

MEMORANDUM

January 15, 2020

TO: Reclamation District No. 756

FROM: Nathan Hershey

SUBJECT: January 2020 Engineer's Report

Described below are the engineering items to be discussed at your January 15, 2020 meeting.

Subventions 2018-19 – The District submitted an application for participation in the Program in the amount of \$845,000. \$12 million has been approved for Program funding for FY 2018-19, consistent with recent previous years. The District's final claim was been submitted in the amount of \$253,623.03. DWR and CDFW have performed their annual inspection and the claim is currently being processed.

Subventions 2019-20 – The District submitted an application for participation in the Program in the amount of \$750,000. DWR has lowered the Program funding amount to \$10 million for FY 2019-20.

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

Special Projects – The District submitted a full application for a project under DWR's 2016 Projects Solicitation Package (PSP) for Multi-Benefit Projects. The full application proposed a project between Stations 500 and 540 that would create a habitat bench and set the levee back, while also relocating the District's Camp 5 pump station, moving it further landward. Subsequently, we requested an expansion of the project area to include rehabilitation from Stations 540-550. We have received a funding agreement for the work, and DWR has responded to our inquiry about eligibility of relocating the pump station. Removal of the existing pump station is an eligible cost (95% State share), and the new pump station will be eligible for 50% State share.

We submitted a Full Application for a Directed Action project to rehabilitate the north levee in January 2019. DWR has agreed to fund the project design and we have received a funding agreement for the non-construction portion of the project. We have reviewed the agreement and have coordinated with DWR on the proposed 93% State cost share. Our recommendation is to move forward. Once the agreement is fully executed, we can begin work on the design.

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 received an advance of funds in the amount of \$26,250.00.

SB 88 – Work under Phase 2 of the measurement experiment (work plan for 2019 through Feb 2020) is wrapping up. All of the data collected through the summer irrigation season has been reviewed and analyzed. MBK is currently preparing a report to update the experiment summary report (final dated March 2019). A draft will be provided to MWD this month, with the intent to finalize it by the end of February.

On behalf of MWD and the RDs, MBK submitted a Request for Additional Time (Request) to the Delta Watermaster on January 3, 2020. We have not yet received formal approval of the Request, but have

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Engineer's Report
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direction to consider the extension continued during the period of review of the Request. MBK is in the process of drafting a workplan for 2020 efforts, as they are outlined in the Request. This will primarily involve installing 8 additional flange magnetic meters on the water side of the highest use siphons, with at least one meter on each island. These sites will also include telemetry equipment, with the intent to post data on the Bay Delta Live website.

During a site visit to Bouldin Island on December 13, 2019, the vandalized test sites (Bouldin Island Siphon Nos. 39 and 40) were investigated. We found that the solar panels, dataloggers, and power supplies were stolen, but the flow sensors were not damaged and remain in place. Future site visits to the islands are currently on hold until diversions increase and/or activities related to the next phase of the Measurement Experiment start.

Reclamation District No. 756 Bouldin Island Issue Tracking Summary 1/10/2020

SasuelD Priority Report Date Reporter Location Issue Type Description Action Field Notes Action Field Notes Self-content Signature Self-content									
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Reclamation District No. 756 Bouldin Island Issue Tracking Summary 1/10/2020

IssueID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
						Longitudinal crack on land		
						side slope near toe of		Investigate and monitor; It's
						Levee. Crack runs several		clear to me that there is
						hundred feet parallel to		differential settling after slope
63	Medium	3/23/2018	RussRyan	Station 72	Crack	Levee road. See photos.	Repair	vegitation was cleared.
						Adjacent to Duck Club		
						office on Levee slope		Min. Fill material;Need to
						water side. Appears to be		investigate extent of hole and
						possible Beaver Den		fill in with Levee backfill
65	Medium	5/8/2018	RussRyan	Station 710	RodentActivity	discovery during low tide.	Repair	material/rock.
						Possible beaver den by		Two levee penetrations, one
						district office, west of tree		on top of other. WS slope
65.1	Medium	6/19/2018	AndrewReece	Station 712+00	RodentActivity	on ws slope	Repair	sloughing.
				Land side within		Bouldin Island - West		
				150 foot Levee		stretch length adjacent to		
				footprint. See		Mokelumne River. See		
				attached phots.		attached photos for exact		
74	Low	1/5/2019	RussRyan	Low wet areas.	Other,Sinkhole	location.	Investigate	See notes above.
						sloughing on water side for		
0=		. / . /				about 100 feet, cracking at		
85	Low	4/1/2019	MichaelNishimura	79+00-80+00	Sloughing	hinge	Monitor	
						Seepage between toe road		
						and seepage ditch		
						and seepage ditti		
						not appear to be tidally		
						influenced and a point		District (Dave, Russ, Ralph) to
						source was not located.		review site on 5/10.
						Additional minor wet spots		Exploratory trenching will
				Sta 845+00 to		observed between Sta		likely be required. Perform
				846+00 between		841+00 and 843+00. No		trenching when convenient as
				toe road and		known history of seepage		long as site does not change
86	Modium	E /7 /2010	Prian Janousials		Soonaga	, , ,	Ponsir	
86	Medium	5/7/2019	Brian Janowiak	seepage ditch	Seepage	at this location.	Repair	or worsen.

Reclamation District No. 756 Bouldin Island Issue Tracking Summary 1/10/2020

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								Looks like seepage is drying
86.1		5/10/2019						up.
88	Low	6/7/2019	Dave Forkel	Sta 382+00	Seepage	Seepage on side of levee.	Investigate	
93	Medium	9/26/2019	Andy Reece	693+00	Sloughing, RodentActivity	sloughing and possible rodent den	Investigate	big rock and might be eroding, possible beaver as well
94	Low	9/27/2019	Brian Janowiak	Lower toe	Other, Settlement	Area along lower toe near seepage ditch by Floeida tip appears to have settled.	Monitor	