



TOWN OF KINGSTON
Office of the Sewer Commission/Wastewater Department
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Elaine A. Fiore
Peter C. Cobb
Thomas W. Taylor, Jr.

Minutes
September 24, 2009

A special meeting of the Board of Sewer Commissioners was held tonight to review the placement of the proposed wind turbine with Don Freeman of CDM and to review the progress on the design and permitting of the expansion of the WWTF. Members attending tonight were Elaine Fiore, Peter Cobb and Thomas Taylor. Daniel Sheehan attended as an interested resident and Ken Vandal, to represent the Wastewater Department.

Ms. Fiore called the meeting to order at 6:40 PM and asked Mr. Freeman what his opinion of the proposed turbine site was. Mr. Freeman stated that the 2 sewer main pipes will be in the way of the proposed turbine. These lines can be moved for a price. They would have to be shut down for a minimum of 3 to 4 hours. The Rocky Nook and Jones River pump stations would have to be shut down. The mains should be about 4 to 5 feet deep. If this site is chosen it should not impact the proposed expansion of the plant at this time. Any future expansion would have to work around it. What would happen to the WWTF if snow and ice falls from the turbine is unknown. What is the height of the lowest blade tip from the ground? Mr. Cobb estimated the lowest blade tip would be 130 feet off the ground. Mr. Sheehan confirmed this estimate. Figures used were the height of the turbine at the tip of the highest blade being 397 feet (Falmouth is similar model and is 397 feet) and each blade being 132 feet long. Mr. Freeman felt that the detention pond would need to be relocated to another spot. Some questions to ask would be whether power will be interfaced with the WWTF. The Sewer Commission has been told it would not be but this has not been confirmed. Where will the substation be and how large will it be? Mr. Freeman reviewed a preliminary diagram of the plant expansion and the potential site of the turbine was discussed briefly as it relates to the diagram.

The meeting was adjourned to the Green Energy Committee meeting at 7:00 PM.

The regular meeting was reconvened at 8:30 PM.

Discussion shifted to the WWTF expansion. Mr. Freeman indicated that SBR 3 will be located next to SBR 2. The building extension will extend into the current parking lot and will contain a 2nd GBT and sludge tank, locker rooms and office space. The current septage receiving will be enclosed for a septage plant and will include a holding tank, probably the existing tank. There will be a 4-bay garage where the current 2 bio-filters are located. One bio-filter will receive a retrofit with a new packaged bio-filter technology. The drying bed was shown in a temporary location and can be relocated. If another headworks is needed in the future it could be placed next to the existing headworks and close to the proposed highway ramp. There currently is no parking shown on the plan and it will need to be provided. CDM has not decided on an aeration system for the new SBR yet. Mr. Vandal said he had toured the Falmouth WWTF and they have a tube system with micro-holes on them. They have 6 grids that can be raised and lowered on poles to maintain them. He did observe that the mixers were not anchored on the middle of the tanks. He would like CDM to consider an aeration system that doesn't require taking a tank down to maintain it.



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Mr. Freeman discussed that the first design memo had been sent out and that it gives the projected capacity of the WWTF. He would like Mr. Vandal to comment on this memo as soon as possible. CDM has estimated that the plant should be able to take an average of 13,000 gallons of septage per day in addition to the additional 125,000 gallons in a new SBR. CDM designs around the maximum day flow. Phase 1 and Phase 2 has a lower maximum day flow than what it is designed for so a smaller peaking factor was used for the expansion. Mr. Vandal should comment on this.

MEPA and DEP have spoken with CDM. DEP wants an Environmental Notification Form (ENF) completed. This will take about 100 hours of work. The current budget was for 40 hours of work. An ENF would say that the Davis site has been looked at before and ask what DEP would want done at this time. An ENF could result in the need for an Environmental Impact Report (EIR), a Notice of Project Change (NPC), or similar report. DEP might allow a 3rd SBR for redundancy as long as the Sewer Commission was not taking on any additional flow. Mr. Freeman advised putting the ENF on hold for now as there are still many factors that are unknown regarding what Thorndike Development will do with the Davis property and the 40R development. Ms. Fiore stated that Mr. Geisinger would be attending the Sewer Commission meeting on October 20, 2009 to discuss an amendment to the original agreement signed with the Sewer Commission. Mr. Freeman reminded the Board that Thorndike has a purchase and sale agreement for the Davis property and that the Sewer Commission would not be able to move forward with any permitting unless the parties agree to it. Ms. Fiore said this would be brought up on October 20, 2009.

Mr. Freeman reviewed that CDM is working on the 20% preliminary design and architectural layouts and that Ben Mosher is the design engineer. Mr. Vandal asked if the raw sampler and effluent sampler could be relocated from the basement of the WWTF to the headworks building. The sump pumps just do not handle the flow properly the way it is set up now. The soda ash line is blocked and cannot be flushed out. This should be replaced with a line that allows the soda ash to be pumped.

Mr. Freeman said he would look into these issues and make the necessary changes. They will complete the 20% design for the Sewer Commission and Mr. Vandal to review further.

MOTION, by Elaine Fiore, to adjourn the meeting at 9:15 PM. The motion was seconded by Peter Cobb and unanimously voted.

Suzanne Richards
Administrative Assistant