

BUFFALO WATER BOARD MINUTES
June 21, 2017

MEMBERS PRESENT:

Oluwole A. McFoy
Gerald Kelly
Michael Finn
William Sunderlin

OTHERS PRESENT:

Peter Merlo
Jack McMahon
Ken Maving
Charles Martorana
David Hill
Patrick Martin
Damon Sykes
Lisa Foti
Doug Fultz
Michael Wolasz

The regular monthly meeting of the Buffalo Water Board was called to order at 8:00 a.m.

1. Motion by Mr. Sunderlin to approve the agenda. Seconded by Mr. Finn. Approved.
2. Motion by Mr. Finn to approve the minutes from the May 17, 2017 meeting. Seconded by Mr. Sunderlin. Approved.
3. Staff Update: Mr. David Hill of Veolia Water provided a staffing update to the Buffalo Water Board.
4. Upon the recommendation of Veolia Water and the Principal Engineer of the City Division of Water, motion made by Mr. Kelly to standardize on Hach Company Hach Turbidity Equipment as more particularly stated in the attached resolution. Seconded by Mr. Finn. Approved.
5. Motion made by Mr. Finn to recall from the Buffalo Water Board's agenda the item tabled at the May 17, 2017 Buffalo Water Board meeting regarding a Hach Company Service Maintenance Agreement. Seconded by Mr. Sunderlin. Approved.
6. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Finn to authorize Veolia Water to contract with Hach Company for a Service Maintenance Agreement from July 1, 2017 through June 30, 2018 in an amount not-to-exceed \$50,000, inclusive of Veolia Water's 10% administrative fee. Seconded by Mr. Sunderlin. Approved.
7. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Sunderlin to authorize Veolia Water to bid and contract for the supply and installation of the pipe loop for the University of Buffalo Distribution Research Project in an amount not-to-exceed \$180,000, inclusive of Veolia Water's 10% administrative fee. Seconded by Mr. Finn. Approved.
8. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Kelly to authorize Veolia Water to bid and contract for the replacement of the 5H Breaker for the Massachusetts Avenue Pump Station electrical service in an amount not-to-exceed \$185,000, inclusive of Veolia Water's 10% administrative fee. Seconded by Mr. Finn. Approved.
9. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Finn to authorize Veolia Water to renew standby emergency watermain break contracts with Destro & Brothers Concrete Co., Kandy Company, Inc., Visone Construction, Co., Kimil Construction, Inc., D'Amore Construction, and Pinto Construction Services from July 1, 2017 through June 30, 2018. Seconded by Mr. Sunderlin. Approved.
10. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Sunderlin to authorize Veolia Water to renew electrical trade contracts with CIR Electric Construction Corporation, Ferguson Electric Construction Co., Inc., and Frey Electric Construction Co., Inc. from July

- 1, 2017 through June 30, 2018 in an amount not-to-exceed \$150,000, inclusive of Veolia Water's 10% administrative fee. Seconded by Mr. Finn. Approved.
11. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Finn to authorize Veolia Water to renew Distribution Sample Collection contract with Test America from July 1, 2017 through June 30, 2018 in an amount not-to-exceed \$150,000, inclusive of Veolia Water's 10% administrative fee. Seconded by Mr. Sunderlin. Approved.
 12. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Kelly to increase the funding for the Nussbaumer & Clarke, Inc. contract (No. 93001475) for Engineering Services for Manhattan Pump Station Improvements in an amount not-to-exceed \$47,000, currently contracted with and to be administered by the City of Buffalo. Seconded by Mr. Finn. Approved.
 13. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Kelly to authorize funding for a contract with Hazen & Sawyer for Corrosion Control Project in an amount not-to-exceed \$150,000, to be made with and administered by the City of Buffalo. Seconded by Mr. Finn. Approved.
 14. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Finn to increase the funding for the Watts Architecture & Engineering contract (No. 93001622) for Construction Administration and Resident Inspection Services in an amount not-to-exceed \$263,025, currently contracted with and to be administered by the City of Buffalo. Seconded by Mr. Kelly. Approved.
 15. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Sunderlin to authorize Veolia Water to extend the term and increase Veolia Water's contract with Corrosion Products & Equipment, Inc. (CPE) for maintenance from July 1, 2017 through June 30, 2018 in an amount not-to-exceed \$75,000, inclusive of Veolia Water's 10% administrative fee. Seconded by Mr. Finn. Approved.
 16. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Finn for funding a Watermain Betterment project at the Northland Avenue Rehabilitation/Streetscape in an amount not-to-exceed \$816,288.00, to be administered by the City of Buffalo. Seconded by Mr. Kelly. Approved.
 17. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Sunderlin to authorize payment to Invoice Cloud for billing services from March 1, 2017 through June 30, 2017 in an amount not-to-exceed \$20,000, administered by the City of Buffalo. Seconded by Mr. Finn. Approved.
 18. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Sunderlin to authorize payment to Western Union for billing services from July 1, 2017 through June 30, 2018 in an amount not-to-exceed \$10,000, administered by the City of Buffalo. Seconded by Mr. Finn. Approved.
 19. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Sunderlin to authorize payment to Invoice Cloud for billing services from July 1, 2017 through June 30, 2018 in an amount not-to-exceed \$120,000, to be administered by the City of Buffalo. Seconded by Mr. Finn. Approved.
 20. Motion made by Mr. Sunderlin to approve GHD Consulting Services, Inc. professional services contract for the 2017-2018 fiscal year for Buffalo Water Board Consulting Engineer Services in an amount not-to-exceed \$250,000.00. Seconded by Mr. Finn. Approved.
 21. Motion made by Mr. Sunderlin to approve Barclay Damon, LLP professional services contract for the 2017-2018 fiscal year for Buffalo Water Board Legal Services in an amount not-to-exceed \$110,000.00. Seconded by Mr. Finn. Approved.

22. Mr. Maving of GHD Consulting Services, Inc. presented a summary of the invoices to be paid to Veolia Water and recommended payment to Veolia Water for services rendered as follows:
 - a) Motion by Mr. Finn to approve payment of \$76,465.79, inclusive of Veolia Water's 10% administrative fee for services provided by Destro & Brothers Concrete Co. for emergency watermain repair work performed at several locations in the City of Buffalo. Seconded by Mr. Sunderlin. Approved.
 - b) Motion by Mr. Sunderlin to approve payment of \$15,707.58, inclusive of Veolia Water's 10% administrative fee for services provided by Kaman for filter control emergency repair work performed at the Colonel Ward Water Treatment Plant in the City of Buffalo. Seconded by Mr. Finn. Approved.
 - c) Motion by Mr. Sunderlin to approve payment of \$10,958.20, inclusive of Veolia Water's 10% administrative fee for services provided by Schneider Electric for UPS Emergency Repair work performed at the Colonel Ward Water Treatment Plant in the City of Buffalo. Seconded by Mr. Finn. Approved.
23. Motion by Mr. Sunderlin to approve a fund transfer of \$ 147,699.90 from Buffalo Water Board Reserve Account to Engineering & Technical Account (# 53023516-432004). Seconded by Mr. Finn. Approved.
24. Mr. Maving of GHD Consulting Services, Inc. (GHD) delivered a report of GHD's on-going services to assist the Buffalo Water Board on a number of projects, including the Traveling Screen Repair Project at Colonel Ward Water Treatment Plant, Battery System Replacement Project (with assistance from Mr. Sunderlin) and the Pump No. 6 project at Colonel Ward Water Treatment Plant.
25. Mr. David Hill from Veolia Water presented and reviewed Veolia Water's monthly report with the Buffalo Water Board. He discussed various projects, including the annual basin cleaning which is currently underway at the Colonel Ward Water Treatment Plant and the efforts put in by the group lead by Mr. Pat Martin. He also commended the efforts of the City of Buffalo Division of Water Distribution Staff lead by Mr. Michael Wolasz. Revenue opportunities were discussed including looking at replacement of some large meters to capture low flows in meters.
26. Motion by Mr. Sunderlin to adjourn at 9:23 A.M. Seconded by Mr. Finn. Approved.
Next meeting is the Annual Meeting, Wednesday, July 12, 2017 at 8:00 a.m. in Room 502 at City Hall.

**RESOLUTION OF THE BUFFALO WATER BOARD
WITH RESPECT TO STANDARDIZATION OF
CERTAIN EQUIPMENT AND PURCHASE CONTRACTS**

WHEREAS, the Buffalo Water Board (the "Water Board") was created by New York Public Authorities Law (the "Public Authorities Law") Section 1049 (the "Water Board Act") and is authorized and empowered by the Buffalo Municipal Water Finance Authority Act, Public Authorities Law Article 2-B (the "Act") to enter into contracts with the City of Buffalo (the "City") and the Buffalo Municipal Water Finance Authority (the "Authority") to provide for the acquisition, financing, improvement, operation, maintenance and repair of the water treatment system and water distribution system constituting the City of Buffalo's water system (the "System"); and

WHEREAS, pursuant to the provisions of the Act, the Water Board acquired the System from the City as of September 24, 1992; and

WHEREAS, the Water Board is responsible for the operation, maintenance, repair and improvement of the System pursuant to the powers granted by Sections 1048-g and Section 1048-j of the Act, and the Financing Agreement by and among the Water Board, the City and the Authority (the "Financing Agreement"); and

WHEREAS, the Water Board acknowledges receipt of correspondence from Douglas R. Fultz, P.E., of Veolia Water North America-Northeast, LLC, dated June 20, 2017, and referred to hereinafter as the "Veolia Recommendation" (copy attached), and the recommendation by the Peter J. Merlo, P.E., City of Buffalo, Division of Water, Principal Engineer (the "City Principal Engineer"), at the Water Board's meeting held on June 21, 2017, recommending the standardization of future purchase contracts for particular types or kinds of water turbidity measuring equipment, generally referred to as "turbidimeters" manufactured by the Hach Company.

NOW, THEREFORE, BE IT RESOLVED AS FOLLOWS:

1. Based upon the City Principal Engineer's recommendation and the Veolia Recommendation, the Water Board hereby determines that there is a need for standardization and hereby authorizes the purchase and installation in the System of Hach® TU5 Series turbidimeters and ancillary/supportive equipment for all future turbidity measuring equipment (hereinafter collectively the "Hach Turbidity Equipment").

2. The Water Board hereby determines that the use of Hach Turbidity Equipment for measuring water turbidity in the System will ensure compatibility of the System components and provide for efficiency and economy. In addition, the System will benefit by the use of the same replacement products from the same above-named manufacturer, and will ensure consistent maintenance procedures, including routine calibrations and eliminate the need for different types of spare parts or installations that may not be compatible with the existing turbidimeters and ancillary/supporting equipment.

3. The Water Board hereby determines that standardization of System turbidimeters with Hach Turbidity Equipment will minimize spare parts inventory, establish more uniform and efficient maintenance procedures for maintenance personnel, assist the System personnel to routinely inspect, maintain and read such turbidimeters, and facilitate more responsive routine and emergency repairs or replacements of such turbidimeters and ultimately support efficiency and minimize disruptions to the operations of the System.

4. The Water Board hereby finds and determines that adopting such products as the standard will: (i) ensure compatibility with existing equipment and products; (ii) minimize operating and maintenance problems in the System; (iii) support the System employees that are trained to operate, maintain and repair such makes of equipment, and cannot be trained economically to operate, maintain or repair other makes; (iv) support the substantial amount of equipment of the same make as is presently used and should be used; and (v) that such uniformity will ensure efficiency and economy in the Water Board System and operations.

5. The Water Board hereby directs and authorizes the Commissioner of Public Works, Parks and Streets, as the representative of the Water Board, and such other officers and employees of the City of Buffalo and Veolia Water North America-Northeast, LLC, that provide services to the Water Board, to undertake all future purchases of Hach Turbidity Equipment in accordance with the provisions of the Act and the Financing Agreement, and the Management Agreement with Veolia Water North America-Northeast, LLC, as the case may be.

6. A copy of this resolution shall be sent to the City of Buffalo Common Council with a request that it adopt and accept the findings and resolutions of the Buffalo Water Board as contained in this resolution.

7. This resolution shall take effect immediately.

DATED: June 21, 2017



June 20, 2017

Peter J. Merlo, PE
Room 602 City Hall
56 Niagara Square
Buffalo, NY 14202

Buffalo Water Board
281 Exchange Street
Buffalo, NY 14204

Re.: Hach - Single Source / Standardization of Turbidity Measuring Instrumentation

Dear Mr. Merlo and Members of the Buffalo Water Board:

For consideration of the Buffalo Water Board, Veolia is recommending that all future turbidity measuring equipment (turbidimeters) be standardized utilizing Hach® TU5 Series equipment and supporting components, whenever practical. The turbidimeters currently installed in the Filtration Plant and Process Laboratory (total of 43) that measure low-range turbidity are Hach® Series 1720E; and the turbidimeters installed in the Gravity Thickener Building (total of 2) that measure low-range turbidity are HF Scientific MicroTOL series Model 4.

It is our understanding that the Hach® 1720E turbidimeters will no longer be manufactured as of March, 2018 as new turbidity measuring technology has been developed. Hach® will likely provide support (parts & service) for a limited term of 5 - 7 years once manufacturing of the 1720E turbidimeters has concluded.

Furthermore, one of the turbidimeters currently installed in the Gravity Thickener Building requires replacement. Rather than replacing "in-kind" with another HF Scientific or Hach® 1720E turbidimeter, consideration was given to incorporating new turbidity measuring technology on a plant-wide scale.

The items below further discuss the reasoning behind Veolia's recommendation to pursue standardization of the turbidimeters utilizing the Hach® TU5 Series equipment:

1. Plant personnel are familiar Hach® equipment interface menus, as well as customer service and technical support currently provided by Hach®. Furthermore, Hach® personnel provided an onsite demonstration of the TU5 equipment's functionality, cleaning and calibration requirements to plant personnel who were very impressed with the product overall.

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2. The new turbidity measurement technology developed by Hach® provides increased accuracy and sensitivity in turbidity measurements by utilizing a laser light in lieu of incandescent light, which provides a more consistent light source when measuring low-range turbidities.
3. The new detection technology provides sample analysis repeatability between online process analyzers and laboratory analyzers as each unit incorporates the same patented optical design dubbed "360° x 90° Detection Technology".
4. Hach® TU5 Series equipment and sample bottles can be outfitted with radio frequency identification (RFID) technology, enabling personnel to transfer a sample's turbidity value, sampling time, sampling location, and the name of the operator who took the sample to the laboratory TU 5 Series turbidimeter for direct comparison between lab and online process values.

Additionally, when using the sealed calibration vials outfitted with RFID, instruments will recognize when calibration standards have expired and will not allow expired standards to be used for calibration.

It should be noted that monitoring turbidity is considered a highly critical analysis of the overall water treatment process, and is typically the first parameter that operations personnel evaluate when assessing treatment plant performance and compliance with water quality standards.

If you have any questions, or require additional information regarding Veolia's recommendation for the Buffalo Water Board to consider standardization of turbidity monitoring equipment utilizing the Hach® TU5 Series turbidimeters, please do not hesitate to contact us.

Respectfully,

Douglas R. Fultz, PE
Operations Manager

Cc: City of Buffalo, Department of Public Works, Parks and Streets

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