

MEMORANDUM

September 22, 2021

TO: Reclamation District No. 2026

FROM: Nathan Hershey

SUBJECT: September 2021 Engineer's Report

Described below are the engineering items to be discussed at your September 22, 2021 meeting.

Subventions 2019-20 – The District submitted an application for participation in the Program in the amount of \$500,000. DWR has lowered the Program funding amount to \$10 million for FY 2019-20. The District submitted a claim in the amount of \$128,134.02 for the fiscal year and received reimbursement in the amount of \$85,714.

Subventions 2020-21 – The District submitted an application for participation in the Program in the amount of \$2,395,000. \$12 million has been approved for Program funding for FY 2020-21. We are working on compiling the District's claim. Final claims must be submitted by November 1.

Subventions 2021-22 – The District submitted an application for participation in the Program in the amount of \$665,000. \$10 million has been approved for the Program for FY 2021-22.

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

Five Year Plan – Work on the Five-Year Plan is currently in progress. A draft of the plan has been distributed via email and we have addressed the comments received to date. We have also addressed DWR's comments. DWR has extended the expiration date of the funding agreements to December 31, 2021.

Emergency Drought Barrier – Due to extreme drought conditions, the State has opted to install the emergency drought barrier in False River to protect water quality in the central Delta, similar to what occurred in 2015. DWR has informed us their preference is to keep most of the False River Barrier in place for the winter due to the drought. They are exploring the feasibility of cutting a notch 200 feet wide with a minimum depth of 10 feet. They will be seeking amendments to the project's permits with both the regulatory agencies and the RDs/landowners involved. Modeling will be performed to address potential flood issues, etc. Additional information will likely be provided soon.

SB 88 – Work under Phase 3 of the measurement experiment has been completed. Phase 3 efforts primarily involved installing 8 additional flange magnetic meters on the water side of the highest use siphons, with at least one flow meter on each island. The installation of telemetry equipment at each of these sites is also complete. MBK has visited the sites and certified that the installed flow meters have all been installed to manufacturer's specifications. MBK is still in the process of conducting comparison tests with the portable flow meter at these new sites.

MBK has been conducting regular visits to the sites as well as monitoring the collected data online. During one of these site visits it was discovered that the flow meter at Bacon Island Siphon No. 24 was generating

questionable flow meter readings. To complete the troubleshooting, the gate valve at the discharge of the siphon needs to be fixed to prevent leaking when fully shut to allow MBK to reprogram the flow meter. MBK also noticed that the meters on Bouldin Island Siphon 39 and 40 appeared to be experiencing electrical interference. To address this issue, grounding rods need to be installed for each meter.

MWD and the RDs are in compliance for calendar year 2021 under an approved extension of time. Current direction by MWD was to proceed with strict compliance. Therefore, MBK has provided cost estimates for flange magnetic meters with telemetry equipment installed on the water side of all active siphons. Since strict compliance will not be obtained by the end of the year, MBK is coordinating with the Delta Watermaster to develop a Plan for Compliance. This Plan will provide details regarding the methods to estimate diversions on siphons without flow meters and provide a measurement equipment installation schedule.

Development of the Delta-wide ACP by the Delta Measurement Experiment Consortium to utilize Open ET for measuring and reporting diversions continues. RD staff are currently in the process of creating place of use polygons for each of the islands. MBK and MWD continue to participate in the Consortium. The next Consortium meeting has not yet been scheduled.

Reclamation District No. 2026 Webb Tract
Issue Tracking Summary
9/20/2021

IssueID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
3	Medium	10/4/2016	Jaime Barajas	Station 614	Broken Equipment	Pump station platform pile appears to have buckled.	Repair	Dino to investigate and repair; Schedule TBD. See photos.
19	Medium	2/1/2017	Jaime Barajas	Station 614	Boil	Boil located near pump station	Investigate	Jaime to monitor. On 3/22/17 District forces coretrenched levee and found no cause for seepage.
50	Low	7/21/2017	Russ Ryan	Station 180	Crack	Possible small crack between WS crown and AB splash berm	Monitor	
61	Medium	1/19/2018	Ralph Heringer	Station 164+60 False River Pump	Seepage	Seepage under discharge pipes. Ongoing problem.	Monitor	Investigate problem; This has been a long-term issue. 6/9/18 Photos received from Jaime; MBK investigating options for remediation
61.1		6/10/2019	Nate Hershey			Seepage berm construction complete. RD forces placed 6,026 cy of material. Continue to monitor.		
69	Medium	7/10/2018	Andrew Reece	Station 408	Sloughing	Approx. 200ft of rip rap sloughing	Monitor	
105	Medium	12/10/2020	Dave Forkel	Sta 378+00	Crack		Monitor	