

MEMORANDUM

September 16, 2020

TO: Reclamation District No. 2026

FROM: Nathan Hershey

SUBJECT: September 2020 Engineer's Report

Described below are the engineering items to be discussed at your September 16, 2020 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. We are working on compiling the District's claim. Final claims are due November 1.

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.

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 sent a draft to DWR for comment. The Plan is scheduled to be complete by the end of 2020.

SB 88 – Work under Phase 3 of the measurement experiment (Feb 2020 through Feb 2021) is underway, as outlined in the approved Request for Additional Time. Phase 3 efforts primarily involve installing 8 additional flange magnetic meters on the water side of the highest use siphons, with at least one flow meter on each island. MWD has obtained funding approvals for Phase 3, however is currently investigating flow meter issues prior to approving the new equipment quotes and setting up a bid process for installation. After the invoices are submitted, there is up to a 6-week lead time for new equipment to be delivered. MBK conducted site visits to both Bacon and Bouldin Islands in July to check existing meters and conduct portable meter tests on running siphons. Observations at Bouldin Island Siphon No. 24 showed issues with the McCrometer flange magnetic meter (Ultra Mag), which was not identifying flow through the pipe at the time of the visit, despite the siphon running and obtaining portable meter flow measurements near the flange magnetic meter location. This issue was unable to be resolved in the field. We have confirmed that the pipe is full at the meter location by using the FLEXIM portable meters upstream and downstream of the flow meter. Additional suggestions from McCrometer did not produce any resolution to the issue. In August, the unit was sent to McCrometer. The technical support staff identified that water intrusion into the unit caused an issue with the internal circuit boards and this condition is not covered under warranty. Due to this issue, the purchase of new equipment (which includes 4 Ultra Mags) is temporarily on hold until methods to prevent this issue from occurring with other Ultra Mag meters in the future is determined.

The next Delta Measurement Experiment Consortium meeting is scheduled for Thursday, October 15. MBK and MWD will continue to participate in the Consortium and provide feedback on the draft work plan and future development of the ACP.

Reclamation District No. 2026 Webb Tract

Issue Tracking Summary

9/11/2020

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	