

MEMORANDUM

January 13, 2021

TO: Reclamation District No. 2028

FROM: Nathan Hershey

SUBJECT: January 2021 Engineer's Report

Described below are the engineering items to be discussed at your January 13, 2021 meeting.

Subventions 2019-20 – The District submitted an application for participation in the Program in the amount of \$615,000. DWR has lowered the Program funding amount to \$10 million for FY 2019-20. The District submitted a final claim in the amount of \$245,136.13.

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.

Annual Maintenance – Attached are the current maintenance items we are tracking. We are also working on plans to raise the levee adjacent to the residences near Station 717. The work will require some encroachment removal and tree trimming. The goal is to raise the levee while minimizing impacts. We intend to advertise and bid the work later this month.

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

A sheet pile wall has been approved for construction under the PFA. The sheet pile wall will intercept an old sluice box discovered deep within the levee during construction near Station 525. We have advertised the project for bid and bids are scheduled to be opened on Thursday, January 28. Once the contract is awarded, the timing of installation will be weather dependent. All work is scheduled to be complete prior to May 31.

The District received an advance of funds for design of the Directed Action project to rehabilitate the north and south levees. We have started work on the design and will be moving forward in anticipation of construction. The District will need to consider a variety of issues, including availability and location of onsite borrow material and other issues that may result in an impact to the landowner and/or their tenants.

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 many of 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, 2021.

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 purchased the equipment and set up a bid process for equipment installation.

Since the last update, MBK conducted a field visit to Bouldin Island to conduct portable flow meter tests at siphons running for winter flooding. Tests at Siphons No. 39 and 40 confirmed that telemetry will be required at these siphons for strict compliance with the Measurement Regulation. MBK also checked existing equipment and downloaded data from existing equipment. No new issues with the equipment were observed during the field visit.

Current direction by MWD is to proceed with a combination of strict compliance and developing a MWD Alternative Compliance Plan. In order to develop this plan, MWD submitted a Request for Additional Time on December 21, 2020. MWD was notified by the Office of the Delta Watermaster on December 29, 2020 that the Request was accepted.

Development of the Delta-wide ACP by the Delta Measurement Experiment Consortium to utilize Open ET for measuring and reporting diversions continues. MBK and MWD will continue to participate in the Consortium and provide feedback on the future development of this ACP as needed. The next Consortium meeting is scheduled for January 28, 2021.

Reclamation District No. 2028 Bacon Island

Issue Tracking Summary

1/8/2021

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
8	Low	11/2/2016	Dave Forkel	Station 668-702	Encroachment	Eucalyptus trees present a hazard	Investigate	Review, explore removal
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		
48	Low	6/14/2017	Dave Forkel	Station 190+00	Vegetation control	CDFW mitigation site shows evidence of arundo mowing.	Investigate	Discuss mitigation requirements.
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	
92	High	9/19/2019	AndyReece	Sta 688+00 - 689+00	Crack	deep cracks at LS hinge and LS slope	Investigate	5 ft plus feet deep approx 3 inches wide along LS hinge and landside slope. In summer 2019, cracking area was excavated and re-compacted, AB was placed on the crown. On the waterside of the cracking site a beaver den was collapsed and back filled with AB in summer 2019.

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1/8/2021

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92.1	High	6/29/2020	Michael Nishimura	Sta 688+00 - 689+00	Crack	The cracking site, repaired by Dino and Sons in Summer 2019, has reopened and is approximately 100 feet in length. The number of cracks and the depth of cracks are unknown at this time.	Repair	
92.2	High	8/7/2020	Nate Hershey	Sta 688+00 - 689+01	Crack	Repaired by Dino and Sons again this week. Continue to monitor the area.	Monitor	
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	
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	10/5/2020	Dave Forkel	Sta 365+00	Crack	150 foot long crack on crown	Investigate	
102.1	Medium	1/8/2021	NateHershey	Sta 365+00	Crack	Crack to be repaired during sheet pile installation project. Target completion prior to 6/1/21.		