

for construction contract management by Tetra Tech—\$18,000 per month for 14 months. In addition, the JUC unanimously approved a motion to budget/appropriate an additional 10 percent contingency of \$305,900 for the construction contract plus a \$25,200 10-percent contingency for the Tetra Tech construction management contract. The total cost for these four items was \$3.642 million.

Before final approval of these items on May 12, there was a lengthy technical discussion by JUC members and other district board members in attendance regarding different ways to possibly finance various combinations of the four solicited bid alternate options originally recommended by Tetra Tech engineer Steve Tamburini. On April 14, he had recommended that none of the four construction bid options (described below) that had been requested

from the four bidders by the JUC should be approved. Tamburini said none of these construction bid options were necessary for achieving state Health Department Control Regulation 85 nutrient regulatory compliance, because the Tri-Lakes facility already meets Control Regulation 85 discharge limit for total inorganic nitrogen of 15 mg/l, although the aeration basin bid options would make overall treatment plant operations more efficient by giving the operating staff the ability to more precisely control biological waste treatment in the existing aeration lagoons. All four bid options were deemed to be unaffordable by the Palmer Lake board at this time.

The Aslan bids for each of the four construction bid options that would still improve the facility's overall efficiency, as prioritized by TLWWTF manager Bill Burks, were:

- New second aeration basin air header to create separate aeration control for each operating basin - \$165,000
- Expansion of the new storage building - \$102,000
- New more efficient aeration basin high speed turbine blower - \$227,000
- New aeration basin control systems and sensors - \$115,000

After adding \$252,000 for 14 months of Tetra Tech construction contract management, a 10 percent construction contingency cost of \$366,800, and a 10 percent construction contract management contingency of \$25,200 to Aslan's bid of \$3.668 million, the total project cost with all four bid options would have been \$4.312 million.

Note: Tamburini initially recommended a fifth construction bid option for construction of an emergency backup electric generator to avoid total phosphorus discharge permit violations during an extended electric utility failure. This option had an initial estimated construction cost of roughly \$200,000. However, on Feb. 4 Tamburini reported that the separate cost of preparing the bid option documentation for the emergency generator would be several times higher than his original estimate of \$11,000. The JUC cancelled his preparation of the generator bid option on Feb. 10, when Tamburini also reported that the state Health Department would not actually be requiring construction of this emergency generator as he had originally forecast. See <http://ocn.me/v15n3.htm#tlfjuc0210> for more details.

The motion also specified that Monument would pay 19.79 percent of the \$3.642 million, Palmer Lake would pay 33.33 percent, and Woodmoor would pay 46.88 percent.

For more information, see <http://www.ocn.me/v15n5.htm#tlfjuc0414>.

Monument and Palmer Lake requests for expansion of treatment capacity accepted

Burks presented Monument's signed formal JUA Exhibit 2 "Request for Expansion of Treatment Capacity" regarding its 19.79 percent ownership share of the tertiary TP chemical clarifier expansion treatment capacity and Palmer Lake's similar request for a 15.93 percent ownership share. Woodmoor offered no objection to either request. Rejection of either request would have required a unanimous vote by all three owner districts under the current Joint Use of Facilities Agreement. Don Smith's motion to approve the Monument request for expansion did not receive a second from either Palmer Lake or Woodmoor on April 14 and was continued to the May 12 JUC meeting.

Plant manager's report

Burks reported that the plant's March discharge monitoring report showed that treatment was in compliance with every limit in the facility's current discharge permit, as well as the new discharge permit limits that took effect on May 1, despite the high in-plant flow rates caused by record rainfall. The first-quarter whole effluent toxicity test results showed no toxicity.

Burks reported that the March total phosphorus in-plant testing results for flow in millions of gallons per day (MGD), loading (ppd), and percent of loading were:

- Monument – 0.168 MGD, 25.2 ppd, 38 percent
- Palmer Lake – 0.229 MGD, 9.5 ppd, 14 percent
- Woodmoor – 0.624 MGD, 32.3 ppd, 48 percent

Burks reported that the facility's March Control Regulation 85 total phosphorus effluent testing result was 4.0 mg/l. The March Discharge Monitoring Report total inorganic nitrogen effluent testing result was 4.7 mg/l. The nitrogen test results for samples taken upstream at both Arnold Avenue and from the Tri-Lakes effluent discharge showed very substantial non-point source total nitrogen entering Monument Creek from other tributaries and/or stormwater runoff.

Managers' reports

Woodmoor's Assistant District Manager Randy Gillette reported that Woodmoor's wastewater flows "were up considerably" due to the heavy rain flows of early May. "We have had a lot of springs popping up in Woodmoor and a lot of homes are getting flooded although it's against our regulations to have their sump pumps and French drains tied to the sewer."

Burks added that the Tri-Lakes facility's flow on May 12 was about 3 million gallons per day (mgd), compared to an average flow of 1.06 mgd to date for 2015. He noted that the facility staff had prepared for high spring flows, including doubling the number of ultraviolet lamp channels that are turned on to perform sufficient final disinfection of E. coli just before treated effluent is discharged to Monument Creek. He also reported that a temporary failure of the bar screen that removes large objects from in-plant wastewater had occurred, which caused flow backups into owner district metering zones and erroneous readings that he would correct. Also, the facility's grit collector had become completely filled and had to be emptied manually despite the higher run times the staff set for grit pump operations. The 24-inch diameter discharge pipe is much larger than required to handle surge flows well over 5 mgd. The plant is rated for an average maximum flow of 4.2 mgd for 24 hours.

Monument Sanitation District Manager Mike Wicklund noted that most of the excess flow was in flow of stormwater through manhole lids, especially those that are underwater due to flooding or water from flooded basements temporarily flowing from floor drains into the sewer.

Burks applauded all the three owner districts for cleaning their collection lines on a continuous annual basis, which had resulted in no reports of high stormwater flows causing surging backups that eject manhole lids upward due to upward flows that spout out of the top of the manhole after the manhole lid is ejected.

Financial reports

Some of the April budget expense items that Burks reported were:

- An initial partial payment of \$4,000 for the facility's 2014 payment to John Cutler & Associates (the final audit will be presented at the June 9 JUC meeting)
- A state nutrient grant reimbursement of \$42,698

The financial reports were unanimously accepted as presented.

The JUC went into executive session at 11:13 a.m. to meet with Tri-Lakes Facility attorney Mike Cucullu for the purposes of receiving legal advice on specific legal questions regarding the facility's sludge removal contract pursuant to §24-6-402(4)(b)C.R.S. The JUC came out of executive session at 11:52 a.m. Don Smith noted that no votes were taken in executive session. The meeting adjourned at 11:52 a.m.

The next meeting will be held at 10 a.m. on June 9 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.

Jim Kendrick can be reached at jimkendrick@ocn.me.

Palmer Lake Art Group
presents...
Color Splash Fine Arts Show
June 2-27
At the Tri-Lakes Center for the Arts
304 Hwy 105, Palmer Lake, CO 80133
Tuesdays-Saturdays, 12-4 pm
Proceeds from this show will benefit art scholarships for School District 38 high school seniors.
For further information, please visit www.palmerlakeartgroup.com or email plaginfo@palmerlakeartgroup.com



Your local Real Estate Broker and Mortgage Banker, Janie and Lisa, live and work in the Tri-Lakes area and are teaming up to serve you, making home buying easier.

JANIE HOWARD

Parker St. Claire Realty *Parker St. Claire*
719.287.0427
www.coloradojanie.com

LISA RAMSEY

719.205.1782 *Heartland Bank*
NMLS #206385 *Mortgage*

OPEN HOUSE | SATURDAY JUNE 13

Come see us on June 13 (1-4pm). View this 7,000+ SF former Parade Home with elevator in Kings Deer and see for yourself. Patiently awaiting its new owner...priced right!



TRI-LAKES REFORMED CHURCH
CHRIST'S (RPCNA)
Woodmoor Community Center
1691 Woodmoor Drive
Monument, CO 80132
Sunday Worship 9:45 A.M.
www.trilakesreformed.org

Simple. Interior design to match your style...
designwiseinteriors
find your design style
We specialize in helping you translate your personal style into your design style.
719.963.7438 designwisecolorado.com