

**MEMORANDUM**

November 15, 2023

**TO:** Reclamation District No. 756

**FROM:** Nathan Hershey, Mike Kynett

**SUBJECT:** **November 2023 Engineer's Report**

Described below are the engineering items to be discussed at your November 15, 2023 meeting.

**Subventions 2022-23** – The District submitted an application for participation in the Program in the amount of \$631,000. A total of \$12.5 million has been approved by the Central Valley Flood Protection Board for the Program for FY 2022-23. A final claim was submitted in the amount of \$427,567.65.

**Subventions 2023-24** – The District submitted an application for participation in the Program in the amount of \$631,000. A total of \$13 million has been approved by the Central Valley Flood Protection Board for the Program for FY 2023-24.

**Future Subventions Funding** – DWR has indicated that funding has not been secured yet for fiscal years 2024-25 and beyond. Delta advocates, including the California Central Valley Flood Control Association and others, are considering ways to increase awareness and gain support for securing funding for this highly successful and vital program. We have prepared a draft funding request letter for the RD to consider and possibly submit to state legislators.

**Annual Maintenance** – Attached are the current maintenance items we are tracking.

**FEMA** – MBK continues to coordinate with FEMA and is in the process of compiling documentation supporting the claim. Once all documentation has been provided, FEMA will submit the project to their management for review.

**Special Projects** – Construction of the Directed Action project to rehabilitate the north levee (BO-19-1-SP) is nearly complete. The contractor is replacing the remaining siphons and construction is scheduled to be complete by the end of November.

The first phase of work on the levee setback project (BO-17-1-SP) near the Camp 5 pump station (west levee) is nearly complete. Fill placement is complete and the site is being winterized. Additional fill will be placed in select areas next year.

A full application was submitted to DWR for the Projects Solicitation Package (PSP) for multi-benefit projects. The proposed project was selected for funding by DWR management. Funding will be provided up to \$900,000 for planning, permitting and design at a State cost share of 90%.

**SB 88** – All Phase 4 meters have been installed and certified by MBK Engineers. Data is currently being collected at 37 sites across all four islands. MBK will continue to monitor all sites weekly via Wildeye's

website. All Wildeye units are currently in working order with the exception of Bouldin Island Siphon No. 30 (as previously described, will be reinstalled when Phase 5 installations occur at nearby siphons).

MWD has finalized the purchase of Phase 5 equipment (remaining 51 sites) from TechnoFlo and is awaiting delivery. The Wildeye purchase order has been completed and Wildeye will maintain stock of the ordered supplies and bring the equipment as installations occur. MBK contacted Wildeye regarding a reduced annual subscription fee due to the number of units, to which Wildeye was agreeable. MBK and MWD will continue to coordinate with Wildeye on this topic. MWD is preparing a bid package and will soon be requesting bids for meter installations.

MWD and the RDs water rights are in measurement compliance through calendar year 2024 under an approved extension of time. MBK prepared and submitted an updated Request for extensions of time for each island for compliance through December 31, 2025 and is awaiting approval by the Delta Watermaster.

Annual water right reports for Water Year 2023 are due by February 1, 2024. MBK is compiling the data for these reports and will be preparing draft reports in coordination with MWD for submittal ahead of this deadline. The method utilized by the Delta-wide ACP to use OpenET for measuring and reporting diversions will continue to be used when meter data isn't available for the 2023 annual reports. Bacon Island Siphon 32 has been assigned Statement Number 28936 and will be added to this year's annual reporting list (the Initial Statement was filed in March 2023).

MBK and MWD continue to participate in the Delta Consortium; the next meeting has not yet been scheduled but is anticipated mid-December.

## RD 756 - Bouldin Island

Issue Tracking Summary

November 11, 2023

Issue ID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
041	Medium	March 28, 2017 4:00 PM	Ralph Heringer	Station 544-549	Crack	Cracking in LS Slope; seepage and cattails at toe	Monitor	Monitor and discuss repair; 10/23/17 Levee crown trenched; no encroachments located, Area to be graded and prepared for flood season; will proceed under Special Projects upon receipt of PFA. 12/4/17 - grading complete
41.1		April 23, 2020 11:00 PM	Nate Hershey					Reviewed the site area. Area appears to be moving again - not as dramatic as in 2017, but it appears to be along the same fault lines. Seepage observed exiting the surface. Recommend performing an updated survey and developing an action plan.
41.2		March 10, 2023 12:00 AM	Andrew Petrini					Visual observation suggests recent movement may have occurred. AECOM reports no significant movement detected by instrumentation at this time.
053	Medium	August 10, 2017 11:00 PM	Nate Hershey	Station 324	Seepage	Seepage at toe of 3 to 1 slope	Monitor	Monitor
054	Medium	August 10, 2017 11:00 PM	Nate Hershey	Station 336	Seepage		Monitor	Monitor; The hole is shallow at about 1-2 inches deep.
074	Low	January 5, 2019 4:54 PM	Russ Ryan	Land side within 150 foot Levee footprint. See attached photos. Low wet areas.	Sinkhole, Other	Bouldin Island - West stretch length adjacent to Mokelumne River. See attached photos for exact location.	Investigate	See notes above.
088	Low	June 7, 2019 12:55 PM	Dave Forkel	Sta 382+00	Seepage	Seepage on side of levee.	Investigate	
094	Low	September 27, 2019 5:02 PM	Brian Janowiak	Lower toe	Other	Area along lower toe near seepage ditch by Florida tip appears to have settled.	Monitor	
096	Medium	April 21, 2020 11:00 PM	Russ Ryan	Between 630 and 640	Seepage	Appears to be seepage	Investigate	

107	Medium	December 17, 2020 1:05 PM	Russ Ryan	Station 630	Seepage	Just inside levee footprint on land side of toe drain there water ponding. Was there prior to any rain this season during dry period.	Monitor	See photos taken on site.
108	Medium	July 7, 2021 11:00 PM	Russ Ryan	Station 90	Crack	Cracking observed on landside slope. Unclear if this is a result of the earthquake event.	Monitor	
109	Medium	July 7, 2021 11:00 PM	Russ Ryan	Station 226	Sloughing	Potential landside settlement on toe berm. Unclear if this is earthquake related.	Monitor	
110	Medium	July 7, 2021 11:00 PM	Russ Ryan	Station 503	Sloughing	Landside disturbance. Unclear if earthquake related or due to sheep activity.	Monitor	
116	Medium	February 21, 2022 2:23 PM	Russ Ryan	West levee north of camp 5 at pilot project instrumentation area.	Seepage	Noticeable standing water at toe of levee at the same 2017 slippage event.	Investigate	Need Geotech investigation and assessments.
117	Low	February 23, 2022 11:10 AM	Russ Ryan	Location is landside off west levee (Bouldin Island) and south of Hwy 12	Seepage	Landside water ponding presenting at toe of levee.	Investigate	Roughly an estimated 30 feet by 10 feet. Dimensions need to be verified in field investigation.
121	Medium	October 13, 2022 11:00 PM	Nate Hershey	Station 33	Seepage	Seepage observed periodically on toe of levee. Seems to come and go, sometimes difficult to tell if it is seepage or ponding water. Observations suggest it is likely seepage that periodically appears during times of high water.	Investigate	
123	High	January 4, 2023 12:00 AM	AndrewReece	Station 498	Erosion	Waterside slope eroding in several locations.	Repair	
124	Medium	January 4, 2023 12:00 AM	AndrewReece	Station 555	Erosion	Eroded slope	Repair	
126	Medium	February 17, 2023 11:12 AM	Dave Forkel	Camp 29 Pump Station	Erosion	Washout behind sump sheet piling	Repair	
143	Medium	August 8, 2023 12:58 PM	Other	Approximately station 490 to 510	Sloughing	The attached photos are from a boat on the water side. Unsure if RD is already working on this area.	Investigate	
144	Medium	October 18, 2023 12:27 PM	Other	East levee. See point, near Caution marker in water.	Sloughing	Sloughing, appears old. Likely not from earthquake.	Monitor	
145	Medium	October 18, 2023 12:31 PM	Other	See point.	Sloughing	Minor sloughing. Potentially from seismic event	Investigate	
146	Medium	October 19, 2023 9:09 AM	Other	Between station 490 and 500	Sloughing	Sloughing near area where 99' repairs were conducted previously.	Monitor	