

Minutes of Meeting #522, June 22, 2015 – Stony Brook Regional Sewerage Authority

LOCATION: Conference Room, River Road Plant, Princeton, NJ

MEMBERS PRESENT: Bartolini, Compton, Downey, Goldfarb, Morehouse

MEMBERS ABSENT: Patel

CONSULTANTS: Alexander

STAFF PRESENT: Bixby, Carlino, Irizarry, Kantorek, Kunert, Neuhof, Pchola, Rahimi, Roga

522.01 Chairman Bartolini indicated that pursuant to Section 13 of the Open Public Meetings Act, adequate notice of the time and place of this meeting was given by filing with the Authority's official newspapers, each Clerk of each municipality and by being posted on the Princeton Bulletin Board and on the Authority's website.

522.02 Approval of Minutes

Chairman Bartolini asked for comments and/or questions on the minutes of the May 26, 2015 Board meeting. Mr. Kantorek indicated that one correction needs to be made to the minutes. On page 13, the resolution number, 2015-32, was omitted from the resolution. The minutes were then approved as amended on a motion by Dr. Downey, seconded by Mr. Morehouse and passed by a vote of 5 to 0.

522.03 Board Related Activities

Consultant List

The consultant list was provided for information. Mr. Kantorek indicated that there are two contracts pending award tonight: TRC for an Odor Evaluation and Kleinfelder for the MA Effluent Mixer.

522.04 Planning and Administration

Mr. Kantorek reported that the most current 12-month average daily River Road plant flow is 9,092,167 gpd with 981,079 gpd of approved but inoperative flow for a total committed flow of 10,073,246 gpd with 2,986,754 gpd or 22.87% of available capacity. The most current 12-month average daily flow at the Hopewell Plant is 217,701 gpd with 1,200 gpd of inoperative flow, for a total committed flow of 218,901 gpd with 27.03% or 81,099 gpd of available

capacity. The Pennington Plant presently has 238,422 gpd as the most current 12-month average daily flow, with 18,398 gpd of approved but inoperative flow, for a total committed flow of 256,820 gpd, with 14.39% or 43,180 gpd of available capacity. Mr. Kantorek noted that the inoperative flow total for the Pennington Plant is the unused portion of Bristol-Meyers Squibb approved flow.

Mr. Kantorek noted that it has been approximately three and a half years that the 12-month moving average flow at River Road plant is under the straight-line projection. A discussion followed. The average flow from March 2015 to May 2015 for the River Road WWTP went from 14.2 mgd to 7.9 mgd. Mr. Kantorek noted that the reported available capacities at all three treatment facilities are higher than their true available capacity due to the continued dry weather conditions. The Board also discussed Inflow/Infiltration (I&I) and how municipalities can reduce I&I.

Mr. Kantorek indicated that on July 6, 2015 he and Mr. Compton will attend a meeting with the Pennington Borough Council to provide an update on the upstream plant expansion. Mr. Kantorek reported that new permits were received for both upstream facilities. One permit had a major modification. Pennington has a limit for TDS and both permits contain limits for Nitrates. Mr. Kantorek indicated that if the NJDEP implements the tiered use system both the TDS and Nitrate limits would be eliminated. NJDEP has not yet moved forward/published the tiered use proposed rule. However, SBRSA is moving forward with the process evaluation, with and without Nitrates, for the upgrade and expansion of the upstream facilities.

#### Monthly Flow Transmittal

The monthly flow transmittal for May was provided for information.

Mr. Kantorek noted that two adjustments were made for the month.

At South Brunswick Pump Station, the meter verification conducted on May 1, 2015 indicated that the low range meter was reading low by 1.75%. The meter certification conducted on June 1 indicated that the low range meter was reading low by 3.62%. All meter data for the month of May was within the low range meter. Therefore the meter data for the month of May was adjusted upward by 2.685% which is the average of the May meter verification and the June meter certification

At the Pennington Influent Meter, the meter verification conducted on May 1, 2015 indicated that the meter was reading low by 0.06%. The meter certification conducted on June 1, 2015 indicated that the meter was reading high by 5.07%. Therefore the meter data for the month of May was adjusted downward by 2.505% which is the average of the May meter verification and the June meter certification.

## 522.05 Approval Requests and Actions

### TWA-1 Approvals

#### **Chabad Lubavitch of Mercer County, Block 2701, Lot 3, Princeton**

Ms. Pchola reported that this application is for the construction of one structure that will serve two functions: (1) a synagogue and (2) a residence for the Rabbi and his family. The proposed project includes a sewer extension consisting of 596 linear feet of 8-inch diameter PVC pipe and therefore requires approval from NJDEP and SBRSA.

1	6-bedroom unit	300 gpd/unit	300 gpd
54 seats	Assembly House of Worship	3 gpd/seat	162 gpd
<b>Total Flow</b>			<b>462 gpd</b>

Ms. Pchola indicated that the TWA has been endorsed by the Princeton Sewer Operating Committee (PSOC) and approved by the Princeton Zoning Board of Adjustment for Conditional Use Variance Approval, Dimensional Variance Approval, Waivers, and Preliminary and Final Site Plan Approval.

Staff recommended approval of this application at the requested flow. So moved by Mr. Goldfarb, seconded by Dr. Downey and passed by a vote of 5 to 0.

### Time Extensions

None.

### NJPDES Enforcement Requested

None.

### Water Quality Management Plan Amendments

None.

## 522.06 Regulatory Report

### Discharge Monitoring Report (DMR)

Mr. Rahimi reported that the Discharge Monitoring Reports for the month of May were submitted to the NJDEP. No violations were reported at any of the three plants.

### Residual Discharge Monitoring Report (RDMR)

Mr. Rahimi indicated that the March 2015 RDMR was submitted to the NJDEP. All River Road parameters were compliant with the Authority's Air Permit requirements.

Mr. Rahimi noted that staff is in the process of reviewing the April RDMR.

Mr. Rahimi indicated that the semi-annual Residuals Discharge Monitoring Reports for Hopewell and Pennington were submitted to the NJDEP. The results were within the expected ranges for both facilities.

### Air Reporting

Mr. Rahimi reported that the annual RATA for the CEMS for all four operating scenarios was completed on June 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> by Industrial Technical Services Inc.

Mr. Rahimi indicated that KEMS LLC prepared and submitted the Annual Emission Statement for 2014. The report was submitted utilizing the NJDEP online portal.

### Laboratory

Mr. Rahimi indicated that on June 3, 2015 staff received a letter from the NJDEP Office of Quality Assurance (OQA) containing the deficiencies found during the on-site audit of the Hopewell and Pennington labs (Small Lab Facilities). The audit was performed on March 24, 2015. A copy of the letter was provided to the Board. These deficiencies have been addressed and proper documentation will be forwarded to the OQA. The chlorine issue has not yet been addressed.

Mr. Kantorek explained that the technical issues were addressed however, NJDEP's letter also contained a paragraph from a letter dated September 2014 from the EPA regarding using the most sufficiently sensitive method of testing. The Authority's current method used for chlorine testing is not meeting these new rules. Staff will discuss this matter with Ms. Alexander, Counsel for the Authority, and draft a letter to the NJDEP regarding this matter.

Mr. Rahimi noted that staff received a letter from the NJDEP OQA validating the 2015 Proficiency Test Study results. A copy of the letter was provided to the Board.

### Miscellaneous

Mr. Rahimi reported that the Quarterly Capacity Assurance Program report for the period March 1, 2015 through May 31, 2015 was submitted to NJDEP on June 5, 2015. A copy of the report was provided to the Board.

## 522.07 Safety

Mr. Irizarry reported that there were no lost time accidents/injuries for this reporting period.

Mr. Irizarry explained that as discussed at the May Board meeting on May 20, 2015 an employee was injured when he slipped and fell in the polymer area of the Operations Building basement. The employee was treated for a knee injury and placed on modified duties until cleared to perform normal work duties.

Mr. Irizarry noted that as of June 15, 2015 Stony Brook Regional Sewerage Authority has gone 1376 consecutive days without a “Lost Time Accident”.

Mr. Irizarry noted that the Authority received the Safety Achievement Award from the Commissioner of Labor and Workforce Development of the State of New Jersey. This award is given to a facility that has gone three consecutive calendar years without a Lost Time Accident. A copy of the award was provided to the Board.

Mr. Irizarry reported that on May 4, 2015 the Joint Insurance Fund (JIF) conducted a limited inspection at the River Road Facility. JIF also performed the annual review of the Authority’s safety policies. A copy of the report was provided to the Board.

Mr. Irizarry explained that on May 27, 2015 PEOSH conducted an inspection of the River Road Treatment Plant. A copy of the report was provided to the Board. Two citations were issued: 1) Update the confined space required permits which is currently being conducted. Once completed staff will be conducting training to update the procedures. 2) In regard to conducting confined space rescue training on a yearly basis, staff will begin the practice once the new employees begin work.

Mr. Irizarry reported that on June 9, 2015 PEOSH conducted an inspection of the Hopewell and Pennington Plants, all three Pump Stations and all metering stations. A copy of the report was provided to the Board. This report addressed the two issues that were reported on the River Road report and also included a citation for arc flash training. The training is required every two years which the employees had in 2013. Arc flash training will be scheduled in 2015. Staff provided the PEOSH Inspector with the documentation.

Training for this reporting period included:

- CPR/AED/First Aid training was provided by the Joint Insurance Fund (JIF) on June 5, 2015 for 2 employees.

## 522.08 Litigation

The Litigation Report was provided for information.

Ms. Alexander indicated that there was a change to the Litigation Report.

## New Source performance Standards for Sludge Incinerators Rule Proposal

Ms. Alexander reported that on June 3, 2015, the D.C. Circuit Court of Appeals dismissed all challenges to EPA's Non-Hazardous Secondary Materials (NHSM) Rule. In its decision, the Court found that USEPA's classification of sewage sludge as Resource Conservation and Recovery Act (RCRA) "solid waste" for the purpose of Clean Air Act (CAA) emission standards for incinerators and other combustion units was reasonable and within EPA's statutory jurisdiction, authority, and limitations. The Court held that neither the CAA nor the plain language of RCRA, nor court precedent, prevents EPA from defining solid waste to exclude certain non-hazardous secondary materials combusted for energy or used as an ingredient for fuel, and that the record reflects "that EPA engaged in reasoned decision making to decide which characterization is appropriate" for different types of non-hazardous materials, and that distinctions drawn by the USEPA are consistent with RCRA and reasonable. The Court held that the exceptions constitute a reasonable interpretation of ambiguous language and strike an appropriate balance between RCRA's dual goals of "recovery and conservation" and that "[b]ecause EPA ""has considered the relevant factors and articulated a rational connection between the facts found and the choice made,"" we uphold the rule." This decision ends NACWA's legal challenge.

Mr. Kantorek indicated that SBRSA had taken the position that the appeal would not turn out favorable and began work on the incinerators to be compliant with EPA's NHSM Rule. Mr. Kantorek indicated that SBRSA's incinerators should be compliant and on-line prior to the compliance date, March 16, 2016.

### 522.09 Operations Report

#### River Road Facility

Mr. Kunert reported that all four Chlorine Contact Tanks and all four Re-Aeration Tanks were pumped out, cleaned and put back on-line.

Mr. Kunert indicated that Nitrification Clarifiers #1 and #3 were dewatered, cleaned, and put back into service. Staff is experiencing problems closing the influent gate to Nitrification Clarifier #2 so it too can be dewatered and cleaned. Many repairs are needed for this gate valve and is an extensive job. In order to access these gate valves, flow through the plant must be stopped, and, one of the deepest structures on the plant site must be pumped out. This must be done during a low flow period and requires the rental of diesel pumps, overtime for several staff members and a good plan of action. This structure has not been emptied since it went on-line.

Mr. Kunert reported that a Modified Aeration Clarifier has been taken off-line due to the low flows. This clarifier was cleaned and remains in the stand-by mode.

Mr. Kunert noted that the RATA Tests for Incinerators #1 and #2 have been completed.

Mr. Kunert indicated that Incinerator #1 is off-line and that Albertus Energy is performing the repairs to this incinerator. In addition, SBRSA's new scrubber is also being installed for this incinerator with both jobs taking place simultaneously. The new scrubber system consists of several large sections. These sections were brought into the building via the incinerator wing hoistway shaft. As a result, several of the scrubber sections were "staged" at the opening of the shaft on the various hearth levels thus limiting Albertus' access to bring in their supplies to continue/conduct their repair work. Due to the size of the scrubber sections, there is no additional space on the hearth levels to stage these pieces to give Albertus access to the hoistway shaft. It was determined that Albertus would postpone their work on the incinerator until Centerpoint moved the scrubber sections in place. Centerpoint indicated that they would have the sections in place (and out of the way) in approximately two weeks. The incinerator repair work will take Albertus approximately three weeks to complete which is sufficient time prior to the performance testing for the scrubber with the incinerator.

Mr. Kunert reported that staff is in the process of receiving quotes for the removal of grease in the wetwell at the Millstone Pumping Station. Recently a modification was made to the wetwell side to allow for better access to remove the grease. It is staff's intention to have as much grease removed as possible for divers to enter the wetwell to access the sluice gate that separates the wetwells and determine if the gate is operational. During the diver's first attempt to access the sluice gate, there was too much grease for the divers to get access to the gate.

#### Upstream Facilities

Mr. Kunert indicated that the installation of the new chemical feed equipment to accommodate 15% sodium hypochlorite at the Hopewell STP is approximately 70% complete.

Mr. Kunert reported that the diesel vacuum pump at the Pennington STP, which is used to fill the sludge trailer, is now functioning well enough to be used. Staff is still working with an outside vendor to get this vacuum pump to function as designed.

#### Odor Report

Staff received no odor Complaints from our surrounding area during the month of May. No odor complaints were received for the partial month of June.

#### Customer Septage and Sludge Deliveries

The quantity of liquid sludge, sludge cake and gray water exceeded their budgeted amounts for the month of May.

## 522.10 Maintenance

Mr. Roga reported that on May 13, 2015 the Clinker Grinder for Incinerator #2 was removed from service because of a bent shaft and bad bearings. A spare grinder and new bearings were installed and the grinder was placed back into service. The damaged grinder was sent to Marshall Maintenance for repair and has been placed into inventory.

Mr. Roga indicated that on May 21, 2015 South Brunswick Influent Pump #1 was removed from service to replace a leaky mechanical seal that was creating a safety hazard. A new and improved seal was installed to improve performance and decrease down time.

Mr. Roga explained that on June 6, 2015 the motor for Orbital Tank #1, Drive #1 at the Pennington Plant failed and was replaced with a new motor. In addition, some wiring was replaced in the MCC Bucket feeding the VFD. Once tested the drive was placed into service.

Mr. Roga reported that on June 8, 2015 Thickener Sludge Pump #1 was removed from service due to a worn shaft and seals. The unit was sent to Shaft & Sleeves for repair. This unit has been repaired, installed and is ready for service.

Mr. Roga indicated that on June 15, 2015 a new evaporator was installed in the Air Handler for the Operations Building 1<sup>st</sup> floor main office area because of multiple leaks and corrosion. A new coil with a protective coating was ordered. It is anticipated that the protective coating will increase the service of the unit.

The number of open work requests stand at ten (10). The Preventive Maintenance graphs show that SBRSA is currently averaging two (2) days overdue and the number of overdue units is approximately thirty (30).

## 522.11 Construction Report

### Upstream Facilities Process Evaluation/Planning Study

Ms. Pchola indicated that Kleinfelder continues to work on the process evaluation.

### 2015 Annual Inspection

Ms. Pchola reported that on June 11, 2015 representatives of Kleinfelder and AECOM completed the general inspection of the meter chambers and pump stations. In addition AECOM completed the structural inspection of the River Road treatment plant. On June 12, 2015 and June 17, 2015 Kleinfelder representatives completed the general inspection of the Pennington and Hopewell treatment plants and the River Road treatment plant. On June 15, 2015 AECOM completed the electrical inspection of all SBRSA facilities. The draft report is expected to be received by the end of July.

### EMA Annual Advice

Ms. Pchola indicated that EMA attended the Sungard financial software presentation on June 8, 2015 at the request of staff.

### Odor Sampling/Evaluation

Ms. Pchola reported that at the request of staff, TRC has submitted a proposal to conduct a two-day odor sampling and evaluation at the River Road Wastewater Treatment Plant. This testing and evaluation has been conducted on an annual basis. A copy of the proposal was provided to the Board. The cost for this work is \$16,700.

Staff recommended approval of Resolution 2014-37, Authorizing the Award of a Contract to TRC for Odor Sampling and Analysis at the River Road STP. So moved by Dr. Downey, seconded by Mr. Goldfarb and passed by a roll call vote of 5 to 0. Resolution 2015-37 follows.

### **Resolution Authorizing the Award of a Contract to TRC for Odor Sampling and Analysis at the River Road STP**

**Resolution No. 2015-37**

**WHEREAS**, the Stony Brook Regional Sewerage Authority (SBRSA) has a need for the continuation of odor sampling in the summer of 2015 at the River Road STP; and

**WHEREAS**, the analysis will be used as a comparison to the analysis that was conducted in 2009 through 2014 to determine the odor characteristics at the River Road STP; and

**WHEREAS**, TRC has conducted this sampling and analysis in 2009 through 2014 and for continuity and consistency of the data TRC should conduct the sampling and analysis in 2015; and

**WHEREAS**, the qualified purchasing agent, Stuart Neuhof has determined and certified in writing that the value of the work for this contract will not exceed \$17,500; and

**WHEREAS**, the term of this contract will take place during SBRSA's FY 2015; and,

**WHEREAS**, TRC has submitted a proposal dated June 9, 2015 indicating they will provide the sampling and analysis on a time and materials basis not to exceed \$16,700 without prior written approval from SBRSA; and

**WHEREAS**, the Stony Brook Regional Sewerage Authority has Funds available in its current budget.

**NOW THEREFORE, BE IT RESOLVED** that the Board of the SBRSA authorizes the Chairman to enter into a contract with TRC as described herein.

Recorded Vote:

	<u>AYE</u>	<u>NO</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
Robert A. Bartolini	X			
Harry R. Compton	X			
Gale D. Downey	X			
David A. Goldfarb	X			
C. Schuyler Morehouse	X			
Bharat Patel				X

Princeton Solar

Mr. Kantorek provided an update on the Princeton Solar project. Six (6) proposals were received on June 12, 2015 for the project. After Princeton's legal review four (4) proposals were eliminated; three (3) did not include a price if the power were to go to the grid and one (1) for a material defect. Mr. Kantorek noted that he was given the opportunity to review the proposals and that the prices are better than anticipated. The Solar Price to Compare was calculated to be approximately \$0.10 per kilowatt hour (kWh) but based on the proposals, the cost is approximately \$0.06 to \$0.07/kWh. This means that the Authority would begin saving approximately \$40,000 to \$50,000 a year.

Mr. Kantorek explained that interviews with the two (2) remaining vendors are scheduled for June 26, 2015. He will attend the interviews and Board members are also welcome to attend. Once the interview process is completed, the consultants will then rate the proposals. Mr. Kantorek noted that cost will account for 50% of the rating and all other factors the remaining 50%. The consultants and representatives from Princeton will be attending the July 27<sup>th</sup> Board meeting to answer any questions regarding the selected proposal.

A discussion followed regarding negotiating the lease fee with Princeton, the Board needing to make a decision on the 27<sup>th</sup> and if a Special meeting would be needed prior to the July meeting. Mr. Kantorek indicated that he would provide the Board with additional information after the June 26, 2015 interviews and as soon as it is available to him.

Contract 15-3 Ash Handling System Improvements

Ms. Pchola reported that on June 5, 2015 staff provided GHD with their comments on the draft Contract Documents. Staff reviewed those comments with GHD on June 17, 2015. It is expected that this project will be bid in July and awarded at the August Board meeting.

Contract 10-1 Headworks Project

Ms. Pchola indicated that to date there has been no response to staff's letter dated April 21, 2015. Staff will send a letter to Tomar indicating that the project needs to be closed out.

#### Contract 14-1 SBRSA Emergency Generator Project

Ms. Pchola reported that Thomas Controls Inc. (TCI) continues to submit shop drawings for equipment and materials. On June 15, 2015 SBRSA and Kleinfelder (KLF) met with TCI and Foley Power Systems (Caterpillar) to discuss some of the shop drawing details of the new diesel generator units that were submitted for the two pump stations. Based on the results of the meeting, Foley will modify their submittal information and TCI will provide the updated shop drawing information for review. Foley indicated that once the generator sets are released for manufacture, it will be 16 to 18 weeks until the units are ready for delivery.

Ms. Pchola noted that during the past month KLF, SBRSA, KEMS, and Ener-G Rudox have had several discussions regarding the USEPA air emission requirements for the River Road natural gas generator and EPA certification. SBRSA has received a copy of the EPA certification for the emergency generator for the River Road STP (with the catalytic convertor). The certification will eliminate the need for SBRSA to stack test the generator every three years. The results of the discussions have concluded that the Mitsubishi generator will be installed with the catalytic convertor. Staff has formally requested that TCI provide a proposed change order to install the catalytic convertor since this was not part of the original scope of work.

Ms. Pchola reported that TCI continues to address the requests for information from the three different municipal construction departments in an attempt to obtain the required building permits. Towards this end, TCI is scheduling a meeting with the Princeton electrical inspector(s) to review their comments and clarify what information they are looking for. TCI should be able to supply the necessary information required by South Brunswick and West Windsor Townships.

Ms. Pchola indicated that SBRSA has obtained one quote (Highland Industrial Turbine Service) to install a “shear coupling” on the existing turbine generator at River Road and is attempting to find at least one more quote. This is proving to be somewhat problematic as there are not many companies that perform maintenance and repairs to gas turbines.

#### Contract 14-6 Wireless Fire Alarm Communication System

Ms. Pchola indicated that Meridian Property Services has completed the installation of the wireless system. Training on the system needs to be scheduled.

#### Contract 15-1 Scrubber Procurement

Ms. Pchola reported that the EnviroCare scrubbers/pump skids were delivered on June 8, 2015.

### Contract 15-2, Scrubber Installation

Ms. Pchola reported that as of Pay Estimate No. 2 this project is 5% complete. Over the past reporting period Centerpoint Associates, Inc. (CPA) mobilized, completed the demolition of the existing foam spray piping and pumps, received and stored the two new scrubbers and associated equipment, completed the demolition of Scrubber No.1, and has begun moving sections of the new scrubber into the building. CPA's electricians have completed the core drilling of all wall and floor penetrations, roughed-in the conduits for the two scrubber pump skids, and began the installation of the control conduits for the two new VFD's.

### Pavement Replacement

Ms. Pchola indicated that a purchase order for the paving work was issued to R.T. Barrett Paving. R.T. Barrett has indicated that the paving work will be completed sometime during the month of July 2015.

### Instrument Air Compressor Replacement

Ms. Pchola reported that due to the fact that SBRSA is currently renting a compressor to meet the needs for instrument air, staff requested that AECOM expedite this project. Ms. Pchola noted that the Assistant Maintenance Manager has re-negotiated a more favorable rental price for the compressor (50% decrease). Staff had a kick-off meeting via a conference call on June 10, 2015. It is expected that the draft documents will be completed by the end of June. It is anticipated that the award of this contract will be in July or August 2015.

### Process Air Blowers

Ms. Pchola indicated that the original construction of the River Road Wastewater Treatment Plant (RRWWTP) included the installation of three (3) 150 hp process air blowers (1 operating, 2 standby) located in the Blower Room in the basement of the Operations Building. The operating blower provided air to the aerated grit chambers and the effluent channel of the Modified Aeration (MA) Tanks.

Ms. Pchola explained that in 2014 the new headworks facility replaced the original aerated grit chambers with three new grit removal tanks each with a dedicated blower. The existing process airline to the original grit chambers was cut and capped.

With the elimination of the aerated grit chambers, the demand for process air from the existing system has been reduced by over half. In addition to the reduced demand, the existing blowers are approximately 30 years old and the air piping to the MA Tank effluent channel via approximately 2,000 feet of 6-inch spiral welded steel pipe has exhibited signs of leaking.

Ms. Pchola indicated that staff sent a request for proposals (RFP) on May 26, 2015 to four (4) engineering firms (AECOM, GHD, Kleinfelder, and R3M) for the replacement of the existing

blowers at a location near the MA Effluent Channel. Three (3) proposals were received on June 19, 2015 (Kleinfelder and AECOM submitted a joint proposal).

Ms. Pchola explained that two of the proposals (GHD and R3M) provided similar technical approaches to the project namely replacing the existing blowers in the Operations Building basement with new blowers outdoors in enclosures in the vicinity of the MA Effluent Channel. The costs associated with these proposals were as follows:

GHD

Design:	\$80,360 (with a \$4850 deduct if no TWA is required)
Construction Services:	<u>\$19,568</u>
Total	\$99,928

R3M

Design:	\$31,952 (with an additional \$2,500 for design of new diffusers if desired by SBRSA)
Construction Services:	<u>\$12,265</u>
Total	\$44,217

Kleinfelder

Ms. Pchola indicated that the Kleinfelder proposal addressed two alternatives. The first alternative was to replace the existing blower/diffuser system with mixers in the MA Effluent Channel thus eliminating the need for blowers. This alternative would have an estimated energy cost saving of approximately \$20,000 per year (a 40 hp blower vs 10 hp collectively for the mixers).

Design:	\$35,680
Construction Services:	<u>\$18,300</u>
Total	\$53,980

The second alternative was to replace the blowers at the location near the MA Effluent Channel. The cost for this alternative was the same as the mixer alternative. Staff met to discuss the pros, cons, and the constructability of the mixer alternative. The Authority will save a significant amount of money in energy costs. As a result, staff agreed that the mixer alternative is the better alternative.

Staff recommended that the design and construction services project be awarded to Kleinfelder as indicated in Resolution 2015-36. So moved by Dr. Downey, seconded by Mr. Goldfarb and passed by a roll call vote of 4 to 0. Mr. Morehouse abstained. Resolution 2015-36 follows.

**Resolution Authorizing the Award of a “No Political Contributions Allowed” Contract  
to Kleinfelder, Inc. for the Design and Construction Services for the Mixers for the MA  
Effluent Channel**

**Resolution No. 2015-36**

**WHEREAS**, the Stony Brook Regional Sewerage Authority (“Authority”) currently provides air in the Modified Aeration Tank effluent channel to keep solids in suspension via the process air blowers located in the Operation Building basement; and

**WHEREAS**, these blowers initially provided air to both the aerated grit chambers and the MA effluent channel; and

**WHEREAS**, with the completion of the new Headworks facilities, the air to the Headworks from the existing blowers is no longer necessary; and

**WHEREAS**, the existing blower(s) are oversized to provide air to the MA effluent channel, the process air piping from the Operation Building basement to the MA effluent channel has exhibited signs of leaking, and the blowers are over 30 years old; and

**WHEREAS**, SBRSA requested proposals from four (4) engineering firms (AECOM, GHD, Kleinfelder, and R3M) to provide design and construction services to replace the existing process air blowers; and

**WHEREAS**, SBRSA received three proposals (Kleinfelder and AECOM provided a joint proposal); and

**WHEREAS**, the proposals from GHD and R3M were technically equal with the option of installing new blowers in the vicinity of the MA effluent channel with the following costs:

**GHD**

Design:	\$80,360 (with a \$4,850 deduct if no TWA is required)
Construction Services:	<u>\$19,568</u>
Total	\$99,928

**R3M**

Design:	\$31,952 (with an additional \$2,500 for design for new diffusers if desired by SBRSA)
Construction Services:	<u>\$12,265</u>
Total	\$44,217

**WHEREAS**, Kleinfelder’s proposal included installing blowers in the vicinity of the MA effluent channel but also included an alternate approach by providing mixers in the effluent channel thus accomplishing the same result which is to create mixing and to keep solids in suspension; and

**WHEREAS**, Kleinfelder's proposal provided an approximate annual energy cost savings of \$20,000 and lower equipment costs with the mixer alternative; and

**WHEREAS**, the design and construction services cost associated with this alternative is as follows:

Design:	\$35,680
Construction Services:	\$18,300
Total	53,980

**WHEREAS**, Kleinfelder's proposal also indicated that the blower alternative would be the same cost at the mixer alternative; and

**WHEREAS**, Staff has agreed that the mixer alternative is the more favorable alternative; and

**WHEREAS**, Staff recommends award of this contract to Kleinfelder; and

**WHEREAS**, Kleinfelder has submitted a Business Entity Disclosure Certification for SBRSA Fiscal Year 2015 which certifies that Kleinfelder its subsidiaries, assigns or principals controlling in excess of 10% of the company has neither made a contribution that is reportable pursuant to the Election Law Enforcement Commission pursuant to N.J.S.A. 19:44A-8 or 19:44A-16, in the one (1) year period preceding the award of the contract that would, pursuant to P.L. 2004, c.19, affect its eligibility to perform this contract, nor will it make a reportable contribution during the term of the contract to a municipal political party committee of a governing body that appoints members to the Authority including, Princeton, South Brunswick Township, West Windsor Township, Hopewell Borough, Hopewell Township, and Pennington Borough, when the contract is awarded, or to any municipal candidate committee of any candidate for or holder of municipal elective public office of any such municipality when the contract is awarded, and

**WHEREAS**, the Stony Brook Regional Sewerage Authority has Funds available in retained earnings.

**NOW THEREFORE, BE IT RESOLVED** that the Board of the Stony Brook Regional Sewerage Authority authorizes the Chairman to enter into a contract with Kleinfelder as described herein; and,

**BE IT FURTHER RESOLVED** that the Business Disclosure Entity Certification and the Determination of Value is on file.

Recorded Vote:

	<u>AYE</u>	<u>NO</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
Robert A. Bartolini	X			
Harry Compton	X			
Gale D. Downey	X			
David A. Goldfarb	X			
C. Schuyler Morehouse			X	
Bharat Patel				X

#### Process Control/SCADA

Ms. Pchola indicated that the annual RATA was successfully completed on the two CEMS systems (June 1 through June 4, 2015). During the RATA the technician from the testing company (Industrial Testing Services) pointed out the existing Carbon Monoxide (CO) analyzer used by SBRSA will not be supported by the manufacturer after August of 2015. Staff contacted the manufacturer, Thermo Environmental, and confirmed this information.

Ms. Pchola reported that staff will begin the process of purchasing and installing two (2) new CO analyzers. This process involves obtaining approval to replace the units from the NJDEP Bureau of Technical Services, and budgeting for two new units at a cost of approximately \$14,500 each. In the short term, SBRSA has placed an order for several commonly used spare parts for the existing CO analyzers so the units can be adequately maintained until the new units are approved, purchased, and installed. Staff will contact the NJDEP to obtain approval.

#### Information Technology

Mr. Hess reported that the new screen development for the River Road SCADA upgrade continues with approximately ninety five percent (95%) or more of the screens completed. River Road SCADA includes the River Road Plant along with the pump stations and meter stations. Our revised completion date for the River Road screen upgrades is August 1, 2015 and October 1, 2015 for upstream screens.

Mr. Hess indicated that it was determined that the corrupted Oracle data blocks previously reported in April were isolated to unused data blocks only and therefore, we should not expect to incur any data loss as a result of the damaged data blocks. Staff is currently preparing to migrate our Oracle database to a new virtual Windows server and into an Oracle 12c database. The Windows Server virtual machine is in place and the new Oracle database has been installed. The remaining database migration work should be completed within the next week or two.

## 522.12 Finance Report

### Payment of Bills and Claims

Mr. Morehouse moved the approval of Resolution 2015-38, for the payment of bills and claims in the amount of \$1,638,282.22 with two signatures instead of three. The motion was seconded by Dr. Downey and passed by a roll call vote of 5 to 0. Resolution 2015-38 follows.

### **Resolution Regarding Payment of Bills and Claims**

#### **Resolution No. 2015-38**

**WHEREAS**, the Stony Brook Regional Sewerage Authority received certain claims against it by way of voucher, and

**WHEREAS**, the staff and Authority members have reviewed said claims,

**NOW, THEREFORE, BE IT RESOLVED** by Stony Brook Regional Sewerage Authority that these claims in the total amount of \$1,638,282.22 be approved for payment with checks bearing two authorized signatures instead of three authorized signatures.

<u>Recorded Vote:</u>	<u>AYE</u>	<u>NO</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
Robert A. Bartolini	X			
Harry Compton	X			
Gale D. Downey	X			
David A. Goldfarb	X			
C. Schuyler Morehouse	X			
Bharat Patel				X

### Treasurer's Report

Mr. Neuhof reported that net income for the six-month period ending May 31, 2015 is \$550,384. This represents an increase of \$84,831 over the prior five-month period. The Authority has total cash and investments of \$20,587,560 at an average interest rate of 0.21%. The current construction projects balance is \$18,967,415. Mr. Neuhof noted there are sufficient funds for these projects. The outstanding bond principal balance stands at \$24,333,859. This represents an increase of \$3,650,628 and is due to the closing of the 2015 NJEIT loan. The New Jersey Cash Management Fund yield is 0.07%.

### Resolution 2015-39, Specifying Upgrade of Proprietary Accounting Software

Mr. Neuhof reported that staff obtained a quote to upgrade the Authority's current accounting software from Sungard GRS (Government Resource Series). Mr. Neuhof explained that the current GRS accounting software is approximately twenty-five (25) years older than the newer Finance Plus 5.0 series. Sungard has informed staff that only a few of their clients still

use the GRS Series and is likely that support will be phased out in the near future. The Authority's current GRS software is only partially supported because of custom programming performed by Thomas Walsh and Associates whom are no longer in business to support the changes made to the software.

Mr. Neuhof indicated other reasons for upgrading the software which include: the SCO unix operating system used by the GRS is no longer supported; Microsoft SQL server as the database is the same database as the recently purchased MPulse Maintenance Management system; data can be shared with both systems; there is a good amount of "Transferable Knowledge" with the current vendor and the upgraded software rather than starting with a new vendor; and hardware considerations.

Mr. Neuhof explained that staff looked at other vendors including Edmunds, Applied Micro Systems and CSI Harris. Based on vendor demonstrations and references from other Authorities, staff finds that Sungard is a better fit for SBRSA.

Mr. Neuhof recommended approval of Resolution 2015-39, Specifying Upgrade of Proprietary Accounting Software, in the amount of \$54,515 which includes custom programming of \$12,600. Additional programming will be billed at \$200 per hour. The Resolution was moved by Mr. Morehouse and seconded by Dr. Downey.

Chairman Bartolini questioned the purchase of the accounting software at this time since the Authority will be updating its Information Technology System. Mr. Neuhof indicated that EMA recommended that the Authority move towards the SQL Microsoft since this program and the maintenance management system would use the same SQL database. Currently, the Accounting program and the Maintenance program are in two separate databases. Mr. Goldfarb asked if EMA had any questions regarding the new accounting software. Mr. Kantorek indicated that EMA did not raise any questions regarding the accounting software.

Resolution 2015-39 was then passed by a roll call vote of 5 to 0. Resolution 2015-39 follows.

**RESOLUTION OF THE STONY BROOK REGIONAL SEWERAGE AUTHORITY  
FOR SPECIFYING UPGRADE OF PROPRIETARY ACCOUNTING SOFTWARE**

**Resolution No.: 2015-39**

**WHEREAS**, the Stony Brook Regional Sewerage Authority ("Authority") has determined that its existing Accounting Software needs to be replaced with the more current version of Sungard Finance Plus 5.0 that can be integrated with the M Pulse Maintenance Management Software; and

**WHEREAS**, to the Authority's knowledge, there are no other software vendors other than Sungard Public Sector that can provide the needed software upgrade and support; and

**WHEREAS**, the Authority has determined that its existing Accounting Software is not fully supported due to programming changes completed over several years; and the current GRS software support will likely be phased out in the near future; and

**WHEREAS**, to the Authority's knowledge Sungard's Finance Plus 5.0 software is unique and proprietary to Sungard Public Sector; and

**WHEREAS**, the Authority has determined that the Software Upgrade provided by Sungard Public Sector is of a "specialized nature" because of their unique knowledge of the Finance Plus software and their experience in the Memorandum dated June 9, 2015 from S. Neuhof to J. Kantorek attached hereto and made a part hereof; and

**WHEREAS**, the Authority has a compelling need to specify the same software vendor for its software upgrade to Finance plus 5.0 as the Original Software vendor and programmer; and

**WHEREAS**, as authorized by N.J.S.A. 40A:11-5(dd) and N.J.A.C. 5:34-9.1(a) 1.i and 2.i, the proprietary designation of Sungard Public Sector Finance Plus 5.0 overshadows the public benefit of use of "brand name or equivalent"; and

**WHEREAS**, the Authority's attorney has reviewed the proposed certification for the specialized nature of the proprietary software necessary for the conduct of SBRSA's affairs and has advised of its applicability and acceptability pursuant to N.J.S.A. 40A:11-5(dd) and N.J.A.C. 5:34-9.1;

**WHEREAS**, Sungard Public Sector has a Business Entity Disclosure Certification on file with the Authority which certifies that Sungard Public Sector its subsidiaries, assigns or principals controlling in excess of 10% of the company has neither made a contribution that is reportable pursuant to the Election Law Enforcement Commission pursuant to N.J.S.A. 19:44A-8 or 19:44A-16, in the one (1) year period preceding the award of the contract that would, pursuant to P.L. 2004, c.19, affect its eligibility to perform this contract, nor will it make a reportable contribution during the term of the contract to a municipal political party committee of a governing body that appoints members to the Authority including, Princeton, South Brunswick Township, West Windsor Township, Hopewell Borough, Hopewell Township, and Pennington Borough, when the contract is awarded, or to any municipal candidate committee of any candidate for or holder of municipal elective public office of any such municipality when the contract is awarded;

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF STONY BROOK REGIONAL SEWERAGE AUTHORITY AS FOLLOWS:**

1. That the Authority has determined that due to the specialized nature of the services necessary for the conduct of its affairs, Accounting Software Upgrade requires the performance of proprietary services and that it is necessary that the software vendor and programmer, Sungard Public Sector, perform such services.

2. That the Executive Director is authorized and directed to execute a contract with Sungard Public Sector for the performance of upgrading the Accounting Software.
3. Funds are available in the current capital budget using retained earnings for the purchase of accounting software.
4. The cost estimate for the software, installation and programming is quoted at \$54,515. Additional Programming is \$200 per hour.

Recorded Vote:	<u>AYE</u>	<u>NO</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
Robert A. Bartolini	X			
Harry Compton	X			
Gale D. Downey	X			
David Goldfarb	X			
C. Schuyler Morehouse	X			
Bharat Patel				X

#### Summary of 2015 NJEIT Generator Project Financing

Mr. Neuhof provided the Board with a copy of a Summary of the 2015 NJEIT Generator Project Financing. Mr. Neuhof explained that the report illustrates the estimated amounts versus the actual amounts for Principal Forgiveness, Fund Loan (0% interest) and the Trust Loan. The actual figures were all favorable to the estimated amounts. Mr. Neuhof noted that Average Annual Debt Service for the financing was estimated at \$413,000. The actual figure of \$212,240 is almost half of the estimated amount due to a much lower construction bid than anticipated and a greater portion of the financing at 0% interest.

#### Monthly Sludge Business Analysis

Mr. Neuhof reported that net income for the month of May is \$111,076 and the cumulative net income is \$914,181. Gas usage for the month of May was 86,894 therms. The remaining simple payback for the RTO project is 2.2 years.

#### 522.13 Personnel Report

The Personnel Report was provided for member information.

Mr. Kantorek noted that one Operator VI began work on June 15, 2015. A second Operator VI is scheduled to begin work on July 6, 2015. Mr. Kantorek indicated that the Authority is still seeking a Mechanic III.

522.14 Correspondence

Mr. Kantorek noted that the Authority received Platinum Awards for all three treatment plants from NACWA for 2014.

522.16 New Business

None.

522.18 Adjournment

As there was no further business to come before the Board, the meeting was adjourned at 9:06 p.m. on a motion by Mr. Morehouse, seconded by Dr. Downey and passed by unanimous vote.

Respectfully Submitted,

John Kantorek  
Secretary

Recorded and Written by  
Patricia Carlino  
July 8, 2015