

MINUTES
OPERATIONS & ENGINEERING COMMITTEE MEETING
AUGUST 10, 2021 (VIRTUAL)

Attendants: Messrs. DiSantis, Hurst, Kern, Lehman, Lucas, Mullen, Nagle, Pileggi, Pisani, Willert, and Mesdames Bonnett, Caulk, Cummings, and Sage.

1. ROLL CALL: Six members of the DELCORA Board of Directors were present at the meeting constituting a quorum.

Mr. Mike Ewall of Energy Justice Network was present for the latter half of the meeting. There were no other members of the public present.

2. PLEDGE OF ALLEGIANCE: All parties present at the meeting recited the Pledge of Allegiance.

3. BID OPENING:

- Contract No. P2021-05 – Replacement Belts For A Belt Filter Press/Gravity Belt Thickeners

Ms. Caulk stated that there were two bids received.

<u>BIDDER</u>	<u>TOTAL BID AMOUNT</u>
Clear Edge Filtration	\$ 65,222.90
GSM Filtration, Inc.	\$ 49,610.00

Mr. Mullen stated that these bids will be reviewed by Staff and our Solicitor's office, and consideration of award will be placed on the agenda for the August 17th Board meeting.

4. MONTHLY REPORT – DIRECTOR OF OPERATIONS & MAINTENANCE: Mr. DiSantis highlighted certain items in the written report. Mr. DiSantis stated that there were no violations at the WRTP or at the remote facilities during July. Overall, July was the driest month year-to-date. Flow was 31.66 MGD; about five million gallons a day less than the daily average year-to-date. Effluent quality was excellent and solids handling was a typical month of productivity at 66.12 dry tons per day. There was maintenance activity with the incinerators that required shut downs during the month. While polymer and gas usage amounts were within operational targets; natural gas usage was higher than the year-to-date average. The increased usage was due to the incinerator down time resulting in heating up while not feeding sludge coupled with the effect of lower cake feed solids requiring more gas to dry the sludge before burning. There were four reportable incidents to PADEP caused by emissions. Two were due to programming issues when the program did not respond as it should. A re-creation of the incidents and simulated tests are performed to determine the cause of these occurrences. One incident could not be re-created. There were no Sanitary Sewer Overflows in July due to low flow conditions. Under Maintenance, Mr. DiSantis reported that Central Maintenance planned and predictive maintenance accounted for 64% of

their time with corrective maintenance work accounting for the rest of their time. Taking advantage of the dry weather, Sewer Maintenance spent more time on routine line cleaning and televising. The written report lists the breakdown of time spent on all maintenance activities. Regarding Trucked Waste, he stated that 24.5 million gallons were received and estimated revenue is expected to be ahead of budget. Mr. DiSantis had no additional comments to the written report. The Committee had no other questions regarding the written report.

5. MONTHLY REPORT – DIRECTOR OF ENGINEERING: Mr. Hurst highlighted certain items in the written report. He noted all projects are progressing well with some in close-out. The Sewer Maintenance contractor replaced and repaired water lines at the plant, performed pressure testing on the Central Force Main air reliefs to identify pressure issues in the 36-inch ductile pipe that runs down Rt. 291, and with the contractor's continued help with the Rose Valley I&I reduction repairs, the I&I is showing improvement in that less rain water is getting into the system. Regarding the Springhill Farm projects, both are in the process of close-out. In reviewing the WRTP Plant Upgrades 2020 project, Mr. Hurst reported that one of the two ash wetting systems came online last month and is operating successfully. These new systems will greatly help to eliminate fugitive dust emissions. Also, the new ash disposal contract will be put out for bid shortly.

Concerning the Long Term Control Plan (LTCP), Mr. Hurst noted that he expects the EPA to issue a brief comment letter shortly in response to the most recent Long Term Control Plan submission. It is anticipated that the EPA will expect lower activation frequency of sanitary sewer overflows. He hopes to have that letter by next month's meeting. Regarding the ESA Design project, Mr. Hurst reported that the design projects are progressing well. As per Permit requirements, a new Act 537 Plan needs to be approved in order for DELCORA to redirect flow from Philadelphia to the Western Regional Treatment Plant. The 537 Plan is completed and has been reviewed internally and by the state. Next step is to issue it to the municipalities for their review. A county-wide municipal meeting is scheduled for August 19th to introduce and review the Plan with the municipalities and their engineers. Then, beginning September 1st, the 90-day comment period will begin. Mr. Hurst had no additional comments to the written report. The Committee had no questions regarding the written report; however, Mr. Nagle requested a copy of the EPA letter as soon as Mr. Hurst receives it.

6. MONTHLY REPORT – ENGINEERING ADVISOR: Mr. Lehman highlighted several on-going projects on the written report, which had been provided to all Board members in advance of today's meeting. He stated that the Annual SWMM Modeling continues with no issues. Regarding the Metering Program, the equipment is well maintained and providing good data. He also noted that corrections and updates to the as-built drawings for the Utility Water project are currently being prepared by Weston's CAD Department. Mr. Lehman had no additional comments to the written report. The Committee had no questions regarding the written report.

7. CHANGE ORDERS:

- Contract No. TC-1717-C – 2018 WRTP Plant Upgrades – Contract D – Electrical – Change Order No. 4 – Increase In Contract Time Of 184 Days To Adjust Contract Time For Formal Project Close Out (Philips Brothers Electrical)
- Contract No. PFR-1903-C (Re-Bid) – Springhill Farm Pump Station & Sanitary Sewer Force Main – Contract 1 – General/Mechanical – Change Order No. 1 – Credit For Unused Quantities – Decrease In Contract Amount Of \$104.85 And Increase In Contract Time Of 248 Days Due To Unforeseen Conditions (A. J. Jurich, Inc.)
- Contract No. PFR-2004-C – Springhill Farm Sanitary Force Main Extension – Change Order No. 1 – Credit For Unused Quantities – Decrease In Contract Amount Of \$15,894.50 And Increase In Contract Time Of 275 Days Due To Unforeseen Conditions (A. J. Jurich, Inc.)

Mr. Hurst briefly reviewed the three change orders and stated that all three are associated with the close-out phase of each contract.

It was the consensus of the Committee to recommend Board approval of the above contract change orders. These items will be placed on the agenda for the August 17th Board meeting.

8. REQUEST FOR APPROVAL OF CONTRACT CLOSE-OUT & FINAL PAYMENT:

- Contract No. TC-1717-C – 2018 WRTP Plant Upgrades – Contract D – Electrical (Philips Brothers Electrical)
- Contract No. PFR-1903-C (Re-Bid) – Springhill Farm Pump Station & Sanitary Sewer Force Main – Contract 1 – General/Mechanical (A. J. Jurich, Inc.)
- Contract No. PFR-2004-C – Springhill Farm Sanitary Force Main Extension (A. J. Jurich, Inc.)

Mr. Hurst briefly reviewed the three contracts that are completed and ready for close-out and final payment.

It was the consensus of the Committee to recommend Board approval of the above contract close-outs. These items will be placed on the agenda for the August 17th Board meeting.

9. AUTHORIZATION FOR PROFESSIONAL SERVICES:

- A. Gannett Fleming – Proposal Dated August 9, 2021 – For Professional Engineering Services For WRTP Outfall And Diffuser Detailed Design – Total Amount Not To Exceed \$707,600.00 Plus \$80,000.00 Allowance For Additional Permit-Related Costs (Capital Funds)

Mr. Hurst stated that this proposal is for the detailed design work for the outfall and diffusers, and the cost is in line with standard metrics. Many permits will be needed to do the necessary work in the river. In response to a question from Mr. Kern as to a construction estimate, Mr. Hurst stated that the estimate is around ten million dollars which may increase due to the river work.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the August 17th Board meeting.

- B. Greeley & Hansen – Proposal Dated July 16, 2021 – For Professional Services To Provide Long Term Control Plan Update (LTCPU) Implementation (Task Order No. 11) – Total Amount Not To Exceed \$209,673.00 (Capital Funds)

Mr. Hurst stated that this proposal is for Greeley & Hansen to proceed with the implementation of portions of the LTCPU, particularly those listed in the NPDES Permit. This includes modeling tasks and preliminary design work for the storage requirements for CSOs 18 and 19.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the August 17th Board meeting.

- C. Brown And Caldwell – Proposal Dated August 9, 2021 – For Professional Engineering Services To Provide Year 2 Of The Comprehensive Sewer System Infiltration And Inflow Control Program – Total Amount Not To Exceed \$360,000.00 (Capital Funds)

Mr. Hurst stated that this proposal is for modeling of the collection system to determine locations of high I&I. Year 1 report was submitted in April 2021. Year 2 report is expected in April 2022. Also, the cost is a preliminary number which may decrease by the Board meeting. Brown and Caldwell is working on finalizing this proposal.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the August 17th Board meeting.

- D. Chavond-Barry Engineering – Proposal Dated July 28, 2021 – For Professional Engineering Services To Provide General Advice During Calendar Year 2021 – Total Amount Not To Exceed \$30,000.00 (Operating Funds)

Mr. Hurst stated that this proposal is for Chavond-Barry to serve as combustion engineer for the incineration project. Mr. DiSantis added that this firm specializes in incineration and related technologies, pollution control, etc.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the August 17th Board meeting.

- E. Freya Systems, LLC – Proposal Dated June 10, 2021 – For Professional Services To Perform Technical Analysis Of The Data Survey Report On Dissolved Oxygen (DO) Optimization (Task #1) – Total Amount Not To Exceed \$117,775.20 (Operating Funds)

Mr. DiSantis stated that the aeration system currently uses 65% of the power and this proposal will use machine learning/artificial intelligence for the program that controls aeration. This has the potential to save a significant amount of money in energy costs and wear on the equipment. Other benefits would include better ammonia removal and other environmental improvements.

It was the consensus of the Committee to recommend Board approval of the above proposal. This item will be placed on the agenda for the August 17th Board meeting.

10. AUTHORIZATION TO ADVERTISE FOR BIDS:

- Contract No. SC-2101-C – Townsend Street CSO Partial Separation Project
- Contract No. P2021-06 – Dry Ash Hauling
- Contract No. P2021-07 – Primary Clarifier Spare Parts

Mr. Hurst provided a brief overview of each contract.

It was the consensus of the Committee to recommend Board approval of the above Authorizations to Advertise. These items will be placed on the agenda for the August 17th Board meeting.

11. AUTHORIZATION TO PURCHASE:

- Purchase Of Three (3) 10 Inch Krohne Flow Meters For EB2 Through The PA CO-STARS Contract (Stover Sensor Controls Quote #210693JC) For A Total Amount Not To Exceed \$27,318.00 (Capital Funds)

Mr. DiSantis stated that these flow meters are for the sludge holding tanks. The meters are used to determine the effectiveness of the mixing and to measure the volume of what is going through the mixing pumps. One tank has been done and these three meters are for the remaining tanks.

It was the consensus of the Committee to recommend Board approval of the above purchase. This item will be placed on the agenda for the August 17th Board meeting.

- Purchase Of Three Pumps For The Chester Ridley Creek Pump Station Through The PA CO-STARS Contract #359913 (Reiner Pump Systems Quote Dated August 4, 2021) For A Total Amount Not To Exceed \$304,815.00 (Capital Funds)

Mr. Hurst noted that the number of pumps should be four, not three. These will replace the existing pumps at the CRCPS. Inspection of the pumps revealed significant wear and tear, and the repair costs would be extensive. It was determined that new pumps would be the most beneficial and cost-effective providing additional capacity and a longer service life.

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It was the consensus of the Committee to recommend Board approval of the above purchase. This item will be placed on the agenda for the August 17th Board meeting.

ADJOURNMENT: It was moved by Mr. Lucas, seconded by Mr. Nagle, and unanimously carried to adjourn the regular meeting at 4:00 p.m.