

RESOLUTION AUTHORIZING MEETING MINUTES OF DECEMBER 10, 2015

MOTIONED BY: Assadourian

SECONDED BY: Vargas

WHEREAS, the North Hudson Sewerage Authority (hereinafter "Authority") is a public body, duly formed under the Sewerage Authorities law, constituting Chapter 138 of the Laws of New Jersey of 1946, as amended (Chapter 14A of Title 40 of the New Jersey Statutes Annotated) and possesses the powers set forth therein; and

WHEREAS, a regular meeting of the Authority was held on December 10, 2015; and

WHEREAS, minutes of the meeting have been prepared by General Counsel and presented to the Authority members and staff for their review.

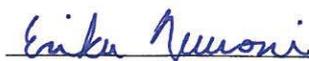
NOW, THEREFORE, BE IT RESOLVED that the Authority hereby approves the minutes of the meeting of December 10, 2015 for the record.

DATED: JANUARY 21, 2016

RECORD OF COMMISSIONERS' VOTE

	YES	NO	ABSENT	ABSTAIN
Commissioner Assadourian	x			
Commissioner Kappock	x			
Commissioner Marotta	x			
Commissioner Raia	x			
Commissioner Soares			x	
Commissioner Vargas	x			
Commissioner Velazquez	x			
Commissioner Roque	x			
Commissioner Zucconi	x			

THIS IS TO CERTIFY THAT THIS RESOLUTION WAS DULY ADOPTED BY THE NORTH HUDSON BOARD OF COMMISSIONERS ON JANUARY 21, 2016.



SECRETARY

NORTH HUDSON SEWERAGE AUTHORITY

MINUTES OF REGULAR MEETING

DECEMBER 10, 2015

At approximately 6:30 p.m., Chairman Raia called the meeting to Order. NHSA General Counsel Michael I. Rubenstein, Esq. advised that this was a regular public meeting of the Authority and that the notices to be posted and published pursuant to the Open Public Meetings Act had been accomplished. Commissioners Assadourian, Marotta, Soares, Roque and Zucconi were present at the start of the meeting. Commissioner Velasquez participated by speaker phone. Commissioner Vargas joined the meeting at approximately 6:37 p.m. and Commissioner Kappock joined the meeting at 6:50 p.m.

Whereupon Chairman Raia and Executive Director discussed and it was noted that the vote to approve the minutes of the prior NHSA regular monthly meeting could not be completed as set forth on the meeting agenda given that Commissioners Soares and Vargas were absent from the November 12, 2015 monthly meeting and therefore needed to abstain from such vote and that until Commissioner Kappock arrived, the necessary seven commissioners were not yet present and the vote on the prior minutes would have to be temporarily delayed.

Whereupon Chairman Raia, with the concurrence of Executive Director Wolff, called for presentation of the monthly reports.

CH2M HILL

Gerry Notte reported as follows:

With respect to the General Engineering, Capital Improvement Projects, and Engineering related to Combined Sewer Overflow Projects, Mr. Notte discussed CH2MHill's work and coordination of various activities:

With respect to "General Engineering" and pertaining specifically to the **Adams Street Phase II PURAC Upgrades**, it was noted that CH2M continued to coordinate with HMM regarding the bid schedule for construction, as well as an outstanding information request from NJDEP that HMM has to address. CH2M edited and resubmitted an electronic version of the contract documents with an updated bid schedule to the NJDEP on November 24, 2015. It was further noted that CH2M Hill will follow up by transmitting signed and sealed paper versions of the contract documents to NJDEP this week. Moreover, they anticipate that with this submission, the NJDEP will issue an authorization to advertise for construction.

Pertaining to the **GIS Collection System Mapping**, it was noted that all work on this project is complete. This allows CH2MHill to prepare and submit a final invoice and close the project out.

With respect to Capital Improvement Projects and pertaining specifically to the **Adams Street WWTP PC #3 & River Road WWTP Disinfection System Improvements Project**, it was stated that CH2MHill continued to coordinate with the instrumentation and controls subcontractor, OMI, and the chemical feed system supplier on the River Road disinfection improvements work. The Operator and mechanic training on the chemical feed system process analyzers has been completed. Moreover, training for the chemical feed pump skids is scheduled for the first week of December. Further, CH2MHill is also coordinating a final performance testing schedule for the chemical feed systems with all parties.

With respect to **Combined Sewer Overflow Projects** and pertaining specifically to the **Program Manager for Development of Combined Sewer Overflow Long Term Control Plan**, it was noted that CH2MHill was verbally informed by NJDEP that the first quarterly report for NJPDES CSO permits submitted to NJDEP in October was accepted without questions. Moreover, it was noted that CH2MHill has continued working with OMI in coordinating compliance with scheduled CSO related submissions in the Authority's NJPDES permits.

In addition, it was noted that CH2MHill has continued work on developing the LTCP system characterization work plan. These combined efforts now include working with the New Jersey CSO Group's LTCP baseline compliance monitoring program. To this end, CH2MHill accompanied the Authority at a work plan meeting with NJDEP on November 19th in Trenton.

Further, CH2MHill is drafting requests for proposals (RFPs) for collection system monitoring (sewer flows and pollutant characteristics) as well as a hydraulic collection system modeling RFP. CH2M continues to coordinate on public notification activities with OMI and assisting the Authority on public participation activities. To this end, CH2MHill accompanied the Authority to a Rebuild by Design meeting on November 24th to review flood control alternatives that are being developed and opportunities for drainage management that will benefit the Authority's LTCP.

With respect to the **W1234 Solids/Floatable Facility Final Design** project, it was noted that CH2MHill submitted the conceptual design technical memo to relocate the facility. Additionally, CH2MHill has been coordinating with the Authority's Counsel regarding the pending litigation.

Pertaining to the **H5 Wet Weather Pump Station Services During Construction** project, it was noted that CH2MHill continues to coordinate with the Maxwell Place HOA and the City of Hoboken. Moreover, the LSRP continued to monitor the site for dust and VOCs. CH2M continued reviewing RFIs and shop drawing submittals.

Additionally, CH2MHill is performing daily on-site inspections of the work in progress, which included installation of reinforcing steel and concrete for the pump station exterior walls and two 36-inch wall sleeves. Work on this project also included installation of the concrete encased electrical duct bank between the electrical vault and the 11th Street Pump Station.

HATCH MOTT McDONALD:

Kevin Wynne reported as follows:

It was noted that Hatch Mott McDonald is assisting NHSA in its recovery from Hurricane Sandy. They are also working on mitigation measures to protect the Adams Street WWTP from future storm events.

Further, he indicated that HMM is assisting the Authority with coordinating with United Water to eliminate water main leaks in an effort to reduce extraneous flows to the River Road Wastewater Treatment Plant. Another meeting is planned for December 16, 2015 to continue to identify and address leaks through electronic sensors which have been deployed within the service area.

With respect to the W1234 CSO Outfall, he noted that work is still in the first phase of the W1234 Solids and Floatables Project. A Notice to Proceed for the project was issued on April 28, 2015 and the Contractor has started construction. The most significant item of work is the Contractor is working along Waterfront Terrace in order to install the new 96" pipe.

Director Wolff noted that this matter is currently the subject of pending litigation with Hartz Mountain. In response to the inquiry of Commissioner Soares, Director Wolff noted that Hartz is unhappy with the placement of the CSO outfall too close to the pier that they are developing. Accordingly, CH2MHill Engineers and Hartz's engineers are meeting with an eye toward resolving the issue of the CSO outfall placement that would best suit all parties.

With respect to the Combined Sewer Regulator Upgrades and Improvements, it was noted that the Contractor has mobilized on July 6, 2015 and approximately ninety-five percent of the work has been completed.

Pertaining to the Adams Street WWTP Grit Classifier Replacement, the Contractor has started the submittal process.

With reference to the 2016 River Road WWTP Improvement, Hatch Mott McDonald received bids for the project on November 12, 2015 and is recommending the Contract to be awarded to Rapid Pump in the amount of \$617,890.00.

With respect to the 2017 Capital Improvement Programs, it was noted that Letters of Intent have been submitted for the following projects to the New Jersey Environmental Infrastructure Trust for inclusion in the 2017 Capital Improvement Program:

1. 2017 River Road Wastewater Treatment Plant Improvements which includes boiler replacement and the odor control systems of the trickling filters.
2. 2017 Adams Street Wastewater Treatment Plant Improvements which includes

PURAC Improvements, Phase III.

3. 2017 Sewer Improvement Project consists of sewer cleaning and lining.

GREELEY & HANSON:

Matthew O'Connor noted as follows:

Regarding the Wastewater Treatment Plant Improvements at the River Road and Adams Street WWTPs - Electrical Switchgear Replacement, several meetings were required with Siemens, the switchgear manufacturer to obtain an approvable submittal that met contract requirements. This included one meeting at Greeley and Hansen's office in Chicago with Siemens engineers followed by several conference calls to ensure the submittal accurately encompassed all issues.

With respect to this project, to date, 15 submittals have been received and returned. This includes the switchgear submittal. 3 RFIs were received and returned for the project and no site visits were necessary during this period.

It was further noted that there are two requests for proposals with the contractor that could become change orders that will need to be reviewed and approved once the proposals are complete. These include:

- 1) Increase the Adams Street busway rating from 2,000 amps to 2,500 amps; and
- 2) Replace the mechanical governor on the generator at River Road with an electronic governor/actuator.

As for scheduling, it was noted that the latest schedule update indicates that Siemens will not be able to supply the switchgear equipment in time to meet the substantial completion date and means to expedite are being explored.

With respect to the 2015 Adams Street WWTP Improvements PURAC System Upgrades, Phase 1., it was noted that, to date 38 submittals have been received and returned to the contractor and there have been 11 RFIs, two of which are still open at this time.

During this reporting period, a site visit was made to obtain software and hardware information on the SCADA system and license information from OMI. It was noted that the project is on schedule.

With respect to the Park Avenue Siphon Improvements, it was noted that there was a meeting with the contractor and NJ Transit to coordinate work in the right of way for the Light Rail. Further, there were efforts to initiate a permit and create easement agreements with NJ Transit. It was noted that the project is on schedule.

OMI:

Phil Reeve reported that:

The Adams Street facility removal percentages of 89% and 92% of BOD and TSS had been obtained with effluent concentrations of 18 mg/L and 12 mg/L respectively. These figures met effluent permit parameters for both BOD and TSS. Compliance with permit requirements for pH, temperature, oil & grease and ammonia were also achieved. Average daily flow was 11.93 mg/d and 411,500 gallons of sludge was hauled. The monthly average geometric mean for fecal coliform was 114 CFU with limit of 200 CFU, and a high weekly geometric mean average of 653 with a permit limit of 400 CFU. It was noted that the Adams Street facility did not meet the fecal coliform high weekly geometric mean permit parameter.

It was further noted that the trial disinfection system, using Peracetic Acid, has been installed and is in use. In conjunction with UV, it was noted that the combined treatment method allowed the facility to meet the monthly fecal permit limit. This trial is set to continue through 2016 during which time additional data will be obtained for various flow rates, chemical dosing rates and times of year variations.

Authority Engineer Fredric J. Pocci, P.E. noted that the Purac treatment system was 25 years old and was being redesigned since it sustains losses of its operational sand and that combined with insufficient treatment by secondary clarifiers cause difficulty in meeting effluent compliance standards. Given that UV treatment alone cannot ensure effective compliance, peracetic acid has been added to the treatment system and so far based on trial data, it has helped ensure that the effluent levels are compliant.

A monthly operational status and repair summary was also supplied and no matters other than routine preventative maintenance and repairs were noted.

With respect to the River Road facility, it was reported that it has achieved removal percentages of 89% CBOD and 85% TSS, with effluent concentration amounts of 19 mg/L and 25 mg/L respectively. Average daily flow was 6.93 mg/D, and 343,000 gallons of sludge was hauled. The monthly average geometric mean for coliform was met. The monthly geometric mean was 46 CFU, with a limit of 200 CFU. The maximum 7-day geometric mean average value was 142 CFU, with a limit of 400 CFU. The monthly average of chlorine residual was .01 mg/L, with a limit of .10 mg/L. The maximum instantaneous value was .05 mg/L, below the limit of .13 mg/L.

It was further noted that the River Road facility was facing issues with effluent toxicity results. CH2MHill is working with the NJDEP and taking monthly toxicity measurements. Per the discharge permit, a Preliminary Toxicity Investigation may now be required.

Additionally, it was noted that the pumping and automated control systems for both disinfection and dechlorination are being replaced as part of a capital improvement project.

A monthly operational status and repair summary was also supplied and no matters other than routine preventative maintenance and repairs were noted.

With respect to Hurricane Sandy projects, all appear near or at completion as has been previously reported. A recommendation was received by the Board for the Electric Feeder Repair Project.

Finally, OMI provided a monthly collections systems status report and detailed maintenance report.

Grant Rite Management:

Report was given as to status of various grant funding sources as follows:

1) **Hudson County CDBG funding/City of Hoboken Public Facility funding program.** It was noted that this funding is granted through HUD and administered by the County which, in turn, provides funding to the municipalities. They will then offer grants to non-profits that serve their community. Could be a \$100-300,000 pool of funds available by January 2016 and any payment to NHSA would not impact the amount of funds the municipality receives.

2) **NJEIT-NJEPA/Program Funding for CSO & Long Term Control Plan Projects.** Research being done to ascertain available funding to support EPA mandates required in the LTCP. Determined that funding can take the form of grants, low interest rate loans and CSO Principal forgiveness. Determined that a Financial Capability Analysis (FCA) needs to be created to determine length of time that EPA mandates are to be met that would help ascertain a funding schedule. Discussions are under way between NHSA and Grant Rite to determine if Grant Rite can assist with preparation of FCA and to facilitate communications with NJEIT and NJEPA.

3) **DHS Annual Pre-disaster Mitigation and Flood Mitigation Grants.** DHS provides grants to address pre-disaster and flood mitigation projects. Grant applications are typically due in July and funded in October. Given the need to raise generator at H5 to the second floor, grant funding for this task is being considered and evaluated.

4) **NJ Clean Energy Program.** NHSA is pursuing \$100,000 yearly funding grants for energy audits at its facilities together with a \$200,000 grant from the Energy Resiliency Bank program. This application was approved and NHSA is proceeding with an RFP to move forward with program mandates.

5) **Rutgers Water Resource Program.** Being pursued with Rutgers students to address green projects in Weehawken. Funding expected as early as January 2016 and could begin work with NHSA as early as March 2016.

6) **National Fish and Wildlife.**

Grants for green projects being discussed and looks to fit NHTSA's Green Project initiative.

7) **National Science Foundation.**

Consideration is being given to possible federal funding for modeling and studies associated with LTCP and Adaptive Stormwater pumping system for street water flood mitigation.

8) **Rebuild by Design-Hoboken Funding.**

To assist Hoboken by supplying Dewberry consultants information to support a Benefit Cost analysis required for Hoboken to secure their CDBG funding for their "Rebuild by Design" Project.

9) **FEMA 404 Mitigation Project to replace switchgear at Adams Street WWTP.**

NHTSA approved for \$250,000,000 dollar FEMA sponsored grant that is state administered and needed for replacement of switch-gear utilized for the generator at the Adams Street WWTP. Grant was accepted and we are moving forward with planning and necessary compliance required to receive grant funds.

10) **FEMA PA DR-4086 Sandy Recovery Funding.**

FEMA funding provided by grant for a total of 4 FEMA active grants and 2 approved FEMA amendments.

11) **319H Clean Water Act EPA.**

Grants by DEP, Bureau of Environmental Analysis pertaining to approved watershed based plans or total maximum daily loads in the Barnegat Bay and non-tidal Raritan River watersheds, green infrastructure projects with drainage areas that are hydraulically connected to areas with documented CSOs and environmental education initiatives as well as natural solutions such as creating living shorelines to address erosion. Initiated communications with EPA program representative who has agreed to assist with program application submission.

12) **NJ EPA Section 604(b) of Fed Water Pollution Control Act.**

Annual EPA grant with LOI due 2/2016 to carry out water quality management initiatives. Contacted program manager to discuss LTCP study and modeling for grant funding as well as Pipe lining scope of work.

13) **Hoboken Water Main Break Insurance Claim.**

Evaluation of work needed to gather information and documentation for submission of insurance claim for damages associated with November 22, 2015 water main break.

Whereupon Commissioner Raia called for explanation of the Consent Agenda and Executive Director Wolff explained the Resolutions on the Consent Agenda.

Resolution 15-134 was for the payment of bills. The Authority has incurred costs relating to the Authority operation, administrative, contracted services, emergency and developmental expenses as set forth on the list of bills as follows:
Operating Fund: \$1,580,000; Capital Fund: \$1,560,000; Emergency Expenditures: \$9,590;
Development Fund: \$ 3,153

Resolution 15-135 Directing Work to Cliffside Paving under the Biennial Miscellaneous Repair Contract in the amount of \$22,500. There are a total of 7 projects, 3 in Hoboken, 1 in Union City, 1 in Weehawken and 1 in West New York. All relate to repairs required for collapsed catch basins and manhole repairs.

Resolution 15-136 Directing Work to Grant Management Services Firm. The firm receiving this work is Grant Rite Management. They shall assume responsibility for the management of FEMA requested grants and reimbursements. To date, NHSA has received \$2.8 million of FEMA reimbursements. There are an additional \$12.6 million of outstanding FEMA grant and reimbursement requests. The total compensation to be due and payable for this shall not exceed \$60,000. This granting of the this work has been approved by the Finance Committee.

Resolution 15-137 Authorizing Advertising and Bid of a Contract for Adams Street Wastewater Treatment Plant Improvements, Purac Phase 2. This is the second phase of the Purac Rehabilitation work at the Adams Street WWTP. It was explained that it is being funded by the NJDEP infrastructure loan and the engineer's estimate to complete same is \$1 million. This bidding for this work was authorized by the Facilities Review Board.

Resolution 15-138 Authorizing the Award of a Contract for the 2016 River Road Wastewater Treatment Plant Improvements Project. There were exactly 2 bids received for this work. The low bid was from Rapid Pump in the amount of \$622,890.00. The second lowest bid was for \$805,000.00. The engineer's estimate for this work was \$600,000.00. It has been decided that this work should be awarded to Rapid Pump. The contract award was approved by the Facilities Review Board.

Resolution 15-139 Directing Work to CH2MHill for Engineering Services During Construction for WWTP System Improvements Project. CH2MHill will be managing this on-going project. At present, work on primary clarifier 3 at the Adams Street plant and the disinfection system at the River Road plant are being closed out. This resolution is to approve the engineering services for these close out activities. The additional approved amount for these close out activities is \$22, 973.60. The award of this work has been approved by the Facilities Review Board.

Resolution 15-140 Authorizing Contract Modification #02 for the W1234 Outfall Construction Project. The modification results in an increase in cost in the amount of

\$283,603.87. The modification was required as a result of complications related to construction beneath Waterfront Terrace thereby adding a third stage. It also included removal of utility polls and work on the adjacent commuter parking lot as was requested by the Township of Weehawken. This modification was approved by the Facilities Review Board.

Resolution 15-141 Authorization Contract Modification 2015-06 to OMI for Hurricane Sandy Recovery Projects. This contract modification relates to several matters. With respect to the Electric Feeder Contract, there are \$732,438.56 of added contract costs computed as the difference between original pre-design construction cost estimates and the low bid price of \$3.285 million. Such difference is covered by FEMA reimbursement since the Bid Price was below the FEMA approved cost. For CH2M Hill design services, there are added costs of \$138,008.00 equal to the difference between the original 2013 cost estimate and actual cost based upon the electric feeder contract as bid. For electric testing services, the costs related to the required FEMA tests of the electric feeder system totaled \$13,465.86. For CH2M Hill's engineering services during construction, there are added costs of \$75,140.00 equal to the difference between the original 2013 estimated cost of the electric feeder project and the actual contract cost as bid. Notably, all of the foregoing costs are eligible for FEMA reimbursement. Moreover, these costs were all approved by the Facilities Review Board.

Resolution 15-142 Authorizing Contract Modification 2015-07 to OMI for Purac Sand Installation at the Hoboken Plant. There is a secondary treatment process that utilizes a sand filter system. This specialized sand is required to be periodically replaced. The sand was last replaced ten years ago. There is 620 tons of sand required to be replaced. The cost of such sand is \$378,137.25. These costs were approved by the Facilities Review Board.

Resolution 15-143 Authorizing Contract Modification 2105-08 to OMI for the WNY Plant Disinfection System. It was noted that the upgrade of the WNY Plant disinfection system was underway and this modification was to hire the firm to provide start up services for the new equipment. The cost was noted to be \$4,750.00 and was approved by the Facilities Review Board.

Resolution 15-144 Authorizing Application for a Loan from the FY 2015 tp NJEIT for Long Term CSO Plan. It was noted that the loan will fund the 5 year planning activities required by the State of New Jersey. The NHSA Executive Director, Authority Enginner and Authority Purchasing Agent are authorized representatives to the NJEIT. This was approved by the Finance Committee.

Whereupon Commissioner Raia called for consideration of the Consent Agenda. Upon a Motion by Commissioner Marrotta, seconded by Commissioner Assadourian, consecutively numbered Consent Agenda resolutions 15-134 to 15-144 were adopted with a vote of 9 in favor and 0 opposed.

Chairman Raia then called for Consideration of Resolution 15-133 Authorizing Meeting Minutes of November 12, 2015. Upon Motion by Commissioner Assadourian, seconded by Commissioner Marrotta, Resolution 15-133 was adopted with a vote of 7 in favor with Commissioners Soares and Vargas abstaining.

Executive Director Wolff then called for public comment. Hearing none, Executive Director Wolff brought to light that NHSA's Standard & Poors rating had been increased from A- to A given recognition of NHSA's ongoing efforts to be fiscally responsible. He further noted that S&P recognized that based upon rates in effect, user charges represented only 1.3% of median monthly salary and NHSA was applauded for being able to keep rates low. He further noted that Fitch rating agency was also contemplating the upgrade of NHSA's rating from A to AA. Commissioner Soares added that he had heard that the governing bodies of the member municipalities were aware of the upgrades and had reacted favorably to the news.

Whereupon, upon Motion of Commissioner Marrotta, seconded by Commissioner Assadourian, the meeting was adjourned at 6:59 P.M. with a vote of 9 in favor and 0 opposed.