



TOWN OF KINGSTON
Office of the Sewer Commission/Wastewater Department
26 Evergreen Street
Kingston, MA 02364

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Elaine A. Fiore
Peter C. Cobb
Thomas W. Taylor, II

Minutes
Sewer Commission at DEP
July 8, 2010

The Board of Sewer Commissioners met with DEP at their Lakeville office located at 20 Riverside Drive at 11:00 a.m. today. Members in attendance were Elaine Fiore, Peter Cobb and Thomas Taylor. A list of attendees is attached to these minutes for your reference.

Documents distributed to the Sewer Commission were:

- Meeting Agenda
- Email from Alan Slater to David Young to Elaine Fiore

Copies of these documents are on file in the Sewer Commission office.

Ms. Fiore began the meeting promptly at 11:00 a.m. She reviewed that the Town of Kingston has plans to reconfigure the Transfer Station and that this proposed project will provide a good opportunity to discuss installing an additional leaching field on the site to accommodate future effluent discharge needs. The Solid Waste department is agreeable to the idea and is willing to coordinate their engineering with CDM's engineering of the proposed leaching field. The Sewer Commission is also interested in constructing a 3rd SBR at the Wastewater Treatment Facility (WWTF).

Don Freeman stated that he worked for CDM and that he and David Young had met with Alan Slater, of DEP, last week regarding this matter and the meeting to be held today. His comments were distributed to the Sewer Commission and to some members of DEP at an earlier date.

Mr. Freeman continued that in 1998 CDM did an Environmental Impact Report (EIR). They studied several disposal sites and at that time the Transfer Station was assessed. They determined that the disposal of 350,000 gallons per day (gpd) of effluent would not cause the groundwater to rise in adjacent areas. The cranberry bog across Route 3 is no longer active. Any change in the water level at the bog would be controlled by a weir. The bog would not be impacted. The developer of the Indian Pond Estates development offered to construct the disposal site in the area of his proposed driving range of the proposed golf course. The Final EIR approved this site as the disposal site. The Town of Kingston would like to add a 3rd SBR to the WWTF to allow for operational flexibility. It would add between 125,000 and 150,000 gpd of additional capacity for a total of between 475,000 and 500,000 gpd of discharge need. The current discharge site is permitted for 350,000 gpd. When the Transfer Station is updated, the Sewer Commission would like to pursue constructing an additional disposal site in this area. It was originally



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approved as a back-up disposal site for 350,000 gpd. The Town would be proposing to dispose of about 150,000 gpd. The hydrogeological studies are already complete. The flows originally estimated would be less now.

- Figure 6-1 and Figure 6-2 from the original EIR were reviewed. Copies of these documents are on file in the Sewer Commission office.

Mr. Freeman continued that the Sewer Commission would be looking for DEP recommendations and an estimate of how much time it would take to approve this site. Mr. Freeman pointed out the cranberry bog, transfer station and current WWTF on Figure 6-2.

It was discussed that an Environmental Notification Form (ENF) would be required for any kind of changes proposed. Mr. Young reviewed his discussion with Alan Slater. He agreed that an ENF would be mandatory. MEPA would be a determining factor regarding what works will need to be done.

DEP asked whether the original plan was for 2 SBRs. That was confirmed, however, now that the Thorndike 40R project has been withdrawn the Sewer Commission is only planning to add 1 SBR.

The Davis property was evaluated in 1998 also. This property would have been used as the disposal site if the 40R project had moved forward. The Town is still interested in this property as a potential 3rd disposal site. The original study found that the land was virtually the same as the current Indian Pond disposal site.

At this time, it seems prudent to take advantage of the Transfer Station site. It would save additional costs due to the proximity to the WWTF. DEP stated that a Section 61 site assignment would be involved at the Transfer Station.

Jeff Gould, of DEP, asked if the Town was still interest in including reclaimed water in the Groundwater Discharge Permit (GDP). The Sewer Commission is not interested in including it in the GDP due to the cost of running the UV system, but they are not prepared at this time to make a decision on excluding it. Mr. Young asked if the existing reuse conditions are grandfathered or whether DEP could impose more stringent requirements upon renewal of a GDP. Mr. Gould stated that if changes to the existing conditions were proposed to be imposed, that the Town would be receive correspondence about it.

Joseph Shepherd, of DEP, asked if adding another 150,000 gpd of flow to the WWTF would require modifications to the pump stations. He was told that it would not. Some changes have been made as part of Phase 2 sewer and some minor modifications might be done at the larger stations. Changes will be required at the WWTF.

Mr. Gould discussed that since the Transfer Station site was originally approved for 350,000 gpd of disposal it would make sense to go for a larger GDP than 150,000 gpd. It would allow for any future need.



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It was mentioned that there has been some discussion of changing how solid waste facilities are permitted.

Mr. Cobb asked if a 3rd SBR could be added to the WWTF without the construction of additional disposal capacity. He was told that it could be done but that the Town would still be limited to the permitted disposal amount.

Kenneth Vandal, Wastewater Superintendent/Chief Operator, discussed that he has an ongoing problem with the diffusers in the SBRs. He is looking to replace them with a Sanitaire system. It is difficult to maintain the diffusers because one tank has to take on all the flow while the other tank is taken down. The cost to replace just the diffusers is about \$10,000.00 each time.

Since the hydrogeological work is complete, the cost of permitting will be reduced a great deal. Once a GDP application is approved, it would be good for 5 years. There would be a 5 year time span to construct the new leaching fields.

Mr. Shepherd asked if an energy audit had been done at the WWTF recently. Mr. Vandal stated that one had been done about a month ago and that they recommended that VFDs be placed on the effluent pumps and odor control system and also on some of the lift station pumps. The changes would cost about \$120,000.00 but would save about \$30,000.00 annually. NStar may cover 50% of the cost. They did not comment on the blowers.

Mr. Young questioned whether the State Revolving Fund (SRF) application would approve the leaching fields work. Mr. Keith, of DEP, suggested that the application that was not accepted for the current round be resubmitted this year with added documentation. Mr. Young added that the Town would be looking to coordinate the leaching field permitting with the Transfer Station permitting and that the projected construction date was currently 2012.

Discussion returned to the original study. If there was additional groundwater flow to the bog and there was any phosphorus in the effluent, it was expected to dissipate before it reached the bog. The added groundwater flow would be controlled by the weir. The estimates were based on the original 350,000 gpd being proposed for disposal. These numbers would be reduced.

Jonathan Hill, of DEP, mentioned that Kingston Bay was considered an Impaired Water Body. Nitrogen level limits in the discharged water may be reduced from the current GDP requirement of 10 or less. Mr. Vandal commented that current readings are always far below 10. Mr. Hill said that they would review the requirements based on the amount of additional flow. There would be offsets based on the amount discharged, not on the total discharge capacity, until the WWTF actually is discharging the total permitted amount.

Mr. Shepherd asked if the Sewer Commission had considered taking the flow from the Mall and using their leaching field as a discharge site. Ms. Fiore said she



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had spoken with Mall management and they were not interested in connecting to the WWTF.

Mr. Shepherd commented that the Town might want to consider requiring low flow fixtures in order to reduce sewer flows.

Mr. Vandal asked about the Stop & Shop Plaza. The owner wants to reuse their abandoned WWTF and add additional retail space to the building. This would add more retail space to the Plaza. Their WWTF was not evaluated for sewer flow in Phase 2 sewer. The plans were to abandon the WWTF. The Sewer Commission feels the Plaza should be evaluated using current Title V flows of 97 gpd/1000 SF for Supermarkets instead of the old retail calculation of 50 gpd/1000 SF. They are adding onto the Plaza and asking for new flow that did not exist when the Plaza was assessed sewer flow in Phase 2 sewer. Based on current Title V, the Plaza would already be over the assessed flow and the addition puts them over even more. Mr. Gould commented that the Plaza has a permitted amount of flow and they have to work within their permit. It is a decision for the Sewer Commission.

Ms. Fiore thanked everyone for attending and for the information provided. The Sewer Commission will work with CDM & MEPA to move forward with the permitting.

The meeting concluded at 12:10 P.M.

Suzanne Richards
Administrative Assistant