

Tech RTW can go out for bid on this expansion project.

There was a lengthy technical discussion about several different design issues and options from the 90 percent planning review held between Burks and the owner district managers and engineer Steve Tamburini of Tetra Tech RTW on Feb. 4. Burks stated he would prioritize separation of the air ducts that currently feed compressed air to the two operational basins in a common air duct, then add automatic controls of blower speeds of flow rates and air valves for the numerous ducts in each aeration basin, then add the new high speed turbine blower last. Adding these capabilities will allow for more efficient control of ammonia levels in each aeration basin and more effective lowering of total inorganic nitrogen concentrations in the treated effluent discharged to Monument Creek.

Financial reports

Burks noted that the amended final 2015 facility budget had been received by the state Division of Local Governments on Jan. 30. He distributed hard copies of the final amended 2015 budget to the members of the JUC. For more information about the amendments to this 2015 final budget, see <http://ocn.me/v15n1.htm#tlfjuc1209>.

During his review of the January financial reports, Burks noted a monthly state nutrient grant reimbursement of \$36,207 in January for Tetra Tech RTW's preparation of design and construction documents for the total phosphorus removal tertiary clarifier expansion project.

The total amount of state nutrient grant reimbursements the facility has received to date was \$168,437, which included all of the \$80,000 state planning grant and \$88,437 from the \$1 million state design and construction grant. See <http://ocn.me/v13n8.htm> and <http://ocn.me/v13n8.htm#grant> for more information on Tri-Lakes' state nutrient grants.

The financial reports were unanimously accepted as presented.

Plant manager's report

Burks reported that the plant was operating very efficiently, as shown in the facility's December monthly discharge monitoring report and separate 2014 fourth-quarter discharge monitoring report, even though only one of the facility's two hourly operator positions is filled and funding for a third hourly operator in the 2015 budget was deleted. Burks noted that four of the 19 applicants for the empty position were certified. The ad for the open position ran through Feb. 22.

The net December total phosphorus in effluent results for the Tri-Lake plant were 0.987 million gallons per day (MGD) and 76.0 pounds per day (ppd.) The new total phosphorus chemical removal tertiary clarifier constituent treatment capacity is rated at 264 ppd by Tetra Tech RTW. The December phosphorus in effluent testing results for flow (MGD), concentration in milligrams per liter (mg/l), loading (ppd), and percent of loading were:

- Monument – 0.199 MGD, 36.5 ppd, 47.8 percent
- Palmer Lake – 0.210 MGD, 7.5 ppd, 9.9 percent
- Woodmoor – 0.578 MGD, 32.0 ppd, 42.4 percent

Burks reported that the new annual Control Regulation 85 nutrient data submittal will use the same format as the one required for 2013 data. This information will be submitted by Tri-Lakes through the Arkansas and Fountain Coalition for Rural/Urban River Evaluation (AF CURE) baseline created two years ago for Monument Creek and Fountain Creek wastewater facilities. This will be a substantial labor-saving software device for AF CURE wastewater operators.

AF CURE has been successful in spreading the responsibility and equitable cost sharing among all its member wastewater entities to sample and characterize the stream and watershed health of Monument Creek from Palmer Lake and Woodland Park to Pueblo. This stream model data collection will enable all AF CURE members to defend themselves from the imposition of unreasonable discharge permit limits for metals and other emerging contaminants of concern when the real aquatic life problems are being caused by contaminants from agricultural and natural non-point sources being delivered to the creeks by stormwater runoff rather than sanitary sewer pipes.

There was a lengthy discussion of the limits of technology that will apply after 2022 to enhanced biological nutrient reduction treatment process processes that don't work at higher elevations and in desert climates.

Burks noted that the sludge hauling firms Parker Ag and Liquid Waste Management have merged, which will reduce competitive bidding opportunities in the future.

The meeting adjourned at 11:25 a.m.

The next meeting will be held at 10 a.m. on March 10 at the Tri-Lakes facility's conference room, 16510 Mitchell Ave. Meetings are normally held on the second Tuesday of the month. Information for these meetings is available at 481-4053.

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Monument Sanitation District, Feb. 19

Total phosphorus cost-sharing negotiations continue

By Jim Kendrick


On Feb. 19, the Monument Sanitation District board held a mid-meeting, hour-long executive session on negotiations with Woodmoor Water and Sanitation District and

Palmer Lake Sanitation District regarding cost sharing for design and construction of the \$2.87 million total phosphorus chemical clarifier expansion being designed by Tetra Tech RTW, the Tri-Lakes Wastewater Treatment Facility's engineering firm. The three districts jointly own the facility in equal one-third shares. Board President Ed DeLaney said no votes were taken during the executive session.

The board unanimously approved the proposed 2015 letter of engagement for legal service from Gaddis, Kin, Herd, P.C. There were no changes in the rate schedule from the 2014 letter of engagement. All members of the board were present.

Treasurer's report

Since the cash summary for the Jan. 15 district board meeting, total disbursements were \$69,171 and total deposits were \$71,508. Total cash on hand as of Feb. 17 was \$777,534, including \$244,964 in the First National Bank Capital Preservation Fund account, \$404,064 in the ColoTrust Capital Preservation Fund account, \$35,028 in the Integrity Series-2013 Loan account, \$93,377 in the Integrity Bank Operating account, and \$100 in petty cash. Rental income deposited year-to-date was \$1,600. Conference room rental deposited year-to-date was \$525. One tap



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