MBK ENGINEERS

Water Resources • Flood Control • Water Rights

MEMORANDUM

January 29, 2025

TO: Reclamation District No. 2028

FROM: Nathan Hershey, Brian Janowiak

SUBJECT: **January 2025 Engineer's Report**

Described below are the engineering items to be discussed at your January 29, 2025 meeting.

Subventions 2023-24 – The District submitted an application for participation in the Program in the amount of $541,000. A total of $14 million has been approved by the Central Valley Flood Protection Board for the Program for FY 2023-24. A final claim was submitted in the amount of $317,590.36.

Subventions 2024-25 – The District submitted an application for participation in the Program in the amount of $541,000. A total of $14 million has been approved by the Central Valley Flood Protection Board for the Program for FY 2024-25.

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

Emergency Response Grant (Round 3) – San Joaquin County transmitted a memo to reclamation districts regarding grant funds that are available to update the District's emergency operations plan and flood contingency map. Up to $15,000 per district is available. We are in the process of updating the plan documents. The deadline for completion is April 30, 2025.

FEMA – The District's claim is currently under review at FEMA. MBK will continue to check in with FEMA personnel regarding status updates. The total claim amount is $52,398.36.

Special Projects – The enhancement component of the Old River multi-benefit levee rehabilitation project (BN-15-1-SP) is complete. The maintenance period has expired and the final inspection with CDFW and DWR has been performed. We are preparing the project completion report and closing out the funding agreement.

Work under BN-19-1-SP is in progress. Teichert has completed all work outside of the county road area. This work is scheduled to begin in May and be complete by the end of June.

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 working with the exception of (1) Bouldin Island Siphon No. 30 and (2) Bouldin Island Siphon No. 24. Bouldin Island Siphon No. 30 was damaged by driftwood (equipment will be reinstalled when Phase 5 installations occur at nearby siphons). The data collected at Bouldin Island Siphon No. 24 is not being recorded correctly in Wildeye, which we believe is due to a configuration issue. MBK will reach out to Wildeye to try to resolve the issue. All meters are currently working, with the exception of (1) Bouldin Island Siphon No. 2, (2) Bouldin Island Siphon No. 26, and (3) Bacon Island Siphon No. 25. MBK worked with Technoflo to acquire a quote for a 14-inch conversion kit for Bouldin

Island Siphon No. 26. MWD has reviewed the quote and requested that MBK make the purchase. MBK is currently reviewing the other meters before submitting the order in the event additional equipment is required.

Phase 5 flowmeter installations have begun on Bouldin Island with 6 flowmeters currently installed. Installations on Webb Tract will begin following the completion of Bouldin Island. A separate request for proposals will be opened at a later date for Bacon Island and Holland Tract. The Phase 5 Wildeye telemetry equipment has been purchased and will be delivered at the time of installation, following flowmeter installations at each site.

MBK has provided MWD staff with a draft summary technical report on the 2023 OpenET and measured diversion comparison for review and is developing a similar comparison for 2024.

MBK has prepared Water Year 2024 annual reports, which are currently under review by MWD staff. MWD staff will submit the 2024 annual reports prior to the February 1, 2025 deadline.

RD 2028 – Bacon Island

Issue Tracking Summary

January 24, 2025

Issue ID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
006	Medium	October 20, 2016 4:00 PM	RalphHeringer	Station 275 @ Pump Station	Broken Equipment	Trash racks in need of maintenance/repair	Investigate	TBD
036	Low	February 23, 2017 4:00 PM	Nate Hershey	Station 712	Seepage	Seepage exiting at toe of slope near retaining wall structure.	Monitor	12/4/17 - Area dried up after winter; continue to monitor
043	Medium	April 3, 2017 4:00 PM	Brian Janowiak	Station 92-93	Seepage	Seepage existing at toe of slope, running across county road		
073	Medium	October 20, 2016 4:00 PM	RalphHeringer	Station 465 @ Pump Station	Broken Equipment	Trash racks in need of maintenance/repair	Investigate	TBD
102	Medium	May 5, 2021 10:13 AM	Dave Forkel	Sta 107+19	Erosion	Erosion at toe of levee at siphon discharge.	Repair	Dino and Son to fill erosion site
103	Medium	May 5, 2021 10:22 AM	Dave Forkel	Sta 175+15	Erosion	Erosion at toe of levee at siphon discharge.	Repair	Dino and Son to fill erosion site
106	Medium	November 4, 2021 3:43 PM	Dave Forkel	Sta 170+00	Seepage	Seepage at toe of levee.	Monitor	
108	Medium	January 10, 2023 9:33 AM	MichaelNishimura	13+50 waterside hinge on road	Sinkhole, Other	6” diameter sink hole on ws road hinge. Probed for 5’ deep going towards the water. Identical size hole on landside road hinge just across crown, probed about 2.5’ into levee crest. The landside has multiple animal burrows 7” to 1’ diameter in size. Probed 5’ feet into levee towards levee center. Ground is very soft on landside slope and steep. Approximately 1.5:1 to 2:1 slope. There is a bulge at the lower landside toe. It appears either a low spot is ponding or potential seepage is occurring on the landside toe for approximately 150’ adjacent to rodent activity and sinkholes.	Repair	
109	Medium	January 10, 2023 10:02 AM	MichaelNishimura	13+50 landside toe	Seepage	Potential sheet flow Seepage at landside toe. Adjective to levee with several large rodent holes. Approximately 150-200’ total site length.	Monitor	

111	Medium	January 10, 2023 10:42 AM	MichaelNishimura	98+90 to	Erosion, Sloughing	Sloughing of ws slope. In the adjacent areas the slope is steep as well and it starts right at the water side hinge. This sloughing is occurring in a thick patch of ws slope and is still approximately in the same condition as it's adjacent slopes. Grading could help further damage from surface runoff.	Monitor	
113	Medium	January 10, 2023 11:10 AM	MichaelNishimura	203+50 to 204+25 waterside slope	Erosion, Sloughing	Erosion and sloughing 75' on waterside slope. Scarping mid slope. Likely caused by oversteepened slope and surface run off.	Monitor	
119	Low	May 31, 2023 5:38 PM	Dave Forkel	Sta 756+00	Crack	Mel reported crack and sloughing of riprap just south of bridge.	Monitor	Not much obvious sloughing.
120	High	February 15, 2024 11:00 AM	Dave Forkel	Sta 733+00	Boil	Boil in toe ditch	Investigate	
120.1		February 22, 2024 12:00 AM	Nate Hershey					Investigations indicate the water is coming from the field side. A trench was excavated in the field, and the direction of flow was coming from the field (flowing west to east). Recommend sandbagging around the boil to manage the pressure. When conditions permit, next steps are to excavate an exploratory trench east of the toe ditch to see if there is flow is coming through the levee. If so, an exploratory trench in the levee crown is recommended.
121	Medium	January 2, 2025 1:25 PM	Meaghan Radican	Between bridge and Hollywood area	Crack, Erosion	Cracking along levee slope	Repair	
122	Low	January 2, 2025 12:58 PM	Meaghan Radican	Hollywood area	Erosion	Erosion on WS slope just before Hollywood area	Repair	