



## TECHNICAL COMMITTEE MEETING MINUTES

Wednesday July 15, 2015

3<sup>rd</sup> Floor Conference Room

Building 11, 111 Harbor View Avenue

Stamford CT 06902

5:30 pm

Daniel Capano	Chairman, Technical Committee
Edward Kelly	Committee Member
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
Peter Scorziello	Synagro Inc.

### 1. Call to Order and Roll Call

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

#### Approval of June 15, 2015 Technical Committee Meeting Minutes

M Nesin made the motion to approve the minutes of the meeting for June 15, 2015.

Seconded by E Kelly. The motion carried 3-0-0.

- As indicated in the June 15<sup>th</sup> 2015 meeting minutes M Nesin asked if the trial for the UV transmittance monitoring was completed. W Brink said that trial was completed and the staff has recommended purchasing the unit.
- M Nesin asked if the compressor in the UV controls was fixed. W Degnan said that Xylem has recommended that the compressor's dryer be replaced with a different type of unit. He is considering buying a new dryer for \$900.
- M Nesin wanted to know if the cleaning of the odor control scrubber at the solids processing was completed. W Brink said that the cleaning will be completed the week of July 20<sup>th</sup> when the dryer is down for the capital repairs.
- M Nesin asked if the Wright-Pierce had submitted their preliminary design report for the blower upgrade. W Brink said that it is expected to be submitted next week.

### 2. Selling dried sludge pellets to Nutrico, Inc., Bridgeport, CT for blending and resale as a fertilizer – P Scorziello, Synagro, W. Brink

P Scorziello stated that CT DEEP had prohibited the selling of Biosolids generated within Connecticut, although Biosolids generated outside the state were brought into Connecticut for sale as fertilizer, such as Milorganite™. Until now Stamford's dried

sludge pellets were being sent to New York State for land application as a fertilizer on dairy farm pastureland. Recently Synagro explored other options to market the pellets. They contacted NUTRICO Turf Products, Bridgeport, Connecticut to see if they would be interested in blending the Stamford pellets and marketing it. NUTRICO has expressed their interest in purchasing the pellets for blending and bagging as a commercial fertilizer in a letter of intent.

Synagro and SWPCA had submitted an application to CT-DEEP for using the pellets for beneficial use. CT DEEP advised that they would not approve the beneficial use application, but would permit it for energy use or to conduct a demonstration project. Synagro and SWPCA met with CT DEEP where Synagro noted that the pellets are processed product and not a waste product. Also The State of Connecticut does not have Supremacy over Federal 503 rules, which permit the land application of grade A biosolids with pathogen reduction and low metal levels. At the meeting CT DEEP acknowledged that there were no federal or state laws or regulations that would prevent the distribution of Class A biosolids of exceptional quality (EQ) such as SWPCA's. As such, it was understood that we can distribute the dried sludge pellets in CT.

Synagro registered the sludge pellets with the Department of Agriculture as 5 parts Nitrogen 3 parts Phosphate and 0 parts Potash fertilizer. Nutrico has the capacity to blend the pellets with other fertilizers to produce twenty five tons per day of commercial fertilizer. D Capano asked how much would the pellets sell for. P Scorziello said the price has not yet been determined. W Brink added that SWPCA's contract with Synagro allows for a 50/50 share of revenue in excess of \$5.00 per dried ton.

**3. Update on Capital Improvements to Sludge Dryer – P Scorziello**

P Scorziello informed the committee that beginning Friday, July 17, 2015 they will start dismantling the drum and the regenerative thermal oxidizers-RTO to prepare for the two vendors to start working on the RTO and the burners in the drum Monday morning on July 20, 2015. He anticipates all work will be completed by July 27, 2015. He will provide the SWPCA with a daily progress report.

**4. Xylem UV operational issues: circuit breaker tripping, air compressor dryer – W Degnan**

W Degnan gave a handout (attached) on the Xylem UV Operational issues. He explained a new compressor dryer was recommended by Xylem which has been ordered.

W Brink indicated that \$4.5 million has been allocated in the capital improvement program for a new UV system, with design to be completed in FY 17 and construction completed by FY 19. M Nesin asked if that would be a backup to the current system. W Brink said that it would be a totally new system with the addition of a third channel for redundancy per current design guidelines. Currently there is no redundancy in the system at peak design flow.

M Nesin commented that he was interested in knowing about the impact of the non disinfected discharge that recently occurred. He asked for the pathogen/bacterial measurements prior to and after UV disinfection and in the East Branch of Stamford Harbor (receiving water). Upon reviewing the test results he was pleased to find out

that after a rain event the harbor upstream of the plant discharge has bacteria levels that are almost five times that in the un-disinfected effluent from the treatment plant.

#### **5. Odor Control – W Degnan**

W Degnan said that the mechanics have replaced the recirculating pump for the odor control scrubber at the primary clarifiers. W Brink mentioned that once he gets the design information from the engineers for the total head and flow for the recirculating pumps for the scrubbers at the solids processing and raw sewage pump station the recirculating pumps will be ordered.

D Capano commented that on July 1, 2015 a day before the Stamford fireworks there was significant odor and was very concerned. Upon inquiry he was informed that the rag & grit trailer had not been picked up. The operators sprayed the trailer with the odor masking agent and the trailer was later taken away that day. There was no odor on July 2, 2015.

#### **6. Update on engineering design/studies – P Chakravarti**

P Chakravarti had the following updates:

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

Supplemental appropriation has been submitted to create separate City funding for the upgrade of Dyke Lane Pump Station. As of this date it has not been approved by the City Boards. The Grants office will be requesting the Federal Economic Development Administration to reduce the scope of the project or seek a time extension until all funds are in place for the complete project.

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

W Brink said that Wright-Pierce Engineers will be submitting their preliminary design the week of July 20<sup>th</sup>.

**c. Flow Distribution to Final Clarifiers**

Engineers Hazen & Sawyer have submitted their price proposal or designing the flow distribution to the final clarifiers. P. Chakravarti and B, Brink will review and provide comments.

**d. Sludge Degritting Study.**

The contract for the study phase will be presented to the SWPCA Board on Monday July 20, 2015 for approval of services and fees

**e. SCADA System upgrade.**

The SCADA system is in design. A draft of the Request for Qualifications for hiring the integrator is being reviewed by the WPCA.

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

CDM Smith engineers have identified areas of significant I/I, mostly in the downtown area. Additional flow meters have been installed to study the critical areas. Unfortunately there has not been an extreme rainfall event to get good I/I data.

**g. Wedgemere Road area sewers**

There has been no response from the property owners to grant the necessary easements. A second reminder has been sent requesting easements. P Chakravarti will try to meet the homeowners to address any concerns.

**h. Perna Lane area sewers.**

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

**i. Shed for the sludge trailers.**

Prior to the committee meeting the members met on site to assess the feasibility of building a storage building for the sludge and screenings and grit trailers to contain the odors. Alternate locations were looked at and the area next to the odor control pad on the west side will be further investigated.

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

**a. UV tank walkway replacement**

The contractor Specialty Construction Systems has completed the new walkway pending site cleanup.

**b. Sludge transfer pumps**

The contractor R.H. White has installed all four new pumps and the pumps are being manually operated. Knapp Engineering will do the integration into the SCADA.

**8. Old Business**

E Kelly asked if any decision will be rendered on the sewer lateral issue at 65 Arden Lane. W Brink said that he will investigate the issue and present it to the Board on Monday July 20, 2015

**9. New Business**

There was no new business items to be included in the next month's agenda.

There being no other issues to discuss M Negin made a motion to adjourn the meeting, seconded by E Kelly, motion carried 3-0-0. The meeting was adjourned at 7:15 pm.