

MEMORANDUM

April 10, 2019

TO: Reclamation District No. 2025

FROM: Nathan Hershey

SUBJECT: **April 2019 Engineer's Report**

Described below are the engineering items to be discussed at your April 10, 2019 meeting.

Subventions 2017-18 – The District submitted an application for participation in the Program in the amount of \$605,000. \$14.5 million has been approved for Program funding for FY 2017-18. The District's final claim has been submitted in the amount of \$105,064.66.

Subventions 2018-19 – The District submitted an application for participation in the Program in the amount of \$645,000. \$12 million has been approved for Program funding for FY 2017-18, consistent with recent previous years.

Subventions 2019-20 – Applications for participation in the Program were due April 1. The District submitted an application in the amount of \$845,000.

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

Five Year Plan – We have received a fully executed funding agreement for the Five-Year Plan (FYP). We have started work on the Plan update and have requested an advance of funds.

DWR Emergency Response Grant Update – Contra Costa County's consultant, Michael Baker International (MB), submitted a draft of the Local Flood Safety Plan for review and comment. We have reviewed the Plan and have provided MB with comments. MB is working with the County, continuing to progress the plans for each RD. We will keep you posted as we receive additional updates.

SB 88 – Work under Phase 2 of the measurement experiment (work plan for 2019) is progressing and coordination with the Delta Measurement Experimentation Consortium continues.

Siphon logs for calendar year 2018 have been summarized and will be used for water right reporting calculations. 2019 siphon logs have been received for the month of February and collection of March logs is in process. A site visit to Webb Tract was conducted to continue portable meter testing of siphon maximum capacity and flow at a typical operation level, which will be used to adjust water right reporting calculations. A site visit to Holland Tract for portable meter testing has also been scheduled.

Six of the nine existing test sites appear to be functioning properly and collecting data. Three of the existing test sites require troubleshooting and/or maintenance efforts to regain equipment function and data collection. Two of the three sites need extensive equipment replacement due to vandalism. The third site requires additional programming of the flow meter and data logger, which will be conducted during the next visit to the site. In addition, water level and pressure sensor equipment at three sites require troubleshooting

and/or maintenance. MBK is currently discussing with the manufacturers possible solutions at all sites. Cost estimates have been prepared to replace all of the vandalized equipment at Siphon Nos. 39 and 40 on Bouldin Island, correct damage to solar panel installations due to wind, and to purchase new equipment for testing at three additional siphons as part of Phase 2. The purchase order to replace equipment on Siphon No. 39 was placed earlier this month and the purchase order for equipment at Siphon No. 40 is anticipated to be placed soon.

MWD provided an update to the Consortium at its March meeting, focused on the equipment vandalism/damage and its plan for 2019.

Reclamation District No. 2025 Holland Tract

Issue Tracking Summary

4/5/2019

IssueID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
2	Medium	9/13/2016	Russ Ryan	Station 185	Crack	Crack in splash cap near leak	Monitor	Monitor; See photos
7	Medium	10/31/2016	Contra Costa County	Station 519-550	Crack	Pavement cracking on levee crown roadway; sloughing on landside hinge	Repair	NH and DF to schedule site visit and develop plan; Proposal received from Hultgren-Tillis; field work complete; geotechnical report finalized and issued
22	Low	2/10/2017	Nate Hershey	Station 545+80	Boil	Boil in landside slope	Monitor	Directed Asta to build a containment berm; Berm constructed; continue to monitor. 2/13/17 No flow coming through levee, relatively dry
25	Medium	2/13/2017	Nate Hershey	Station 105	Erosion	Erosion site	Repair	Repair; Monitor and repair when feasible
28	Low	2/18/2017	Russ Ryan	Station 315+75	Rodent Activity	Rodent Activity	Repair	Repair; Monitor and repair when feasible
40	Low	3/22/2017	Dave Forkel	Station 465	Encroachment	Abandoned 8" siphon	Repair	Investigate and remove
60	Medium	1/18/2018	Brian Janowiak	Station 414-417	Other	Rodent activity	Monitor	Minor squirrel activity, mostly on upper LS slope. One larger void in levee crest (Sta 417) may need to be excavated.