seepage Repair	Bank protection project to repair serious seepage site, LM start 9.0, RB, Unit#02, LB.
S117	Sutter	RD 1500		O&M	Seepage	Seepage Repair	Bank protection project to repair critical seepage site, LM start 9.13, RB, Unit#02, LB.
S118	Sutter	RD 1500		O&M	Seepage	Seepage Repair	Bank protection project to repair critical seepage site, LM start 9.53, RB, Unit#02, LB.
S119	Sutter	RD 1500		O&M	Seepage	Seepage Repair	Bank protection project to repair critical seepage site, LM start 9.58, RB, Unit#02, LB.
S120	Sutter	RD 1500		O&M	Seepage	Seepage Repair	Bank protection project to repair critical seepage site, LM start 9.6, RB, Unit#02, LB.
S121	Sutter	RD 1500		O&M	Seepage	Seepage Repair	Bank protection project to repair critical seepage site, LM start 9.8, RB, Unit#02, LB.
S125	Sutter	RD 1500		O&M	Seepage	Serious Seepage	Unit#02, RB, LM start 7.67, LM end . Boil # 3 in Irrigation Ditch
S149	Sutter	RD 1500		O&M	Seepage	Serious Seepage	Unit#02, RB, LM start 0.8, LM end 1.8. Excessive Seepage (S.B. Site A)
S151	Sutter	RD 1500		O&M	Seepage	Serious Seepage	Unit#02, RB, LM start 7.3, LM end . Boils (S.B. Site D)
S157	Sutter	RD 1500		O&M	Seepage	Serious Seepage	Unit#02, RB, LM start 9.0, LM end 11.0. S.B. Site E: Additional small boils appeared and existing boils flowed substantial quantities of water at the landside levee toe.
S158	Sutter	RD 1500		O&M	Seepage	Serious Seepage	Unit#02, RB, LM start 7.5, LM end . Bank sloughing and seepage in the irrigation canal @ Sutter Bypass; RM92.2
S90	Sutter	RD 1500		O&M	Stability	Other	Unit#01, LB, LM start 24.4, LM end 25. Proposed levee reconstruction (fill ditch and restore landside toe).
S83	Sutter	RD 1500		O&M	Stability	Stability	Unit#01, LB, LM start 31.07, LM end . 2364 Foot Long Berm Localized Mass Failures
S84	Sutter	RD 1500		O&M	Stability	Stability	Unit#01, LB, LM start 9.06. 765 Foot Long Toe, Levee Slope Fluvial Mass Failure
S86	Sutter	RD 1500		O&M	Stability	Stability	Unit#01, LB, LM start 0.50, LM end 1.00. Slope slippage and cracking, heavy seepage, and near overtopping (14 inches of freeboard); levee settled up to 32 inches
S87	Sutter	RD 1500		O&M	Stability	Stability	Unit#01, LB, LM start 31.34, LM end 31.81. Beaver holes, tension cracks, and slumping.
S124	Sutter	RD 1500		O&M	Stability	Stability	Unit#02, RB, LM start 2.30, LM end . Slip (S.B. Site B)
S150	Sutter	RD 1500		O&M	Stability	Stability	Unit#02, RB, LM start 2.70, LM end . Landside slide approximately 300 feet long (Site C).
	Sutter	RD 1500		O&M	Various	Various	Misc O&M Issues - Various Locations
S74	Sutter	RD 1500		O&M	Vegetation	Vegetation Variance	Determine if a vegetation variance from USACE, Unit#01, LB.
Misc	Sutter	ST 09		Flood Reduction	Seepage	Various Locations	Seepage Misc sites
Misc	Sutter	ST 09		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Sutter	ST 09		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Sutter	ST 09		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair

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S166	Sutter	RD 1660		O&M	Erosion	Erosion	Unit#01, LB, LM start 1.352, LM end 1.358, 2009 - Erosion on levee toe where an old cobble site is failing. 2011: Some new minor erosion. [2011 Site ID: SAC_120-6_L]
S202	Sutter	RD 1660		O&M	Erosion	Erosion	Unit#02, RB, LM start 1.537, LM end 1.544, Erosion above WS toe in levee prism, up to 10 feet deep, 5 feet wide.
S203	Sutter	RD 1660		O&M	Erosion	Erosion	Unit#02, RB, LM start 1.544, LM end , Erosion above WS toe in levee prism, up to 10 feet deep, 5 feet wide.
S163	Sutter	RD 1660		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion site at RM 120.6, LM start 1.32, LM end 1.35
S165	Sutter	RD 1660		O&M	Pipe Penetrations	Pipe Penetration Repairs & Replacements	
S159	Sutter	RD 1660		O&M	PL 84-99	PL84-99	Develop Systemwide Improvement Framework (SWIF) to regain active status in the PL84-99 Program for the Left Bank of the Sacramento River. Deficiencies include: Encroachments, Slope Stability, and Erosion Left Bank of Sacramento River
S160	Sutter	RD 1660		O&M	PL 84-99	PL84-99	Implement SWIF Program Repairs for Sac River LB
S161	Sutter	RD 1660		O&M	PL 84-99	PL84-99	Develop Systemwide Improvement Framework (SWIF) to regain active status in the PL84-99 Program for the Right Bank of the Sutter Bypass. Deficiencies include: Encroachments, Slope Stability, and Erosion
S162	Sutter	RD 1660		O&M	PL 84-99	PL84-99	Implement SWIF Program Repairs for Sutter Bypass RB
S171	Sutter	RD 1660		O&M	Seepage	Other	Unit#01, LB, LM start 1.824, LM end , Possible sand boil on lower 1/3 of LS slope, about 36 inches in diameter, material consists of fine to medium sand with silt.
S172	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB., LM start 0.07, LM end , Boil
S173	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 4.05, LM end , Two Boils
S174	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 4.18, LM end , Two Boils
S178	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 5.2, Boil
S180	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 0.21, LM end , Boil in drainage ditch
S181	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 0.27, LM end , Boil in drainage ditch
S182	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 0.52, LM end , Boil in drainage ditch
S183	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 0.63, LM end , Boil in drainage ditch
S184	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 1.14, LM end , Boil in drainage ditch
S185	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 1.58, LM end , Boil in drainage ditch
S186	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 2.81, LM end , Large boil and small boil in drainage ditch
S187	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 4.14, LM end 4.18, Three boils in drainage ditch
S188	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 4.41, LM end , Boil in drainage ditch
S189	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 4.65, LM end , Large boil in drainage ditch
S190	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 4.77, LM end , Boil in drainage ditch
S191	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 4.94, LM end , Boil in drainage ditch
S192	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 5.39, Boil in drainage ditch
S193	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 6.32, Boil in drainage ditch
S194	Sutter	RD 1660		O&M	Seepage	Seepage	Unit#02, RB, LM start 6.82, Boil in drainage ditch
S179	Sutter	RD 1660		O&M	Seepage	Critical Seepage	Unit#02, RB, LM start 5.68, Piping hole in an agricultural ditch on the landside of the levee approx. 40 ft. from the landside toe. The piping hole was reported to flow with as little as 1 to 2 ft. of water in the Sutter Bypass and be moving material. No visible sink holes or depres
S164	Sutter	RD 1660		O&M	Seepage	Seepage Repair	Bank protection project to repair serious stability site, LM start 5.68, RB
S167	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#01, LB, LM start 2.388, LM end 2.44,
S168	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#01, LB, LM start 2.44, LM end 2.44,
S169	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#01, LB, LM start 2.676, LM end 2.713,
S170	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#01, LB, LM start 1.151, LM end , Slope failure indicated by horizontal cracks on the LS slope with a bulge at the base of the slope and a zone of no vegetation above the bulge, approximately 50 feet wide.
S175	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#02, RB, LM start 0.5, LM end , Sloughing
S176	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#02, RB, LM start 1.4, LM end , Sloughing
S177	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#02, RB, LM start 1.8, LM end , Sloughing
S195	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#02, RB, LM start 0.0, LM end , Crack is 80 ft. in length and about 3 ft. from the landward levee shoulder
S196	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#02, RB, LM start 1.8, LM end , Crack is 100 ft. in length and about 3 ft. from the landward levee shoulder
S197	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#02, RB, LM start 7.977, Slump of the LS toe into an adjacent irrigation ditch. 10 foot wide failure of a 2 foot high vertical bank, accompanied by tension cracks up to 2in wide, no bulges of the lower slope observed.
S198	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#02, RB, LM start 5.208, A line of longitudinal cracking up to 12in deep over 100ft on the LS crest and upper slope. No displacement observed.
S199	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#02, RB, LM start 3.716, LM end , Up to 10 inch deep crack approximately 30 feet running parallel to levee at the WS crown. No displacement observed.
S200	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#02, RB, LM start 3.338, LM end , Up to 13 inch deep, up to 1 inch wide crack running approximately 50 feet at lower 1/3 of WS slope. No displacement observed.
S201	Sutter	RD 1660		O&M	Stabilty	Stability	Unit#02, RB, LM start 3.107, LM end , Up to 8 inch deep, up to 1 inch wide crack running approximately 30 feet at midslope of WS slope. No displacement observed.
	Sutter	RD 1660		O&M	Various	Various	Misc O&M Issues - Various Locations
S214	Sutter		Sutter County	ER		Robbins Backup Power Supply	Install a new backup power supply at the Robbins' wastewater treatment plant.

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	Sutter			Flood Reduction	Planning	Meridian 100-Year Level of Protection	Provide Meridian with a 100-Year level of protection
	Sutter			Flood Reduction	Planning	Robbins 100-Year Level of Protection	Provide Robbins with a 100-Year level of protection
T1	Tehama	Deer Creek Watershed Conservancy	Tehama Co. FCWCD, CDFW Northern Region (Region 1)	Habitat Enhancement	Planning	Lwr Deer Creek Levee Improvements & Habitat Restoration Ph1	Phase 1 will conduct an overall evaluation of the project as described in the 2011 feasibility study.
S206	Sutter	ST 09		O&M	Erosion	Other	Unit#02, RB, LM start 0.25, LM end 0.6. Blanket Drain to Repair Erosion Site
S213	Sutter	ST 09		O&M	Erosion	Serious Erosion	Unit#02, RB, LM start 1.01, LM end 1.01.
S209	Sutter	ST 09		O&M	Seepage	Seepage	Unit#02, RB, LM start 1.2, LM end 2.1. Seepage in Irrigation Ditch
S212	Sutter	ST 09		O&M	Seepage	Seepage	Unit#02, RB, LM start 0.35, LM end 0.59. Heavy seepage on landward slope
S204	Sutter	ST 09		O&M	Stability	Stability	Unit#01, LB, LM start 4.402, LM end , Cracking observed on lower 1/3 of LS slope. Cracks are 1-4 inches wide and 2-14 inches deep and extend over a 25 foot area.
S205	Sutter	ST 09		O&M	Stability	Stability	Unit#01, RB, LM start 4.35, LM end , Landside slip
S207	Sutter	ST 09		O&M	Stability	Stability	Unit#02, RB, LM start 0.25, LM end 0.56. Sloughing of bench at landside levee toe
S208	Sutter	ST 09		O&M	Stability	Stability	Unit#02, RB, LM start 1.2, LM end 2.1. Slides (T.B. Site A)
S210	Sutter	ST 09		O&M	Stability	Stability	Unit#02, RB, LM start 3.5, LM end . Cracks vary in size from 8 inches wide to 1 foot depth. Cover about 300 ft. on waterside and about 200 ft. on landside. Patterns of cracks are indicative of shrinkage
S211	Sutter	ST 09		O&M	Stability	Stability	Unit#02, RB, LM start 0.4, LM end 2. Sloughing along landside bench at 4 sites
T2	Tehama	Deer Creek Watershed Conservancy	Tehama Co. FCWCD, CDFW Northern Region (Region 1)	Habitat Enhancement	Fish Passage	Lwr Deer Creek Levee Improvements & Habitat Restoration Ph2	Phase 2 will evaluate options to improve the existing SVRIC Diversion Dam and fish ladders.
T3	Tehama	Deer Creek Watershed Conservancy	Tehama Co. FCWCD, CDFW Northern Region (Region 1)	Habitat Enhancement	Flood Reduction	Lwr Deer Creek Levee Improvements & Habitat Restoration Ph3	Phase 3 will be the final design and construction of a new 4,620 LF levee. The new levee will be setback will create approximately 40 acres of new floodway with floodway and migration easements, which will be contoured to greatly assist fish passage (e.g. Salmon).
T4	Tehama	Deer Creek Watershed Conservancy	Tehama Co. FCWCD, CDFW Northern Region (Region 1)	Habitat Enhancement	Flood Reduction	Lwr Deer Creek Levee Improvements & Habitat Restoration Ph4	Leininger Road Bridge (Red Bridge) would be rebuilt with a conveyance width of about 450 feet. The section of the north bank levee upstream of Red Bridge (PL2) would be removed, and the spoils would be used to raise the north bank road abutment, thus maintaining the flooding use of the flood easement on the Leininger property. Additional engineering of the north bank road abutment is likely.
T5	Tehama	Deer Creek Watershed Conservancy	Tehama Co. FCWCD, CDFW Northern Region (Region 1)	Habitat Enhancement	Flood Reduction	Lwr Deer Creek Levee Improvements & Habitat Restoration Ph5	Miscellaneous improvements to non project levees, and removal of rock revetment and spurs will further enhance the flood benefits and habitat restoration efforts for the reach.
T25	Tehama	Tehama Co. FCWCD		O&M	Habitat Enhancement	Elder Creek Flood Management, Restoration, and Invasive Species Removal	Undertake flood management, restoration and invasive species removal actions.
T27	Tehama	Tehama Co. FCWCD		Flood Reduction	Planning	Salt Creek Flood Hydraulics Study	Evaluate alternatives to manage flooding along Salt Creek whihc currently impacts Highway 36, the local Sheriff's facility and a Cal Fire station.
T26	Tehama	Tehama Co. FCWCD		ER	Planning	100yr/200-yr WS Profiles	Develop 100yr/200-yr WS Profiles for area rivers, streams and creeks
T32	Tehama	Tehama County FCWCD		ER	Freeboard	Freeboard	SRGL-R 1016+56 to SRGL-R 1083+47. Low spot in levee is apparent to the naked eye. The levee drops down approximately 2.4 feet. Considered Freeboard Serious. (Failure mode for this POI changed from Other to Freeboard based on the 2012 field reconnaissance.)
T28	Tehama	Tehama Co. FCWCD		Flood Reduction	Planning	Flood Detention Basin FS	A Feasibility Study for constructing flood detention basins on foothill streams.
T29	Tehama	Tehama Co. FCWCD		Flood Reduction	Planning	Small Community of Gerber Feasibility Study	Feasibility Study for providing a 100-year level of protection to Gerber.
T6	Tehama	Tehama Co. FCWCD	Tehama County	ER	Planning	Tehama FMP Projects	Implement Flood Mitigation Plan.
T41	Tehama	Tehama County FCWCD		Flood Reduction	O&M	Breach Repair	Unit#1, LB, LM start 2.2. Levee breached by erosion and scour.
T42	Tehama	Tehama County FCWCD		Flood Reduction	O&M	Breach Repair	Unit#1, LB, LM start 2.9, LM end 3.03. Scouring/Breach. Water side bank erosion present at this location.
T43	Tehama	Tehama County FCWCD		Flood Reduction	O&M	Breach Repair	Unit#1, LB, LM start 3.2. 50 ft. Levee Break.
T44	Tehama	Tehama County FCWCD		Flood Reduction	O&M	Breach Repair	Unit#1, LB, LM start 3.29, LM end 3.58. Breach.
T45	Tehama	Tehama County FCWCD		Flood Reduction	O&M	Breach Repair	Unit#1, LB, LM start 3.64, LM end 3.66. Levee Breach.
T46	Tehama	Tehama County FCWCD		Flood Reduction	O&M	Breach Repair	Unit#1, LB, LM start 3.46. Levee Breach (450 ft. in length Just East of Hwy 99).
T48	Tehama	Tehama County FCWCD		Flood Reduction	O&M	Breach Repair	Unit#2, RB, LM start 1.0. 100 feet levee breach caused by erosion (interview with local Maintenance Authority).
T52	Tehama	Tehama County FCWCD		Flood Reduction	O&M	Breach Repair	Unit#4, LB, LM start 3.8. 110 ft. Levee Break.
T60	Tehama	Tehama County FCWCD		Flood Reduction	O&M	Breach Repair	Unit#5, RB, LM start 3.1. Levee break, 100 ft. (Site 3).
T57	Tehama	Tehama County FCWCD		Flood Reduction	O&M	Serious Breach Repair	Unit#5, RB, LM start 2.35. Levee break, 50 ft. plus 300 ft. west levee erosion (Site 5).
T61	Tehama	Tehama County FCWCD		Flood Reduction	O&M	Serious Breach Repair	Unit#5, RB., LM start 2.65. Levee break, 200 ft. (Site 4).
	Tehama	Tehama County FCWCD		Flood Reduction	O&M	Breach Repair	Breach Repairs - Various Locations
Misc	Tehama	Tehama County FCWCD		Flood Reduction	Seepage	Various Locations	
Misc	Tehama	Tehama County FCWCD		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Tehama	Tehama County FCWCD		O&M	Freeboard/Breach Repair	Various Locations	Freeboard/Breach Repair
Misc	Tehama	Tehama County FCWCD		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.

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Misc	Tehama	Tehama County FCWCD		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
T68	Tehama	Tehama County Public Works	Tehama County	Flood Reduction	Planning	Tehama HMP City of Tehama Projects	Implement a plan to keep brush & debris clear from Tehama Simpson Slough Analyze solutions to Gyle Rd flooding & funding sources. Improve barricading of Gyle Rd during flooding, & repair culvert on Gyle Rd for drainage of Oak Creek, Elevate or move City Hall to a structure with lower risk for flooding.
T66	Tehama	Tehama County Public Works	Tehama County	Flood Reduction	Planning	Tehama HMP County Wide Projects	Implement HMP measures
T67	Tehama	Tehama County Public Works	Tehama County	Flood Reduction		Tehama HMP Unincorporated County Projects	Identify and implement a feasible risk reduction solution to the flooding problems around Corning along the Jewett and Burch Creek flood plain.
T69	Tehama		Tehama County, City of Corning, The Nature Conservancy, CA State Parks, CA DWR, Sacramento River Conservation Area Forum	Habitat Enhancement	Flood Reduction	Kopta Slough	<ul style="list-style-type: none"> Remove revetment along 5,600 feet of the riverbank at the Kopta Slough property to restore fluvial and floodplain processes and mitigate for the loss of SRA habitat from DWR Flood Control Projects Facilitate reestablishment of the river's historical channel alignment through Kopta Slough. Establish erosion protection for the west abutment of Woodson Bridge and the City of Corning sewer outfall. Restore 176 acres of mixed riparian forest habitat on the Kopta Slough property as mitigation for DWR flood control Projects, • Transfer the 708-acre Kopta Slough property from the California State Controller's Environmental Trust to a resource agency for long-term management. This element may include expansion of the Woodson Bridge SRA to the west side of the Sacramento River, with consideration for increasing public recreational opportunities.
T8	Tehama	Tehama Co. FCWCD		O&M	Erosion	Erosion Repair	Unit #1 (LB Deer Creek): Bank protection project to repair erosion site at RM 0.0, LM start 2.98, LM end 3.00
T10	Tehama	Tehama Co. FCWCD		O&M	Erosion	Erosion Repair	Unit #2 (RB Deer Creek) Bank protection project to repair erosion site at RM 0.0, LM start 0.86, LM end 0.91
T13	Tehama	Tehama Co. FCWCD		O&M	Erosion	Erosion Repair	Unit #4 (LB Elder Creek): Bank protection project to repair erosion site at RM 0.0, LM start 1.44, LM end 1.51
T15	Tehama	Tehama Co. FCWCD		O&M	Erosion	Erosion Repair	Unit #5 (RB Elder Creek): Bank protection project to repair erosion site at RM 0.0, LM start 3.08, LM end 3.10
T16	Tehama	Tehama Co. FCWCD		O&M	Erosion	Erosion Repair	Bank protection project to repair serious seepage site, Right Bank
T18	Tehama	Tehama Co. FCWCD		O&M	Erosion	Erosion Repair	Unit #1 (LB Deer Creek): Bank protection project to repair serious erosion site, LM start 2.98, LM end 3.00, Left Bank
T19	Tehama	Tehama Co. FCWCD		O&M	Erosion	Erosion Repair	Unit #1 (LB Deer Creek): Bank protection project to repair serious erosion site, LM start 3.64, LM end 3.66, Left Bank
T20	Tehama	Tehama Co. FCWCD		O&M	Erosion	Erosion Repair	Unit #4 (LB Elder Creek): Bank protection project to repair critical erosion site, LM start 1.38, LM end 1.51, Left Bank
T21	Tehama	Tehama Co. FCWCD		O&M	Erosion	Other Repair	Unit #5 (RB Elder Creek): Bank protection project to repair other critical site, LM start 2.56, Right Bank
T22	Tehama	Tehama Co. FCWCD		O&M	Erosion	Other Repair	Unit #5 (RB Elder Creek): Bank protection project to repair other serious site, LM start 2.35, Right Bank
T23	Tehama	Tehama Co. FCWCD		O&M	Erosion	Other Repair	Unit #5 (RB Elder Creek): Bank protection project to repair other serious site, LM start 2.65, Right Bank
	Tehama			Flood Reduction	Planning	Gerber 100-Year Level of Protection	Provide Gerber with a 100-Year level of protection
T30	Tehama	Tehama Co. FCWCD		O&M	Habitat Enhancement	Re-vegetation	Reduce peak flow runoff by re-vegetating agricultural areas.
T7	Tehama	Tehama Co. FCWCD		O&M	PL 84-99	PL84-99	Unit #1 (LB Deer Creek): General PL84-99 repair of deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion/Bank Caving
T9	Tehama	Tehama Co. FCWCD		O&M	PL 84-99	PL84-99	Unit #2 (RB Deer Creek): General PL84-99 repair of deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion/Bank Caving
T11	Tehama	Tehama Co. FCWCD		O&M	PL 84-99	PL84-99	Unit #4 (LB Elder Creek): Develop System Wide Improvement Framework (SWIF) to repair identified deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion/Bank Caving
T12	Tehama	Tehama Co. FCWCD		O&M	PL 84-99	PL84-99	Unit #4 (LB Elder Creek): Develop System Wide Improvement Framework (SWIF) to repair deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion/Bank Caving
T14	Tehama	Tehama Co. FCWCD		O&M	PL 84-99	PL84-99	Unit #5 (RB Elder Creek): Develop System Wide Improvement Framework (SWIF) to repair deficiencies including: Vegetation, Encroachments, Animal Control, Slope Stability, and Erosion/Bank Caving
T24	Tehama	Tehama Co. FCWCD		O&M	Seepage	Seepage Repair	Unit #5 (RB Elder Creek): 400 feet of partial levee replacement
T17	Tehama	Tehama Co. FCWCD		O&M	Stability	Slope Stability Repair	Bank protection project to repair serious stability site, 00+10 to SRGL-R, Right Bank
T56	Tehama	Tehama County FCWCD		O&M	Erosion	Critical Erosion Repair	Unit#4, LB, LM start 1.38, LM end 1.51. 2006 - High vertical bank due to mass failures. Thalweg meandering and erosion of bank. Banks are cohesive with non-cohesive gravel horizons. 2011: Foundation is silty-sand with gravel. New slumping at the toe, mass failure continues. [2011 Site ID: EL
T39	Tehama	Tehama County FCWCD		O&M	Erosion	Erosion Repair	LM start (?). Approximately 250 feet of bank erosion on outside bend. Loose silty sand; no trees; small shrubs and weeds. Riprap located on portion of levee and bank. Area of concern should be monitored annually for advancing erosion.
T49	Tehama	Tehama County FCWCD		O&M	Erosion	Erosion Repair	Unit#2, RB, LM start 0.76, LM end 0.91. Bank is continuing to erode. Trees are tilting, roots exposed.
T54	Tehama	Tehama County FCWCD		O&M	Erosion	Erosion Repair	Unit#4, LB, LM start 2.57. 8/30/2013: No change observed. Appears to be a common occurrence near to utility poles adjacent to landside levee.
T63	Tehama	Tehama County FCWCD		O&M	Erosion	Erosion Repair	Unit#5, RB, LM start 2.98, LM end 3.00. 2006 - Mass failure of this bank due to being along the outside of a bend where erosion and undercutting are the greatest. Low flow is being forced into the toe of this bank by point bar on the opposite side of the creek. 2011: Toe of the bank continues
T64	Tehama	Tehama County FCWCD		O&M	Erosion	Erosion Repair	Unit#5, RB, LM start 3.45.
T40	Tehama	Tehama County FCWCD		O&M	Erosion	Serious Erosion Repair	LM start (?). Approximately 120 feet of active erosion. Near vertical scarp is about 14 feet high. Soil is very loose Poorly Graded Sand with Gravel. Erosion has not progressed into levee prism at time of field visit, but likely will in near future with just nominal flows.
T47	Tehama	Tehama County FCWCD		O&M	Erosion	Serious Erosion Repair	Unit#1, LB, LM start 2.98, LM end 3.03. Erosion along bank may be entering levee prism.. Leaning trees along bank. Five-foot near vertical drop off bank into creek. Overlaps 54-4.
T53	Tehama	Tehama County FCWCD		O&M	Freeboard	Overtopping Repairs	Unit#4, LB, LM start 3.91. Overtopping of the levee caused erosion on both sides of the levee.
T65	Tehama	Tehama County FCWCD		O&M	Misc	Levee Patrol Road Improvements	

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T35	Tehama	Tehama County FCWCD		O&M	Rodent Control	Burrowing Animal Control	SRGL-R 1000+18 to SRGL-R 1037+64. A few burrows were found, but not many.
T36	Tehama	Tehama County FCWCD		O&M	Rodent Control	Burrowing Animal Control	SRGL-R 1055+37 to SRGL-R 1081+17. Some burrows, but not many.
T62	Tehama	Tehama County FCWCD		O&M	Rodent Control	Critical Rodent Control	Unit#5, RB, LM start 2.56. 8/29/2013: Rodent burrows persist. Length of section measured approximately 230 feet. Additional photos taken. Appears rodent bait/trap is non-operational. No other changes observed.
T50	Tehama	Tehama County FCWCD		O&M	Rodent Control	Rodent Control	Unit#4, LB, LM start 0.31. Gopher or Rodent Burrows, North side of Elder Creek, about 1/4-mile easterly of Central Avenue.
T58	Tehama	Tehama County FCWCD		O&M	Rodent Control	Rodent Control	Unit#5, RB, LM start 0.29. Gopher or Rodent Holes, South side of Elder Creek, about 1/4-mile easterly of Central Avenue.
T59	Tehama	Tehama County FCWCD		O&M	Rodent Control	Rodent Control	Unit#5, RB, LM start 0.38. Gopher or Rodent Holes, South side of Elder Creek, about 1/4-mile easterly of Central Avenue.
T34	Tehama	Tehama County FCWCD		O&M	Seepage	Seepage Repair	SRGL-R 1021+57 to SRGL-R 1083+35. See description of 24-14 which is at the same location. No evidence of seepage observed. In the winter of 1983 sheet flow was at the toe for a distance of 100 feet. Loamy soil. Silty-clayey sand by field inspection. Through seepage susceptibility is class C.
T37	Tehama	Tehama County FCWCD		O&M	Seepage	Seepage Repair	SRGL-R 1038+65 to SRGL-R 1039+85. Area of reported seepage. No signs of seepage. Embankment composed of lean clay, low plasticity. A few small stumps waterside. Moderately high underseepage potential, throughseepage class C. Clear water seepage from base of levee at toe.
T51	Tehama	Tehama County FCWCD		O&M	Stabilty	Other	Unit#4, LB, LM start 3.75. Emergency repair site (Site 2A), waterside berm, waterside widening. No indication work was completed.
T31	Tehama	Tehama County FCWCD		O&M	Stabilty	Serious Stability	SRGL-R 1000+10 to SRGL-R 1083+84. A few burrows found, but not many.
T33	Tehama	Tehama County FCWCD		O&M	Stabilty	Stability	Slopes are hummocky possibly due to spoils piles from digging out ditches on both land and water sides. Silty-clayey sand may erode to form hummocks.
T38	Tehama	Tehama County FCWCD		O&M	Stabilty	Stability	SRGL-R 1000+10 to SRGL-R 1083+84. Near 24-1 spoil piles or possibly slumps on the waterside slope. Two piles approximately 10 feet wide.
T55	Tehama	Tehama County FCWCD		O&M	Vegetation	Vegetation Removal	Unit#4, LB. Due to lack of maintenance of vegetation, levee is not accessible. Large trees and foliage present throughout levee prism.
T70	Tehama and Shasta	Tehama Co. FCWCD		Water Supply	Habitat Enhancement	Veterans/Cottonwood Lake No-Pump Off-Stream Surface Storage	Veterans Lake (up to 1 million AF) and Cottonwood Lake (up to 1.4 million AF) no-pump off-stream surface storage reservoirs would be constructed on minor tributaries of Cottonwood Creek that do not support/impact anadromous fish and will not impact sediment flow/gravel migration.
Misc	Yolo	RD 0787		Flood Reduction	Seepage	Various Locations	Seepage Misc sites
Misc	Yolo	RD 0787		O&M	Erosion Repair	Various Locations	Small erosion repair
Misc	Yolo	RD 0787		O&M	Other/Misc	Various Locations	Rodent Control; encroachment remediation; PL84-99 issues.
Misc	Yolo	RD 0787		O&M	Slope Stability Repair	Various Locations	Slope Stability Repair
Misc	Yolo	RD 0787		O&M	Freeboard/Breach Repair	Various Locations	
Y3	Yolo	RD 0787		O&M	Erosion	Erosion	Unit#01, LB, LM start 0.391 LM end 0.503. 2011: Large scallops throughout the entire reach. Toe scour due to tree pop-outs, resulting in a steepening slope. The reduced resistive forces plus clay levee may increase the loading. Additional erosion due to human use. [2011 Site ID: CBD_0-5_L].
Y7	Yolo	RD 0787		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion site at Unit#01, LB, RM 0.0, LM start 0.39, LM end 0.51
Y8	Yolo	RD 0787		O&M	Erosion	Erosion Repair	Bank protection project to repair erosion site at Unit#01, LB, RM 0.0, LM start 0.67, LM end 0.67
Y9	Yolo	RD 0787		O&M	Erosion	Erosion Repair	Bank protection project to repair serious erosion site, Unit#01, LB, LM start 0.667 LM end 0.847
Y10	Yolo	RD 0787		O&M	Erosion	Erosion Repair	Bank protection project to repair serious erosion site, Unit#01, LB, LM start 0.715
Y4	Yolo	RD 0787		O&M	Erosion	Serious Erosion	Unit#01, LB, LM start 0.667 LM end 0.847. 2011: Large scallops throughout the entire reach. Toe scour due to tree pop-outs, resulting in a steepening slope. The reduced resistive forces plus clay levee may increase the loading. [2011 Site ID: CBD_0-9_L].
Y16	Yolo	RD 0787		O&M	Erosion	Serious Erosion	Unit#01, LB, LM start 0.715. Bottom of waterside slope appears to be undercut and eroding. Slope appears to be sloughing down toward toe.
Y17	Yolo	RD 0787		O&M	Erosion	Serious Erosion	Unit#01, LB, LM start 0.772. Waterside slope appears to be failing. Noticeable head scarp is about 2 feet deep. Bottom may be undercut by high water leading to instability. Failure area extends for 200 feet.
Y1	Yolo	RD 0787		O&M	PL 84-99	PL84-99	Develop System Wide Improvement Framework (SWIF) to repair deficiencies including: Animal Control, Slope Stability, Cracking, and Erosion
Y2	Yolo	RD 0787		O&M	PL 84-99	PL84-99	Implement SWIF
Y6	Yolo	RD 0787		O&M	PL 84-99	PL84-99	General PL84-99 repair of deficiencies including: Animal Control, Flood Preparedness & Training, and Erosion, Unit#01, LB.
Y5	Yolo	RD 0787		O&M	Stabilty	Stability	Unit#01, LB, LM start 1.292.
Y13	Yolo	RD 0787		O&M	Stabilty	Stability	Unit#01, LB, LM start 2.28 LM end 3.05. Segment 137 flood damage. Slips on landside. See map. (perhaps the maps would provide useful info).
Y15	Yolo	RD 0787		O&M	Stabilty	Stability	Unit#01, LB, LM start 4.4. Landside (East) Slip (RD 787).
Y18	Yolo	RD 0787		O&M	Stabilty	Stability	Unit#01, LB, LM start 1.034. Cracking on waterside slope up to 36 inches deep and 1 inch wide.
Y21	Yolo	RD 0787		O&M	Stabilty	Stability	Unit#01, LB, LM start 0.5. Waterside slip and landside slope failure./Surficial Slope Failure at LM 0.5 RD787.
Y20	Yolo	RD 0787		O&M	Stabilty	Critical Stability	Unit#01, LB, LM start 1.461. Slope failure on waterside slope with noticeable head scarp and toe bulge. Up to 40 feet wide and 10-15 feet tall.
Y19	Yolo	RD 0787		O&M	Stabilty	Serious Stability	Unit#01, LB, LM start 1.084 LM end 1.168. Cracking on waterside slope up to 2 inches wide and less than 36 inches deep. Extends for 50 feet.
Y11	Yolo	RD 0787		O&M	Stabilty	Slope Stability Repair	Bank protection project to repair serious stability site, Unit#01, LB, LM start 1.084, LM end 1.168
Y12	Yolo	RD 0787		O&M	Stabilty	Slope Stability Repair	Bank protection project to repair critical stability site, Unit#01, LB, LM start 1.461
Y14	Yolo	RD 0787		O&M	Stabilty	Subsidence Repair	Unit#01, LB, LM start 2.25. subsided to a depth of 2' vertically and 8' to 10' into the crown of the levee for 50'.