



discharge permit after the copper temporary modification expires.

The study would also determine the effect of a more detailed aquatic life characterization for this sandy bottom stream segment of Monument Creek. The upper segment of Monument Creek will most likely never meet the proposed interim values for aquatic life multimetric index readings, much less the long-term standards the state Water Quality Control Division is seeking. The current naturally occurring multimetric index scores for aquatic life in Monument Creek from Palmer Lake to Baptist Road are only about half of the minimum score required by the new Regulation 31.17 approved by the Water Quality Control Commission in

Burks stated that he had deleted the separate line item for the total phosphorus removal pilot plant that will be operated for three months to finalize the design requirements for the full-scale removal plant that will be required for the next discharge permit. There is no technical uncertainty regarding the design of the plant. The purpose of the pilot study is verify the design parameters, chemical feed rates, and increased sludge production rate necessary to meet the new discharge limit of 1.0 milligram per liter in new state Control Regulation 85 that will be imposed on the Tri-Lakes facility with its next five-year discharge permit in January, 2017.

An even tighter limit will be imposed beginning in 2022 under new state Regulation 31.17. Similar new restrictions are being imposed by these two regulations for total nitrogen as well, but no plant modifications will be required to meet the Control Regulation 85 limit of 15 mg/l in 2017 because of the existing plant's exceptional efficiency, Burks said.

Because the long-term state and federal standards for copper, nutrients, and aquatic life are unobtainable, the Tri-Lakes facility will have to obtain perpetual discharger specific variances for each of these every three years. The facility owners will have to pay engineering, environmental, and legal consultants to prove that all these limits are still unattainable every three years during the recurring Arkansas River Basin standards hearings and every five years when the facility's discharge permits expire.

The JUC unanimously approved post-poning operations of the total phosphorus removal pilot plant for a second year to save about \$52,000 for construction and operating costs, including chemicals, because there is no technical uncertainty regarding the design of the plant. The JUC unanimously approved reallocating this \$52,000 to pay for the Tetra Tech master plan study, which will cost between \$50,000 and \$60,000. The amount budgeted for the master plan study was \$55,000.

There is a separate \$10,000 miscellaneous engineering line that the facility could use to pay any overage if the study's cost exceeds \$55,000.

After the Sept. 11 JUC meeting, the Woodmoor board approved its share of the \$85,296 cost in the 2013 budget to build a new storage building for the facility. This construction was postponed in 2012 at the request of Monument. All three district boards also approved the master plan study expense after the Sept. 11 meeting. Burks said the storage building construction would not begin until the study was completed in case the study showed a need to alter the previously approved building design.

The total 2013 expense budget rose from the \$932,271 figure in the first two drafts to \$945,086 in the third draft. The JUC unanimously approved the third draft and scheduled a public hearing on the final budget for Nov. 13.

## Plant manager's report

Burks noted that the plant was operating efficiently with no problems since the Sept. 11 meeting The JUC unanimously approved a motion to reduce the current sampling schedule at four locations four times each month to twice a month. The facility's new discharge permit increased the copper sampling rate for effluent discharge from once a month to twice a month. The districts have been having their influent copper sampled by Burks' staff to have data for seeking temporary modifications or discharger specific variances in future discharge permits and any new capital equipment requirements for removing additional amounts of dissolved copper by the plant.

## **District manager reports**

Wicklund noted that pumps at the Wakonda Hills lift stations were still setting off alarms and the problems were being analyzed by supplier Keen Pumps.

Palmer Lake District Manager Duane Hanson gave his final report, stating that all the planned collection line cleaning and videoing had been completed for the year. Hanson retired on Oct. 19. Hanson has been replaced by former Palmer Lake Office Manager Becky Orcutt.

Jim Kendrick, Operations, Monument Sanitation District, gave a brief overview of the various new stakeholder work group meetings that he would be attending in October and November. These various stakeholder groups have been formed to resolve issues in publishing new policy and guidance documents for implementation of Control Regulation 85 limits by June 30, 2013, and statewide nutrient monitoring by March. The number of Water Quality Forum work groups has jumped from six to 13 because of the new regulatory workload created by these new regulations.

The meeting adjourned at 10:42 a.m.

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