

SEPTEMBER 2, 2014

Minutes of special meeting of the Municipal Services Commission held September 2, 2014 at the office of the Commission, 216 Chestnut Street. The meeting was called to order at 5:00 P.M. with Robert S. Appleby, President, Commissioner, presiding.

Attendance Report:

Present: Robert S. Appleby, President, Commissioner
Daniel F. Knox, Commissioner
Dr. Roy J. Sippel, Commissioner
Pamela A. Patone, Secretary

Also in attendance: Jay Guyer, Water Supervisor and Ryan Jaeger, Assistant Water Supervisor

Commissioner Appleby began the meeting and questioned who would be reviewing the options for the temporary carbon filtration systems. Secretary Patone advised that Supervisor Guyer would review the process of evaluating the possible suppliers of the temporary carbon filtration system and the summary spreadsheet provided to the Commissioners. Supervisor Guyer indicated that Assistant Supervisor Jaeger had researched possible suppliers for a temporary carbon filtration system. He reported that Clean Harbors, Calgon Carbon, TIGG & TetraSolv were the four suppliers shown on the spreadsheet. He indicated that only one of the companies was able to manufacturer the vessel and also supply the carbon, which was Calgon. The other three companies must go to a second party supplier for the carbon. Supervisor Guyer contributed the research and follow up with the suppliers to Assistant Supervisor Jaeger. He indicated that staff looked at the different types of units and the sizing of the units. He advised that the suppliers were provided with the specifications of the Commission's system and that the unit would need to operate with one of the wells, specifically the School Lane well. He communicated that this well would be the well that would require the least amount of work and interface best with the temporary system. Supervisor Guyer advised that the suppliers were advised that the system would need to be able to handle 400-600 gallons per minute running 24 hours per day. Commissioner Appleby questioned the average gallons per minute. Supervisor Guyer reported that the system averages 450 gallons per minute. A discussion ensued about the possibility of requesting that customers conserve water usage during the time the temporary system is in place. Commissioner Knox confirmed that Frenchtown Road Well and Basin Road Well would remain closed during the utilization of the temporary system and only School Lane well would be operational. Supervisor Guyer indicated that was correct. Assistant Supervisor Jaeger indicated that if necessary temporary piping could be done for the other two wells. He reminded the Commissioners that School Lane well would also need temporary piping in order to interface with the system. Supervisor Guyer indicated that School Lane was the only well that would not require excavating in order to set up the above ground piping and interface with the vessel.

Supervisor Guyer continued to review the cost summary of the possible temporary options. He

advised that based on discussion of timing for a permanent solution, the analysis was prepared assuming eight months of a temporary solution. He went on to report that the rental cost, set up and removal cost, spent carbon cost and possible additional carbon cost were considered in the analysis. He said that there were costs associated with freeze protection of the unit and crane rental that would be necessary to set and remove the vessel. Supervisor Guyer indicated that he had consulted with AC Shultes to confirm that the pumps at the well would work with the system therefore, there was no additional cost expected with the pumping. He advised that additional influent and discharge piping would be required. He indicated that the Calgon Carbon system would require a concrete foundation. He went on to report that lab costs to test the spent material were included in three of the supplier's quotes but not Clean Harbors. Supervisor Guyer went on to communicate that staff included in the cost analysis the operating costs that would be incurred by operating the temporary carbon system that are not required during the time that water is being purchased from Artesian Water Company. He indicated that chemical costs, electric costs to run the pumps and lab costs to test for the contaminants were all costs that were avoided by purchasing treated water. He went on to report that insurance cost to insure the rental units were also included in the analysis. Supervisor Guyer indicated that the City Inspector Jeff Bergstrom advised him that there would not be any permitting fees; in addition, the Office of Drinking Water would not require any fees. Assistant Supervisor Jaeger noted that in the analysis of the temporary carbon filtration systems staff put in the cost of an additional carbon unit. He advised that all the suppliers believed that one supply would be sufficient in an eight month period but in the analysis staff included the cost of a second supply of carbon. Secretary Patone explained that to compare the cost of the temporary system to the purchase of water she took a conservative approach on the possible need for additional carbon. Commissioner Sippel questioned the 8 month time period. Supervisor Guyer explained that Calgon Carbon indicated that the development of a permanent filtration system would be approximately five months. He advised that staff felt that engineering would take approximately one to two months and with possible weather issues that may delay preparation, eight months seemed an appropriate estimate. Commissioner Sippel questioned whether Calgon Carbon would be able to provide engineering or whether the Commission would hire engineering. Supervisor Guyer indicated that Calgon designs the vessels but not the pumping and piping. Commissioner Sippel questioned the adequacy of the space for the system. Supervisor Guyer communicated that based on his preliminary assessment that the basic footprint of the system would be able to be placed within the fenced in area of the School Lane Treatment Facility, but he advised that the engineering design would have to be completed. Commissioner Sippel questioned the difference between the temporary system and the permanent system. Supervisor Guyer explained that the temporary system will be utilized before the aeration process. He advised that the permanent filtration system will have the water pumped into the aerator first in order to remove the volatile organic compounds before going through the filtration system. He went on to explain that the permanent solution would be designed to accommodate approximately 1,000 gallons per minute versus the 400-600 per minute with the temporary system. He indicated that the permanent solution could be two to four vessels. A discussion ensued regarding the capacity needed to meet the water demands currently and potential future needs. The Commissioners were provided with pictures of vessels and a discussion ensued regarding the carbon weight and cost. Assistant Supervisor Jaeger advised the Commissioners that Clean Harbor indicated that they would need ten weeks to build a rental vessel, he went on to report that Calgon indicated that they could provide a unit in four weeks and that due to the common use of Calgon in the

industry that Artesian Water Company specs all their carbon filtration systems through Calgon. He went on to report that TIGG was not as universally utilized in the industry and they had a different type of carbon media. He advised that through his research Calgon carbon media is noted as the media utilized to address the PFOS & PFOA. He went on to report that Tetra Solv is a small company out of Indiana that utilizes Cabot media and the vessel that was available would only handle 400 gallons per minute. He indicated Tetra Solv would not have a larger vessel for many weeks. Assistant Supervisor Jaeger indicated that several of the suppliers were receptive to possibly providing cost savings on the permanent system if their temporary system was utilized. He also advised that Calgon was a local company located in Pennsylvania. Supervisor Guyer indicated that based on their research Clean Harbors primary focus is with industrial water supply needs. He advised that the Office of Drinking Water requires that the system be NSF61 & FDA approved and when this was discussed with Clean Harbors they indicated that they did not have that type of vessel available and would need ten weeks to provide a vessel to meet those standards. Supervisor Guyer advised that TIGG was the highest cost supplier because the vessel that they utilize is a 1,500 gallon per minute which is larger than the Commission's requirements. Commissioner Knox questioned whether the larger vessel with TIGG would allow for less often carbon exchange. Supervisor Guyer indicated that he did not believe for the temporary system the extra capacity was necessary especially for the additional cost. He went on to report the other three quotes were very close in cost and after taking into consideration timing, proven supplier and cost Calgon was the option that staff was recommending to the Commissioners for approval.

The Commissioners questioned the supervisors regarding the permanent solution and Supervisor Guyer indicated that 1 system which consists of 2 vessels would be approximately \$250,000, in order to get the full possible capacity of the City's system it would require 4 vessels at \$500,000 which did not include the engineering, clear well, repumping the water or a protective structure. Supervisor Guyer reminded the Commissioners that there would be on-going operating costs such as carbon replacement that would need to be budgeted for in future years. Commissioner Sippel noted that for the permanent solution an estimate of the possible growth in water requirements will need to be determined so that a decision could be made on how many vessels will need to be purchased. Secretary Patone agreed and advised that the assessment for the permanent solution would include those considerations. She advised that based on the temporary solutions cost analysis that the numbers clearly indicate that renting a filter system would be more cost effective than purchasing water from Artesian Water, so she was requesting a vote to agree to move forward with the Calgon Carbon system. Secretary Patone indicated that she would also like to move forward with an assessment from Pennoni Associates regarding the alternatives for the permanent solution. Commissioner Sippel indicated that he felt that the vendors should be able to provide discounts on the permanent solution if they were awarded the temporary solution. Secretary Patone indicated that staff would be having those discussions when requesting quotes for the permanent solution.

Upon motion made and unanimous approval, the Commissioners voted to approve the Calgon Carbon filtration system for the temporary solution to the perfluorinated compound removal

Secretary Patone indicated that the Commission has been utilizing Dan Barbato, from Pennoni Associates engineering firm for the past two years as part of the Washington Street Del DOT

project. She requested that Supervisor Guyer communicate Mr. Barbato's experience with carbon filtration systems. Supervisor Guyer advised that Mr. Barbato had worked previously with Artesian Water Company and had designed several carbon filtration systems and therefore, had a lot of experience with their operations. Supervisor Guyer indicated that an alternatives analysis could be done to assess the options that would be suitable for the Commission's treatment system. He advised that the analysis would include review sizing options, vendors, costs and the interface to the current system. He informed the Commissioners that the analysis would also be the basis for a preliminary engineering report (PER) which is what is required for grant requests. Supervisor Guyer presented a quote for \$7,500 from Pennoni Associates to prepare the alternatives analysis. Commissioner Appleby questioned whether plans would be necessary. Supervisor Guyer indicated that the plans would not be part of this analysis but would be necessary in order to implement changes to the water treatment system. He advised that this preliminary assessment was to assess the option of how to interface the current treatment system with the new portion that needs to be added, where the influent and discharge piping will be placed, whether to add a clear well, what pumping will be required. Assistant Jaeger indicated that in addition there will need to be electrical engineering work for the pumping and SCADA in addition consideration needs to be given to whether a structure will be required to house a portion of the new treatment system or some of the equipment. He advised that because of all these considerations the costs can be significant. Supervisor Guyer indicated that he has been very pleased with Pennoni Associates working relationship over the past couple of years and that because of Dan Barbato's experience with carbon filtration systems with Artesian Water his experience would be valuable. Secretary Patone advised that the staff has a meeting with the USDA regarding possible funding on Thursday of this week and that the Commission's engineer should be present at the meeting. Commissioner Sippel questioned the fact that the EPA does not have the final regulated limit determined since there is only a provisional health advisory limit. Supervisor Guyer agreed and indicated that the provisional health advisory is the limit that the Commission needs to treat the water. Commissioner Knox questioned the restrictions that the Commission would be required to follow if government funding is received. A discussion ensued regarding the possible funding options for the filtration system. The Commissioners questioned whether Pennoni should go straight to the design of the final system. Supervisor Guyer indicated that the assessment would provide to the Commission the first part of the work that would need to be done from engineering and that it was an important first part. The Commissioners questioned whether the engineering would go out to bid. Secretary Patone indicated that the Commission had been utilizing Pennoni as their engineer and that they had the expertise required to perform the task.

Upon motion made and unanimous approval, the Commissioners voted to engage Pennoni Associates services for an alternatives assessment for \$7,500.

Supervisor Guyer reported to the Commissioners that a flange broke in the interconnection piping in the School Lane Treatment Facility a preliminary cost of the repair will cost \$1,500.

Commissioner Appleby thanked Supervisor Guyer and Assistant Supervisor Jaeger for their work and they left the meeting.

EXECUTIVE SESSION

Upon motion made and unanimous approval, the Commissioners voted to go into Executive Session to discuss a personnel matter

Upon motion made and unanimous approval, the Commissioners voted to return to a General Session.

GENERAL SESSION

Secretary Patone reported that the auditors, Horty & Horty had communicated to her that they wanted to discuss the timing of the financial statement audit report and the well shut down due to the perfluronated compound contamination. She indicated that she answered their questions and they advised they would be back in touch.

ADJOURNMENT

By motion made and unanimous approval, the Commissioners voted to adjourn.

Approved 10-27-14
Date



Pamela A. Patone