

# RESOURCE AND ENGINEERING PLANNING COMMITTEE

## MINUTES

May 4, 2023

A meeting of the Resource and Engineering Planning Committee was held on Thursday, May 4, 2023, at 10:04 a.m. at the District Office, 31717 United Avenue, Pueblo, Colorado and via Zoom virtual meeting.

Chairman Curtis Mitchell announced a quorum was present.

### COMMITTEE MEMBERS PRESENT:

Curtis Mitchell – Chairman, Seth Clayton– Vice Chairman, Andy Colosimo, Pat Edelman, Jim Broderick (remote) and Bill Long

### COMMITTEE MEMBERS ABSENT AND EXCUSED:

Tom Goodwin

### OTHERS PRESENT:

Alan Hamel, Howard “Bub” Miller (@ 10:30), Southeastern Colorado Water Conservancy District (District) Directors; Chris Woodka, Garrett Markus, Margie Medina, Mark Scott, and Leann Noga, District staff.

**Zoom Participants:** John Dawson, Mott MacDonald; Patty Rivas, Kevin Meador, Lee Miller, and Peter Levish District staff.

### APPROVAL OF MINUTES:

Chairman Mitchell asked for approval of the April 6, 2023, Resource and Engineering Planning Committee minutes and if there were any corrections or additions. Andy Colosimo moved, seconded by Seth Clayton, to approve the minutes. Chairman Mitchell had a correction to the minutes to reflect his absence at the April 6, 2023 meeting. Motion passed unanimously.

### PRESENTATIONS:

#### JAMES W. BRODERICK HYDROPOWER PLANT UPDATE

Garrett Markus updated the Committee on the James W. Broderick Hydropower Plant (JWBHP) starting with the current operations for the month of April 2023.

**Table 1 - JWBHP Operations Dashboard**

	THIS MONTH	LAST MONTH	YEAR TO DATE
<b>Power Generation (MWhrs)</b>	1,083(est)	605	2,415
<b>Scheduled Power (MWhrs)</b>	2,400	1,546	5,054
<b>Revenue</b>	\$126,192	\$81,289	\$265,739
<b>% Of Average Generation</b>	91%	91%	86%

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### ASSET MANAGEMENT – JWBHP FACILITY CONDITION ASSESSMENT REPORT

Mark Scott provided a PowerPoint regarding the Condition Assessment of the James W. Broderick Hydropower Plant Facility performed by Terracon Inc. In the overall Asset Management Program, this was the second facility that Terracon Inc. performed an onsite condition assessment to populate the District's Capital Improvement Plan (CIP).

The assessment was done in late 2022 to March 2023 which performed the following:

- a. Performed Detailed Assessment of the Facility
- b. Developed an inventory of key features
- c. Assigned each feature condition score
- d. Assigned each feature a "Current Replacement Value" and "Estimated Service Life"
- e. Developed a 20- year CIP to be used in the District wide CIP and budgeting processes

The next steps are to continue condition assessments on the Fry-Ark features, while working with Bureau of Reclamation (Reclamation) this will be a multi-year program.

### **ACTION ITEMS:**

#### RECOVERY OF STORAGE CONTRACT

Chris Woodka explained that the District began a Pueblo Reservoir Recovery of Storage Study (Study) in 2020. The firm of Mott-MacDonald (Consultants) completed Phase I of the Study in October 2020, and Phase II, Task 1 in September 2021.

As next steps, the Consultants recommended updated bathymetric and topographic surveys, refined storage capacity estimates, and a hydrology and geomorphology assessment of the area upstream of Pueblo Reservoir. Staff provided an assessment of when loss of storage becomes critical in May 2022.

Reclamation approved \$1 million in funding as extraordinary maintenance for further studies of Recovery of Storage in May 2022.

Reclamation and the District have developed a Project Management Plan for completing the tasks identified during Phase I and Phase II of the Study. This will be Phase III of the Study. Reclamation completed a bathymetric survey and core sampling of Pueblo Reservoir in March 2023, when water elevation in the reservoir is presumed to be highest. Reclamation will do a topographic survey with LiDAR in October 2023, when reservoir elevations are presumed to be at its lowest.

The District posted a Request for Proposals (RFP) for the upstream tributary risk assessment from May to September 2023 to determine where sediment is coming from. This work should be completed prior to the LiDAR survey in order to survey upstream sites as well as the area immediately surrounding Pueblo Reservoir.

Bathymetric and LiDAR images will be compared to similar surveys completed 10 years ago to determine the impact of sedimentation during that time. The District and Reclamation will use this information to develop a plan of action that will look at the most cost-effective methods to reduce the

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amount of sediment coming into Pueblo Reservoir and to recover storage that has been lost to sedimentation during the first 50 years of operations at Pueblo Reservoir.

An RFP for the District portion of Phase III was posted on the District web site and at the District office on April 3, 2023.

One firm, Mott MacDonald, met the filing deadline of 4 p.m. April 24, 2023. Their proposal will accomplish the upstream tributary risk assessment in the necessary time frame.

Pat Edelman moved, seconded by Seth Clayton that the Resource and Engineering Planning Committee recommend that the Enterprise Board approve the Storage Recovery Study contract, or a contract in substantially the same form, with Mott McDonald not to exceed \$269,642. The motion passed unanimously.

**INFORMATION ITEMS:**

None

**OTHER BUSINESS**

None

**NEXT MEETING**

The next meeting will be set for Thursday, June 1, 2023, at 10:00 a.m.

**ADJOURN**

Vice-Chairman Clayton adjourned the meeting at 10:47 a.m.

Respectfully submitted,

Garrett J. Markus, P.E.

Water Resources Principal Engineer