BUFFALO WATER BOARD MINUTES
March 20, 2019

MEMBERS PRESENT:
Oluwole A. McFoy
Gerald Kelly
Michael Finn
William Sunderlin

OTHERS PRESENT:
Peter Merlo
Jack McMahon
David Hill
Ken Maving
Charles Martorana
Stephen Waldvogel
Damon Sykes
William Appenheimer
Lisa Foti
William Ferguson
Mike Wolasz

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

1. Motion by Mr. Finn to approve the agenda. Seconded by Mr. Sunderlin. Approved.

2. Motion by Mr. Sunderlin to approve the minutes from the February 14, 2018 meeting. Seconded by Mr. Kelly. Approved.

3. Staff Update: Mr. Hill with Veolia Water provided a staffing update to the Buffalo Water Board.

4. Motion by Mr. Sunderlin to approve the Resolution of the Buffalo Water Board regarding adoption of 2019 Capital Improvement Plan and State Environmental Quality Review Act (copy attached). Seconded by Mr. Finn. Approved.

5. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Finn to increase the Buffalo Water Board’s funding for a contract by the City of Buffalo with Visone Construction Co. for additional services to its Various Locations III Watermain Distribution Project (contract # 93002031) in an amount not-to-exceed $35,000.00 (proposal letter attached) and a contract time extension until June 30, 2019 to complete the additional work. This contract will continue to be administered by the City of Buffalo, Division of Water. Seconded by Mr. Kelly. Approved.

6. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Finn to increase the Buffalo Water Board’s funding for a contract by the City of Buffalo with LaBella Associates, D.P.C. for the Fruitbelt Cleaning and Lining Watermain Project (contract # 93002154) in an amount not-to-exceed $178,160.00 (proposal letter attached). This contract will continue to be administered by the City of Buffalo, Division of Water. Seconded by Mr. Sunderlin. Approved.

7. Upon the recommendation of the Principal Engineer of the Division of Water, motion made by Mr. Kelly to authorize and fund a water meter purchase contract with Neptune Technology Group, Inc. for meters to be purchased by the City of Buffalo Purchase Department in an amount not-to-exceed $250,000.00. This authorization is based on the Water Board’s prior resolution that standardized all future water meter and valve acquisitions through Neptune Technology Group, Inc. Seconded by Mr. Finn. Approved.
7. Upon the recommendation of the Principal Engineer of the City Division of Water, motion made by Mr. Sunderlin to increase the Buffalo Water Board’s funding for a contract by the City of Buffalo with GHD Consulting Services, Inc. for the Water Systems Operations Management Professional Engineering Services contract for FY 2018/2019 (contract # 93002349) in an amount not-to-exceed $110,000.00 (proposal letter attached). This contract will be administered by the City of Buffalo, Division of Water. Seconded by Mr. Kelly. Approved.

8. 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. Sunderlin to approve payment of $97,037.64, inclusive of Veolia’s 10% administrative fee for services by Destro & Brothers Concrete Co., Inc. for Emergency Watermain Repair. Seconded by Mr. Finn. Approved.
   b) Motion by Mr. Sunderlin to approve payment of $58,720.20, inclusive of Veolia’s 10% administrative fee for services by Great Lakes Plumbing for Emergency Service Repair and to Support Capital Projects. Seconded by Mr. Kelly. Approved.

9. Motion by Mr. Finn to approve a Fund Transfer of $246,536.82 from Buffalo Water Board Reserve Account to Engineering and Technical Account (# 53023516-432004). Seconded by Mr. Sunderlin. Approved.

10. Discussion about Heritage Festival set for September 13, 14 and 15, 2019 and Hadley Exhibits, Inc. Project to develop design regarding museum concepts at Colonel Ward Water Treatment Facility.

11. Mr. Waldvogel of GHD Consulting Services, Inc. delivered a report of GHD’s on-going professional services to assist the Buffalo Water Board on a number of projects, including: the on-going Water Charge Affordability Analysis, the asbestos project, the design of the chlorine valve replacement project, the screen project, the generator testing project, and the continuing development of Requests For Proposals for Professional Management Services.

12. Mr. Hill from Veolia Water presented Veolia Water’s monthly management report with the Buffalo Water Board. He reported that Veolia Water recently hired a company with a drone to fly over several of the Water Board’s assets including Colonel Ward Water Treatment Facility and the Water Intake to video tape the facilities following recent wind storms, Aquatic Science will send Remote Operated Vehicles in our intake structures to inspect our intake pipe network in April, and Veolia has been working with the Maxwell School from Syracuse University to redesign the Water Board’s invoices in an attempt to increase revenues. Initial reports about the effectiveness of the redesign are very favorable.

Motion by Mr. Sunderlin to adjourn at 9:06 A.M. Seconded by Mr. Kelly. Approved.

Next meeting, Wednesday, April 17, 2019 at 9:00 A.M. This meeting will be in Room 502 in City Hall.
RESOLUTION OF THE BUFFALO WATER BOARD REGARDING ADOPTION OF 2019 CAPITAL IMPROVEMENT PLAN AND STATE ENVIRONMENTAL QUALITY REVIEW ACT

WHEREAS, the Buffalo Water Board (the “Board”) is authorized to establish and from time to time amend a capital improvement plan pursuant to the New York State Public Authorities Law section 1048-g, and the Financing Agreement by and among the Board, the City of Buffalo (the “City”) and the Buffalo Municipal Water Finance Authority (the “Authority”) dated as of September 24, 1992, as amended, with respect to the water treatment plant, water distribution system and related water facilities of the Board (the “System”); and

WHEREAS, the Board regularly serves as the lead agency pursuant to the State Environmental Quality Review Act (“SEQRA”), to review potential environmental impacts of its capital improvement plans, and works in cooperation with the Authority and the City to finance and implement such capital improvement plan; and

WHEREAS, GHD Consulting Services, Inc., as the Consulting Engineer for the Board, has recommended a capital improvement plan for 2019, as more particularly set forth and described in Exhibit A, attached hereto and made a part hereof (the “2019 Capital Improvement Plan”), which the Board plans to adopt and finance with the assistance of the Authority’s bonds and the Board’s own reserves and other resources; and

WHEREAS, the Board has reviewed the projects in the 2019 Capital Improvement Plan and determined that such projects consist of studies, engineering plans and improvements that constitute maintenance or repair involving no substantial changes in any existing structure or facility, and/or replacement, rehabilitation or reconstruction of structures or facilities, in kind, on the same site, including upgrading buildings to comply with building, energy and fire codes, without causing any significant adverse impact on the environment pursuant to SEQRA; and

WHEREAS, the Board has reviewed the 2019 Capital Improvement Plan in accordance with the SEQRA criteria for significant adverse environmental impacts, and in accordance with 6 NYCRR section 617.5, the 2019 Capital Improvement Plan constitutes Type II action(s) for which no further environmental review is necessary or appropriate.

NOW, THEREFORE, be it resolved as follows:

1. The Board, as lead agency, hereby determines that the 2019 Capital Improvement Plan constitutes Type II action(s) in accordance with 6 NYCRR section 617.5, and that the proposed action will not result in any significant adverse environmental impacts, and no further environmental review is necessary or appropriate.

2. The Board hereby approves and adopts the 2019 Capital Improvement Plan.

3. The Board Chair, or such other person as he may designate is authorized to publish such notices and other documents and to execute and deliver all instruments and documents as required by the New York Public Authorities Law, and other applicable law and the Financing Agreement with respect to compliance with SEQRA and the adoption of the 2019 Capital Improvement Plan.
At a meeting of the Buffalo Water Board, convened in public session at 502 City Hall, Buffalo, New York on March 20, 2019 the foregoing resolution was offered by WILLIAM SUNDELBURG and seconded by MICHAEL FELKINS, and with a quorum present throughout such resolution was duly adopted by unanimous vote of the Buffalo Water Board.

STATE OF NEW YORK  
COUNTY OF ERIE

I, the undersigned Secretary of the Buffalo Water Board (the “Board”), DO HEREBY CERTIFY that I have compared the annexed extract of the minutes of the meeting of the Board, including the resolution contained therein, held the 20th day of March, 2019, with the original thereof on file in my office, and that the same is a true and correct copy of the proceedings of the Board and of such resolution set forth therein and of the whole of said original insofar as the same related to the subject matters therein referred to.

I FURTHER CERTIFY that (A) all members of said Board had due notice of said meeting, (B) said meeting was duly held, (C) pursuant to Article 7 of the Public Officers Law (Open Meetings Law), said meeting was open to the general public, and public notice of the time and place of said meeting was duly given in accordance with such Article 7 and (D) there was a quorum of the members of the Board present throughout said meeting.

I FURTHER CERTIFY that, as of the date hereof, the attached resolution is in full force and effect and has not been amended, repealed or rescinded.

IN WITNESS WHEREOF, I have hereunto set my hand this 20th day of March, 2019.

Peter J. Merlo, P. E.  
Secretary of the Board
EXHIBIT A:

2019 Buffalo Water Board Capital Improvement Plan.
### 6.2 Capital Improvement Plan Analysis

The Board, its consultants (including the Consulting Engineer), and related parties developed the current CIP to address the most immediate needs of the System. Table 6.3 shows the projects currently underway or scheduled to commence during 2019.

#### Table 6.3 2018-19 Capital Improvement Projects

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<th>CIP Line No</th>
<th>Project Description</th>
<th>Estimated Cost (in $1,000's)</th>
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<td>Filter Plant Lagoon Rehabilitation/Sedimentation Basin Improvements</td>
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<td>Filter Plant Equipment Corrosion Control</td>
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<td>2.3</td>
<td>Filter Plant Replacement Rehabilitation</td>
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<td>Filter Plant New Screen</td>
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<td>Filter Plant New Screen</td>
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<td>4.3</td>
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#### 6.2.1 Colored Ward Treatment and Pumping Plant

**Filter Plant Lagoon Rehabilitation/Sedimentation Basin Improvements**

*Project Location:* Colored Ward Treatment and Pumping Plant.

*Project Function:* Study and preliminary design of necessary structural, mechanical and efficiency improvements at the sludge lagoon processing facility.

*Estimated Project Cost:* $200,000

*Anticipated Source of Funding:* Rate Revenue (Pay as You Go)

*Period of Probable Usefulness:* 50 years
Expected Placed in Service Date: 2020

Project Description: This project includes preliminary engineering design to replace the lagoon liner and concrete base. Additional basin upgrades include new sump pump, above-ground sludge transfer piping, and electrical connections.

- **Filter Plant Filter Media Replacement and Rehabilitation**
  
  Project Location: Colonel Ward Treatment and Pumping Plant
  
  Project Function: To maintain finished water quality, improve filter performance and enhance backwash process efficiency.

  Estimated Project Cost: $4,700,000

  Anticipated Source of Funding: 2019 Series Water System Revenue Bonds

  Period of Probable Usefulness: 50 years

  Expected Placed in Service Date: 2019-2020

  Project Description: During the normal treatment process, the filters must be backwashed periodically. This activity can cause small amounts of media loss and degradation of the remaining filter media. Recent Filtration Plant filter survey data show media loss. This project includes the addition of anthracite media and construction of new surface wash piping and associated sweep arms throughout all 40 filters. The addition of the new surface wash piping will improve the efficiency of the backwash process, thus improving each filter’s ability to filter water. Minor concrete joint repairs will also be performed and the installation of updated turbidimeters.

- **Filter Plant PAC Tanks and Corrosion Control Tanks**
  
  Project Location: Colonel Ward Treatment and Pumping Plant
  
  Project Function: Replacement of aging tanks for improved chemical storage and worker safety. This project will also function to improve controls by which chemicals are added.

  Estimated Project Cost: $2,000,000

  Anticipated Source of Funding: 2019 Series Water System Revenue Bonds

  Period of Probable Usefulness: 30 years

  Expected Placed in Service Date: 2019

  Project Description: PAC coagulant feed is essential in the water treatment process to remove particulate contamination from the raw water supply. The PAC storage tanks and feed system have shown significant deterioration. The existing tanks are old and require replacement. Three new PAC tanks and two new corrosion control tanks will be installed. Also included is the installation of new chemical transfer pumps and piping, SCADA control upgrades, and operator interfacing.

- **Flocculation Motors**
  
  Project Location: Colonel Ward Treatment and Pumping Plant
Project Function: Preliminary study and design to determine the most cost-effective replacements for flocculation motors and gear boxes.

Estimated Project Cost: $200,000

Anticipated Source of Funding: Rate Revenue (Pay as You Go)

Period of Probable Usefulness: 20 to 30 years

Expected Placed in Service Date: 2020

Project Description: The 40 existing flocculation motors are aging and require increased maintenance and repair. This project will include the preliminary study, planning and design engineering to replace the motors and gear boxes.

- Filter Plant New Screens

Project Location: Colonial Ward Treatment and Pumping Plant

Project Function: Replacement of traveling screens that protect the low-lift pumps, rehabilitation of the raw water conduit sluice gates, and structural improvements in the screen house.

Estimated Project Cost: $1,900,000

Anticipated Source of Funding: 2019 Series Water System Revenue Bonds

Period of Probable Usefulness: 30 years

Expected Placed in Service Date: 2019

Project Description: The travelling screens (2) located in the screen house, vintage 1950s, are aging and require continued maintenance and repair. This project includes complete screen (2) replacement, raw water conduit sluice gate rehabilitation, complete screen house electrical upgrades, new HVAC units, new roof and structural building repairs, and new screen house wash pump.

- Thickener Facility Rehabilitation and Tube Settler Installation

Project Location: Colonial Ward Treatment Thickener Facility

Project Function: Study and preliminary engineering for sludge thickener and tube settler improvements.

Estimated Project Cost: $200,000

Anticipated Source of Funding: Rate revenue (Pay as You Go)

Period of Probable Usefulness: 30 years

Expected Placed in Service Date: 2020-2021

Project Description: This project will provide an engineering study and condition assessment of the sludge thickeners (2) and the associated tube settlers. Also, includes the preliminary engineering design of replacement and/or upgrade options for the thickeners and tube settlers.
- **Sodium Hypochlorite System**
  
  **Project Location:** Colonel Ward Treatment Filter Building
  
  **Project Function:** Preliminary engineering study to evaluate the potential use of sodium hypochlorite solution for disinfection purposes as a safer alternative to the chlorine gas presently in use.
  
  **Estimated Project Cost:** $200,000
  
  **Anticipated Source of Funding:** Rate revenue (Pay as You Go)
  
  **Period of Probable Usefulness:** 30 years
  
  **Expected Placed in Service Date:** 2021-2022
  
  **Project Description:** This project includes a engineering study and conceptual design to determine the potential benefits and reduced risk by using sodium hypochlorite solution, versus chlorine gas, as the main disinfectant at the Plant. The project will also examine the anticipated future availability and delivery of chlorine gas.

- **Colonel Ward Power Upgrades**
  
  **Project Location:** Colonel Ward Treatment and Pumping Plant
  
  **Project Function:** Major electrical upgrades for Colonel Ward Pumping Plant.
  
  **Estimated Project Cost:** $2,800,000
  
  **Anticipated Source of Funding:** 2019 Series Water System Revenue Bonds
  
  **Period of Probable Usefulness:** 30 years
  
  **Expected Placed in Service Date:** 2019-2020
  
  **Project Description:** The existing medium and low voltage electrical equipment at the Colonel Ward Pumping Station is vintage 1950s. Many components have exceeded their anticipated life and have reached obsolescence. In order to ensure potable water delivery to its customers, the Board will replace the low and medium voltage switch gear, new interior housing for the protection of the switch gear, low and medium voltage cable including conduits, electrical panels, and any ancillary electrical equipment required by state and local code(s).

- **Colonel Ward Complex Building Improvements**
  
  **Project Location:** Colonel Ward Treatment and Pumping Plant
  
  **Project Function:** General structural improvements to existing buildings.
  
  **Estimated Project Cost:** $3,000,000
  
  **Anticipated Source of Funding:** 2019 Series Water System Revenue Bonds
  
  **Period of Probable Usefulness:** 50 years
  
  **Expected Placed in Service Date:** 2019
Project Description: The Colonel Ward complex is 100+ years old and its buildings have deteriorated due to age, use, and environmental conditions. This project will improve the building envelop at several locations. Major activities will include roof repairs to the pumping station and old boiler house, masonry repointing and other miscellaneous improvements. These improvements will reverse and protect these facilities from continued weather-driven damage.

6.2.2 System Pumping and Storage

- Massachusetts Avenue Pump Station Power Upgrades
  
  **Project Location:** Massachusetts Avenue Pump Station
  
  **Project Function:** Engineering study and design of major electrical improvements at the Massachusetts Ave. pumping station.
  
  **Estimated Project Cost:** $800,000
  
  **Anticipated Source of Funding:** 2019 Series Water System Revenue Bonds
  
  **Period of Probable Usefulness:** 30 years
  
  **Expected Placed in Service Date:** 2020-2021
  
  **Project Description:** This project includes the study, planning, and preliminary and final design of improvements to all electrical systems at this facility. Design upgrades include new low and medium voltage switch gear, SCADA controls, variable frequency drives (VFD’s), low and medium voltage cable, electrical panels, backup power generation, and complete removal and replacement of the existing accumulator system with electronic actuators.

- Grover Cleveland Tank and Pump Station Rehabilitation
  
  **Project Location:** Grover Cleveland Tank and Pump Station
  
  **Project Function:** Engineering study and design of improvements to the storage tank, pumping, and ancillary electrical equipment.
  
  **Estimated Project Cost:** $750,000
  
  **Anticipated Source of Funding:** 2019 Series Water System Revenue Bonds
  
  **Period of Probable Usefulness:** 30 years
  
  **Expected Placed In Service Date:** 2022
  
  **Project Description:** This project includes preliminary and final design of repairs to the tank and pumping station. Repairs and rehabilitation will generally include coating, stairways, pumps, motors, and the electrical switch gear.

- Tank Mixing and System Disinfection Booster Stations
  
  **Project Location:** Various Elevated Storage Tank Sites
  
  **Project Function:** Engineering study to evaluate the potential improvements to water quality, disinfection byproducts management, and operational efficiency with booster stations.
Estimated Project Cost: $50,000

Anticipated Source of Funding: Rate revenue (Pay as You Go)

Period of Probable Usefulness: 30 years

Expected Placed in Service Date: 2020

Project Description: The project involves a preliminary engineering study and design focused on the addition of tank mixers and system disinfection booster stations at the elevated tank sites. The goal of the study and preliminary design is to identify alternatives that will enable the Board to better manage disinfection byproducts and improve disinfection efficiency with tank mixers and system disinfection booster stations.

- **New Pressure Zone – New Tanks and Pump Station**

  Project Location: Northeast quadrant of distribution system

  Project Function: Engineering study to evaluate the potential impacts and costs of creating a new pressure zone to provide increase service pressure.

  Estimated Project Cost: $300,000

  Anticipated Source of Funding: Rate revenue (Pay as You Go)

  Period of Probable Usefulness: 50 years

  Expected Placed in Service Date: 2022-2024

  Project Description: Engineering Study to identify storage, pumping, transmission and distribution needs and strategies to increase pressure in the northeast quadrant of the City. This study would identify the conceptual locations, sizes, capacities, pressures, fire flow requirements, and costs associated with a new pressure zone that increases operating service pressures. Future phases will include construction of storage, pumping, transmission and distribution improvements.

6.2.3 Transmission and Distribution

- **Annual Watermain/Valve Replacement/Rehabilitation**

  Project Location: Transmission and Distribution System – various locations

  Project Function: Improvement projects to maintain the transmission and distribution piping system.

  Estimated Project Cost: $12,000,000

  Anticipated Source of Funding: 2019 Series Water System Revenue Bonds

  Period of Probable Usefulness: 75 years

  Expected Placed in Service Date: 2019

  Project Description: The Board continues to experience numerous watermain breaks due to the age of the pipes in the water system. To address this, the CIP includes approximately
12 million dollars to replace large valves and watermain (24-inch and 48-inch), watermain cleaning and rehabilitation, joint sealing, 36-inch concrete watermain replacement, general watermain replacement and restoration costs associated with watermain repairs.

6.2.4 Building and Other

- Metering Program
  
  Project Location: Various residential, commercial, and industrial customer sites
  
  Project Function: Meter replacement program to improve meter reading accuracy and efficiency at which the Board collects rate revenue.
  
  Estimated Project Cost: $750,000
  
  Anticipated Source of Funding: Rate Revenue (Pay as You Go)
  
  Period of Probable Useful Life: 20 years
  
  Expected Placed in Service Date: 2019
  
  Project Description: This project includes the purchase of new meters and appurtenances of various sizes. Meters are generally installed on a rolling basis by City staff as older meters fail or need to be replaced.

  The CIP is considered Sufficient to meet current and future System needs.
March 3, 2019

John McMahon,
City of Buffalo – Division of Water
65 Niagara Square, 601 City Hall
Buffalo, New York 14202

Re: WATER DISTRIBUTION SYSTEM LOCATIONS
Watts Project 15208 (Contract # 93002031)

Dear Mr. McMahon:

As we have been discussing extra work items are required for the subject project ($99,843.20) for U-Haul site (Former Tyson Food). This includes $94,543 Visone VCI + $5,300 for parking lot restoration contract bid price used for U-Haul site (Former Tyson Food). We have reviewed the contractor’s proposed unit prices with respect to recent bid histories for City of Buffalo and NYSDOT projects, and find the proposed unit prices and lump sum costs are consistent with these. There is approximately $70,000 currently remaining in the contract from the field change payment item and unused railroad costs after remaining contract items have been reviewed. Therefore it is recommended that an additional amount of $30,000 is needed to provide for indicated change orders.

In addition to the above request that was previously brought to the board an addition $35,000 is needed to complete the project in its entirety. This is for work not included in the original estimate for a number of items including, additional paving on Best Street, additional restoration with the rail removal on Grove, additional work at interconnections including cutting out tees and changes from tapping sleeves and valves to tees and valves, additional work including rock removal on Roosevelt.

We also recommend an extension in contract time to 6/30/2019 to finish the additional work at U-Haul once the easement has been approved and allow the contractor to do restoration at the remaining sites.

It is our understanding that this extra work must be approved by the City Common Council before the Contractor can be reimbursed for them. We recommend that this process be initiated so that payment may be made.

If you have any questions, please contact me at 206-5135.

Sincerely,
WATTS ARCHITECTURE & ENGINEERING, D.P.C.

Jeanette C. Koch, P.E.
Project Manager
March 13, 2019

Peter Merlo, PE
Principal – Buffalo Division of Water
602 City Hall, Buffalo, NY 14202

RE: City of Buffalo – Fruitbelt Cleaning and Lining Water Project
Additional Services Request

Dear Peter:

With the unexpected passing of Ken Strelle, we have reviewed our billing associated with the City of Buffalo Fruitbelt Cleaning and Lining project and wish to address some discovered items with you. We have invoiced and received payment in the amount of $39,165 through January 26, 2018.

The general construction administration and resident inspection services provided by LaBella Associates through the 2018 construction season far exceeded the expectations included in the original proposal. It is our understanding that a review of the contractor’s schedule and manpower, following conversations between Ken Strelle and Buffalo Division of Water staff, determined that two Resident Inspectors were required to properly cover the project.

The bids were received on March 7, 2018. Meetings were held between LaBella, the contractor and City of Buffalo on April 3rd and 5th. With construction anticipated in April 2018, LaBella hired a project inspector on 4/13/2018. The Contractor worked to obtain locations for the project trailer and store yards. After some delay, the contractor chose to utilize City properties for the trailer and store yard. Paperwork/contractual delays between the City and contractor further delayed construction. A resident meeting was attended by LaBella, the Contractor and City of Buffalo on May 5th. Contractor meetings identified that the contractor would be providing multiple crews with multiple operations. In order to provide proper coverage and inspection documentation, Buffalo Water and LaBella discussed and approved the need for a second inspector. A second Inspector was hired to provide these services. Negotiation between the contractor and City of Buffalo concerning the store yards and lead service treatment further delayed the final contract. A preconstruction meeting was held June 1st and construction scheduled June 20th. LaBella continued with lead service review and documentation. LaBella provided 2 inspectors for the 2018 construction period (June 20th thru December 2018). LaBella’s construction inspection effort through December 2018 totaled $182,960. We have provided additional detail of our Inspectors’ time attached to this letter for your review.

The original contract included 1 inspector for nine months for a total of $124,800. The staffing ramp up, construction delays and additional work, LaBella Associates is requesting an additional $58,160 for the 2018 construction season ($182,960 - $124,800 in the original proposal = $58,160).

The contractor has estimated 4 additional months are needed in 2019 to complete the project. We anticipate starting 2019 construction season with two inspectors and then reducing to one with the Division of Water’s approval to cover final completion and restoration procedures. To provide the same two Resident Inspectors at
the same rates associated with these services, LaBella Associates is requesting $110,000. We will bill on a monthly basis for actual inspection time expended. A breakdown of that time will be provided with each invoice.

For General Construction Services, the Agreement included $28,800 for the anticipated 9 month construction period in 2018. The additional community meetings and other issues prior to the construction start up were not accounted for in our original proposal. LaBella associates is requesting an additional $8,000 to cover additional General Construction Services through the 2019 construction season.

In summary, LaBella Associates is requesting a total of $176,160 to cover additional inspection services in 2018 and 2019 and overall general construction services. The table below summarizes which tasks the additional services are for.

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<th>Contracted Budget</th>
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If you have any questions or require further clarification, please contact me at (585) 295-6604.

Sincerely,

LABELLA ASSOCIATES, D.P.C.

[Signature]

Timothy M. Webber, PE
Director of Civil Engineering
Vice President
March 14, 2019

Peter J. Merlo, PE
Principal Engineer/Division of Water
City of Buffalo Department of Public Works, Parks & Streets
602 City Hall
Buffalo, New York 14202

Sent Via Email

Dear Mr. Merlo:

Re: City of Buffalo
    Water System Operations Management
    Professional Engineering Services Amendment Proposal
    FY 2018/2019 – Continued Water Board Support Services

In accordance with recent discussions, GHD Consulting Services Inc. (GHD) is pleased to submit this proposal for an amendment to its 2018/2019 Engineering Services Agreement with the Buffalo Water Board (BWB), City Contract No. 93002349 effective September 13, 2018.

Due to various ongoing BWB water quality, financial, and business initiatives, as well as several critical ongoing projects at the Colonel Ward Pumping Station and Water Filtration Plant, GHD is approaching its previously approved engineering budget. Some of the specific areas where GHD is assisting the BWB and Division of Water that are outside the scope of GHD's regular support services include:

• Lead Program Support
  - Participation with lead working group
  - Provide assistance implementing the NYSDOH LSLRP grant
  - Provide assistance with the pipe loop pilot system including troubleshooting, effluent flow and sump pump/sewer research and design upgrades

• Water Rate Assistance and Support
  - Created a comprehensive forecast model looking at multiple scenarios to evaluate customer impact
  - Reviewed model outcomes with Board and created documents for public
  - Met with Veolia to implement changes into existing software

• Affordability Program
  - Researched and compared other program specifics
  - Meetings and Documentation for public hearing and implementing program into existing software
• Water Equity Task Force
  - Created agendas/presentations for regular meetings
  - Participated in discussions with equity/affordability experts
  - Researched City demographics and facilitated creation of maps of City District/census tracts
• ROLL and HELP Program development
  - Held kick-off meeting with all parties to discuss
  - Future meetings to assign sub-committees to expedite implementation of programs
• Contract Management RFP
  - Meetings with Board members and key staff member to create RFQ
  - Finalized RFQ, advertised and distributed RFQ
  - Reviewed SOQs received from several firms
  - Held meetings with qualified firms
  - Future meetings with Water Board Member, key staff and Water Board for discussions to create RFP for distribution.
• Review and development of various Veolia subcontractor solicitations and extra work
• Pipe loop and sanitary sewer force main and pump design

As a result of these intensive activities, in addition to our usual weekly and monthly retainer responsibilities, GHD anticipates that we will exhaust our current budgetary authorization by the end of March 2019. Based on these and other various ongoing projects and initiatives for which GHD’s services have been requested, we respectfully request that the BWB increase our existing Engineering Agreement by an amount not-to-exceed $110,000. The BWB will only be billed for the actual cost of support services requested. We will keep the BWB informed as to actual versus budgeted expenditures throughout the balance of the contract year.
Thank you for the opportunity to submit this proposal. Should you have any questions, please contact us at your convenience. We look forward to continuing our assistance to the Buffalo Water Board and the Division of Water.

Sincerely,

GHD

[Signature]

Stephen C. Waldvogel, PE
Vice President

SCW/ias/4

cc:  Oluwole A. McFoy, PE – Water Board Chairman
     Mr. Kenneth F. Maving – GHD