

Central Valley Flood Protection Board Meeting  
July 28, 2023

INFORMATIONAL BRIEFING

10C. United States Army Corps of Engineers Public Law 84-99 Rehabilitation  
Assistance for 2023 Storms

**BRIEFING SUMMARY**

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**Background**

U.S. Army Corps of Engineers (USACE) levee systems that are eligible for rehabilitation assistance under Public Law 84-99 (PL 84-99) following flood or storm damage include those that are federally authorized and operated and maintained by non-federal sponsors. These levees remain eligible if they are operated and maintained to acceptable or minimally acceptable USACE inspection standards. For federal levee systems that do not meet minimally acceptable standards and are thus ineligible in PL 84-99, USACE offers non-federal sponsors a process through the Letter of Intent (LOI)/System-Wide Improvement Framework (SWIF) to remain temporarily eligible for PL 84-99 assistance while the unacceptable operation and maintenance deficiencies are being corrected. See **Figure 1** on next page for typical PL 84-99 Rehabilitation process.

**Status of LOIs**

The Board serves as the non-federal sponsor for approximately 1,600 miles of federal levees. Currently, 979 miles (60.8%) are **active** in PL 84-99 with an approved LOI/SWIF. Of the remaining levees that are inactive in PL 84-99, 125 miles have submitted LOI's to the USACE for approval. If these LOI's are approved by USACE, the systems will regain PL 84-99 eligibility. The LOIs pending USACE review and approval are:

- RD 524 – Robert's Island
- Yolano - Cache RD 2068/2098
- Cache Creek – Yolo Bypass – Knights Landing
- RD 501 – Ryer Island
- RD1 – Union Island
- RD 551 – Pierson District
- Tyler Island – RD 563
- Egbert Tract – RD 536

**2023 Storms**

On June 16, 2023, USACE opened PL 84-99 Rehabilitation Assistance for levee systems that experienced damaged during the January to May 2023 storms. Requests for assistance were required to be submitted to USACE by July 16, 2023. Currently, this assistance only applies to levee systems in the Sacramento River Basin. However, USACE plans to open PL 84-99 Rehabilitation Assistance for the Delta and San Joaquin River Basins this month.

By June 19, 2023, Board staff notified local partners that PL 84-99 assistance was available for Sacramento River Basin levee systems. On July 16, 2023, staff submitted 76 sites for consideration for PL 84-99 Rehabilitation to USACE. Staff also received submittals from LMAs in San Joaquin Basin and those requests were sent to USACE and will be officially submitted when USACE opens rehabilitation for that basin. See **Attachment 1** for more details of the sites submitted to USACE.

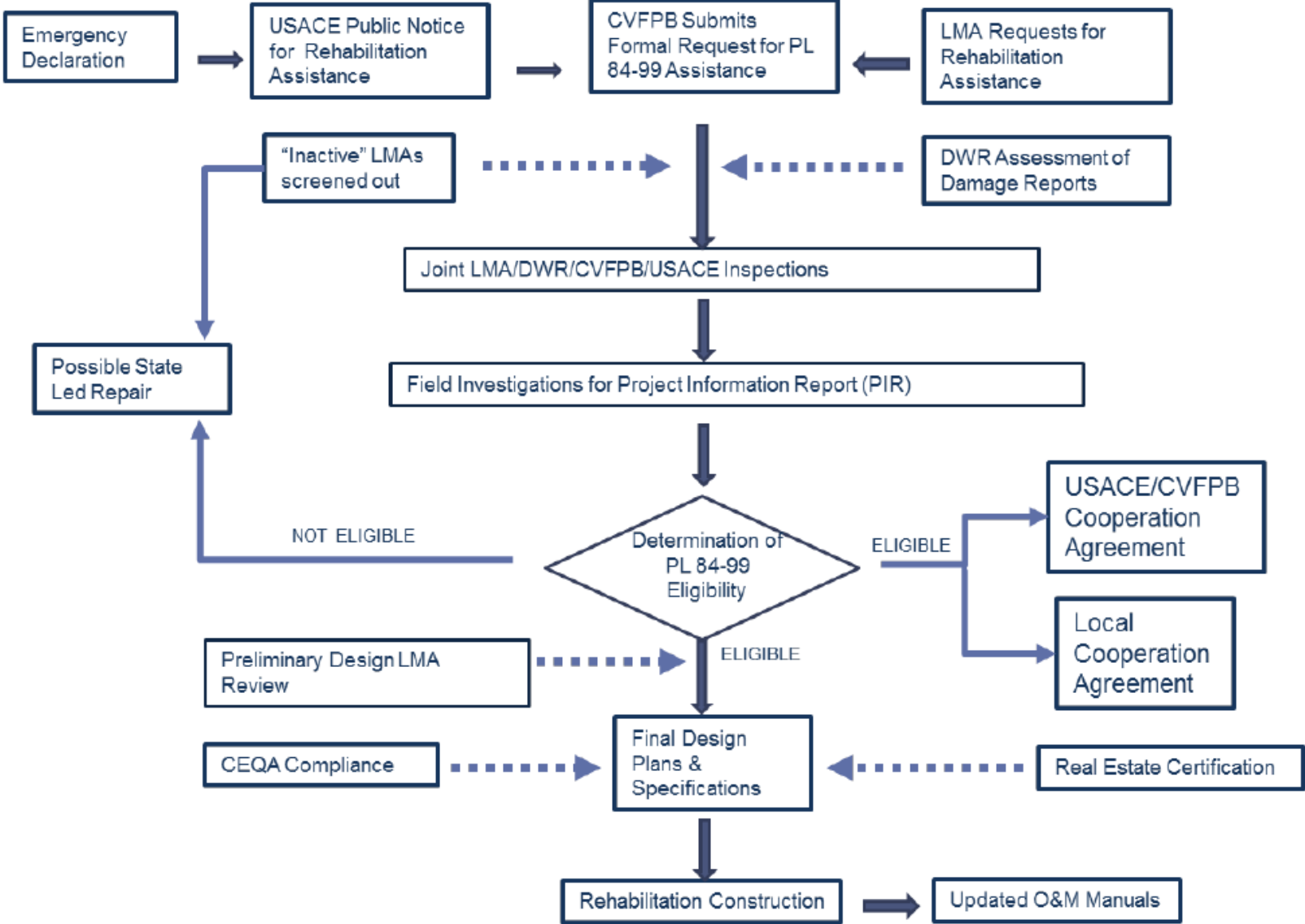


Figure 1. Flowchart of typical PL 84-99 Rehabilitation Process

2023 USACE PL 84-99 Rehabilitation Assistance Requests for Sacramento River Basin

Total No.	Per Site	LMA	Watercourse	Short Description	Date submitted to CVFPB	Date submitted to USACE	PL 84-99 Active? Y/N	Approved LOI/SWIF? Y/N	Lat / Long Start	Lat/Long End
1	1	RD 1000	Sacramento River	Fallen tree along the SREL. Exposed hole 5'wide, 4' deep.	3/1/2023	3/17/2023; 7/14/2023	Yes	Yes	38.663211, -121.609819	38.662958, -121.60955
2	2	RD 1000	Sacramento River	Fallen tree along the SREL. Exposed hole 5'wide, 4' deep.	3/1/2023	3/17/2023; 7/14/2023	Yes	Yes	38.604219, -121.510475	38.604394, -121.510267
3	3	RD 1000	Sacramento River	Fallen tree along the SREL. Exposed hole 5'wide, 4' deep.	3/1/2023	3/17/2023; 7/14/2023	Yes	Yes	38.66515, -121.61230	39.665069, -121.612422
4	4	RD 1000	Sacramento River	Fallen tree along the SREL. Exposed hole 5'wide, 4' deep.	3/1/2023	3/17/2023; 7/14/2023	Yes	Yes	39.723583, -121.603969	38.723325, -121.603861
5	1	RD 2035	Yolo Bypass	Wave wash damage, waterside	3/6/2023; 7/11/2023	3/17/2023; 7/14/2023	Yes	Yes	38.638717, -121.660214	38.638429, -121.660008
6	2	RD 2035	Yolo Bypass	Wave wash damage, waterside	3/6/2023; 7/11/2023	3/17/2023; 7/14/2023	Yes	Yes	38.636255, -121.658438	38.635101, -121.657555
7	3	RD 2035	Yolo Bypass	Wave wash damage, waterside	3/6/2023; 7/11/2023	3/17/2023; 7/14/2023	Yes	Yes	38.631178, -121.654644	38.629747, -121.653610
8	4	RD 2035	Yolo Bypass	Wave wash damage, waterside	3/6/2023; 7/11/2023	3/17/2023; 7/14/2023	Yes	Yes	38.629594, -121.653735	38.628618, -121.652782
9	5	RD 2035	Yolo Bypass	Wave wash damage, waterside	3/6/2023; 7/11/2023	3/17/2023; 7/14/2023	Yes	Yes	38.627667, -121.652038	38.626484, -121.651195
10	6	RD 2035	Yolo Bypass	Wave wash damage, waterside	3/6/2023; 7/11/2023	3/17/2023; 7/14/2023	Yes	Yes	38.626150, -121.650961	38.625405, -121.650397
11	7	RD 2035	Yolo Bypass	Wave wash damage, waterside	3/6/2023; 7/11/2023	3/17/2023; 7/14/2023	Yes	Yes	38.625120, -121.650226	38.624403, -121.649698
12	8	RD 2035	Yolo Bypass	Wave wash damage, waterside	3/6/2023; 7/11/2023	3/17/2023; 7/14/2023	Yes	Yes	38.624558, -121.649823	38.623558, -121.648992
13	9	RD 2035	Yolo Bypass	Wave wash damage, waterside	3/6/2023; 7/11/2023	3/17/2023; 7/14/2023	Yes	Yes	38.622485, -121.648246	38.622141, -121.648016
14	10	RD 2035	Sacramento River	erosion	7/14/2023	7/17/2023	Yes	Yes	38.676661, -121.630731	38.676162, -121.630389
15	1	City of Sac	Sac River	Pioneer Outfall. Erosion waterside, mid slope	3/6/2023; 7/5/2023	3/17/2023; 7/14/2023	Yes	Yes	38.5729, -121.51259	38.57234, -121.51332
16	2	City of Sac	Sac River	Sutterville Gunite area. Erosion, waterside toe.	3/6/2023; 7/5/2023	3/17/2023; 7/14/2023	Yes	Yes	38.5434, -121.51105	38.54121, -121.51193
17	3	City of Sac	Sac River	North of I St. Bridge. South of Gage, Erosion below floodwall	7/5/2023	7/14/2023	Yes	Yes	38.58645, -121.50553	n/a
18	4	City of Sac	Sac River	First crack in flood control sea wall RM 59.45 LM 0.56	7/11/2023	7/14/2023	Yes	Yes	38.582962, -121.506533	n/a
19	5	City of Sac	Sac River	Second crack in flood control sea wall RM 59.39 LM 0.60	7/11/2023	7/14/2023	Yes	Yes	38.58228, -121.50665	n/a
20	6	City of Sac	Sac River	Third crack in flood control sea wall RM 59.45 LM 0.58	7/11/2023	7/14/2023	Yes	Yes	38.582633, -121.506665	n/a
21	1	RD 108	Colusa Basin Drain	White Road, landside levee slip, 300 feet, with 12" cracks	3/7/2023; 7/10/2023	3/17/2023; 7/14/2023	Yes	Yes	38.967740, -121.924040	38.9672, -121.923320
22	2	RD 108	Colusa Basin Drain	Yolo County u/s, landside levee slip, 160 feet, with 13" cracks	3/7/2023; 7/10/2023	3/17/2023; 7/14/2023	Yes	Yes	38.8438, -121.868640	38.843740, -121.8681
23	3	RD 108	Colusa Basin Drain	Yolo County d/s, landside levee slip, 200 feet, raincoat	3/7/2023; 7/10/2023	3/17/2023; 7/14/2023	Yes	Yes	38.829660, -121.81731	38.82949, -121.81671
24	1	SRWSLD	Sacramento River	Underseepage and boils near toe, large boils, sandbag rings.	7/10/2023	7/14/2023	Yes	Yes	38.8655, -121.7577	38.8687, -121.7539
25	2	SRWSLD	Sacramento River	Waterside erosion extending 200 feet, erosion on waterside rd.	7/10/2023	7/14/2023	Yes	Yes	38.949855, -121.837412	n/a
26	3	SRWSLD	Sac River	Waterside erosion extending approximately 150 feet.	7/15/2023	7/17/2023	Yes	Yes	39.007717, -121.821258	n/a
27	4	SRWSLD	Sac River	Waterside erosion extending approximately 100 feet.	7/15/2023	7/17/2023	Yes	Yes	38.814583, -121.724237	n/a
28	5	SRWSLD	Sac River	Waterside erosion extending approximately 75 feet.	7/15/2023	7/17/2023	Yes	Yes	38.813545, -121.723862	n/a
29	1	DWR FMO	MA12 - Colusa Drain	Landside slip, 75 feet in length. Adjacent to irrigation ditch	3/7/2023; 7/12/2023	3/17/2023; 7/14/2023	Yes	Yes	39.09953, -122.015762	39.099329, -122.015706
30	2	DWR FMO	MA12 - Colusa Drain	Landside slip, 60 feet in length. Raincoat installed	3/7/2023; 7/12/2023	3/17/2023; 7/14/2023	Yes	Yes	39.126399, -122.022715	39.126187, -122.022714
31	3	DWR FMO	MA13 - Cherokee	Levee slip LM 22.75, 135 feet in length, 4 ft head scarp	3/7/2023; 7/12/2023	3/17/2023; 7/14/2023	Yes	Yes	39.357052, -121.877759	39.357048, -121.877753
32	4	DWR FMO	MA13 - Cherokee	Levee slip LM 10.6, slip encroaching into irrigation ditch	3/7/2023; 7/12/2023	3/17/2023; 7/14/2023	Yes	Yes	39.465688, -121.743157	39.465715, -121.743145
33	5	DWR FMO	MA3 - Feather River	Toe erosion at the ditch, 1700 feet in length	3/7/2023; 7/12/2023	3/17/2023; 7/14/2023	Yes	Yes	38.898077, -121.61726	38.900420, -121.61254
34	6	DWR FMO	MA3 - Feather River	2 sinkholes in the landside levee toe road	3/7/2023; 7/12/2023	3/17/2023; 7/14/2023	Yes	Yes	38.90082, -121.61191	38.90353, -121.60618
35	7	DWR FMO	MA3 - Feather River	3 erosion sites of the waterside toe road, Feather River	3/7/2023; 7/12/2023	3/17/2023; 7/14/2023	Yes	Yes	38.94227, -121.58752	38.94350, -121.58630
36	8	DWR FMO	Cache Ck	Waterside toe road, 150 feet long erosion section	3/7/2023; 7/12/2023	3/17/2023; 7/14/2023	Yes	Yes	38.722864, -121.760583	38.723347, -121.760470
37	9	DWR FMO	Sac Bypass, ST8	2,300 feet long, numerous erosion sites on the toe road	3/7/2023; 7/12/2023	3/17/2023; 7/14/2023	Yes	Yes	38.597327, -121.578250	38.595201, -121.586054
38	10	DWR FMO	Yolo Bypass, ST11	Slump 50 feet long and 15 feet high, waterside slope	3/7/2023; 7/12/2023	3/17/2023; 7/14/2023	Yes	Yes	38.564019, -121.637971	38.564019, -121.637971
39	1	Lake County	Middle Ck, Scotts Ck	Sloughing	3/10/2023	3/17/2023; 7/14/2023	No	No	39.18598, -122.90998	39.18526, -122.91087
40	2	Lake County	Middle Ck, Scotts Ck	Scour along diversion channel bank	3/10/2023	3/17/2023; 7/14/2023	No	No	39.17596, -122.90760	39.17597, -122.90896
41	3	Lake County	Middle Ck, Scotts Ck	Gate foundation failure	3/10/2023	3/17/2023; 7/14/2023	No	No	39.17642, -122.90267	n/a
42	4	Lake County	Middle Ck, Scotts Ck	Levee sloughing, gate foundation failure	3/10/2023	3/17/2023; 7/14/2023	No	No	39.17568, -122.90269	39.17572, -122.90420
43	5	Lake County	Middle Ck, Scotts Ck	Culvert headwall collapsed	3/10/2023	3/17/2023; 7/14/2023	No	No	39.15482, -122.91869	n/a
44	6	Lake County	Middle Ck, Scotts Ck	Compromised culvert at flap gate connection	3/10/2023	3/17/2023; 7/14/2023	No	No	39.17746, -122.89917	n/a
45	1	RD 1001	Bear River	Bank erosion along left bank Bear River	3/10/2023; 6/23/2023	3/17/2023; 7/14/2023	Yes	Yes	38.9643, -121.5448	n/a
46	2	RD 1001	Bear River	Bank erosion along left bank Bear River	3/10/2023; 6/23/2023	3/17/2023; 7/14/2023	Yes	Yes	38.9547, -121.5496	n/a
47	3	RD 1001	Bear River	Bank erosion along left bank Bear River	3/10/2023; 6/23/2023	3/17/2023; 7/14/2023	Yes	Yes	38.9521, -121.5529	n/a
48	1	RD 536 - MBK	Lindsey Slough	Waterside erosion, scouring 4-6 feet tall, erosion	3/10/2023	3/17/2023; 7/14/2023	No	No, LOI Pending USACE approval	38.245941, -121.707437	38.246024, -121.707245
49	1	RD 150 - MBK	Elk Slough	Vertical scarp at waterside levee toe	3/10/2023	3/17/2023; 7/14/2023	Yes, as of 6/30/23	Yes	38.337248, -121.581777	38.337164, -121.581806
50	2	RD 150 - MBK	Elk Slough	Erosion on waterside slope of levee	3/10/2023	3/17/2023; 7/14/2023	Yes, as of 6/30/23	Yes	38.355428, -121.562802	38.355732, -121.562390
51	3	RD 150 - MBK	Elk Slough	Cracking and sloughing on waterside hinge	3/10/2023	3/17/2023; 7/14/2023	Yes, as of 6/30/23	Yes	38.360450, -121.561635	38.360529, -121.561679
52	4	RD 150 - MBK	Elk Slough	Erosion scarp on lower waterside slope	3/10/2023	3/17/2023; 7/14/2023	Yes, as of 6/30/23	Yes	38.394450, -121.538626	38.394503, -121.538634
53	5	RD 150 - MBK	Elk Slough	Vertical slope tree fall at toe, lower waterside slope	3/10/2023	3/17/2023; 7/14/2023	Yes, as of 6/30/23	Yes	38.408567, -121.536684	38.408598, -121.536741
54	6	RD 150 - MBK	Elk Slough	Large root ball mass torn from levee, lower waterside slope	3/10/2023	3/17/2023; 7/14/2023	Yes, as of 6/30/23	Yes	38.409212, -121.532794	38.409264, -121.532732
55	7	RD 150 - MBK	Elk Slough	Erosion at waterside toe, top of erosion/sloughing w/s slope	3/10/2023	3/17/2023; 7/14/2023	Yes, as of 6/30/23	Yes	38.413156, -121.525742	38.413115, -121.525653
56	1	RD 3- MBK	Steamboat Slough	Erosion at waterside levee slope	3/10/2023	3/17/2023; 7/14/2023	Yes	Yes	38.298303, -121.580916	38.298135, -121.580973
57	2	RD 3- MBK	Steamboat Slough	Erosion at waterside levee slope	3/10/2023	3/17/2023; 7/14/2023	Yes	Yes	38.292084, -121.582818	38.289331, -121.582981

**2023 USACE PL 84-99 Rehabilitation Assistance Requests for Sacramento River Basin**

58	3	RD 3- MBK	Sacramento River	Erosion at waterside levee slope above existing riprap	3/10/2023	3/17/2023; 7/14/2023	Yes	Yes	38.224956, -121.556981	38.225240, -121.556959
59	4	RD 3- MBK	Sacramento River	Erosion at waterside levee slope above existing riprap	3/10/2023	3/17/2023; 7/14/2023	Yes	Yes	38.225399, -121.556943	38.227267, -121.556854
60	5	RD 3- MBK	Sacramento River	Erosion at waterside levee slope above existing riprap	3/10/2023	3/17/2023; 7/14/2023	Yes	Yes	38.227673, -121.556871	38.227916, -121.556875
61	6	RD 3- MBK	Sacramento River	Erosion at waterside levee slope above existing riprap	3/10/2023	3/17/2023; 7/14/2023	Yes	Yes	38.233036, -121.558977	38.233119, -121.559038
62	7	RD 3- MBK	Sacramento River	Erosion at waterside levee slope	3/10/2023	3/17/2023; 7/14/2023	Yes	Yes	38.241686, -121.545526	38.241663, -121.545415
63	8	RD 3- MBK	Sacramento River	Erosion at waterside levee slope above existing riprap	3/10/2023	3/17/2023; 7/14/2023	Yes	Yes	38.300289, -121.570351	38.300432, -121.570475
64	1	RD 1600 - MBK	Sacramento River	Numerous landside erosion, along with rills	3/10/2023	3/17/2023; 7/14/2023	Yes	Yes	38.778572, -121.607147	38.776128, -121.603415
65	2	RD 1600 - MBK	Yolo Bypass	140 feet long landside levee slope failure, 8 ft scarp, raincoat	3/10/2023	3/17/2023; 7/14/2023	Yes	Yes	38.714717, -121.6354	38.714317, -121.635492
66	1	LD1 - Sutter County	Feather River	sloughing at top of bank ditch, waterside, 2400 feet	3/16/2023; 7/13/2023	3/17/2023; 7/14/2023	Yes	Yes	39.020275, -121.611664	n/a
67	1	RD 900	Deep Water Channel	2 adjacent slipouts in this area near Jefferson Blvd	7/12/2023	7/14/2023	Yes	Yes	38.51314, 121.58204	38.51444, 121.58205
68	2	RD 900	Sacramento River	3 erosion sites near Harbor Blvd	7/12/2023	7/14/2023	Yes	Yes	38.60032, 121.55262	38.60032, 121.55262
69	1	RD 556	Georgiana Slough / Sac River	Lower waterside erosion scarp. 50 ft	7/12/2023	7/14/2023	No	No	38.237007, -121.517752	n/a
70	2	RD 556	Georgiana Slough / Sac River	Lower waterside erosion scarp. 30 ft	7/12/2023	7/14/2023	No	No	38.236625, -121.517697	n/a
71	3	RD 556	Georgiana Slough / Sac River	Lower waterside erosion scarp. 30 ft	7/12/2023	7/14/2023	No	No	38.209372, -121.540886	n/a
72	4	RD 556	Georgiana Slough / Sac River	Lower waterside erosion scarp. 20 ft	7/12/2023	7/14/2023	No	No	38.203975, -121.540978	n/a
73	5	RD 556	Georgiana Slough / Sac River	Lower waterside erosion scarp. 30 ft	7/12/2023	7/14/2023	No	No	38.193506, -121.551964	n/a
74	6	RD 556	Georgiana Slough / Sac River	Lower waterside erosion scarp.	7/12/2023	7/14/2023	No	No	38.218444, -121.556519	n/a
75	1	RD 554	Snodgrass Slough/Dead horse Cut	Boil on eastern side of RD 554, along Snodgrass Slough. Temp Repair	7/12/2023	7/14/2023	No	No	38.23830, -121.49883	38.23581, -121.49972
76	2	RD 554	Sac River/Delta Cross Canal	Waterside erosion scarping.	7/12/2023	7/14/2023	No	No	38.246348, -121.509991	38.244772, -121.511754

**2023 PL 84-99 Rehabilitation Assistance Request for San Joaquin River Basin (DRAFT)**

Total No.	Per Site	LMA	USACE Site ID	Watercourse	Short Description	Date submitted to CVFPB	Date submitted to USACE	PL 84-99 Active? Y/N	Approved LOI/SWIF? Y/N	Lat / Long Start	Lat/Long End
1	1	San Joaquin County FCD		Bear Creek	levee erosion damage, 25 linear feet, waterside	7/12/2023	7/14/2023	Yes	Yes	38.119435, -121.170921	n/a
2	2	San Joaquin County FCD		Bear Creek	levee erosion damage, 30 linear feet, waterside	7/12/2023	7/14/2023	Yes	Yes	38.118952, -121.17124	n/a
3	3	San Joaquin County FCD		Bear Creek	levee erosion damage, 74 linear feet, waterside	7/12/2023	7/14/2023	Yes	Yes	38.11898, -121.171223	n/a
4	4	San Joaquin County FCD		Bear Creek	levee erosion damage, 100 linear feet, waterside	7/12/2023	7/14/2023	Yes	Yes	38.118367, -121.171515	n/a
5	5	San Joaquin County FCD		Bear Creek	levee erosion damage, 200 linear feet, waterside	7/12/2023	7/14/2023	Yes	Yes	38.117906, -121.171645	n/a
6	6	San Joaquin County FCD		Bear Creek	levee erosion damage, 42 linear feet, waterside	7/12/2023	7/14/2023	Yes	Yes	38.117504, -121.171771	n/a
7	7	San Joaquin County FCD		Bear Creek	levee erosion damage, 36 linear feet, waterside	7/12/2023	7/14/2023	Yes	Yes	38.117224, -121.171876	n/a
8	8	San Joaquin County FCD		Calaveras River	bench erosion damage, 100 linear feet, waterside	7/12/2023	7/14/2023	Yes	Yes	37.984247, -121.309494	n/a
9	9	San Joaquin County FCD		Mormon Slough - Unit 15	bank erosion, slippage/slumping & collapse, waterside	7/12/2023	7/14/2023	Yes	Yes	38.044922, -121.024575	37.998811, -121.077403
10	10	San Joaquin County FCD		Mormon Slough - Channel	bank erosion, slippage/slumping & collapse, waterside	7/12/2023	7/14/2023	Yes	Yes	38.044922, -121.024575	37.965026, -121.139158
11	11	San Joaquin County FCD		Little John Creek - Unit 1	overtopping damage to patrol road	7/12/2023	7/14/2023	Yes	Active without LOI	37.878616, -121.242255	same as start
12	12	San Joaquin County FCD		Little John Creek - Unit 1	overtopping damage to patrol road	7/12/2023	7/14/2023	Yes	Active without LOI	37.873675, -121.2297138	same as start
13	13	San Joaquin County FCD		Little John Creek - Unit 1	overtopping damage to patrol road	7/12/2023	7/14/2023	Yes	Active without LOI	37.8736944, -121.2293916	same as start
14	1	Lower San Joaquin Levee District		Eastside Bypass	Wave wash damage, waterside	7/5/2023	7/14/2023	Yes, as of 6/30/23	Yes, LOI - Ash Slough	37.128014, -120.585468	n/a