

## TECHNICAL COMMITTEE MEETING MINUTES

Tuesday, May 12, 2015

2<sup>nd</sup> Floor Conference Room

Plant Site, 111 Harbor View Avenue

5:30 p.m.

Daniel Capano	Chairman, Technical Committee
Edward Kelly	Committee Member (Absent)
Merritt Nesin	Committee Member
Gerald Bosak Jr.	Committee Member (Absent)
William Brink	Executive Director, WPCA
William Degnan	Plant Supervisor, WPCA
Prakash Chakravarti	Supervising Engineer, WPCA

### 1. Call to Order and Roll Call

D Capano called the meeting to order at 5:30 pm.

### 2. Approval of April 8, 2015 Technical Committee Meeting Minutes

M Nesin made the motion to approve the minutes of the meeting for Mar 11, 2015. Seconded by D Capano; the motion carried 2-0-0.

### 3. Odor control update

W Brink stated that the staff has begun taking daily samples from each odor control scrubber to measure pH and ORP in the lab and will focus on getting the pH and ORP sensors working properly at the scrubber for the primary clarifiers first. He indicated that the ORP & PH sensors at the primary clarifiers scrubber are depicting lower readings which may be due to turbulence in the recirculating pump suction piping. The probes may have to be relocated to a side stream off the pump discharge piping. W Brink mentioned that a smaller capacity recirculating pump for the primary odor control will be procured soon for about \$15,000 and there may not be any energy efficiency cash incentive from Eversource since the existing pump was approaching its service life. The scrubber for the pelletizer/dryer has to be cleaned of accumulated particulates. The solids processing building scrubber pH and ORP is within the acceptable range and the odor control system at the raw sewage pump station is working well.

D Capano asked about the ductwork modifications in the solids processing building. P Chakravarti stated that the in-house staff mechanics have not gotten to doing the work due to other pressing issues on site. D Capano asked if the replacement carbon for the carbon canister for the dryer bypass exhaust had been ordered. W Brink said he will check with Pete Scorziello of Synagro on the status of the order.

W Brink described that the carbon canister at the septage receiving has been installed and is running, and the carbon canister for the parked sludge cake and screenings and grit trailers is running as well. Dan Capano asked the WPCA staff to look into enclosing the trailers in a building and provide some viable options and preliminary costs by the next Technical Committee meeting in June, 2015.

W Brink stated that there have been no odor complaints.

#### **4. UV disinfection system update**

B Brink mentioned that the technician from Xylem/Wedeco was on site that day to do scheduled service. He could not identify the cause of the erratic UV dosage spikes that have occurred consistently at twelve hour intervals around 2 am and 2 pm. The spiking briefly causes over dosing which is not a problem and no permit limits are violated. The testing of the programming changes to the UV system (i.e. closing of the UV channel effluent gate when UV dose is below permit limit) has to be done.

M Nesin asked about the UV transmittance (UVT) sensors. W Brink said that the new Hach UVT sensor has been installed as a trial and so far is working better. W Degnan said that the UPS/battery backup for the UV system PLC is pending. He also mentioned that the air-conditioning unit and the dryer for the compressor in the UV building have to be looked into. Xylem/Wedeco is recommending replacing the pneumatic actuators for the lamp wipers with newly designed units.

W Brink stated that there have been no excursions of permit due to a malfunction of the UV system in over a year following the change in system programming and upgrade of UV equipment, and except for some occasional spiking of UV dose has been running the way it should in auto mode. He also mentioned that the 2011 Notice of Violation for the UV system bypass has been closed out by CT DEEP.

#### **5. Update on engineering design/studies**

P Chakravarti provided the following update to the committee:

**a. Dyke Lane pumping station upgrade.**

The Federal Economic Development Administration has indicated that they would like us to bid the entire scope of upgrading the pump station and not just the standby generator. The entire scope is estimated to cost \$2.8 million. We/City risks losing the \$800,000 EDA grant. The City has to provide bond funds for about \$2.0 million.

**b. Blower Replacement and Dissolved Oxygen Control.**

Wright-Pierce Engineers have been asked to evaluate making modifications to the air distribution piping as an interim step to gain better control of the air supply to the aeration tanks and allow the running of just one blower. This will reduce the dissolved oxygen in the aerobic zone and in the nitrate recycle to improve nitrogen removal, reduce methanol usage and save energy.

**c. SCADA System upgrade.**

The SCADA system is in design.

**d. Infiltration and Inflow (I/I) Analyses**

There hasn't been significant rain events to identify the critical drainage basins for the pilot SSES work.

**e. Wedgemere Road area sewers**

Cardinal Engineers have requested additional fees of \$20,500 for their additional costs in making changes to the design plans for the easements at Emerald Lane and Eden Road. W Brink and P Chakravarti recommended approving the additional fees. The additional services were approved 2-0-0.

**f. Perna Lane area sewers**

The project engineers Tighe & Bond have submitted a set of 95% complete plans and specifications for our review.

**6. Update on construction projects – P. Chakravarti**

**a. UV tank walkway replacement**

The contractor Specialty Construction Systems will start work beginning Thursday, May 14, 2015 to demolish the concrete walkway and install aluminum grating.

**b. Sludge transfer pumps**

The contractor R.H. White will start work beginning Tuesday May 26<sup>th</sup> 2015 to replace the sludge transfer pumps in the thickener building.

**7. Old Business**

There was no old business to discuss

**8. New Business**

There was no old business to discuss

There being no other issues to discuss M Nesin made a motion to adjourn the meeting, seconded by D Capano, motion carried 2-0-0. The meeting was adjourned at 6:55 pm.