

**MEMORANDUM**

March 16, 2022

**TO:** Reclamation District No. 2028

**FROM:** Nathan Hershey

**SUBJECT:** **March 2022 Engineer's Report**

Described below are the engineering items to be discussed at your March 16, 2022 meeting.

**Subventions 2020-21** – The District submitted an application for participation in the Program in the amount of \$615,000. \$12 million has been approved for Program funding for FY 2020-21. A final claim in the amount of \$301,108.19 was submitted.

**Subventions 2021-22** – The District submitted an application for participation in the Program in the amount of \$541,000. \$10 million has been approved for the Program for FY 2021-22.

**Subventions 2022-23** – Applications for the Program are due April 1. Subject to Board approval, our intent is to submit an application similar to the submittal for the prior fiscal year.

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

**Flood Fight Supplies** – The District received reimbursement for the flood fight supplies recently purchased.

**Special Projects** – The enhancement component of the Old River multi-benefit levee rehabilitation project (BN-15-1-SP) is in-progress. Maintenance activities will be on-going to promote plant health and longevity.

The District received an advance of funds for design of the Directed Action project to rehabilitate the north and south levees (BN-19-1-SP). We have submitted the draft Scope of Work to DWR for approval which includes draft environmental documents and 90% plans. The next step is to circulate the environmental documents for public review and comment. Our recommendation is to circulate the public draft and post the document to the State clearinghouse.

**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 incorporated the comments received to date. We have also sent a draft to DWR staff for review and comment. DWR has extended the expiration date of the funding agreements to December 31, 2022. At DWR's request, we submitted the anticipated total cost of improvements for their planning purposes.

**SB 88** – Work under Phase 3 of the measurement experiment has been completed. MBK has visited the sites and certified that the installed flow meters have all been installed to manufacturer's specifications.

Work under Phase 4 of the measurement experiment is expected to begin in the near future. MWD purchased 25 flow meters along with telemetry units to be installed on all four islands. The flow meters, flanges, bolts, and job boxes were delivered by Technoflo during January to a secure site on Bacon Island. MWD has

scheduled the pre-bid walkthrough with the potential contractors for March 15th. After this walkthrough and the bids from the contractors are submitted, MWD will select one of the bids and installations will begin shortly thereafter. The installations are estimated to be completed before the end of 2022. MBK has conducted visits to the proposed sites to identify work that needs to be completed prior to installing the flow meters. MBK will work with MWD and the selected contractor to complete these preparations.

After reviewing the notes and photos from MBK's visits to the Phase 4 sites, 4 siphons were identified as potentially having asbestos or had a tar coating on the pipe exterior. MWD contracted with W.C. Maloney to remove the hazardous materials in the area where the flow meter would be installed. MBK inspected the sites afterward to verify the hazardous materials were removed from the correct siphons in the location where the meter would be installed.

MWD and the RDs are in compliance for calendar year 2022 under an approved extension of time. The extension was approved by the Delta Watermaster on January 13th, 2022 and will expire on January 1st, 2024. The extension of time included a Plan for Compliance which provides details regarding the methods to estimate diversions on siphons without flow meters and provides a measurement equipment installation schedule. MWD currently anticipates that installing all the flow meters will take five years. Therefore, MBK has provided cost estimates for flange magnetic meters with telemetry equipment installed on the water side of all active siphons.

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.

# Reclamation District No. 2028 Bacon Island

## Issue Tracking Summary

3/12/2022

IssueID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
6	Medium	10/21/2016	Ralph Heringer	Station 275 @ Pump Station	Broken Equipment	Trash racks in need of maintenance/repair	Investigate	TBD
36	Low	2/24/2017	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
43	Medium	4/4/2017	Brian Janowiak	Station 92-93	Seepage	Seepage existing at toe of slope, running across county road		
73	Medium	10/21/2016	Ralph Heringer	Station 465 @ Pump Station	Broken Equipment	Trash racks in need of maintenance/repair	Investigate	TBD
84	Medium	4/4/2019	RussRyan	95+00	Boil	Lower tide now and I think the roadway pothole (boil ??) needs repair at some point. I know it's a county road. We'll have to figure since once the (what I'm assuming) is a leak of repaired then the road will need to also be repaired.	Repair	
95	Medium	12/12/2019	AndyReece	siphon north of Mel's	RodentActivity	possible beaver den under tree south of siphon	Investigate	
100	Medium	9/17/2020	NateHershey	Station 102	Sloughing	Waterside slope is sloughing. Starting to encroach into the county road.	Repair	
101	Medium	9/17/2020	NateHershey	Station 704	Erosion	Field verified erosion site detected by drone footage. Site is approximately 100 feet long, adjacent to willows and vegetation is covering steep slopes.	Repair	

**Reclamation District No. 2028 Bacon Island****Issue Tracking Summary**

3/12/2022

IssueID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
101.1	Medium	1/8/2021	NateHershey	Station 704	Erosion	Site is in future Special Projects work area. Recommend monitoring and repairing during levee rehabilitation project.		
102	Medium	5/5/2021	DaveForkel	Sta 107+19	Erosion	Erosion at toe of levee at siphon discharge.	Repair	Dino and Son to fill erosion site
103	Medium	5/5/2021	DaveForkel	Sta 175+15	Erosion	Erosion at toe of levee at siphon discharge.	Repair	Dino and Son to fill erosion site
104	Low	5/5/2021	DaveForkel	Junior's House	Sloughing	Rock placed at waterside of new fill settling.	Monitor	
105	Medium	8/20/2021	NateHershey	Station 694	Sinkhole	Three voids discovered near utilities and in the existing toe berm. Recommend collapsing and compacting when feasible.	Repair	
106	Medium	11/4/2021	DaveForkel	Sta 170+00	Seepage	Seepage at toe of levee.	Monitor	