



MONROE COUNTY WATER AUTHORITY

**2022 ANNUAL REPORT
TO NYS AUTHORITIES BUDGET OFFICE**

**475 NORRIS DRIVE
ROCHESTER, NEW YORK 14610
(585) 442-2000**

MONROE COUNTY WATER AUTHORITY DESCRIPTION

The Monroe County Water Authority is the third largest water supplier in New York State and one of the 80 largest water suppliers in the United States.

The Authority was formed in 1950 and commenced full-scale operations in 1959 when it acquired the Monroe County assets of the New York Water Service Corporation, a private water company that served a limited portion of Monroe County. Today the Authority operates and manages a regional water supply and distribution system that includes the single largest water treatment plant in New York State and provides water to over 749,000 individuals, servicing approximately 186,000 direct retail accounts and approximately 20,000 accounts in wholesale supply areas. The Authority's customers are located in all of the towns and villages in Monroe County and certain municipalities in Ontario, Genesee, Livingston, Orleans and Wayne Counties.

The facilities that comprise the Water System are either owned by the Authority, or leased on a long-term basis from Monroe County or other municipalities or water districts. Leased facilities are operated and maintained at the expense of the Authority. The Authority has the right under its lease agreements to make improvements to such facilities and to interconnect other facilities operated by the Authority, as well as to take a supply of water without main rentals or surcharges.

NEW YORK STATE PUBLIC AUTHORITIES LAW
TITLE 5
MONROE COUNTY WATER AUTHORITY

- Section 1093 Short title.
1094 Definitions.
1095 Monroe county water authority.
1096 Powers of the authority.
1096-a Additional duties of the authority.
1097 Money of the authority.
1098 Bonds of the authority.
1099 Notes of the authority.
1100 Duty of authority to maintain and operate.
1101 Transfer of officers and employees.
1102 Agreements of the state.
1103 State, county and municipalities not liable on bonds or notes.
1104 Bonds and notes legal investments for fiduciaries.
1105. Exemption from taxes.
1106. Tax contract by the state.
1107. Officers and employees not to be interested in transactions.
1108. Contracts.
1109. Actions.
1110. Audit of authority; annual report.
1111. Limitation of liability.
1112. Title not affected if in part unconstitutional or ineffective.
1113. Effect of inconsistent provisions.

§ 1093. Short title. This title may be cited as the "Monroe County Water Authority Act."

§ 1094. Definitions. As used or referred to in this title, unless a different meaning clearly appears from the context,

1. The term "authority" shall mean the corporation created by section one thousand ninety-five of this title;

2. The term "county" shall mean the county of Monroe;

3. The term "treasurer" shall mean the treasurer of the authority;

4. The term "comptroller" shall mean the comptroller of the state of New York;

5. The term "civil service commission" shall mean the civil service commission of the county of Monroe;

6. The term "properties" shall mean the water supply and distribution system or systems of the authority, including the plants, works, instrumentalities or parts thereof and appurtenances thereto, lands, easements, rights in land and water rights, rights-of-way, contract rights, franchises, approaches, connections, dams, reservoirs, water mains and pipe lines, pumping stations and equipment, and also including, without limitation, facilities and appurtenances thereto, some part of the capacity or use of which is used or to be used by or for the benefit of a municipality or municipalities or other corporation or corporations pursuant to contracts authorized by subdivision sixteen of section ten hundred ninety-six of this title, or any other property incidental to and included in such system or part thereof, and any improvements, extensions, and betterments, situated within the territorial limits of the county, or in Genesee county, or in the town or village of Victor and the towns of East Bloomfield and West Bloomfield in Ontario county, or in the village of Holley and the town of Clarendon in Orleans county;

7. The term "bonds" shall mean the bonds, notes and obligations, issued by the authority, pursuant to this act;

8. The term "revenues" shall mean all rents, charges and other income derived from the operation of the properties of the authority;

9. The term "municipality" shall mean any county, city, town, village, town water district, fire district, fire protection district, fire alarm district, school district, and any other political subdivision of the state.

10. The term "Genesee county project" shall mean the construction, installation, equipping and/or financing of such properties, as such term is defined in subdivision six of this section, as are necessary for the authority to provide service to Genesee county or any municipality therein on the terms set forth in this title.

§ 1095. Monroe county water authority. 1. A corporation known as "Monroe County Water Authority" is hereby created and continued for the purposes and charged with the duties and having the powers provided in this title. The authority shall be a body corporate and politic constituting a public benefit corporation and shall be a "public district" for the purposes of section eighty-nine-1 of the public service law. It shall consist of seven members, no more than five of whom shall belong to one political party and all of whom shall be

residents of the county, who shall be appointed by the president of the county legislature of Monroe county subject to confirmation by a majority of the county legislature of Monroe county. The five persons serving as members of the authority on and immediately prior to the effective date of this act, or any person appointed to fill a vacancy for the unexpired term of such a member, shall continue as members of the authority for their present terms of office, or the term of his predecessor in the case of the filling of a vacancy, or until their successor is appointed and qualified and, thereafter, subsequent appointments to such membership positions shall be for terms of five years. After the effective date of this act the two additional members of the authority, in addition to the five memberships existing on and immediately prior to the effective date of this act, shall be appointed by the president of the county legislature of Monroe county subject to confirmation by a majority of the county legislature of Monroe county, one such appointment to be for a term of office expiring on April first, nineteen hundred eighty-one and one such appointment to be for a term of office expiring April first, nineteen hundred eighty-two; upon the expiration of the initial terms of office of such two additional members, subsequent appointments to fill such memberships shall be for terms of five years. In addition, such additional two appointments shall be made in such manner so as to provide that the membership of the authority be composed of seven members, of whom not more than five shall belong to the same political party.

Subsequent appointments shall be made in the same manner and for terms of five years. All members shall continue to hold office until their successors are appointed and qualify. The chairman shall be elected annually by the members of the authority. Vacancies, occurring otherwise than by expiration of term of office, shall be filled by appointments by the county legislature for the unexpired terms. Members of the authority may be removed from office for the same reasons and in the same manner as may be provided by law for the removal of officers of the county. The members of the authority shall receive such compensation for their services as shall be fixed by the county legislature and shall be reimbursed for all their actual and necessary expenses incurred in connection with the carrying out of the purposes of this title. The powers of the authority shall be vested in and be exercised by the members at a meeting duly called and held and four members shall constitute a quorum. No action shall be taken except pursuant to the favorable vote of at least four members. The authority may delegate to one or more of its members, officers, agents or employees such powers and duties as it may deem proper. The president of the Monroe county legislature shall further appoint two persons from such legislature for the term of their offices, one from the majority party and one from the minority party, to serve as legislative liaisons to the authority on behalf of such legislature.

2. The authority and its corporate existence shall continue until all its liabilities have been met, other than its liabilities to the county pursuant to any agreements entered into pursuant to subdivision sixteen-b of section one thousand ninety-six, and its bonds have been paid in full or such liabilities or bonds have otherwise been discharged and thereupon all rights and properties of the authority, including its water properties as defined in subdivision sixteen-b of section one thousand ninety-six, shall pass to and be vested in the county; provided, however, that if at the time all such rights and properties of the authority shall pass to and be vested in the county, the authority and such county are parties to any agreement and any supplemental agreements thereto entered into pursuant to subdivision sixteen-b of section one thousand ninety-six, then the authority and its corporate existence and the powers herein provided for shall continue so long as is necessary to enable the authority to exercise the rights and duties and fulfill the obligations imposed upon the authority by the provisions of any such agreement and any supplemental agreements thereto.

3. The officers of the authority shall consist of a chairman, a vice-chairman and a treasurer, who shall be members of the authority, and a secretary, who need not be a member of the authority. The vice-chairman, treasurer and secretary shall be appointed by the authority and shall serve at the pleasure of the authority. The authority may appoint and at pleasure remove an attorney and an engineer, which positions, in addition to the position of secretary, shall be in the exempt class of the civil service and such additional officers and employees as it may require for the performance of its duties, fix and determine their qualifications, duties, and compensation, subject to the provisions of the civil service law of the state of New York and such rules as the civil service commission of the county of Monroe may adopt and make applicable to such authority. The authority may also from time to time contract for expert professional services. The treasurer shall execute a bond, conditioned upon the faithful performance of the duties of his office, the amount and sufficiency of which shall be approved by the authority and the premium therefor shall be paid by the authority.

4. It is hereby determined and declared that the authority and the carrying out of its powers, purposes and duties are in all respects for the benefit of the people of the county of Monroe and the state of New York, for the improvement of their health, welfare and prosperity and that the said purposes are public purposes and that the authority is and will be performing an essential governmental function in the exercise of the powers conferred upon it by this title.

5. Upon creation of the authority, from time to time the board of supervisors, may, by resolution, appropriate sums of money to defray the expenses of the authority. The moneys so appropriated shall be repaid by the authority to the county out of the proceeds of the first bond issue of the authority. The provisions of this subdivision shall not be applicable to payments made by the county for the financing of

any water facilities in accordance with the provisions of subdivision sixteen-b of section one thousand ninety-six of this title.

6. Neither the public service commission nor any other board or commission of like character, shall have jurisdiction over the authority in the management and control of its properties or operations or any power over the regulation of rates fixed or charges collected by the authority.

§ 1096. Powers of the authority. The authority shall have power:

1. To sue and be sued;
2. To have a seal and alter the same at pleasure;
3. To acquire, in the name of the authority, lease, hold and dispose of personal property or any interest therein for its corporate purposes, including the power to purchase prospective or tentative awards in connection with the exercise of the power of condemnation hereinafter granted;
4. To purchase or lease, in the name of the authority, any water supply system, water distribution system, including plants, works, instrumentalities or parts thereof and appurtenances thereto, lands, easements, rights in land and water rights, rights-of-way, contract rights, franchises, approaches, connections, dams, reservoirs, water mains and pipe lines, pumping stations and equipment, or any other property incidental to and included in such system or part thereof, and any improvements, extensions, and betterments, situated within the county, or in Genesee county, or in the town or village of Victor, the village of Bloomfield, and the towns of East Bloomfield, Canadice, Richmond and West Bloomfield in Ontario county, or in the village of Holley and the towns of Clarendon and Kendall in Orleans county for the purpose of supplying water for domestic, commercial, and public purposes at retail to individual consumers within the county of Monroe or in the manner provided by subdivision seven of this section; and as a means of so acquiring for such purposes, and subject to the approval of the public service commission, the authority may purchase all of the stock of any existing privately owned water corporation or company, and thereafter, within a reasonable time, such water corporation or company shall be dissolved;
5. To condemn in the name of the authority in the counties of Monroe and Genesee, or in any other county or municipality specifically enumerated in the first sentence of subdivision six of this section, or in the name of the county in the case of any water facilities to be owned and financed by the county pursuant to subdivision sixteen-b of this section, except where located in any other county or municipality, any water supply system, water distribution system, including plants, works, instrumentalities, or parts thereof and appurtenances thereto, lands, easements, rights in land and water rights, rights-of-way, contract rights, franchises, approaches, connections, dams, reservoirs, water mains and pipe lines, pumping stations and equipment, or any other property incidental to and included in such system or part thereof, and any improvements, extensions, and betterments for the purpose of supplying water for domestic, commercial, and public purposes at retail to individual consumers within the counties of Monroe and Genesee or in any other county or municipality specifically enumerated in the first sentence of subdivision six of this section, or at wholesale in the manner provided by subdivision seven of this section. The authority shall exercise the power of condemnation hereby granted in the manner provided by the eminent domain procedure law or any such proceeding to condemn may be instituted by the authority before a justice of the supreme court or an official referee thereof. In the exercise of such power of condemnation, the property being condemned shall be deemed, when so determined by the authority, to be for a public use superior to the public use in the hands of any other person, association, or corporation; provided, however, that the authority shall have no power to condemn property the legal title to which is vested in a municipality or in a private corporation owning such property primarily for its own use, unless such municipality or private corporation shall consent thereto;
6. To construct and develop any water supply system, water distribution system, including plants, works, instrumentalities, or parts thereof, and appurtenances thereto, dams, reservoirs, water mains, pipe lines, pumping stations and equipment, or any other property incidental to or included in such system or part thereof within the county of Monroe, or in Genesee county, or in the town or village of Victor, the village of Bloomfield and the towns of East Bloomfield, Canadice, Richmond and West Bloomfield in Ontario county, or in the village of Holley and the towns of Clarendon and Kendall in Orleans county. To acquire, by condemnation, in the name of the authority in the counties of Monroe and Genesee, or in any other county or municipality specifically enumerated in the first sentence of this subdivision, or in the name of the county of Monroe in the case of any water facilities to be owned and financed by such county pursuant to subdivision sixteen-b of this section, lands, easements, rights in land and water rights, and rights-of-way within the counties of Monroe and Genesee, or in any other county or municipality specifically enumerated in the first sentence of this subdivision, in the manner provided by this title; or to purchase or lease lands, easements, rights in land and water rights, and rights-of-way in connection therewith within the county of Monroe or within Genesee county, or in any other county or municipality specifically enumerated in the first sentence of this subdivision; and to own and operate, maintain, repair, improve, reconstruct, enlarge, and extend, subject to the provisions of this title, any of its properties acquired or constructed under this title, all of which, together with the acquisition of such properties, are hereby declared to be public purposes;

6-a. The authority shall not exercise any of the powers granted in subdivisions four and six of this section with respect to the acquisition, purchase, leasing, construction, or development of property outside of the county without first having obtained the prior approval of such purchase, leasing, acquisition, construction, or development of such property outside of the county by resolution of the legislative body of the municipality wherein the affected property outside of the county is located. Notwithstanding any inconsistent provision of any general, special, or local law, ordinance, resolution, or charter, any public corporation or improvement district thereof may, by a majority vote of its governing body, give, grant, sell, convey, lend, license the use of, or lease to the authority any property or facilities, including any water supply system, water distribution system, including plants, works, instrumentalities or parts thereof and appurtenances thereto, lands, easements, rights in land and water rights, rights-of-way, contract rights, franchises, approaches, connections, dams, reservoirs, water mains and pipe lines, pumping stations and equipment, or any other property incidental to and included in such system or part thereof, and any improvements, extensions, and betterments for the purpose of supplying water for domestic, commercial, industrial and public purposes, which property or facilities are useful in connection with the exercise by the authority of its powers under this title. Any such gift, grant, sale, conveyance, loan, license, or lease shall be upon such terms and conditions, and for such term or terms of years, subject to the rights of the holders of any bonds, as the authority and such public corporation or improvement district thereof may agree. Any such gift, grant, sale, conveyance, loan, license, or lease shall not be subject to referendum, permissive or mandatory. In the event that any public corporation or improvement district thereof gives, grants, sells, conveys, lends, licenses the use of, or leases any water supply system, water distribution system, or other improvements, extension or betterments for the purpose of supplying water, to the authority, such public corporation or improvement district thereof may contract with the authority to lease, borrow, license, operate, maintain, manage, and provide services for such facilities upon such terms and conditions, and for such term or terms of years, subject to the rights of holders of bonds, as the authority and such public corporation or improvement district thereof may agree. The authority, in furtherance of any purchase, conveyance, or lease of any property or facility from any public corporation or improvement district thereof, may assume the primary responsibility for the payment of the principal and interest on any bonds or notes issued by such public corporation or improvement district thereof for such property or facility. For purposes of section 136.00 of the local finance law, any agreement by the authority to assume the primary responsibility for the payment of the principal and interest on any bonds or notes issued by any such public corporation or improvement district thereof shall, so long as such agreement shall continue to be honored by the authority, cause such bonds or notes to be deemed to have been refunded, and any such public corporation or improvement district thereof may deduct from its gross indebtedness any outstanding indebtedness contracted for such property or facility to be acquired by the authority. The net proceeds of any purchase, conveyance, or lease of any property or facility from a public corporation or improvement district thereof may be used by such public corporation or improvement district thereof for any general or specific public use;

7. To sell water, however acquired, by volume and at retail to individual consumers within the county of Monroe for domestic, commercial, industrial, and public purposes, or by volume or in bulk and at wholesale to any or all municipalities or privately owned public water supply and distribution systems in such county. The fact that any municipality has procured or is about to procure an independent source of water supply shall not prevent such municipality from purchasing water from the authority. To sell any water not needed in such county by volume and at retail to individual consumers within the county of Genesee, or in the town or village of Victor, the village of Bloomfield and the towns of East Bloomfield, Canadice, Richmond and West Bloomfield in Ontario county, or in the village of Holley and the towns of Clarendon and Kendall in Orleans county, for domestic, commercial, industrial, and public purposes, or by volume or in bulk and at wholesale to any municipality or privately owned public water supply and distribution system outside of the county; provided that any costs incurred by the authority related to the Genesee county project shall be recovered by the authority solely from Genesee county or from rates and charges collected from customers within Genesee county; and further provided that the authority shall not sell water in any area outside of the county unless the governing board of the municipality wherein such area is located shall enter into an agreement with the authority for service or sale of water by it in such area or shall by resolution request the authority to sell water within such area. Any agreement between a municipality outside of the county and the authority for the sale of water to or within such municipality shall be subject to the approval of the legislative body of the contiguous county wherein such municipality is located. Not only may the authority sell any surplus water it may have developed, but it may develop and provide a sufficient amount of water so as to supply water outside of the county to individual consumers, any municipality, or privately owned public water supply and distribution system;

8. To purchase water in bulk or by volume from any person, private corporation or municipality when necessary or convenient for the operation of any water supply and distribution system developed by it, or when necessary or convenient for resale under the authority and provisions of subdivision seven of this section;

9. To acquire, hold, use, lease, sell, transfer and dispose of any property, real, personal or mixed, or interest therein, for its corporate purposes;

10. To make by-laws for the management and regulation of its affairs, and subject to agreements with bondholders, rules for the sale of water and the collection of rents and charges therefor. A copy of such rules and by-laws, and all amendments thereto, duly certified by the secretary of the authority shall be filed in the office of the clerk of the county and thereafter published once in two newspapers having a general circulation in the county. Violation of such rules shall be a misdemeanor, punishable by fine, not exceeding fifty dollars, or by imprisonment for not longer than thirty days, or both. Exclusive jurisdiction is hereby conferred upon the local criminal courts of the county, which have trial jurisdiction, to hear and determine, subject to the provisions of the criminal procedure law, any violation of this title;

11. To use the officers, employees, facilities and equipment of the county with the consent of the county, paying a proper portion of the compensation or cost;

12. To make contracts and to execute all necessary or convenient instruments, including evidences of indebtedness, negotiable or non-negotiable;

13. To enter on any lands, waterways and premises for the purpose of making surveys, soundings and examinations;

14. To borrow money and to issue negotiable bonds or notes and to fund or refund the same, and to provide for the rights of the holders of its obligations;

15. To fix rates and collect charges for the use of the facilities of, or services rendered by, or any commodities furnished by the authority such as to provide revenues sufficient at all times to pay, as the same shall become due, the principal and interest on the bonds or notes of the authority together with the maintenance of proper reserves therefor, in addition to paying as the same shall become due the expense of operating and maintaining the properties of the authority together with proper reserves for depreciation, maintenance, and contingencies and all other obligations and indebtedness of the authority;

16. To enter into cooperative agreements with other water authorities, municipalities, or utility companies, for the inter-connection of facilities, the exchange or inter-change of services and commodities, and to enter into contracts for the construction of water supply and distribution systems by the authority for any municipality which possesses express reciprocal powers and having power to construct and develop a water supply and distribution system, or contracts for the construction of a water supply and distributions systems for the authority by a municipality which possesses express reciprocal powers and having power to construct and develop a water supply and distribution system, upon such terms and conditions as shall be determined to be reasonable including, but not limited to, the reimbursement of all costs of such construction, or for any other lawful purposes necessary or desirable to effect the purposes of this title, provided, however, that any such agreement with a municipality located in a county, other than Monroe county, shall be subject to the approval of the legislative body of such county. The authority shall also have the power to enter into contracts or agreements with other corporations, public or private, (i) for or with respect to the financing, construction, development, expansion or improvement of properties, facilities, and appurtenances owned by the authority, with a part of the capacity or use of such properties, facilities and appurtenances utilized or to be utilized by or for the benefit of any such corporation and (ii) for or with respect to the use, operation, management, repair and maintenance of such properties, facilities, and appurtenances of the authority, upon such terms and conditions as shall be determined to be reasonable, which may include, without limitation, collection by the authority of rents, rates or other charges to pay for the cost of construction, including debt service on obligations of the authority issued to finance construction, operation, management, maintenance, repair and use of such facilities; and municipalities having power to construct and develop water supply and distribution systems shall have the power to enter into contracts or agreements contemplated herein with the authority, including any such contract to which another corporation is a party;

16-a. To enter into a contract or contracts with the board of supervisors of Monroe county for the acquisition, construction and development of a water supply and distribution system, or any part or parts thereof, on behalf of a county water district, and to contract for the operation and management of such county water district, all as provided in article five-a of the county law and article five-b of the general municipal law. Such water authority shall be deemed the agent of Monroe county under any such contract. If such contract shall authorize the water authority to purchase supplies or equipment or to construct public works, such authority shall be subject to all provisions of law to which Monroe county would be subject in relation to advertising and awarding any such contracts for supplies, equipment or public works.

16-b. (1) It is the purpose of this subdivision to provide a means whereby: (i) the authority shall plan, construct, operate and manage both the water properties owned by the authority and additional water facilities to be hereafter constructed by the authority but financed and owned by the county so that such water properties and such water facilities may be operated as an integrated water system; and (ii) the county shall finance the construction of and own additional water facilities and lease the same to or otherwise make the same available for use by the authority in order to assist the authority in providing such necessary improvements required for the operation of the water properties of the authority (the title to which water properties will, as provided by law, become vested in the county).

(2) For the purposes of this subdivision sixteen-b the term "water facilities" shall mean the acquisition, construction or reconstruction of or addition to a water supply or distribution system, whether or not including buildings, land or rights in land, original furnishings, equipment, machinery or apparatus, or the

replacement of such equipment, machinery or apparatus, which water facilities are to be financed and owned by the county. For the purpose of this subdivision sixteen-b the term "water properties" means the source of water supply and the water supply and distribution system of the authority, including the plants, works, instrumentalities or parts thereof and appurtenances thereto, lands, easements, rights in land and water rights, rights of way, contract rights, franchises, approaches, connections, dams, reservoirs, water mains and pipe lines, pumping stations and equipment, and any other property, real, personal or mixed, incidental to and included in such source of supply and such system or parts thereof, and any improvements, extensions and betterments, now or hereafter constructed, acquired or made by the authority, other than the water facilities constructed by the authority but financed and owned by the county in accordance with the provisions of this subdivision.

(3) The county may, by resolution of the legislative body of such county, enter into an agreement or agreements with the authority providing: (i) that water facilities shall be constructed by the authority, which water facilities shall be financed and owned by the county and leased or otherwise made available for the use of the authority; and (ii) for the transfer to the authority for use in the execution of its corporate purposes of such water facilities hereafter financed and owned by the county in accordance with the provisions of this subdivision; provided, however, that title to such facilities shall remain in the county.

Such agreement shall constitute a contract for the passing to and vesting in the county of all rights and properties, including water properties, of the authority when all liabilities of the authority, other than its liabilities to the county pursuant to any agreements entered into pursuant to this subdivision, and the bonds of the authority have been paid in full or such liabilities or bonds have otherwise been discharged.

Such agreement or agreements may be amended, modified, changed or extended by supplemental agreements authorized and executed in the same manner as the original agreement provided that the provisions of any such supplemental agreement shall not be inconsistent with the provisions of this subdivision sixteen-b.

(4) Such agreement shall provide that until the rights and properties, including the water properties, of the authority shall pass to and be vested in the county as provided by law, the authority shall act as the agent of the county: (i) to provide water facilities deemed necessary by the authority (a) to provide a supply of water sufficient to serve all customers of the water properties of the authority and of the water facilities of the county operated and managed by the authority, or (b) water facilities for the distribution of water deemed necessary by the authority to serve the territory of the authority within the county; and (ii) to operate, manage, replace, maintain and repair such water facilities in conjunction with the water properties of the authority so that both the water properties of the authority and the water facilities owned and financed by the county shall be planned, operated and managed as an integrated water system.

(5) Such agreement shall provide for the transfer to and use by the authority of such water facilities by lease, license or other arrangement until such time as all rights and properties, including water properties, of the authority shall pass to and be vested in the county as provided by law and shall authorize the authority to take jurisdiction, control, possession and supervision of such water facilities and operate, manage, replace, maintain and repair the same together with the water properties of the authority as an integrated water system.

(6) Such agreement shall provide that the county shall pay an amount not to exceed twenty-seven million dollars to provide certain water facilities to be owned by the county and leased to or otherwise made available for use by the authority in accordance with the provisions of such agreement, which water facilities shall be described in terms sufficient for identification in the first agreement so executed by and between the county and the authority. The county may issue obligations pursuant to the local finance law in an amount not to exceed twenty-seven million dollars to pay the cost of such water facilities. The provisions of section four hundred of the county charter prohibiting the financing of permanent improvements by the issuance of obligations pursuant to the local finance law unless such permanent improvements are included in a budget of permanent improvements adopted and approved as provided by such section four hundred shall not be applicable to the financing of such water facilities by the issuance of such obligations of the county authority by this paragraph.

(7) Such agreement shall provide that the authority shall pay to the county for each fiscal year of the county an annual rental for the use of the water facilities financed and owned by the county which shall be an operating expense of the authority, and shall be equal to the sum of the following: (i) the principal of any bonds of the county becoming due in such fiscal year issued in accordance with any agreement entered into pursuant to this subdivision; and (ii) the interest on any obligations of the county, including bonds and notes, issued in accordance with any such agreement and becoming due in such fiscal year. Such agreement shall provide such further details as the parties deem necessary with respect to the time and manner of the payment of such annual rentals in order to assure that such annual rentals shall be available to the county at the times and in the amounts required for the payment of such principal of bonds of the county and such interest on obligations of the county. Notwithstanding that the payment of such annual rentals shall be an operating expense of the authority, such agreement may provide that payment thereof shall be subordinate to all or any of certain payments hereinafter described required to be made by a certain trust indenture between the authority and a trustee dated as of February first, nineteen hundred fifty-nine. Such payments

are the payments required to be made by said trust indenture to the debt service fund and the debt service reserve fund both created by such indenture.

(8) Such agreement shall provide that to facilitate the further acquisition, construction, reconstruction, extension or betterment of water facilities by the authority to be owned and financed by the county, other than and in addition to the water facilities to be financed by the county pursuant to the provisions of paragraph (6) of this subdivision, the authority, on or before September first in each year or on or before such earlier date in each year as such agreement may provide, may submit to the county manager a capital budget for the calendar year beginning on the succeeding January first of such proposed water facilities and the estimated cost thereof. Such capital budget shall be accompanied by a report of the consulting engineers retained by the authority pursuant to a certain trust indenture of the authority dated as of February one, nineteen hundred fifty-nine. Such report of the consulting engineers shall explain the need for or desirability of such proposed water facilities and shall state that the consulting engineers have approved the estimated cost thereof. Such capital budget of the authority and report of such consulting engineers shall describe such proposed water facilities in terms sufficient for identification. When received by the county manager, such capital budget of the authority and the report of the consulting engineers shall be used in the preparation of the budget of permanent public improvements of the county required to be prepared by section four hundred of the Monroe county charter in the same manner as if the providing of such additional water facilities originally were proposed by the county. The county shall pay the cost of any water facilities contained in a budget of permanent improvements after such budget has been adopted. At any time after the adoption of such budget of permanent improvements the county may finance any water facilities contained therein pursuant to the provisions of and in the manner provided by the local finance law. Notwithstanding any other provisions of this subdivision, in the event that any item for the providing of water facilities contained in the capital budget and report of the consulting engineers as submitted to the county manager shall not be made a part of the budget of permanent improvements of the county, the authority may, nevertheless, proceed to construct such proposed water facility as an addition to the water properties of the authority and finance the same by the issuance of obligations of the authority, subject, however, to: (i) the provisions of any resolutions or trust indentures heretofore or hereafter adopted or executed by the authority, as the case may be, with respect to the construction of water properties and the financing thereof by the authority; and (ii) the limitations, if any, on the issuance of bonds or obligations by the authority contained in any agreement executed pursuant to this subdivision sixteen-b.

(9) Such agreement may contain further provisions concerning the following, provided, however, that no provisions in any agreement or any supplemental agreement thereto shall require the authority to in any way impair the rights and remedies of the holders of obligations of the authority pursuant to any resolution or trust indenture of the authority heretofore adopted or executed authorizing or securing obligations of the authority: (i) further provisions relating to the annual rentals due by the authority to the county as provided in this subdivision; (ii) provisions that the rates, fees, rentals and other charges for the sale or distribution of water or for other services rendered by the water properties of the authority shall be in an amount sufficient to fully comply with any covenants with holders of obligations of the authority and in addition sufficient to pay the annual rentals payable by the authority to the county as provided in this subdivision and in any agreements or supplemental agreements executed in accordance with the provisions of this subdivision; (iii) provisions limiting the issuance of bonds or obligations by the authority; (iv) provisions limiting the power of the authority to sell or otherwise dispose of its water properties without the consent of the county; (v) providing that when the rights and properties of the authority shall pass to and be vested in the county as provided by law the authority shall act as the agent of the county to plan, construct, operate and manage the water properties and water facilities then vested in and owned by the county for such term and extensions of such term as may be provided by any such agreements; and (vi) such other provisions not inconsistent with the provisions of this subdivision sixteen-b as the parties shall deem necessary or desirable to implement the purpose and provisions of this subdivision sixteen-b.

(10) The proceeds of sale of obligations of the county issued pursuant to any agreement entered into pursuant to this subdivision shall be subject to the provisions of section one hundred sixty-five of the local finance law and shall be paid and disbursed by the director of finance of the county on requisition by the authority or such person or persons as the authority may authorize to make such requisitions without further audit; provided, however, that the director of finance of the county may require that such requisitions shall be accompanied by properly itemized and verified or certified bills for materials, supplies or services.

(11) All contracts for the purchase of supplies or equipment or the construction of water facilities entered into with respect to the providing of water facilities to be financed and owned by the county and constructed by the authority shall be subject to all provisions of law which the county of Monroe would be subject to in relation to advertising and awarding any such contracts for supplies, equipment or the construction of water facilities.

(12) The provisions of this subdivision sixteen-b shall be independent and cumulative power for the authority and the county to enter into the agreements authorized hereby and shall not be construed with or be limited by any of the provisions of article five-a of the county law and of this article of the public authorities law.

17. To accept grants, loans or contributions from the United States, the state of New York, or any agency or instrumentality of either of them, or the county, or an individual, by bequest or otherwise, and to expend the proceeds for any purposes of the authority;

18. To do all things necessary or convenient to carry out the powers expressly given in this title.

19. To contract for the purposes of subdivision twenty-four of section ten of article two of the highway law.

In exercising the powers granted by this title, the authority shall not sell water in any area which is served by a water system owned or operated by a municipality unless the governing board of such municipality shall adopt a resolution requesting the authority to sell water in such area.

§ 1096-a. Additional duties of the authority. 1. The authority shall submit to the president of the Monroe county legislature a copy of the authority's preliminary budget, annual budget or amended budget, certified by the treasurer of the authority, not later than thirty days prior to the date on which the annual budget is adopted or approved by the authority. The authority shall give notice in writing to the president of the Monroe county legislature not later than thirty days prior to anticipated final approval of any construction projects to be undertaken by the authority involving water mains in excess of twelve inches in size, construction of mains in geographical areas theretofore undeveloped or not supplied with a public water supply, storage facilities, pumping stations or water treatment facilities utilizing funds of either the authority or funds of the county of Monroe under subdivision sixteen-b of section one thousand ninety-six of this title provided, however, that the foregoing shall not in any event be deemed to include: modernization, renewal and replacement, repair, maintenance of or improvement in properties or facilities; preliminary undertakings such as studies, tests, evaluations, reports, preparation of engineering plans and specifications, obtaining property rights and obtaining of necessary governmental approvals; construction activities deemed necessary by the authority in an emergency to protect life, property, health or the public safety; changes during construction which do not materially change the essential service area affected by a project; and construction activities within the terms of the last sentence of this subdivision. In the event the Monroe county legislature, by its resolution adopted at any time within sixty days after receipt by the president of the county legislature of the notice from the authority herein provided for, requests any change in such project, the authority shall conduct a public informational meeting upon ten days' notice to be published twice consecutively in a newspaper of general circulation in the county of Monroe prior to the authority granting final approval or prior to the commencement of construction of such project. The authority shall give written notice to the president of the Monroe county legislature not less than thirty days prior to the date of any final action of the authority with respect to any change in the rates of the authority. The authority shall conduct a public informational meeting upon ten days' notice to be published twice consecutively in a newspaper of general circulation in the county of Monroe relative to any change in such rates prior to the effective date of such change. The foregoing provisions of this subdivision shall not be construed to or require the authority to in any way violate or impair the rights and remedies of or covenants with the holders of obligations of the authority pursuant to any resolution or trust indenture of or binding upon the authority adopted or executed authorizing or securing obligations of the authority or abrogate the rights and powers of the authority to fulfill its duties and obligations to comply with all the terms, covenants or requirements required or provided by any existing contractual agreement or provided or required by statute or the order or direction or approval of a federal, state or local governmental entity having appropriate jurisdiction or authority.

2. The authority shall be empowered to develop and adopt an administrative code, subject to amendment from time to time, concerning such cooperative interrelationships between the authority and the county of Monroe, including the duties of the authority under subdivision one of this section. Any such code, or any amendment thereto, shall be submitted to the president of the county legislature not less than ninety days prior to its adoption by the authority for approval by such legislature.

§ 1097. Moneys of the authority. All moneys of the authority from whatever source derived shall be paid to the treasurer of the authority and shall be deposited forthwith in a bank or banks in the state of New York designated by the authority. The moneys in such accounts shall be paid out on check of the treasurer on requisition by the authority or of such other person or persons as the authority may authorize to make such requisitions. All deposits of such moneys shall, if required by the comptroller or the authority, be secured by obligations of the United States or of the state of New York or of the county of a market value equal at all times to the amount of deposit and all banks and trust companies are authorized to give such security for such deposits. The comptroller and his legally authorized representatives, and the director of finance of the county of Monroe, if he so elect, are hereby authorized and empowered from time to time to examine the accounts and books of the authority, including its receipts, disbursements, contracts, leases, sinking funds, investments and any other matters relating to its financial standing. The authority shall have power, notwithstanding the provisions of this section, to contract with the holders of any of its bonds as to the custody, collection, security, investment and payment of any moneys of the authority, or any moneys held in trust or otherwise for the payment of bonds or in any way to secure bonds, and to carry out any such contract notwithstanding that such contract may be inconsistent with the provisions of this section. Moneys

held in trust or otherwise for the payment of bonds or in any way to secure bonds and deposits of such moneys may be secured in the same manner as moneys of the authority, and all banks and trust companies are authorized to give such security for such deposits.

§ 1098. Bonds of the authority. 1. The authority shall have the power and is hereby authorized from time to time to issue its negotiable bonds in conformity with applicable provisions of the uniform commercial code for any of its corporate purposes, including incidental expenses in connection therewith, and to secure the payment of the same by a lien or pledge covering all or part of its contracts, earnings or revenues except that no resolution or other action of the authority providing for the issuance of bonds may be adopted or otherwise made effective without the prior approval of the Monroe county legislature. The powers conferred by this section on such Monroe county legislature shall be exercised with due regard for the rights of the holders of bonds of the authority at any time outstanding, and nothing in, or done pursuant to, this section shall in any way limit, restrict or alter the obligation or powers of the authority or any member, director, officer or representative of the authority to carry out and perform in every detail each and every covenant, agreement or contract at any time made or entered into by or on behalf of the authority with respect to its bonds or for the benefit, protection, or security of the holders thereof. The authority shall have power from time to time whenever it deems refunding expedient, to refund any bonds by the issuance of new bonds whether the bonds to be refunded have or have not matured, and may issue bonds partly to refund bonds then outstanding and partly for any of its corporate purposes. Except as may be otherwise expressly provided by the authority, every issue of bonds by the authority shall be general obligations payable out of any moneys, earnings or revenues of the authority, subject only to any agreements with the holders of particular bonds pledging any particular moneys, earnings or revenues.

2. The bonds shall be authorized by resolution of the authority and shall bear such date or dates, mature at such time or times not exceeding forty years from their respective dates, bear interest at such rates per annum not exceeding six per centum per annum payable at such times within the limitations as to interest cost hereinafter provided, be in such denominations, be in such form either coupon or registered, carry such registration privileges, be executed in such manner, be payable in lawful money of the United States of America, at such place or places and be subject to such terms of redemption, at par or at a price not exceeding one hundred five per centum of their face value, as such resolution or resolutions may provide.

All bonds of the authority may be sold at public or private sale. Such bonds shall be sold for a price not less than ninety-six per centum of the par value thereof, plus accrued interest, provided always that the interest cost to maturity of the monies realized from the sale of such bonds shall not exceed six per centum per annum.

3. Any resolution or resolutions authorizing any bonds or any issue of bonds may contain provisions, which shall be a part of the contract with the holders of the bonds thereby authorized, as to

(a) pledging all or any part of the moneys, earnings, income and revenues derived from all or any part of the properties of the authority to secure the payment of the bonds or of any issue of the bonds subject to such agreements with bondholders as may then exist;

(b) the rates, rentals, fees and other charges to be fixed and collected and the amounts to be raised in each year thereby, and the use and disposition of the earnings and other revenues;

(c) the setting aside of reserves and the creation of sinking funds and the regulation and disposition thereof;

(d) limitations on the right of the authority to restrict and regulate the use of the properties in connection with which such bonds are issued;

(e) limitations on the purposes to which and the manner in which the proceeds of sale of any issue of bonds may be applied;

(f) limitations on the issuance of additional bonds, the terms upon which additional bonds may be issued and secured; the refunding of outstanding or other bonds;

(g) the procedure, if any by which the terms of any contract with bondholders may be amended or abrogated, the amount of bonds the holders of which must consent thereto, and the manner in which such consent may be given;

(h) the creation of special funds into which any earnings or revenues of the authority may be deposited;

(i) the terms and provisions of any trust deed or indenture securing the bonds or under which bonds may be issued;

(j) defining the acts or omissions to act which shall constitute a default in the obligations and duties of the authority to the bondholders and providing the rights and remedies of the bondholders in the event of such default, including as a matter of right the appointment of a receiver, provided, however, that such rights and remedies shall not be inconsistent with the general laws of this state;

(k) limitations on the power of the authority to sell or otherwise dispose of its properties;

(l) any other matters, of like or different character which in any way affect the security or protection of the bonds;

(m) limitations on the amount of moneys derived from the properties to be expended for operating, administrative or other expenses of the authority.

4. It is the intention of the legislature that any pledge of earnings, revenues or other moneys made by the authority shall be valid and binding from the time when the pledge is made; that the earnings, revenues or other moneys so pledged and thereafter received by the authority shall immediately be subject to the lien of such pledge without any physical delivery thereof or further act, and that the lien of any such pledge shall be valid and binding as against all parties having claims of any kind in tort, contract or otherwise against the authority irrespective of whether such parties have notice thereof. Neither the resolution nor any other instrument by which a pledge is created need be recorded.

5. Neither the members of the authority nor any person executing the bonds shall be liable personally on the bonds or be subject to any personal liability or accountability by reason of the issuance thereof.

6. The authority shall have power out of any funds available therefor to purchase (as distinguished from the power of redemption hereinabove provided) any bonds issued by it at a price of not more than the principal amount thereof and accrued interest, and all such bonds shall be cancelled.

7. In the discretion of the authority, the bonds may be secured by a trust indenture by and between the authority and a corporate trustee, which may be any trust company or bank having the powers of a trust company in the state of New York. Such trust indenture may contain such provisions for protecting and enforcing the rights and remedies of the bondholders as may be reasonable and proper and not in violation of law, including covenants setting forth the duties of the authority in relation to the construction, maintenance, operation, repair and insurance of the properties, and the custody, safeguarding and application of all moneys, and may provide that the properties shall be constructed and paid for under the supervision and approval of consulting engineers. The authority may provide by such trust indenture for the payment of the proceeds of the bonds and the revenues of the properties to the trustee under such trust indenture or other depository, and for the method of disbursement thereof, with such safeguards and restrictions as it may determine. All expenses incurred in carrying out such trust indenture may be treated as a part of the cost of maintenance, operation and repairs of the properties. If the bonds shall be secured by a trust indenture the bondholders shall have no authority to appoint a separate trustee to represent them.

Notwithstanding any other provisions of this title, any resolution or resolutions authorizing bonds or notes of the authority shall contain a covenant by the authority that it will at all times maintain rates, fees, rentals or other charges sufficient to pay, and that any contracts entered into by the authority for the sale or distribution of water shall contain rates, fees, rentals or other charges sufficient to pay, the cost of operation and maintenance of the properties, the principal of and interest on any obligation issued pursuant to such resolution or resolutions as the same severally become due and payable, and to maintain any reserves or other funds required by the terms of such resolution or resolutions.

§ 1099. Notes of the authority. The authority shall have power and is hereby authorized to issue negotiable bond anticipation notes in conformity with applicable provisions of the uniform commercial code and may renew the same from time to time but the maximum maturity of any such note, including renewals thereof, shall not exceed five years from the date of issue of such original note. Such notes shall be paid from any moneys of the authority available therefor and not otherwise pledged or from the proceeds of sale of the bonds of the authority in anticipation of which they were issued. The notes shall be issued in the same manner as the bonds and such notes and the resolution or resolutions authorizing the same may contain any provisions, conditions or limitations which the bonds or a bond resolution of the authority may contain. Such notes may be sold at public or private sale at not less than par and shall bear interest at a rate not exceeding five per centum per annum. Such notes shall be as fully negotiable as the bonds of the authority.

§ 1100. Duty of authority to maintain and operate. It shall be the duty of the authority, subject to any limitation on the amount of revenues to be expended for such purpose, to maintain and operate and where necessary to reconstruct its properties.

§ 1101. Transfer of officers and employees. Any public officer or employee under civil service, selected by the authority may, with the consent of the commission, board or department by which he or she has been employed, be transferred to the authority and shall be eligible for such transfer and appointment without examination to comparable offices, positions and employment under the authority. The salary or compensation of any such officer or employee shall after such transfer be paid by the authority. But notwithstanding the provisions of this act, any such officers or employees so transferred to the authority, pursuant to the provisions of this section, who are members of or beneficiaries under any existing pension or retirement system, shall continue to have all rights, privileges, obligations and status with respect to such fund, system or systems as are now prescribed by law, but during the period of their employment by the authority, all contributions to any pension or retirement fund or system to be paid by the employer on account of such officers or employee, shall be paid by the authority; and all such officers and employees who have been appointed to positions under the rules and classifications of the civil service commission of the county of Monroe shall have the same status with respect thereto after transfer to the authority as they had under their original appointments. It is hereby declared that in the interest of efficiency and insofar as may be practicable, all employees engaged in the operation of any property or properties, except in an executive capacity, at the time such property or properties shall have been acquired by the authority, pursuant to the

provisions of this act, shall become the employees of the authority. The appointment and promotion of all employees of the authority shall be made in accordance with the provisions of the civil service law (constituting chapter seven of the consolidated laws) and such rules as the civil service commission of the county of Monroe may adopt and make applicable to such authority.

§ 1102. Agreements of the state. The state of New York does pledge to and agree with the holders of the bonds or notes that the state will not limit or alter the rights hereby vested in the authority to acquire, construct, maintain, operate, reconstruct and improve the properties, to establish and collect the revenues, rates, rentals, fees and other charges referred to in this title and to fulfill the terms of any agreements made with the holders of the bonds or notes, or in any way impair the rights and remedies of the bondholders or noteholders, until the bonds or notes, together with interest thereon, interest on any unpaid installments of interest, and all costs and expenses in connection with any action or proceeding by or on behalf of the bondholders or noteholders, are fully met and discharged.

§ 1103. State, county and municipalities not liable on bonds or notes. The bonds or notes of the authority shall not be a debt of the state of New York or of the county or of any municipality in the county, and neither the state nor the county nor any municipality in the county shall be liable thereon, nor shall they be payable out of any funds other than those of the authority.

§ 1104. Bonds and notes legal investments for fiduciaries. The bonds or notes are hereby made securities in which all public officers and bodies of this state and all municipalities and municipal subdivisions, all insurance companies and associations and other persons carrying on an insurance business, all banks, bankers, trust companies, savings banks and savings associations, including savings and loan associations, building and loan associations, investment companies and other persons carrying on a banking business, and all other persons whatsoever, except as hereinafter provided, who are now or may hereafter be authorized to invest in bonds or other obligations of the state, may properly and legally invest funds including capital in their control or belonging to them; provided that, notwithstanding the provisions of any other general or special law to the contrary, such bonds or notes shall not be eligible for the investment of funds including capital, of trusts, estates or guardianships under the control of individual administrators, guardians, executors, trustees and other individual fiduciaries. The bonds or notes are also hereby made securities which may be deposited with and may be received by all public officers and bodies of this state and all municipalities and municipal subdivisions for any purpose for which the deposit of bonds or other obligations of this state is now or may hereafter be authorized.

§ 1105. Exemption from taxes. 1. It is hereby determined that the creation of the authority and the carrying out of its corporate purposes is in all respects for the benefit of the people of the county of Monroe and its environments, and is a public purpose, and the authority shall be regarded as performing a governmental function in the exercise of the powers conferred upon it by this title and shall not be required to pay any taxes, special ad valorem levies or special assessments upon any property owned by it or under its jurisdiction, control or supervision or upon its activities, or any filing, recording or transfer taxes in relation to instruments filed, recorded or transferred by it or on its behalf.

2. Any bonds or notes issued pursuant to this title, together with the income therefrom shall be exempt from taxation, except for transfer and estate taxes. The revenues, monies and other properties and the activities of the authority shall be exempt from taxes and governmental fees or charges, whether imposed by the state or any municipality, including real estate taxes, franchise taxes or other excise taxes.

3. Notwithstanding any other provisions of this chapter, the authority may make payments in lieu of taxes to municipalities and school districts on any property of the authority located within the jurisdiction of such municipality or school district. The amounts of such payments in lieu of taxes shall be as determined by the authority, provided, however, that the sum paid by the authority for any year shall in no case exceed the sum last levied by the municipality or school district as an annual tax upon the property prior to its acquisition by the authority.

§ 1106. Tax contract by the state. The state of New York covenants with the purchasers and with all subsequent holders and transferees of bonds or notes issued by the authority pursuant to this title, in consideration of the acceptance of and payment for the bonds or notes that the bonds and notes of the authority issued pursuant to this title and the income therefrom, and all moneys, funds and revenues pledged to pay or secure the payment of such bonds or notes, shall at all times be free from taxation except for transfer and estate taxes.

§ 1107. Officers and employees not to be interested in transactions. It shall be a misdemeanor for any of the members of the authority, or any officer, agent, servant or employee thereof, employed or appointed by them to be in any way or manner interested directly or indirectly in the furnishing of work, materials, supplies or labor, or in any contract therefor which the authority is empowered by this title to make.

§ 1108. Contracts. 1. All contracts, or orders, for work, material or supplies performed or furnished in connection with construction shall be awarded by the authority pursuant to resolution. Such contracts, or orders, for work, material or supplies needed for any particular purpose involving an expenditure of more than five thousand dollars shall be awarded only after inviting sealed bids or proposals therefor. The notice inviting sealed proposals shall be published at least once in a newspaper or trade paper selected by the authority for such purpose, such publication to be at least ten days before the date for the receipt of bids. If the authority shall not deem it for the interest of the authority to reject all bids, it shall award the contract to the lowest bidder, unless the authority shall determine that it is for the public interest that a bid other than the lowest bid should be accepted. In any contract for work, material or supplies, there shall be inserted in the discretion of the authority a provision that additional work may be done or material or supplies furnished for the purpose of completing such contract at an expense not exceeding fifteen percentum of the amount of such contract if such additional work, materials or supplies shall be ordered by the authority. The bidder whose bid is accepted shall give security for the faithful performance of the contract, and such other security as the authority may require, and may be required to maintain for such period as shall be stipulated any construction done under the contract, all in the manner prescribed and required by the authority; and the sufficiency of such security shall, in addition to the justification and acknowledgment, be approved by the authority. All bids or proposals shall be publicly opened by the authority or its duly authorized agent. If the bidder whose bid has been accepted after advertising shall neglect or refuse to accept the contract within five days after written notice that the same has been awarded to him on his bid or proposal, or, if he accepts but does not execute the contract and give proper security the authority shall have the right to declare his deposit forfeited, and thereupon it shall be readvertised and relet as above provided. In case any work shall be abandoned by any contractor, the authority may, if the best interests of the authority be thereby served, adopt on behalf of the authority any or all sub-contracts made by such contractor for such work and all such sub-contractors shall be bound by such adoption if made; and the authority shall in the manner provided herein readvertise and relet the work specified in the original contract exclusive of so much thereof as shall be provided for in the sub-contract or sub-contracts so adopted. No bid shall be accepted from or any contracts awarded to, any person or corporation who is in arrears to the authority, or the county of Monroe upon any debt or contract, or is a defaulter as surety or otherwise upon any obligation of the authority, or the county. Every contract involving an expenditure of more than five thousand dollars when made and entered into as herein provided for shall be executed in duplicate, one copy of which shall be held by the authority and one copy of which shall be delivered to the contractor. Upon the adoption of a resolution by a vote of two-thirds of all the members of the authority stating that, for reasons of efficiency or economy, there is need for standardization, purchase contracts for a particular type or kind of equipment, material or supplies of more than five thousand dollars may be awarded by the authority to the lowest responsible bidder furnishing the required security after advertisement for sealed bids therefor in the manner provided in this section. Such resolution shall contain a full explanation of the reasons for its adoption.

2. For the purposes of article fifteen-A of the executive law only, the authority shall be deemed a state agency as that term is used in such article, and all contracts for procurement, design, construction, services and materials shall be deemed state contracts within the meaning of that term as set forth in such article.

§ 1109. Actions. 1. In any case founded upon tort a notice of claim shall be required as a condition precedent to the commencement of an action or special proceeding against the authority or any officer, appointee or employee thereof, and the provisions of section fifty-e of the general municipal law shall govern the giving of such notice. Except in an action for wrongful death, an action against the authority for damages for injuries to real or personal property, or for the destruction thereof, or for personal injuries, alleged to have been sustained, shall not be commenced more than one year and ninety days after the cause of action therefor shall have accrued.

2. An action against the authority for wrongful death shall be commenced in accordance with the notice of claim and time limitation provisions of title eleven of article nine of this chapter.

§ 1110. Audit of authority; annual report. In conformity with the provisions of section five of article ten of the constitution, the accounts of the authority shall be subject to the supervision of the state comptroller and such state comptroller and his legally authorized representatives are hereby authorized and empowered from time to time to examine the accounts and the books of the authority, including its receipts, disbursements, contracts, leases, sinking funds, investments and any other matters relating to its financial standing. The authority shall annually submit to the governor and to the legislature a detailed report pursuant to the provisions of section twenty-eight hundred of this chapter.

§ 1111. Limitation of liability. Neither the members of the authority, nor any person or persons acting in its behalf, while acting within the scope of their authority, shall be subject to any personal liability resulting from the erection, construction, reconstruction, maintenance or operation of the properties or any of the improvements or from carrying out any of the powers expressly given in this title.

§ 1112. Title not affected if in part unconstitutional or ineffective. If any section, clause or provision of this title shall be held unconstitutional, or be ineffective in whole or in part, to the extent that it is not unconstitutional, or ineffective, it shall be valid and effective and no other section, clause or provision shall, on account thereof, be deemed invalid or ineffective.

§ 1113. Effect of inconsistent provisions. In so far as the provisions of this title are inconsistent with the provisions of any other act, general or special, or of any local law of any city, the provisions of this title shall be controlling. Nothing contained in this title shall be held to alter or abridge the powers and duties of the state department of health or of the water power and control commission over water supply matters.

**AMENDED AND RESTATED
BY-LAWS OF THE MONROE COUNTY WATER AUTHORITY**

(Section 1096, paragraph 10 of the Public Authorities Law provides that the Monroe County Water Authority shall have the power to make by-laws for the management and regulation of its affairs, and, subject to agreements with its bondholders, to make rules for the sale of water and the collection of rents and charges therefor. A copy of such By-Laws and rules, and all amendments thereto, duly certified by the Secretary of the Authority, shall be filed in the office of the Clerk of the County and thereafter published once in two newspapers having a general circulation in the County.)

**ARTICLE I
The Authority**

1. **Name of Authority.** The name of the Authority is the Monroe County Water Authority (the "Authority").
2. **Purposes.** The Authority is a public benefit corporation, created by and having the powers and functions set forth in the Monroe County Water Authority Act of the Public Authorities Law, as amended (the "Act").
3. **Fiscal Year.** The fiscal year of the Authority shall coincide with the calendar year. The Authority's fiscal year may be changed by resolution adopted at a regular or special meeting of the Authority.

**ARTICLE II
Meetings**

1. **Annual Meeting.** The annual meeting of the members of the Authority (the "Members") for the election of officers and the transaction of such other business as may properly come before it shall be held at the principal offices of the Authority, 475 Norris Drive, Rochester, New York, or at such other place, and at such time and on such date during the month of April in each year as directed by the Chairperson of the Authority.
2. **Regular Meetings.** Regular meetings of the Members shall be held at least once in each and every calendar month at a date, time and place directed by the Chairperson of the Authority.

3. Special Meetings. All special meetings may be held at any time or place within the County of Monroe on twenty-four (24) hours' notice to each Member, or upon shorter notice by written waiver of notice of such meeting signed by each Member. Such notice may be oral, by facsimile, electronically mailed, personally delivered or written.

Special meetings may be called by the Chairperson, or in his or her absence, by the Vice-Chairperson. Special meetings also may be called by any two Members.

4. Regular and Special Meetings. Any regular and special meetings shall be open for the consideration of any matter properly brought to the attention of the Authority.

5. Waiver. Notice of a meeting need not be given to any Member who submits a signed waiver whether before or after the meeting, or who attends the meeting without protesting, prior thereto or at its commencement, the lack of notice to him or her.

6. Quorum. Four Members shall constitute a quorum at any meeting duly called and held. No action shall be taken except pursuant to the favorable vote of at least four Members. A majority of the Members present, whether or not a quorum is present, may adjourn any meeting to another time and place.

ARTICLE III **Members of the Authority**

1. Term of Office. The term of office for Members shall be as fixed by Section 1095 of the Public Authorities Law (enacted into law as Chapter 804 of the Laws of 1950 as amended by Chapter 116 of the Laws of 1951, and as further amended by Chapter 938 of the Laws of 1977, and as may be further amended from time to time), and they shall have the duties and powers as set forth therein.

2. Members of the Authority:

(i) Power and General Duties. The Members shall oversee the management of the affairs of the Authority by its Executive Director and other employed officers. The Members shall establish, monitor and update from time to time such policies as they deem necessary or desirable and appropriate to promote honest and ethical conduct by the Authority's officers, employees, and to maintain and enhance the public's confidence in the Authority. To that end, the Members shall periodically review and update the Authority's code of ethics and policies regarding conflicts of interest; policies regarding the procurement or disposition of real and personal property, or interest therein, by the Authority; and policies regarding the purchase of goods and services, including service contracts. All of such policies shall be consistent with the Act, other applicable law or these By-Laws.

(ii) Fiduciary Duty. The Members shall perform each of their duties in good faith and with that degree of diligence, care and skill that an ordinarily prudent person in like position would use under similar circumstances, and

apply independent judgment in the best interest of the Authority, its mission and the public.

- (iii) Acknowledgement. Each Member shall execute an acknowledgement, in the form prescribed by the New York State Authorities Budget Office.
- (iv) Oath of Office. Within thirty (30) days after beginning their appointments, each Member shall take an oath of office as required by Section 10 of the New York Public Officers Law.

3. Governance Committee. The Authority shall appoint and constitute a standing governance committee comprised of at least three (3) independent Members who possess the necessary skills to understand the duties and functions of the Governance Committee. At least annually, the Chairperson of the Authority shall appoint the members and select the chair of the Governance Committee. The Chairperson of the Authority shall be a member ex officio of the Governance Committee and shall have the right, but not the duty, to vote on all propositions before such committee. The responsibilities of the Governance Committee shall include:

- (i) developing and recommending to the Members a set of corporate governance principles applicable to the Authority, reviewing corporate governance trends and obligations, especially as they pertain to public authorities and reporting on same periodically, reviewing the Authority's corporate governance guidelines periodically, and recommending to the Members such changes to the Authority's corporate governance guidelines as the Governance Committee from time to time deems necessary or desirable and appropriate;
- (ii) reviewing annually with the Members the appropriate skills, characteristics and experiences required of Members in the context of the then current composition of the Authority and, as applicable, advising the County Legislature on the skills and experience required of potential Members; and
- (iii) examining ethical and conflict of interest issues, performing Member self-evaluations, and recommending to the Members, as necessary, revisions to these By-Laws.

4. Audit Committee. The Authority shall appoint and constitute a standing audit committee comprised of at least three (3) independent Members who possess the necessary skills to understand the duties and functions of the Audit Committee and shall be familiar with corporate financial and accounting practices. At least annually, the Chairperson of the Authority shall appoint the members and select the chair of the Audit Committee. The Chairperson of the Authority shall be a member ex officio of the Audit Committee and shall have the right, but not the duty, to vote on all propositions before such committee. The responsibilities of the Audit Committee shall include:

- (i) reviewing and approving the Authority's financial statements;
- (ii) overseeing the Authority's internal controls and compliance systems;
- (iii) appointing, compensating and overseeing outside auditors retained by the Authority. Unless otherwise approved by the Members, such outside auditors shall not provide non-audit services to the Authority;
- (iv) resolving disagreements with respect to, and overseeing compliance with, accounting policies and principles;
- (v) reviewing management reports on internal controls and attestation of such reports by the Authority's outside auditors; and
- (vi) investigating compliance with the Authority's policies and/or referring instances of non-compliance to the appropriate offices for investigation.

5. **Finance Committee.** The Authority shall appoint and constitute a standing finance committee comprised of at least three (3) independent Members who possess the necessary skills to understand the duties and functions of the Finance Committee. At least annually, the Chairperson of the Authority shall appoint the Members and select the chair of the Finance Committee. The Chairperson of the Authority shall be a member ex officio of the Finance Committee and shall have the right, but not the duty, to vote on all propositions before such committee. The responsibilities of the Finance Committee shall include, without limitation:

- (i) reviewing proposals for the issuance of debt by the Authority;
- (ii) preparing and submitting to the Authorities Budget Office ("ABO") a statement of intent to guide the Authority's issuance and overall amount of bonds, notes, or other debt obligations that the Authority may issue by a deadline fixed by the ABO; and
- (iii) issuing recommendations regarding the issuance of debt by the Authority.

6. **Compensation Committee.** The Authority shall appoint and constitute a standing compensation committee comprised of at least three (3) independent Members who possess the necessary skills to understand the duties and functions of the Compensation Committee. At least annually, the Chairperson of the Authority shall appoint the Members and select the chair of the Compensation Committee. The Chairperson shall be a member ex officio of the Compensation Committee and shall have the right, but not the duty, to vote on all propositions before such committee. The responsibilities of the Compensation Finance Committee shall include, without limitation:

- (i) appointing, compensating and overseeing an independent compensation consultant retained by the Authority;
- (ii) working with the independent compensation consultant to create, implement, and regularly update a written compensation philosophy; and

- (iii) from time to time, reviewing and implementing procedures regarding the performance and compensation of Executive Staff of the Authority (as defined in Article IV, Section 6 of these By-Laws), including preparing a written annual performance review of the Executive Director, reviewing the annual performance reviews of other Executive Staff prepared by the Executive Director, and recommending annual salary increases based, in part, on the Authority's written compensation philosophy and the written annual performance reviews described in this item (iii).

7. Other Standing Committees. The Chairperson may, from time to time, appoint other standing committees for general or specific purposes, each consisting of at least two Members. The Chairperson shall be a member of each such committee by virtue of his office. Such standing committees will be charged with duties and responsibilities described by the Chairperson and shall report to the Authority at its regular meetings.

8. Members Compensation. Pursuant to Section 1095 of the New York Public Authorities Law, the Members shall receive such compensation as is fixed from time to time by the Monroe County legislature for the performance of their regular duties, as defined by resolution of the Members, which shall include the attendance of regular meetings of the Authority provided for in Article I of the By-Laws.

ARTICLE IV Officers of the Authority

1. The officers of the Authority shall be a Chairperson, Vice Chairperson and Treasurer, who shall be Members, and a Secretary who need not be a Member of the Authority. The Chairperson shall be elected annually by the Members at their annual meeting in accordance with Section 1095 of the Public Officers Law. The Vice Chairperson and Treasurer of the Authority shall be elected annually by the Members at their annual meeting or, in the case of a vacancy, at any regular meeting of the Members. The Secretary and any other officer shall be appointed by, and shall serve at the pleasure of, the Authority, subject to the rights of such persons under the Civil Service Law.

2. Chairperson. The Chairperson shall preside at all meetings of the Members. He or she shall sign in the name of the Authority all notes, bonds or other evidences of indebtedness when so authorized by resolution of the Authority, and shall perform such other duties as may be assigned to him or her from time to time by the Authority.

3. Vice Chairperson. The Vice-Chairperson shall, in the absence or incapacity of the Chairperson, perform the duties of that officer.

4. Treasurer. The Treasurer shall have the care and custody of all funds and securities of the Authority from whatever source derived and shall deposit the same forthwith in the name of the Authority in such bank or banks in the State of New York as the Authority shall designate. The moneys in such accounts shall be paid out on check of the Treasurer, the Executive Director or the Director of Finance and Business Services, on requisition by the Authority, or on requisition of such other person or persons as the Authority may authorize to make such requisitions. Funds not immediately required by the Authority shall be invested in accordance with the Authority's investment policy and applicable law.

5. Secretary. The Secretary shall keep the minutes of the meetings of the Authority; shall attend to the serving of notices of all meetings, regular or special; shall affix the seal to all papers or documents as may require it; shall attend to such correspondence as may be assigned to him or her; and shall perform all the duties as the Authority may designate. The Authority may designate an Acting Secretary who, in the absence or incapacity of the Secretary, shall perform the duties of that officer.

6. Other Officers and Employees. From time to time, the Authority shall appoint and assign the duties and qualifications of one or more of an Executive Director, a Director of Finance and Business Services, an Executive Engineer, a Personnel Manager, a Director of Production/Water Supply, a Director of Operations, a Director of Facilities and Fleet Maintenance, a Civil Engineer - Water Distribution, a Director of Information Technology, and an Assistant to the Executive Director (collectively, and together with the Secretary, the "Executive Staff"), subject to the applicable terms of the Civil Service Law of the State of New York. The Authority may appoint, and at its pleasure remove, such other officers and employees as it may require for the performance of its duties, fix and determine their qualification, duties and compensation, subject to the provisions of the Civil Service Law of the State of New York.

7. Contracts; Authority to Execute. The Members may, by resolution, authorize any officer or agent to enter into any contract or execute and deliver any instrument in the name of and on behalf of the Authority, and such authority may be general or confined to specific instances; but, unless so authorized by the Members by resolution, or expressly authorized by these By-Laws, no officer, agent or employee shall have any power or authority to (i) bind the Authority by any contract or engagement other than in the ordinary course of the Authority's business or (ii) pledge the Authority's credit or to render it liable financially in any amount for any purpose, except for the payment of a debt or obligation not in excess of:

- (i) for all contracts, or orders, for work, materials or supplies performed or furnished in connection with construction, the sum of \$5,000.00; and
- (ii) for all other purposes, the sum of \$15,000.00.

The foregoing limitations shall not apply to the payment of the Authority's obligations under, in connection with or pursuant to any contract or engagement that has been properly authorized in accordance with these By-Laws.

8. Defense and Indemnification of Members, Officers and Employees. The Authority shall defend, indemnify and save harmless its employees (as "employee" is defined in Section 18 (1)(b) of the Public Officers Law of the State of New York) to the full extent authorized or permitted by Section 18 of the Public Officers Law (being Chapter 277 of the Laws of 1981) or by any other applicable law. Said Section 18 of the Public Officers law is incorporated by reference herein as if fully set forth in this Section 8. The Authority makes the agreements required by Section 2(b) of said Section 18 of the Public Officers Law and is authorized to provide insurance as permitted by Section 8 of said Section 18 of the Public Officers Law.

ARTICLE V
Amendments

1. These By-Laws may be repealed or amended by the Monroe County Water Authority at any duly called regular or special meeting of the Authority, provided, however, that any motion to repeal or amend these By-Laws shall not be adopted until the same has laid on the table until the next succeeding regular meeting.

ARTICLE VI
Seal

1. The seal of the Water Authority shall be circular in form and shall bear the name of the Monroe County Water Authority, State of New York and 1951. Thus:

I, KATHLEEN EISENMANN, duly appointed and qualified Secretary of the Monroe County Water Authority do hereby CERTIFY that the foregoing is a true, correct and complete copy of the By-Laws of said Monroe County Water Authority, as amended April 12, 2018.

WITNESSETH, my hand and seal this 12th day of April 2018.


Kathleen A. Eisenmann,
Secretary to the Authority

MISSION STATEMENT
RE-ADOPTED MARCH, 2022

The Monroe County Water Authority is a not-for-profit public benefit corporation that reliably provides quality, affordable water that fosters economic vitality and enhanced quality of life for Monroe County and area communities who request service.



REPORT ON 2022 PERFORMANCE MEASUREMENTS

The Monroe County Water Authority (Authority) evaluated and monitored the following goals and global performance measurements to assess our effectiveness in meeting our mission.

The **reliability** component of our mission was evaluated by the following:

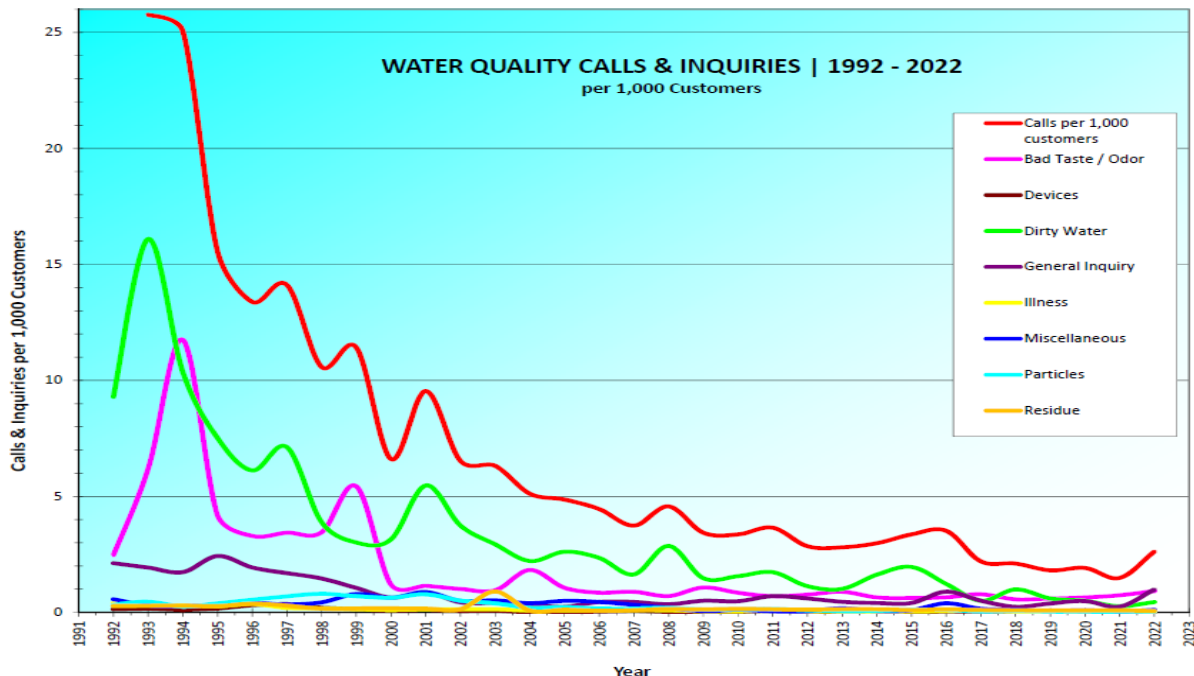
- Continuity of production capacity is paramount. Unplanned outages from treatment plants and pumping stations are tracked by the number of events and duration of events. As each of these facilities is unique and will have a varying level of severity of impact, each outage event of greater than four hours is assessed and, if necessary, an action plan to minimize impacts is developed.
 - ✓ **Results for 2022:** *There were no unplanned outages of supply capacity lasting more than four hours. Outages of specific treatment components, tanks, pumps and water mains were either planned in advance or did not lead to a significant reduction in capacity. The Authority's treatment, distribution and storage systems have been designed with redundancy and flexibility so that individual components may be temporarily taken out of service while maintaining the Authority's full ability to meet customer demands.*
- Distribution system reliability is measured by an assessment of the combined number of leaks and main breaks per mile of water main as benchmarked against the most recent American Water Works Association Benchmarking Report. Our goal is to achieve a benchmark that is better than the national average ratio.
 - ✓ **Results for 2022:** *The AWWA benchmark to meet the system integrity goal is to be less than 18.5 combined leaks and main breaks per 100 miles of water main per year, which is the national median value for systems serving more than 500,000 people per their 2022 Benchmarking Report. Our distribution system includes 3,435 miles of water main. In 2022 the combined number of leaks and main breaks repaired was 737 yielding a system integrity rating of 21.4, which is slightly higher than AWWA's national median value.*
- Maintaining the long-term reliability of our infrastructure requires a planned reinvestment in its renewal. Our goal is to implement a budget that reinvests a minimum of 2% of annual revenues in the renewal and replacement of our infrastructure.
 - ✓ **Results for 2022:** *The Authority's 2022 budget for infrastructure related renewal and replacement reinvestment was as follows:*

▪ Security:	\$ 100,000
▪ Production & Transmission:	\$ 3,865,000
▪ Engineering:	\$ 10,640,000
▪ Facilities Fleet Operations:	\$ 2,609,950
▪ Finance & Business Services	\$ 3,001,990
▪ Total	\$ 20,216,940

Although most projects in the budget were either initiated or completed in 2022, some were delayed due to persistent pandemic-related supply chain impacts resulting in significant increases in material lead times and cost. It is anticipated that these will be initiated and/or completed in 2023. This reinvestment in infrastructure replacement was greater than the goal amount.

The **quality** aspect of our mission was evaluated by:

- Our goal is to produce and deliver water that meets or exceeds the requirements of state and federal water quality regulations. This is measured by compliance with each regulated parameter and is reported to the Board, and our customers, in an annual Water Quality Report.
 - ✓ **Results for 2022:** All of the Authority’s produced and delivered water supplies were in full compliance with New York State Department of Health and United States Environmental Protection Agency regulatory requirements. Our Annual Water Quality Report reflecting this achievement will be made available to our customers on the MCWA.com website or delivered to customers in accordance with the revised USEPA regulations regarding the Consumer Confidence Report requirements.
- Our Customer Service Information System includes tracking mechanisms for categorizing and measuring the number of customer calls and inquiries that are specific to quality. Trends and specific events are analyzed and, if necessary, action plans are to be implemented.
 - ✓ **Results for 2022:** The Authority received approximately 496 quality related calls and inquiries from customers in 2022 (2.6 calls per thousand customers). The Shoremont Water Treatment Plant Laboratory handled 125 of these calls and inquiries. The number of quality related calls and inquiries per thousand customers is a 73% increase from 2021. The majority of the calls were in the General Inquiry category, which increased by almost 300% from 2021. This was followed by the Bad Taste/Odor and Dirty Water categories, which increased by 25% and 68% respectively from 2021.



The **affordable** component of our mission was judged in relation to:

- Our goal is to achieve a better than average cost of service for a typical residential customer as benchmarked against our peer group of New York State water purveyors.
- ✓ **Results for 2022:** *The analyses of the rates charged for a typical residential customer for our peer group is presented below. The Authority rates just outside of the lower quartile, significantly better than the 2022 goal.*

Comparison of January 2023 Water Charges ^{1, 2, 3}				
(All amounts in \$)				
	Annual Fixed Charge	Annual Consumption-Based Charge	Annual Minimum Charge	Annual Total Charge
Albany Water Board	0	291	124	291
City of Syracuse	0	303	168	303
City of Watertown	0	323	147	323
Suffolk County Water Authority	202	155	202	358
City of Rochester	105	253	105	359
Monroe County Water Authority	95	266	95	361
City of Binghamton	51	315	191	366
Erie County Water Authority	102	298	255	400
New York City	0	402	179	402
Buffalo Water Board	200	214	200	413
City of Yonkers	226	197	226	423
Onondaga County Water Authority	166	263	166	429
Western Nassau Water Authority	0	433	247	433
Niagara Falls Water Board	15	419	233	434
Elmira Water Board	0	456	175	456
City of Poughkeepsie	11	455	147	465
Mohawk Valley Water Authority	144	379	301	523
Average	77	319	186	396
Notes				
¹ Charges are based on rates in effect in January 2023.				
² Charges assume a single family residential customer using a 5/8" meter and 70,000 gallons of water per year.				
³ Minimum charges include fixed charges.				

- The ratings on our bonds affect the cost of capital to our customers and also provide an outside perspective and analysis of the overall financial health of the Water Authority. Our goal is to maintain a double A rating or better from the rating agencies.
- ✓ **Results for 2022:** *Our Moody's and Standard & Poor's ratings are listed below. These were reviewed and assigned by both agencies in March 2020 with the issuance of the Water System Revenue Refunding Bonds Series 2020.*
 - *Standard and Poor's: AA+*
 - *Moody's: Aa1*

The measure of our water supply **fostering economic vitality** was judged by:

- Our goal is to produce and deliver water in a manner that meets both our residential and our commercial/industrial customer's needs; to both retain current users and attract those looking to locate in our service area.

✓ **Results for 2022:** *Presented below is a summary of new service inquiries:*

- 48 new Industrial/Commercial customer applications
- 658 new residential water services:
 - 492 generated by new residential subdivisions
 - 18 generated by new water districts
 - 26 generated by secondary source change-overs
 - 122 generated by new construction

The response to **requests for service** received from area communities' component of our mission was measured by:

- Requests for service can be accurately measured by reporting and tabulating contacts from local communities. Internal procedures require all such contacts of this nature be directed to the Executive Director, who will annually report all such requests and the status thereof to the Board.

✓ **Results for 2022:** *Presented below is a summary of contacts from existing communities for lease renewals, contacts made by water purveyors that are presently un-served, or communities looking to upgrade service from wholesale to retail:*

- *An inquiry to renew an existing retail lease agreement was made to the Executive Director by the Supervisor of the Town of Pavilion as they are considering a new water district and the proposed district funding will require the term of the lease to exist beyond the term of the financing. It is anticipated that a lease renewal will be presented to the Board for consideration in 2023.*
- *An inquiry to renew an existing retail lease agreement was made to the Executive Director by the Supervisor of the Town of Chili. The Town of Chili requested a temporary license agreement for the MCWA to allow the installation of the Department of Public Works (DPW) communication antenna on the Chestnut Ridge Water Storage tank. The license agreement is an interim measure while a retail lease agreement is considered that will incorporate conditions related to the DPW antenna installation. It is anticipated that a lease renewal will be presented to the Board for consideration in 2023.*
- *An inquiry to renew an existing retail lease agreement with the Town of Henrietta was made to the Executive Director by the Supervisor of the Town of Henrietta. The Town of Henrietta was considering requirements in the existing retail lease agreement that dictate parameters for the district. A new retail lease agreement provides flexibility as related to water district facilities. The Town has not continued discussions regarding lease renewal.*



PERFORMANCE MEASUREMENTS FOR 2023

The Monroe County Water Authority will evaluate and monitor the following goals and global performance measurements to assess our effectiveness in meeting our mission.

The **reliability** component of our mission will be evaluated by the following:

- Continuity of production capacity is paramount. Unplanned outages from treatment plants and pumping stations are tracked by the number of events and duration of events. As each of these facilities is unique and will have a varying level of severity of impact, each outage event of greater than four hours is assessed and, if necessary, an action plan to minimize impacts is to be developed.
- Distribution system reliability is measured by an assessment of the number of main breaks per mile of water main as benchmarked against the most recent American Water Works Association Benchmarking Report. Our goal is to achieve a benchmark that is better than the national average ratio.
- Maintaining the long-term reliability of our infrastructure requires a planned reinvestment in its renewal. Our goal is to implement a budget that reinvests a minimum of 2% of annual revenues in the renewal and replacement of our infrastructure.

The **quality** aspect of our mission will be evaluated by:

- Our goal is to produce and deliver water that meets or exceeds the requirements of state and federal water quality regulations. This is measured by compliance with each regulated parameter and is reported to the Board, and our customers, in an annual Water Quality Report.
- Our Customer Service Information System includes tracking mechanisms for categorizing and measuring the number of customer calls and inquiries that are specific to quality. Trends and specific events are analyzed and, if necessary, action plans are to be implemented.

The **affordable** component of our mission will be judged in relation to:

- Our goal is to achieve a better than average cost of service for a typical residential customer as benchmarked against our peer group of New York State water purveyors.
- The ratings on our bonds affect the cost of capital to our customers and also provide an outside perspective and analysis of the overall financial health of the Water Authority. Our goal is to maintain a double A rating or better from the rating agencies.

The measure of our water supply **fostering economic vitality** will be judged by:

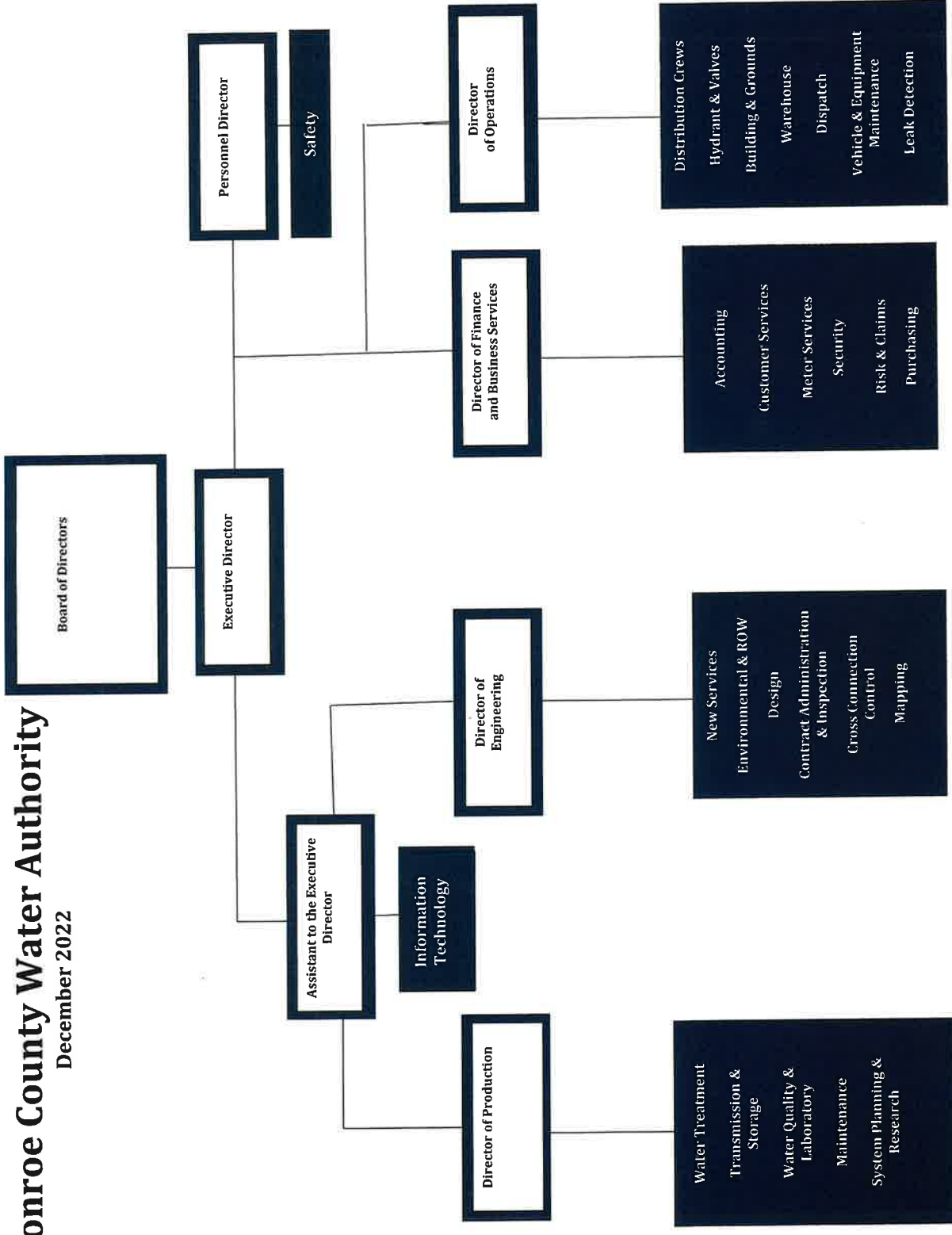
- The availability of a plentiful, high quality water supply can be a critical differentiator for attracting new businesses, and the associated economic benefits of new jobs, to our service area. Our goal is to produce and deliver water in a manner that meets our residential and our commercial/industrial customer's needs; to both retain current users and attract those looking to locate in our service area. New service inquiries are handled by our Engineering Department who will annually report a summary of such requests and their status to the Board.

The response to **requests for service** received from area communities component of our mission will be measured by:

- Requests for service can be accurately measured by reporting and tabulating contacts from local communities. Internal procedures require all such contacts of this nature be directed to the Executive Director, who will annually report all such requests and the status thereof to the Board.

Monroe County Water Authority

December 2022



MONROE COUNTY WATER AUTHORITY

Officers and Members of the Authority

By statute, MCWA Board Members are appointed by the President of the Monroe County Legislature, subject to confirmation by a majority of the Legislature.

Scott D. Nasca is the President of Generation Capital Management, LLC in Rochester, New York. He is the former Principal and Director of Equity Investments at Karpus Investment Management in Pittsford, New York.

Mr. Nasca currently serves as a member of the Association for Investment Management and Research as well as the Rochester Society of Security Analysts.

Mr. Nasca holds an MBA with a concentration in Finance from the Rochester Institute of Technology.

He was appointed to the Water Authority's Board of Directors in January 2014 and has served as Vice Chairperson. In 2018, Mr. Nasca became Chairperson, and as Chairperson is a member ex officio of all standing Committees.

Matthew J. Fero is a partner in the law firm of Fero & Ingersoll, LLP. He is engaged in the general practice of law with a specific concentration in family law.

Mr. Fero received his Bachelor's Degree from St. Lawrence University in 1998 and his law degree from Suffolk University School of Law in 2003. He is a member of the Monroe County Bar Association and the New York State Bar Association. Mr. Fero was admitted to the New York State Bar Fourth Judicial Department in 2004 and subsequently to the Federal Bar in the Western District of New York and United States Bankruptcy Court.

Mr. Fero was the recipient of the James R. Boyle Award for child advocacy in 2013 and the William E. McKnight Volunteer Service Award in 2016.

He was appointed to the Water Authority's Board of Directors in January 2018 and currently serves as Vice Chairperson; he is also a member of the Audit and Chairperson of the Compensation Committees.

Joseph R. Rulison is Co-Founder and CEO at Three+One advisors. He is the former Managing Director for the Upstate New York market for J.P. Morgan Private Bank.

A Board Member and Treasurer for the Monroe County Water Authority, Mr. Rulison also serves as Chair of the Audit Committee and a member of the Finance Committee. In addition, he serves on the Board of Directors at Visit Rochester and the Memorial Art Gallery, as well as being a Trustee and past Chair for St. John Fisher College, and Trustee to the University of Redlands, Redlands, California. He formerly served as the Chairman of the County of Monroe Industrial Development Agency (COMIDA) and Chairman of the Board of Trustees for Geva Theater.

Mr. Rulison holds an Honorary Doctor of Law degree from St. John Fisher College.

Allen S. Bernstein is Operations Director at Travel Desk Inc. He was formerly an investigator for the Monroe County Sheriff's Office in the White Collar Crime Unit and has previously served as a Commissioner of the Rochester Genesee Regional Transit Authority and as a board member of Rochester Crimestoppers.

Mr. Bernstein was trained at the FBI Academy in Virginia and attended numerous seminars dealing with all facets of law enforcement. He is a graduate of Monroe Community College.

He was appointed to the Water Authority's Board of Directors in January 2014 and is Chair of the Finance Committee and a member of the Compensation Committee.

Sheryal A. Volpe is an independent NYS Licensed Real Estate Broker who specializes in commercial sales, leasing and property management.

Mrs. Volpe previously served on the Ontario County Board of Supervisors and was Planning Committee Chair; Canadice Town Supervisor, Budget Officer, Assessor Chairwoman; Former Vice President of Genesee Finger Lakes Regional Planning Council.

Mrs. Volpe is also Vice President of Patriot Business and Realty Services Corporation.

She was appointed to the Water Authority's Board of Directors in November 2015 and is Chair of the Governance Committee and a member of the Compensation Committee.

Marcia Van Vechten is a former Account Executive at the American Red Cross, collaborating with not-for-profit, governmental agencies, and private entities on safety training and protocols. She also served as an Account Executive at both Nextel Partners and A&T Wireless, working with local businesses and municipalities on wireless solutions. Currently, she is a New York State Licensed Real Estate Salesperson.

Ms. Van Vechten earned a MS degree in Service Leadership and Innovation from Rochester Institute of Technology and a BA in Business Management from Marymount Manhattan College. Her current and past affiliations include the United Way African American Leadership Development Program, Democrat and Chronicle Board of Contributors, Rochester Children's Zone Facilitator and Past Chair, Placement Resource Committee of United Way.

Ms. Van Vechten was appointed to the Board in April of 2021 and is a member of the Finance Committee and Governance Committee.

Sheila R. Mason is a freelance graphic designer who also worked in community relations and marketing. She volunteers and served on committees with the MDA/ALS, Nativity Preparatory, McQuaid Jesuit, Our Lady of Mercy, among others. She is a graduate of Our Lady of Mercy High School and has a B.S. from Nazareth College.

Mrs. Mason was appointed to the Water Authority's Board of Directors in April 2022 and is a member of the Governance and Audit Committees.

Name	Appointment/Reappointment Date	Term Expiration Date
Scott D. Nasca	03/12/2019	04/01/2024
Matthew J. Fero	04/12/2022	04/01/2027
Joseph R. Rulison	03/12/2019	04/01/2024
Allen S. Bernstein	06/12/2018	04/01/2023
Sheryal A. Volpe	04/13/2021	04/01/2026
Marcia Van Vechten	04/13/2021	04/01/2026
Sheila R. Mason	04/12/2022	04/01/2027

MANAGEMENT OF THE AUTHORITY

Nicholas A. Noce, appointed Executive Director for the Authority on December 1, 2011 following a 15-month period serving as Interim Executive Director. He has been employed with the Authority since May of 2005 and previously held the position of Director of Finance & Business Services. He received a Bachelor of Science degree from Niagara University and is a member of the NYS Government Finance Officers Association and American Water Works Association. During his tenure as Director of Finance & Business Services his fiscal guidance contributed to the Authority's strong bond ratings. Prior to joining the Authority, Mr. Noce held various financial positions in another public benefit corporation.

Amy A. Molinari, Appointed Director of Finance & Business Services for the Authority in July of 2019. She received a Bachelor of Science degree in Accounting and a Master of Business Administration degree with an Accounting concentration from St. John Fisher College. Prior to joining the Authority, Ms. Molinari was the Senior Debt Management Coordinator for the County of Monroe.

Stephen M. Savage, P.E., Director of Engineering for the Authority since February 2008 and has been employed with the Authority since January 2006. He received a Bachelor of Science degree in Civil Engineering from Rochester Institute of Technology. Before joining the Authority, Mr. Savage was a project manager with MRB Group, P.C. (a municipal consulting engineering firm) in Penfield, New York.

Christopher J. LaManna, P.E., Director of Production and Transmission for the Authority since July 2018. He received a Bachelor of Science Degree in Civil Engineering from Syracuse University and a Master of Science Degree in Civil Engineering from San Jose State University. Prior to joining the Authority, Mr. LaManna was a consulting engineer for 27 years in the field of municipal water engineering.

Stephen T. Trotta, Director of Operations for the Authority since May 2021. Mr. Trotta has been employed with the Water Authority for more than 40 years, starting with the hydrant crew in the summer of 1980. He was hired on as a full-time crew member in 1982 and was promoted to warehouse supervisor in 1996. He served as the valve and hydrant division supervisor and then as distribution manager, before his appointment to director in 2021. He also serves as the Operator in Charge for the Distribution System.

MCWA BOARD COMMITTEES & MEMBERS FOR 2022

Audit Committee

Committee Created January, 2005

Joseph R. Rulison (Committee Chair)
Matthew J. Fero
Sheila R. Mason
Scott D. Nasca (Ex-Officio)

Governance Committee

Committee Created August, 2005

Sheryal A. Volpe (Committee Chair)
Sheila R. Mason
Marcia Van Vechten
Scott D. Nasca (Ex-Officio)

Finance Committee

Committee Created March, 2010

Allen S. Bernstein (Committee Chair)
Joseph R. Rulison
Marcia Van Vechten
Scott D. Nasca (Ex-Officio)

Compensation Committee

Committee Created April, 2018

Matthew J. Fero (Committee Chair)
Allen S. Bernstein
Sheryal A. Volpe
Scott D. Nasca (Ex-Officio)

MONROE COUNTY WATER AUTHORITY – BOARD MEETINGS 2022 – BOARD ATTENDANCE

- **JANUARY 13, 2022 REGULAR BOARD MEETING**
Four (4) Members were in attendance: Mr. Fero, Mr. Rulison, Mrs. Volpe, and Mrs. Van Vechten. Members Absent, Three (3): Chairman Nasca, Mr. Bernstein, Mr. Hurlbut.
- **FEBRUARY 10, 2022 REGULAR BOARD MEETING**
Six (6) Members were in attendance: Chairman Nasca, Mr. Fero, Mr. Hurlbut, Mr. Rulison, Mrs. Volpe, and Mrs. Van Vechten. Members Absent, One (1): Mr. Bernstein.
- **MARCH 10, 2022 REGULAR BOARD MEETING**
Six (6) Members were in attendance: Chairman Nasca, Mr. Rulison, Mr. Fero, Mrs. Volpe, Mrs. Van Vechten, and Mr. Bernstein (arrived at 9:18 a.m.). Members Absent, One (1): Mr. Hurlbut.
- **APRIL 21, 2022 REGULAR BOARD MEETING, FOLLOWED BY ANNUAL MEETING**
Six (6) Members were in attendance: Chairman Nasca, Mr. Rulison, Mr. Fero, Mrs. Volpe, Mrs. Van Vechten, and Mrs. Mason. Members Absent, One (1): Mr. Bernstein.
- **MAY 12, 2022 REGULAR BOARD MEETING**
Seven (7) Members were in attendance: Chairman Nasca, Mr. Fero, Mr. Rulison, Mrs. Volpe, Mrs. Mason, Mr. Bernstein, and Mrs. Van Vechten. All present.
- **JUNE 09, 2022 REGULAR BOARD MEETING**
Seven (7) Members were in attendance: Chairman Nasca, Mr. Fero, Mr. Rulison, Mrs. Volpe, Mrs. Mason, Mr. Bernstein, and Mrs. Van Vechten. All present.
- **JULY 14, 2022 REGULAR BOARD MEETING**
Five (5) Members were in attendance: Chairman Nasca, Mr. Rulison, Mr. Bernstein, Mrs. Mason and Mrs. Van Vechten. Members Absent, Two (2): Mr. Fero, Mrs. Volpe.
- **AUGUST 11, 2022 REGULAR BOARD MEETING**
Six (6) Members were in attendance: Chairman Nasca, Mr. Rulison, Mrs. Volpe, Mrs. Mason, Mr. Bernstein, and Mrs. Van Vechten. Members Absent, One (1): Mr. Fero.
- **SEPTEMBER 08, 2022 REGULAR BOARD MEETING**
Seven (7) Members were in attendance: Chairman Nasca, Mr. Fero, Mr. Rulison, Mrs. Volpe, Mrs. Mason, Mr. Bernstein, and Mrs. Van Vechten. All present.
- **OCTOBER 06, 2022 REGULAR BOARD MEETING**
Five (5) Members were in attendance: Chairman Nasca, Mr. Fero, Mrs. Volpe, Mr. Bernstein and Mrs. Van Vechten. Members Absent, Two (2): Mr. Rulison, Mrs. Mason
- **NOVEMBER 10, 2022 REGULAR BOARD MEETING**
Six (6) Members were in attendance: Chairman Nasca, Mr. Fero, Mrs. Volpe, Mrs. Mason, Mr. Bernstein and Mrs. Van Vechten. Members Absent, One (1): Mr. Rulison,
- **DECEMBER 07, 2022 REGULAR MEETING**
Seven (7) Members were in attendance: Chairman Nasca, Mr. Fero, Mr. Rulison, Mrs. Volpe, Mrs. Mason, Mr. Bernstein, and Mrs. Van Vechten. All present.

Summary Results of Confidential Evaluation of Board Performance – year-ending 2022

Criteria	Agree #	Somewhat Agree #	Somewhat Disagree #	Disagree #
Board members have a shared understanding of the mission and purpose of the Authority.	7			
The policies, practices and decisions of the Board are always consistent with this mission.	7			
Board members comprehend their role and fiduciary responsibilities and hold themselves and each other to these principles.	7			
The Board has adopted policies, by-laws, and practices for the effective governance, management and operations of the Authority and reviews these annually.	7			
The Board sets clear and measurable performance goals for the Authority that contribute to accomplishing its mission.	7			
The decisions made by Board members are arrived at through independent judgment and deliberation, free of political influence or self-interest.	7			
Individual Board members communicate effectively with executive staff so as to be well informed on the status of all important issues.	7			
Board members are knowledgeable about the Authority's programs, financial statements, reporting requirements, and other transactions.	7			
The Board meets to review and approve all documents and reports prior to public release and is confident that the information being presented is accurate and complete.	6	1		
The Board knows the statutory obligations of the Authority and if the Authority is in compliance with state law.	6	1		
Board and committee meetings facilitate open, deliberate and thorough discussion, and the active participation of members.	7			
Board members have sufficient opportunity to research, discuss, question and prepare before decisions are made and votes taken.	7			
Individual Board members feel empowered to delay votes, defer agenda items, or table actions if they feel additional information or discussion is required.	7			
The Board exercises appropriate oversight of the CEO and other executive staff, including setting performance expectations and reviewing performance annually.	7			
The Board has identified the areas of most risk to the Authority and works with management to implement risk mitigation strategies before problems occur.	6	1		
Board members demonstrate leadership and vision and work respectfully with each other.	7			

Name of Authority: **MONROE COUNTY WATER AUTHORITY** ("MCWA")

Date Completed: **March 16, 2023**

The 7 Members serving on the MCWA Board as of year-end 2022

2022 Monroe County Water Authority Annual Compensation

<u>Employee Name</u>	<u>Title</u>	<u>Annual Base Salary</u>	<u>Other Benefits*</u>	<u>Total</u>
Noce, Nicholas	Executive Director	\$252,762	\$22,716.11	\$275,478.11
Magguilli, Larry	Assistant to Executive Director	176,738	2,198.48	178,936.48
Savage, Stephen	Civil Engineer/Director of Engineering	169,499	13,789.25	183,288.25
LaManna, Christopher	Director of Production/Water Supply	159,890	892.46	160,782.46
King, Christian	Senior Production Engineer	152,027	2,322.00	154,349.00
Hendrickson, Diane	Personnel Director	147,805	19,125.79	166,930.79
Ziki, Ann	Water Supply Design Engineer	141,918(1)	83,688.48	97,115.68
Molinari, Amy	Director of Finance/Business Services	142,002	3,695.09	145,697.09
Trotta, Stephen	Director of Operations	139,859	17,324.77	157,183.77
Moore, Justin	Director of Information Technology	130,000	4,755.00	134,755.00
Ferguson, Tod	Construction Engineer	129,002	1,987.80	130,989.80
Romagnolo, Felicia	Manager of Customer Services	129,002	1,663.80	130,665.80
Villarrubia, Wilfredo	Construction Engineer	124,654(2)	82,608.93	94,477.33
Connors, Rhonda	Senior Programmer Analyst	121,389	2,878.25	124,267.25
Kromer, Stephen	Distribution Manager	120,432	2,203.20	122,635.20

2022 Monroe County Water Authority Annual Compensation

<u>Employee Name</u>	<u>Title</u>	<u>Annual Base Salary</u>	<u>Other Benefits*</u>	<u>Total</u>
Putney, Zynon	Senior Computer Programmer	120,432(3)	3,982.20	90,022.20
Quattrone, Michael	Manager of Warehouse & Fleet	120,432	4,675.30	125,107.30
Rawlins, Lisa	Assistant Director of Finance	117,770	1,638.00	119,408.00
Ferris, Brian	Senior Network Technician	117,291	1,666.30	118,957.30
Ippolito, Gregory	Supervisor of Meter Services	116,355	1,855.80	118,210.80
Lana, Samuel	Distribution Manager	116,355	3,571.35	119,926.35
Cleveland, Roy	Project Engineer	114,213	1,803.00	116,016.00
Lukaszewski, Glen	Senior Network Technician	113,318	177.60	113,495.60
Driffill, Daniel	Superintendent of Plant Maintenance	112,424	600.00	113,024.00
Priem, Samuel	Construction Engineer (4)	109,221	501.60	109,722.60
Naugle, Kenneth	Production Engineer	105,789	4,351.00	110,140.00

*Includes medical reimbursement, excess and dependent life insurance, longevity, buy back of benefit time earned, cellular phone reimbursement, and healthcare buyout.

2022 Monroe County Water Authority Annual Compensation

- (1) Ziki, Ann – retired 01/28/2022
- (2) Villarrubia, Wilfredo – retired 01/28/2022
- (3) Putney, Zynon – resigned 09/12/2022

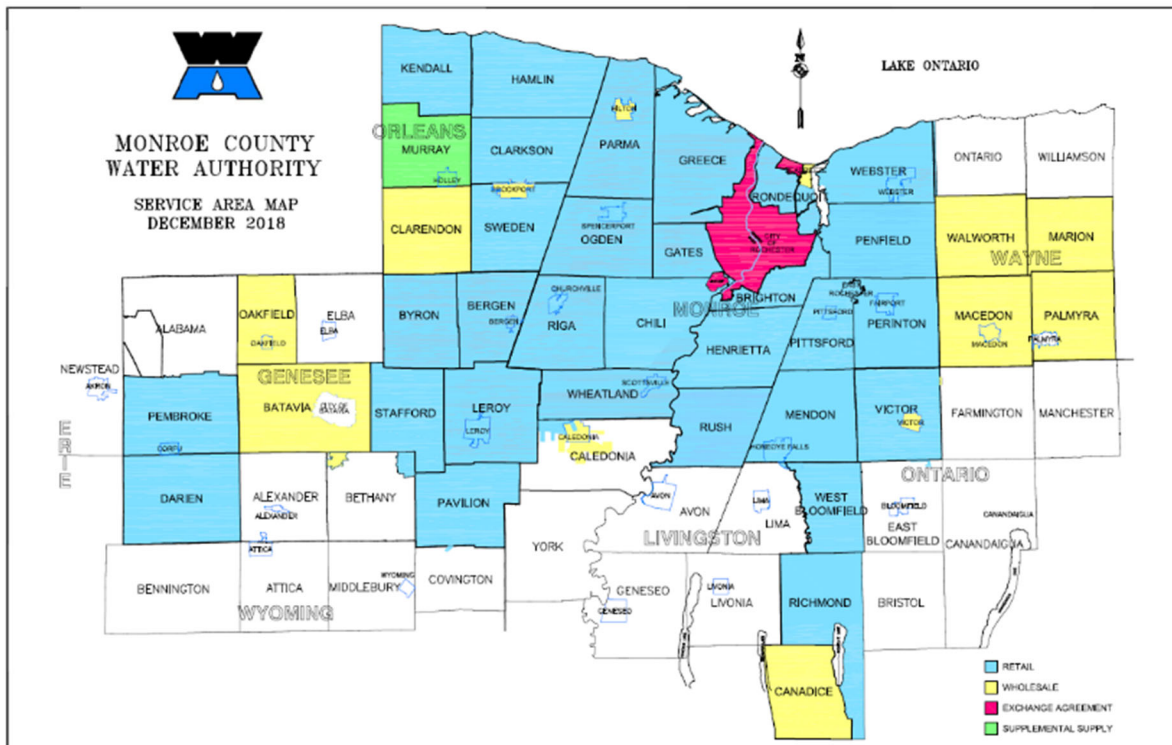
**MONROE COUNTY WATER AUTHORITY
NUMBER OF EMPLOYEES
4TH QUARTER
2022**

	FULL TIME	PART TIME	CO-OP, TEMP & SEASONAL	TOTALS
ADMINISTRATION	6	7	0	13
PROD. & TRANS.	48	0	0	48
ENGINEERING	28	1	0	29
OPERATIONS	73	0	0	73
BUSINESS SERV.	<u>48</u>	<u>3</u>	<u>0</u>	<u>51</u>
TOTAL	203	11	0	214

OPERATIONS OF THE MONROE COUNTY WATER AUTHORITY

BACKGROUND

The Monroe County Water Authority (the "Authority") services Monroe County and portions of each of the five surrounding counties. Our service area includes over 50 towns, villages, cities, and other water authorities. The Authority presently serves approximately 200,000 separate retail, wholesale, and other customer accounts. It also provides the City of Rochester with up to 26 million gallons per day (mgd) for distribution within its retail service area.



The Authority currently sets rates at levels sufficient to pay debt service on outstanding Authority obligations, to pay operating and maintenance expenses, and to make payments to the County under the existing lease and financing agreement between the Authority and the County.

WATER SUPPLY

The Authority's primary source of water is Lake Ontario. The water is treated at the Shoremont Water Treatment Plant (WTP) in the Town of Greece, and the 50 mgd Webster WTP in the Town of Webster. The Authority's other major source of water consists of water purchases from the City of Rochester pursuant to an existing exchange agreement. This water comes from Hemlock and Canadice Lakes in Livingston County south of Monroe County.

The Authority can also purchase water from the Town of Ontario, Wayne County; the City of Batavia, Genesee County; and the Erie County Water Authority. These sources are minor in relation to the overall water system and are for our convenience or pursuant to terms of agreements when the Authority became the provider of water.

The Authority provides water on a retail or wholesale basis. In retail areas the Authority supplies the water, maintains the distribution system, and bills the customer directly. In wholesale areas, a municipality or water district buys some or all of its water from the Authority, but maintains its own distribution and customer billing systems.

FACILITIES

The Shoremont and Webster Water Treatment Plants employ the direct filtration process using Lake Ontario as their source of supply. The main components of each plant are the raw water intake, pumping and transmission, chemical addition, rapid mixing, contact basins, filtration, residuals disposal, clearwell storage, and high lift pumping. The Authority also operates a small well supply to a plant in the Village of Corfu. With the exception of the Corfu plant, the entire water supply receives the same chemical process, coagulation, filtration, carbon absorption, and disinfection. The Corfu Water Plant uses carbon absorption, softening, and disinfection. Water is pumped from the treatment plants to storage facilities and customers in the water system service area through approximately 3,400 miles of transmission and distribution mains, ranging in diameter from 2-inch to 60-inch. The water system operates 49 pumping stations to provide the pressure to distribute water to storage facilities and customers. The system includes two reservoirs and 53 other storage facilities with an aggregate capacity of 140 million gallons. All service connections are metered, with the meters owned by the Authority.

As with most other water systems, our water usage also varies year to year depending on weather variations. Hot, dry summers tend to increase water usage, while colder and wetter summers tend to dampen or reduce water usage.

FINANCIAL HIGHLIGHTS

Water Authority Rates & Charges – The Authority sets its rates annually in concurrence with the adoption of its annual operating budget. The Authority is required by its Trust Indenture dated October 1, 1991 and Supplemental Indentures issued with and specific to each subsequent revenue bond issue (Trust Indentures) to set rates and fees sufficient to cover all its operating and capital expenses. The Authority raised rates in 2022 to achieve the projected revenues to cover total budgeted expenses.

Summary of Operating Revenues

	<u>2022</u>
Water Sales:	
Residential/Quarterly	\$67,471,091
Large Commercial/Monthly	7,346,583
Water Districts/Wholesale	<u>4,788,030</u>
Total Water Sales	\$79,605,704
Other Water and Operating Revenue	<u>5,336,214</u>
Total Operating Revenue	\$84,941,918

OPERATING EXPENSES

The Authority's expenses (excluding depreciation and amortization) are budgeted and tracked functionally by operating department. The Authority is functionally divided into: Administration; Production/Transmission; Engineering; Facilities, Fleet & Operations; and Finance & Business Services.

The following is a breakdown of the Authority's functional expenses by operating department (excluding depreciation and amortization):

Functional Expenses

	2022
Administration	\$3,776,000
Production/Transmission	15,948,831
Engineering	3,249,832
Facilities, Fleet & Operations	13,889,840
Finance & Business Services	<u>6,973,322</u>
Total Functional Expenses	<u>\$43,837,825</u>

LONG-TERM DEBT ADMINISTRATION

The Authority has six water revenue bond series outstanding totaling \$135,025,000 as of December 31, 2022.

CREDIT RATINGS

The Authority is the recipient of very favorable credit ratings from both Moody's and Standard & Poor's. The Authority has an Aa1 rating assigned to its revenue bonds by Moody's Investors Service and an AA+ rating by Standard & Poor's. The Authority's bond ratings were last reviewed by Moody's Investors Service and Standard & Poor's in March of 2020. The Authority issues revenue bonds subject to its master Trust Indenture dated October 1, 1991 and Supplemental Indentures issued with and specific to each subsequent revenue bond issue.

Monroe County Water Authority
2022 Water System Accomplishments / Projects

Below is a summary of improvements made to the Monroe County Water Authority (MCWA) water system in 2022. This list includes both completed and ongoing projects, but does not include all bids and procurements completed.

Water Mains

- ✓ Completed the design, permitting and replacement of a 30-inch cone valve with a 30-inch butterfly valve on the 48-inch diameter transmission main on Mt. Read Boulevard at English Road in the Town of Greece.
- ✓ Completed the design, permitting and replacement of a 30-inch cone valve with a 30-inch butterfly valve on the 48-inch diameter transmission main on Mt. Read Boulevard at Maiden Lane in the Town of Greece.
- ✓ Commenced with the design, permitting and easement acquisition of the Golden Road water main replacement project in the Town of Chili. This project will consist of the replacement of approximately 2,000 linear feet of 6-inch water main and appurtenances.
- ✓ Commenced with the design and permitting of the Kings Highway North Water Main Replacement project. This project will consist of the replace of approximately 2,375 linear feet of 8-inch water main on Kings Highway in the Town of Irondequoit.
- ✓ Commenced with the design and permitting of the Oatka Creek water main replacement. This project will consist of the replacement of approximately 385 linear feet of 8-inch water main under Oatka Creek adjacent to Wheatland Center Road in the Town of Wheatland.
- ✓ Commenced with the design and permitting of the emergency replacement of water main pipe hangars under the Landing Road Bridge over NYS Route 490 in the Town of Brighton. Approximately 16 hangars and rollers that support the water main will be replaced across the entire span of the bridge.
- ✓ Commenced with the design and permitting of the North Union Street Water Main Replacement Project. This project will include the replacement of approximately 1,800 linear feet of 12-inch water main and appurtenances on North Union Street from Upton Avenue and the Ogden Parma Town Line Road in the Town of Ogden.
- ✓ Completed the design, permitting and construction of the Thayer Road Water Main Replacement Project. This project consisted of the replacement of approximately 80 linear feet of 12-inch water main along Thayer Road in the Town of Perinton. The work for this project was completed by in house field crews.
- ✓ Commenced with the construction of the River Meadow Drive Main Replacement project. The project was designed, permitted and bid in 2021 with construction commencing and substantially completed in 2022. The project consists of the replacement of approximately 4,200 linear feet of 6-inch water main and appurtenances on River Meadow Drive and Hazel Street in the Town of Henrietta.
- ✓ Completed the design, permitting and bid the Brace Road, Lyndon Road, and Orchard Street water main replacement project. This project will consist of the replacement of approximately 2,200 linear feet of 8-inch water main and 250 linear feet of 12-inch water main on Lyndon Road in the Town of Perinton,

1,870 linear feet of 6-inch water main on Orchard Street in the Village of Webster, and 3,250 linear feet of 8-inch water main on Brace Road in the Town of Victor. Construction is scheduled to commence in 2023.

- ✓ Completed the design, permitting and easement acquisitions for the Ontario Street Main Replacement project. This project will consist of the replacement of approximately 1,500 linear feet of 6-inch water main on Ontario Street in the Town / Village of East Rochester. Construction for this project will be completed in 2023.
- ✓ Designed, permitted, bid and awarded the Fourth Section Road and Owens Road Water Main Replacement project. This project consists of the replacement of approximately 8,000 linear feet of 12-inch water main along Fourth Section Road and 1,700 linear feet of 12-inch water main along Owens Road in the Town of Sweden. Construction is anticipated to begin in 2023.
- ✓ Completed the design, permitting and bid the Rochester Street, Scottsville – West Henrietta Road, and Stuart Road Water Main Replacement project. This project consists of the replacement of approximately 3,335 linear feet of 6-inch water main, 1,015 linear feet of 8-inch water main in the Village of Scottsville and the Town of Chili. Construction for this project is anticipated to commence in 2023.
- ✓ Completed the design, permitting and construction of the Clinton Avenue and Elmwood Terrace Water Main Replacement project. This project consisted of the replacement of approximately 260 linear feet of 6-inch water main and 4560 linear feet of 8-inch water main at 1815 S. Clinton Avenue and on Elmwood Terrace in the Town of Brighton.
- ✓ Completed the construction of the Azzano Circle water main connection. This project consisted of the installation of approximately 250 linear feet of 8-inch water main on Azzano Circle in the Town of Victor.
- ✓ Completed the construction of the Trabold Road Water Main Replacement Project. This project consisted of the replacement of approximately 1,370 linear feet of 8-inch and 1,670 linear feet of 12-inch water main on Trabold Road in the Town of Gates.
- ✓ Completed the design, permitting and bid the Van Voorhis Road and Mendon Ionia Road Water Main Replacement Project. This project consists of the replacement of approximately 4,580 linear feet of 8-inch water main and appurtenances on Van Voorhis Road in the Town of Pittsford and approximately 1,000 linear feet of 8-inch water main and appurtenances on Mendon Ionia Road in the Town of Mendon. Work is scheduled to commence in 2023.
- ✓ Performed acoustical leak detection survey of approximately 500 miles of water main.
- ✓ Commenced with the planning and purchase of emergency electrical power generators to be installed at the East River Road Valve Vault, and Gallup Road Valve Vault.

Water Storage Facilities

- ✓ Commenced with the design and permitting of the of the 2023 Tank Rehabilitation project. The project includes the rehabilitation of the Shoremont Water Treatment Plant (SWTP) backwash tank in the Town of Greece and the Gloria Drive tank in the Town of Penfield. The SWTP backwash tank is a 0.6 million gallon welded steel ground storage tank and the Gloria Drive tank is a 1.05 million gallon welded steel

ground storage tank. The project will include making minor structural repairs, improvements to meet current sanitary and safety requirements, and receive a new interior and exterior coating.

- ✓ Completed design, bid and commenced with the construction of the 2022 Tank Rehabilitation project. The project includes the rehabilitation of the Lee Road East Tank in the Town of Greece. This tank is a 5.0 million gallon welded steel ground water storage tank. The rehabilitation includes making repairs to the steel, sanitary and safety improvements, and a new interior and exterior coating. The work began on the tank and is expected to be completed in the first quarter of 2023.
- ✓ Designed, bid and completed the construction of the 2022 Water Storage Tank Demolition project. This project included the demolition and site restoration of the 0.1 million gallon Honeoye water storage tank and the 0.1 million gallon Pinewood Hill water storage tank in the Town of Richmond.
- ✓ Cleaned and inspected the following water storage facilities:
 - Alleyn’s Rose Tank (2yr warranty)
 - Eastview Tank
 - Garbutt Tank (2yr warranty)
 - High Street (2yr warranty)
 - Middle Road Tank
 - Pembroke Tank
 - SWTP Backwash Tank
 - West Bloomfield Tank
 - White Road Tank
- ✓ Commenced with the planning and purchase of emergency electrical power generators to be installed at the West Bloomfield Tank, Darien Tank, and West Brighton Tank.

Water Districts

At the request of Towns in the MCWA service area, we assist with their implementation of water district projects. In 2022 we:

- ✓ Provided support for the following completed and activated water district projects:
 - Sweden – Lake and Redman Road Water District (Road crossings) 600 lf & 0 services
 - Bergen - Water Improvement Benefits Area #1 – Contract A 96,235 lf & 220 services
 - Total: 96,835 lf & 220 services
- ✓ Provided support for the following water district projects currently in construction:
 - Bergen - Water Improvement Benefits Area #1 – Contract B 68,100 lf & 144 services
 - Total 68,100 lf & 144 services
- ✓ Provided review comments for the following water district projects currently in design phase:
 - Byron - Water Improvement Benefits Area #1 150,000 lf & 380 services
 - Stafford – Water District #12 28,450 lf & 78 services
 - Henrietta – Middle Road Water District 3,750 lf & 10 services
 - Total: 182,200 lf & 468 services
- ✓ Provided preliminary comments for the following proposed water district projects:
 - Clarkson – Water Improvement Benefits Area #1 62,500 lf & 178 services
 - Totals: 62,500 lf & 178 services

Developer Main Extensions (DME’s) and New Services

- ✓ Generated 23 Main Extension Agreements (MEA), and 18 were executed. Generated 17 Water Service Installation Agreements (WSIA) and 15 were executed. Placed 41 projects in service this year compared to 39 in 2020/2021 and 26 in 2019/2020, and 49 in 2018/2019.
- ✓ Processed 49 initial and 53 revised DME application submissions this year compared to 49 initial and 44 revised in 2020/2021 and 50 initial and 50 revised in 2019/2020. Of the 49 DME initial application reviews, 24 ended up being installed under a Water Service Installation Agreement (WSIA).

New Service Program:

- ✓ Coordinated the creation of 658 new 1-inch service accounts:
 - 492 were generated by DMEs.
 - 18 were generated by water districts.
 - 26 were generated by secondary source change-overs.
 - 122 were generated by new construction.
- ✓ Processed 48 Large Service application submissions this year compared to 56 in 2020/2021

Booster Pump Stations

- ✓ Completed the construction of the Harek Road Hypochlorite Building Addition at the Harek Road Pump Station in the Town of Gates. The existing building addition had deteriorated and was in need of replacement. In 2021 the design and permitting of the facility was completed along with the demolition of the existing building addition, making room for a new stick built structure constructed by Water Authority field crews. Construction of the new building addition was completed in 2022.
- ✓ Completed the design, permitting and commenced with the construction of Emergency Pump Connections at the Riga Booster Pump Station in the Town of Riga and the Morgan Road Booster Pump Station in the Town of Chili. The emergency pump connection will be used to maintain pumping capacity when needed during emergencies or if the pump stations are off-line. MCWA field crews commenced with the installation of these facilities. Construction is anticipated to be completed in early 2023.
- ✓ Commenced with the design of the pump replacement project at the East Henrietta Booster Pump Station in the Town of Henrietta. This project will consist of the replacement of two pumps, the installation of an additional 12-inch butterfly valve and modifications to existing piping at the station.
- ✓ Designed, bid and commenced with construction of the 2022 Roof Replacement project. This project consisted of the replacement of approximately 1,650 square feet of modified bitumen built up roof roofing system and appurtenances at Low Lift Pump Station #2 in the Town of Greece and the replacement of approximately 1,150 square feet of metal standing seam roof system and appurtenances at the Shetler Road Pump Station in the Town of Richmond.
- ✓ Completed the design, bid and construction of the 2021 Site Security Fence Installation project. This project included the installation of fencing at the Twin Hills Pump Station in the Town of Parma, installation of fencing and a gate at the Echo Street Pump Station in the Town of Irondequoit, and made repairs to existing fencing at the Parrish Rd Reservoir in the Town of Mendon and repairs to the fencing at the Temperance Hill Tanks in the Town of Stafford.
- ✓ Assisted Genesee County's consulting engineer with completion of construction of the new Mumford BPS in the Town of Wheatland, which is a component of the Genesee County Phase 2 Water Supply project to increase supply to Genesee County.

- ✓ Assisted Genesee County's consulting engineer with completion of construction of the new Churchville BPS in the Town of Riga, which is a component of the Genesee County Phase 2 Water Supply project to increase supply to Genesee County.
- ✓ Assisted Genesee County's consulting engineer with completion of design and construction of the new Golden Road BPS in the Town of Chili, which is a component of the Genesee County Phase 2 Water Supply project to increase supply to Genesee County.
- ✓ Assisted Genesee County's consulting engineer with continuation of design of improvements to the North Road BPS, Morgan Road BPS, Riga BPS, and Scottsville BPS, which is a component of the Genesee County Phase 2 Water Supply project to increase supply to Genesee County.
- ✓ Completed installation of a new portable generator connection at Morgan Road BPS.
- ✓ Purchased two 250 horsepower (hp) variable frequency drives (VFDs) to replace the existing VFDs for Pump Nos. 3 and 4, and completed rehabilitation of the 75 hp Pump No. 2 at the North Road BPS.
- ✓ Completed repair of the 600 hp VFD for Pump No. 2 at the Echo Street BPS.
- ✓ Completed rehabilitation of the 400 hp motor for Pump No. 6 at the Mount Read BPS.
- ✓ Commenced with the conversion of the Wisconsin Street BPS from a storage facility to a site housing lead loop testing for a joint corrosion control study with the City of Rochester Water Bureau.
- ✓ Commenced with the planning and purchase of equipment and materials for improvements to the Pavilion BPS.
- ✓ Purchased a 100 hp VFD to replace the existing VFD for Pump No. 2 at the Thornell Road BPS.
- ✓ Purchased a new 75 hp VFD for Pump No. 2 at the Harris Road BPS.
- ✓ Commenced with the planning and purchase of an emergency electrical power generator to be installed at the Grandview BPS.

Treatment Plants

Shoremont Water Treatment Plant

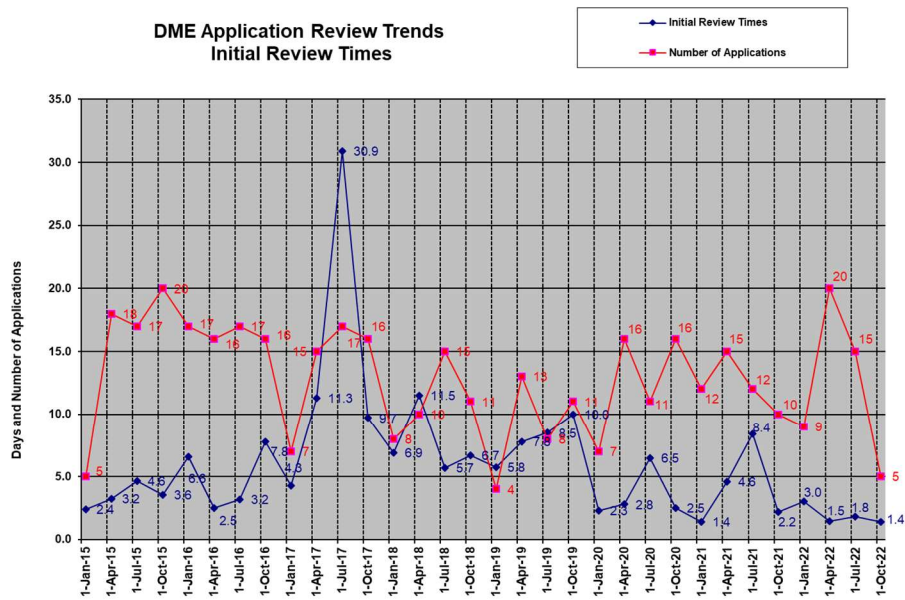
- ✓ Completed bidding and initiated construction of the West 1 Plant Improvements – Phase 2 project that consists of rehabilitation of filter Nos. 9 through 12 including replacement of the underdrain, backwash water troughs, surface wash system, filter media, and associated appurtenances.
- ✓ Completed replacement of the 480 volt (V) electrical power Main Distribution Panel.
- ✓ Completed bidding and construction of the 2022 GAC Replacement – East Filters Phase 1 project that consisted of replacement of the granular activated carbon (GAC) filter media in Filter Nos. 2, 4, 6, and 8.
- ✓ Completed design and bidding of the GAC Replacement – East Filters Phase 2 project that will consist of replacement of the GAC filter media in Filter Nos. 1, 3, 5, and 7.

- ✓ Completed rehabilitation of the pre-filtration sodium hypochlorite disinfection storage and feed system for the East, West 1, and West 2 plants.
- ✓ Commenced with rehabilitation of the post-filtration sodium hypochlorite disinfection storage and feed system for the East and West 1 plants.
- ✓ Commenced with the design and procurement of materials and equipment for rehabilitation of the post-filtration sodium hypochlorite disinfection storage and feed system for the West 2 plant.
- ✓ Commenced with procurement of a new 24-inch gate valve to replace the existing Backwash PRV System Isolation Valve.
- ✓ Completed replacement of the East Loading Dock overhead door.
- ✓ Commenced with planning, design, and procurement of materials and equipment for replacement and upgrade of the programmable logic controllers (PLCs) for Filter Nos. 1 through 16.

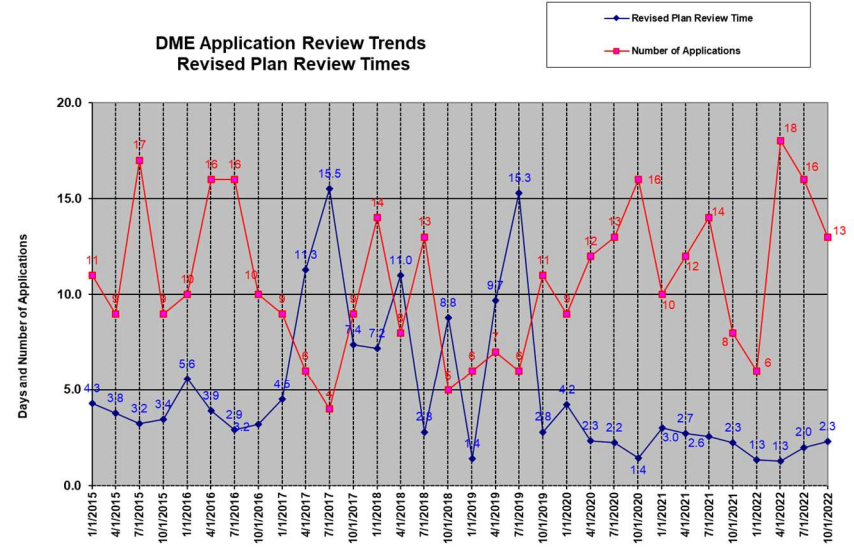
Webster Water Treatment Plant

- ✓ Completed construction of the Generator Optimization – Phase 2 project that consisted of automation of generator switchgear and installation of new uninterruptible power supply (UPS) equipment at the Webster Water Treatment Plant; and installation of a new 1500 kW generator and automation of the generator switchgear at the Lake Water Pump Station.
- ✓ Completed repair and reinstallation of the 1,000 hp High Lift Pump No. 4.
- ✓ Completed replacement and upgrade of 12 turbidimeters at the Webster Water Treatment Plant and Lake Water Pump Station.

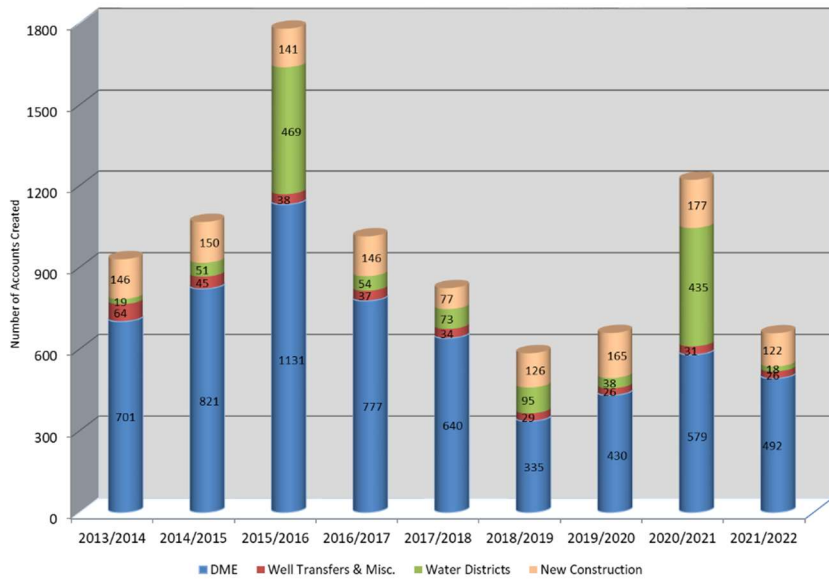
DME Application Review Trends
Initial Review Times



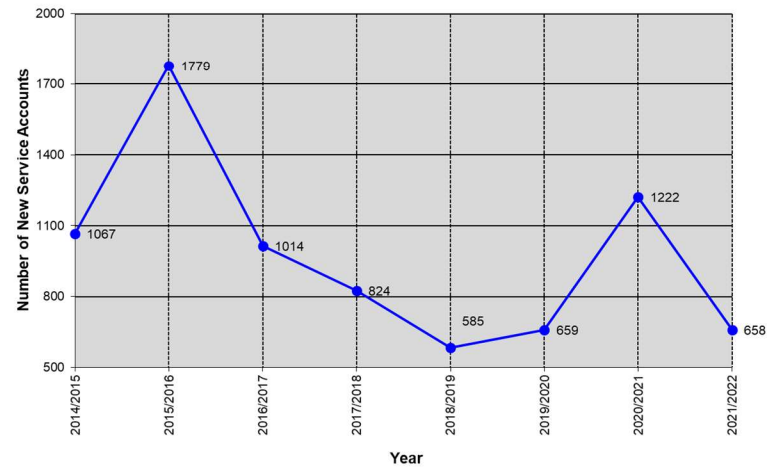
DME Application Review Trends
Revised Plan Review Times

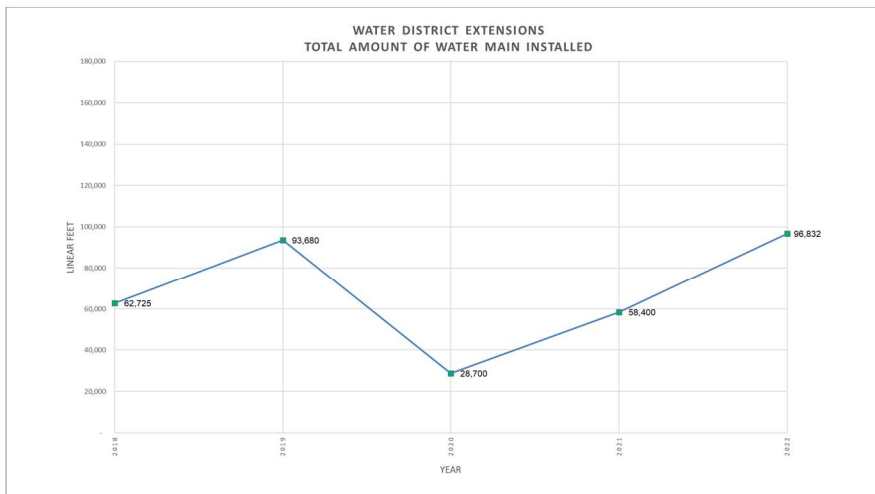
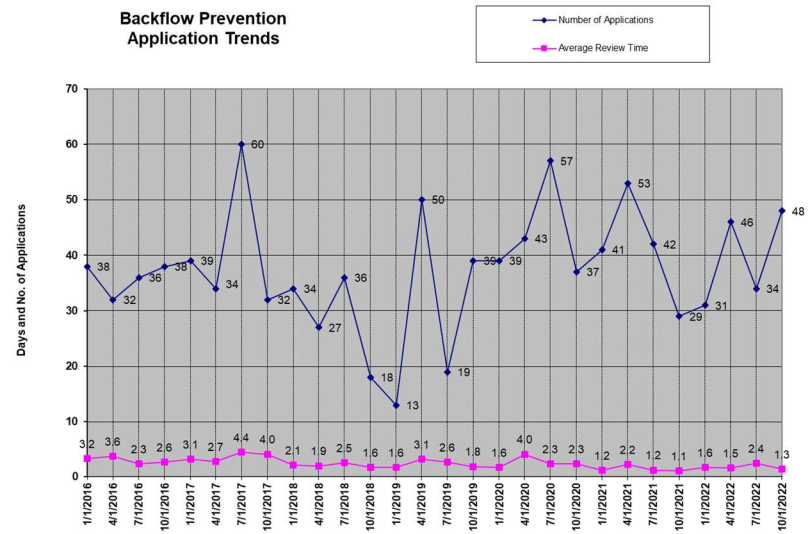
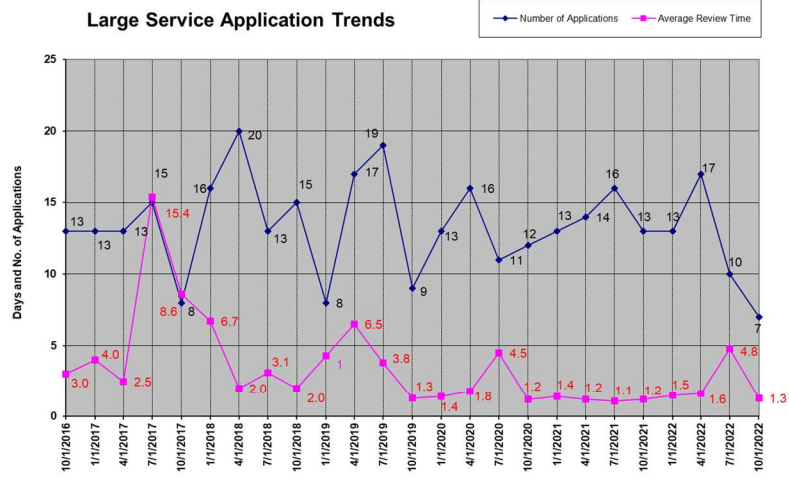


CIS Account Creation



Total Number of New Service Accounts





**MONROE COUNTY WATER AUTHORITY
CODE OF ETHICS POLICY
(READOPTED OCTOBER 2022)**

**ARTICLE 1
PURPOSE**

As a public benefit corporation, the Monroe County Water Authority (the “Authority”) must conduct its operations in a manner that best serves the interests of its customers and the general public. The Authority expects all Members, officers and employees to observe high ethical standards of conduct in the performance of their duties, comply and cause the Authority to comply with all laws and regulations governing business transactions, and use and cause the Authority to use Authority funds and assets only for legal and appropriate public purposes.

This Code of Ethics governs the day-to-day actions of all Members, officers and employees of the Authority. To the extent that a matter falls within the scope of both this policy and the Authority’s Conflicts of Interest Policy or Whistleblower Policy, the provisions of the Conflicts of Interest Policy or the Whistleblower Policy, respectively, shall govern.

**ARTICLE 2
POLICIES**

1. Discharge of Duties

In the course of performing his or her duties, Members, officers and employees shall:

- (a) endeavor to perform the duties of their positions to the best of their ability in furtherance of the Authority’s public purposes;
- (b) uphold high standards of dedicated public service;
- (c) support and encourage fellow employees in the proper execution of their duties; and
- (d) when a question of conduct or regulation occurs, seek the advice of a supervisor, the Authority’s attorneys or the Authority’s independent Ethics Board (formed pursuant to Article 4 hereof).

2. Prohibited Conduct

In the course of performing his or her duties, Members, officers and employees shall not:

- (a) receive any compensation for or have an interest, financial or otherwise, direct or indirect, or incur any obligation that is in substantial conflict with the proper discharge of their duties to the Authority;
- (b) engage in other employment that might impair the independence of their judgment in the execution of their duties with the Authority;

(c) disclose confidential information acquired in the course of official duties nor use such confidential information to further their own personal financial interests;

(d) directly or indirectly solicit or accept any gifts, entertainment, discounts, services, loans or anything of value totaling \$75 or more in any calendar year from any supplier, significant commercial customer, or other persons with whom the Authority does business (gifts of \$75 or more in value must be returned to the donor with the explanation that Authority policy will not permit acceptance of the gift; the Authority will reimburse the employee for the expense of returning gifts); and

(e) engage in conduct prohibited under the Authority's Whistleblower Policy.

3. Specifically Prohibited Actions

Unless otherwise permitted by the Ethics Board, no Member, officer or employee shall engage in the following actions to the extent they create a conflict of interest with the Authority's interest:

(a) receipt by a family member of a Member, officer or employee (family being defined as related by blood or marriage) of gifts or other items described in Section 2(d) of this Article 2;

(b) speculating or dealing in equipment, supplies, or materials normally purchased by the Authority;

(c) borrowing money from the Authority, suppliers, significant commercial customers, individuals or firms with whom the Authority does business (loans or mortgages from banks or individuals doing business with the Authority are exempted if the terms are at current rates and the customary collateral for such transactions is provided);

(d) acquiring an interest in real estate in which it is known that the Authority also has a current or anticipated interest;

(e) misusing information to which the individual has access by reason of his or her position – such as by disclosing confidential information (of a technical, financial or business nature) to others outside or inside the business (whether or not a consideration is received), or using such information for his or her own or family's (as previously defined) benefit;

(f) soliciting funds or other items of value from Authority vendors, suppliers or consultants for oneself or to benefit any other organization, club or person, whether such other persons or entities are charitable, religious or profit-making;

(g) serving as an officer, director or manager with another company or business organization directly or indirectly related to the Authority without specific authorization from the Authority; and

(h) representing current or potential customers to submit applications, plans or other compliance information to the Authority for approval.

The foregoing list does not encompass every situation that may lead to a conflict.

4. **Duty to Disclose**

Each Member, officer and employee shall have the duty to report to the Ethics Board (as defined below) in writing any violation or possible violation of the terms of this Policy, including without limitation instances of conduct prohibited by this Article 2. The following describes some, but not all, situations that must be disclosed:

(a) engaging in activities as an individual or as the holder of more than a one percent financial interest, directly or indirectly (as an owner, stockholder, securities holder in a publicly owned corporation, partner, joint venturer, creditor, guarantor, director, trustee or beneficiary of a trust), in or with a firm that (i) provides services or supplies materials or equipment to the Authority or (ii) to which the Authority makes sales or provides services;

(b) serving as an employee, owner or consultant of another organization providing goods and/or services to the Authority or one or more of the Authority's significant commercial customers, or functioning individually and providing said services to the Authority or one or more of the Authority's significant commercial customers;

(c) membership on or employment with any entity where such employment, service or membership is incompatible with the proper discharge of official duties, or would impair independent judgment or action in the performance of official duties; and

(d) selling goods, services or other items of value to Authority vendors, suppliers or consultants for oneself or to benefit any other organization, club or person, whether such other persons or entities are charitable, religious or profit-making.

5. **Nepotism Policy**

(a) Any person living in the same household as a current Member, officer or employee and any person who is a direct descendant of a current Member, officer or employee's grandparents (e.g. siblings, parents, children, nieces, nephews, cousins, etc.) or the spouse of such descendant (individually and collectively, a "Relative") may be considered for a permanent position only if all of the following conditions are met:

- The Relative is an appointment from a Civil Service List.
- There will be no supervisory relationship between the Relative and the current Member, officer or employee.
- The Relative and the current Member, officer or employee will not work in the same department.
- The Executive Director, with the advice of the Department Heads, has approved the hiring of the Relative.

(b) If current Members, officers or employees marry, it may be necessary for the Authority to reassign one or both individuals, particularly in the case of close working, or direct supervisory relationships.

(c) A Relative may be considered for summer or temporary employment only if all of the following conditions are met:

- There will be no supervisory relationship between the Relative and the current Member, officer or employee.
- The Relative and the current Member, officer or employee will not work in the same department.

(d) In no event shall a current Member, officer, or employee participate in any decision to hire, promote, discipline, or discharge a Relative.

ARTICLE 3 DISCLOSURE STATEMENTS

On an annual basis, the Authority shall obtain a completed financial disclosure statement (in the form set forth as Exhibit A attached hereto, a “Disclosure Statement”) from each Member, the Executive Director, the Executive Staff, and any employees with authority to approve purchases of amounts greater than \$1,000.

ARTICLE 4 PROCEDURES

1. Ethics Board

The Authority shall establish an Ethics Board comprised of three persons not employed by the Authority. The Members of the Authority shall appoint the members of the Ethics Board on an annual basis. The Ethics Board shall interpret and make recommendations to the Authority regarding any question under or purported violation of this Policy and any statutory enacted ethics standards affecting Members, officers and employees.

Annually, the Ethics Board shall review the completed Disclosure Statements to identify businesses with direct or indirect ties to Members; officers and/or employees of the Authority. The Ethics Board shall determine whether any of these relationships warrant placing the business on a list of businesses that the Authority will not hire (the “Prohibited Contractors List”). In making its determination, the Ethics Board shall assess the nature of the relationship between a Member, officer or employee and an outside business. The Prohibited Contractors List shall include only those businesses where the relationship could lead to ethics problems (e.g., if a relative owns a business that could supply goods or services to the Authority). In contrast, the Prohibited Contractors List shall not include businesses where the potential for ethics problems is minimal (e.g., where a relative is a clerical, ministerial or low-level management employee at an existing or potential vendor, lacks the power to influence the relationship between the business and the Authority and did not obtain his or her position as a means to influence a Member, officer or employee of the Authority).

2. Powers of Ethics Board

At its discretion, the Ethics Board may recommend to the Authority appropriate disciplinary action, which may include, but is not limited to, a reprimand, suspension or termination of employment. Any such recommendation will only be final after any hearing required by Section 75 of the Civil Service Law or any applicable Collective Bargaining Agreement.

ARTICLE 5
ONE-YEAR MORATORIUM

No person who has served as a Member or officer of the Authority shall within a period of one year after the termination of such service or employment render services before the Authority or receive compensation for any such services rendered on behalf of any person, firm, corporation or association in relation to any case or transaction with respect to which such person was directly concerned, or participated in, during the period of his or her service with the Authority.

Notwithstanding the foregoing, the one-year moratorium shall not apply to (i) normal business issues arising as a result of the person's status as a water customer of the Authority and (ii) professional services provided by such person pursuant to a written agreement with the Authority, to the extent such agreement is otherwise consistent with this Code of Ethics.

ARTICLE 6
DISTRIBUTION OF THIS POLICY

This Code of Ethics shall be distributed to each Member, officer and employee of the Authority annually. It shall also be distributed to each new Member, officer and employee as soon as practicable following commencement of such position.

**MONROE COUNTY WATER AUTHORITY
ANNUAL STATEMENT OF FINANCIAL DISCLOSURE FOR 2022**

FULL NAME: _____
TITLE: _____
HOME ADDRESS: _____
CITY: _____ STATE: _____ ZIP CODE: _____
EMAIL: _____ PHONE NO.: _____

I. DEFINITIONS

As used in this form, the term "family member" means your spouse, child, step-child, brother, sister, parent step-parent or any person you claimed as a dependent on your most recent income tax return.

II. PUBLIC OFFICE

1. Do you currently hold any elected position with any State, City, County, Town or Village?
Yes: _____ No: _____
If Yes, title of office: _____
2. Do any of your family members currently hold any elected position with any State, City, County, Town or Village?
Yes: _____ No: _____

If Yes, name of family member and title of office:

Name: _____ Title of Office: _____

III. NOT-FOR-PROFIT ORGANIZATIONS

1. Do you currently hold any appointed or elected position with a not-for-profit organization?
Yes: _____ No: _____

If Yes, title of office and name of organization: _____

2. Do any of your family members currently hold any appointed or elected position with a not-for-profit organization?
 Yes: _____ No: _____

If Yes, name of family member, title of office and name of organization:

IV. EMPLOYERS AND BUSINESSES

For you and all family members (regardless of location), please list all employers and businesses, other than the Water Authority, (i) that paid more than \$1,000 for services performed, goods sold or service as a member, director officer or employee during the prior year or (ii) in which you or a family member own at least 5% or \$5,000 (not including ownership of publicly traded stock such as in a mutual fund).

NAME (FOR A FAMILY MEMBER, LIST RELATIONSHIP TO YOU)	BUSINESS	TITLE	NATURE/TYPE OF BUSINESS

V. REAL ESTATE

For you and all family members, please list the address of each parcel of owned real property within the Water Authority's service area other than a primary residence. For commercial real estate, please note the nature of the investment.

NAME OF FAMILY MEMBER AND RELATIONSHIP TO YOU	ADDRESS OF REAL PROPERTY (ADDRESS, CITY, STATE, ZIP CODE)	NATURE OF INVESTMENT

VI. GIFTS

The Water Authority's Code of Ethics Policy prohibits the receipt from suppliers, significant commercial customers and other persons with whom the Water Authority does business (other than persons acting solely as residential customers of the Water Authority) of certain gifts, entertainment, discounts, services, loans or anything of value that collectively exceed \$74.99 in a calendar year from any one source. By signing this form, you represent that you have not received directly or indirectly any gifts of greater than \$74.99 received during the prior year from the sources listed above.

VII. UPDATES

If any of your answers change after completing this form but prior to the next annual update, please send the revised information to the Authority's Director of Personnel in a sealed envelope marked "confidential."

VIII. LIABILITY FOR IMPROPER DISCLOSURE

Any statements made in this disclosure form must be accurate and must not omit relevant information. In the event of a material misstatement or a material omission, you could face civil or criminal penalties under applicable laws and discipline under the Water Authority's Code of Ethics.

(signature)

NAME OF EMPLOYEE: _____

DATE: _____

MONROE COUNTY WATER AUTHORITY

BOND RATINGS

RATING AGENCY	PREVIOUS BOND RATING	CURRENT BOND RATING	ISSUING DATE OF LATEST RATING
MOODY'S INVESTORS SERVICE	Aa2	Aa1	MARCH 12, 2020
STANDARD & POOR'S	AA+	AA+	MARCH 13, 2020

GRANTS AND SUBSIDY PROGRAMS

Monroe County Water Authority does not offer, or administer, any grant or subsidy programs. MCWA did not receive any new grants in 2022.

Budget Report for Monroe County Water Authority

Fiscal Year Ending: 12/31/2023

Run Date: 03/15/2023

Status: CERTIFIED

Certified Date: 10/27/2022

Budget & Financial Plan

Budgeted Revenues, Expenditures, And Changes in Current Net Assets.

	Last Year (Actual) 2021	Current Year (Estimated) 2022	Next Year (Adopted) 2023	Proposed 2024	Proposed 2025	Proposed 2026
REVENUE & FINANCIAL SOURCES						
Operating Revenues						
Charges For Services	\$80,150,249.00	\$87,635,475.00	\$86,514,221.00	\$89,109,648.00	\$91,782,937.00	\$94,536,425.00
Rental And Financing Income	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Operating Revenues	\$751,432.00	\$617,436.00	\$724,500.00	\$724,500.00	\$724,500.00	\$724,500.00
Non-Operating Revenues						
Investment Earnings	\$74,098.00	\$926,614.00	\$350,000.00	\$350,000.00	\$350,000.00	\$350,000.00
State Subsidies/Grants	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Federal Subsidies/Grants	\$1,905,752.00	\$1,736,389.00	\$1,685,809.00	\$1,633,285.00	\$1,578,720.00	\$1,522,111.00
Municipal Subsidies/Grants	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Public Authority Subsidies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Nonoperating Revenues	(\$34,241.00)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Proceeds From The Issuance Of Debt	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total revenues and financing sources	\$82,847,290.00	\$90,915,914.00	\$89,274,530.00	\$91,817,433.00	\$94,436,157.00	\$97,133,036.00
EXPENDITURES						
Operating Expenditures						
Salaries And Wages	\$15,433,006.00	\$15,547,212.00	\$18,317,420.00	\$18,866,943.00	\$19,432,951.00	\$20,015,939.00
Other Employee Benefits	\$9,230,081.00	\$9,174,740.00	\$9,092,300.00	\$9,455,992.00	\$9,834,232.00	\$10,227,601.00
Professional Services Contracts	\$2,377,801.00	\$2,290,423.00	\$3,582,630.00	\$3,690,109.00	\$3,800,812.00	\$3,914,837.00
Supplies And Materials	\$5,020,499.00	\$6,225,644.00	\$8,724,797.00	\$8,986,541.00	\$9,256,137.00	\$9,533,821.00
Other Operating Expenses	\$35,935,067.00	\$32,355,036.00	\$16,875,387.00	\$17,381,649.00	\$17,903,098.00	\$18,440,191.00
Non-Operating Expenditures						
Payment Of Principal On Bonds And Financing Arrangements	\$4,335,000.00	\$4,525,000.00	\$4,675,000.00	\$4,840,000.00	\$5,035,000.00	\$5,235,000.00
Interest And Other Financing Charges	\$7,356,804.00	\$7,433,313.00	\$7,224,996.00	\$7,009,754.00	\$6,752,571.00	\$6,491,572.00
Subsidies To Other Public Authorities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Capital Asset Outlay	\$18,058,800.00	\$16,873,940.00	\$20,532,000.00	\$32,328,132.00	\$23,973,398.00	\$26,310,674.00
Grants And Donations	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Nonoperating Expenses	\$2,894,108.00	\$6,500,000.00	\$250,000.00	\$6,000,000.00	\$6,000,000.00	\$6,000,000.00
Total expenses	\$100,641,166.00	\$100,925,308.00	\$89,274,530.00	\$108,559,120.00	\$101,988,199.00	\$106,169,635.00
Capital Contributions	\$4,466,997.00	\$3,491,341.00	\$0.00	\$3,491,341.00	\$3,491,341.00	\$3,491,341.00
Excess (Deficiency) Of Revenues And Capital Contributions Over Expenses	(\$13,326,879.00)	(\$6,518,053.00)	\$0.00	(\$13,250,346.00)	(\$4,060,701.00)	(\$5,545,258.00)

Budget Report for Monroe County Water Authority

Fiscal Year Ending: 12/31/2023

Run Date: 03/15/2023

Status: CERTIFIED

Certified Date: 10/27/2022

The authority's budget, as presented to the Board of Directors, is posted on the following website: <https://mcwa-wordpress-media.s3.amazonaws.com/wp-content/uploads/2023-Budget.pdf>

Additional Comments

TOTALS - 2023 CAPITAL PROJECT BUDGET

Budget 2022	2023	2024	2025	2026	2027	2028
<u>Renewal & Replacement</u>						
3,865,000	5,750,000	7,275,000	4,775,000	5,925,000	6,175,000	4,875,000
10,640,000	10,235,000	10,180,000	10,380,000	11,365,000	11,170,000	11,895,000
2,609,950	4,383,300	8,131,632	4,681,898	4,834,174	4,988,540	5,145,082
3,101,990	3,178,700	3,441,500	3,166,500	3,116,500	3,181,500	3,176,500
20,216,940	23,547,000	29,028,132	23,003,398	25,240,674	25,515,040	25,091,582
-	-	-	-	-	-	-
(5,500,000)	(5,200,000)	-	-	-	-	-
14,716,940	18,347,000	29,028,132	23,003,398	25,240,674	25,515,040	25,091,582
<u>Capital Improvement</u>						
475,000	155,000	1,150,000	400,000	425,000	400,000	425,000
400,000	400,000	1,900,000	400,000	400,000	400,000	3,150,000
12,000	30,000	75,000	-	70,000	-	-
1,270,000	2,170,000	175,000	170,000	175,000	170,000	175,000
-	-	-	-	-	-	-
2,157,000	2,755,000	3,300,000	970,000	1,070,000	970,000	3,750,000
-	-	-	-	-	-	-
-	(570,000)	-	-	-	-	-
2,157,000	2,185,000	3,300,000	970,000	1,070,000	970,000	3,750,000
16,873,940	20,532,000	32,328,132	23,973,398	26,310,674	26,485,040	28,841,582
<u>Total Capital Improvement Projects</u>						
-	-	-	-	-	-	-
10,225,608	10,214,187	10,216,468	10,208,851	10,204,461	10,190,861	10,255,830
10,225,608	10,214,187	10,216,468	10,208,851	10,204,461	10,190,861	10,255,830
27,099,548	30,746,187	42,544,600	34,182,249	36,515,135	36,675,901	39,097,412
<u>Total Capital Expenditures</u>						

**Monroe County Water Authority
2023 B U D G E T**

Date : 09/06/22

MCWA

TOTALS

Acct	Account Title	2023		%	2022		2022		2021
		Submission	Budget		Budget	Change	To Date As of 07/31	Actual	
01	WAGES - Regular Labor	18535530	17812660	4	722870	9064579	15617596		
02	WAGES - OT Labor	1341890	1029010	30	312880	718495	1065929		
03	WAGES - Temporary Help	0	0	0	0	330	17		
	*** GROSS LABOR ***	19877420	18841670	5	1035750	9783404	16683542		
05	LABOR TRANSFER OUT TO OTHER CC	-1120500	-1144500	-2	24000	-857822	-1268894		
06	LABOR TRANSFER OUT TO CONSTR	-1560000	-1670000	-7	110000	-594646	-1250540		
07	LABOR TRANSFER IN FRM OTHER CC	1120500	1144500	-2	-24000	857818	1268890		
	*** NET LABOR ***	18317420	17171670	7	1145750	9188754	15432998		
10	FRINGE BENEFITS	10137490	10362930	-2	-225440	5490846	9629866		
11	FRINGE TRANSFER OUT TO OTHR CC	-571460	-629480	-9	58020	-471799	-653754		
12	FRINGE TRANSFER OUT TO CONSTR	-1045200	-1185700	-12	140500	-422180	-838277		
13	FRINGE TRANSFER IN FRM OTHR CC	571470	629500	-9	-58030	471794	652848		
	*** NET FRINGE BENEFITS ***	9092300	9177250	4	-84950	5068661	8790683		
	*** TOTAL LABOR ***	27409720	26348920	4	1060800	14257415	24223681		
19	RETIREE BENEFITS	2106000	2100000	0	6000	954872	1779079		
20	COBRA DENTAL	2960	2000	48	960	418	63		
21	LEGAL SERVICES	324000	320000	1	4000	54595	151306		
22	CONSULTANTS	1318500	1230200	7	88300	357625	639163		
23	MEDICAL SERVICES	23685	23575	0	110	22580	31299		
24	AUDIT, ACCOUNTING SERVICES	56000	61000	-8	-5000	51750	33000		
25	SAFETY SERVICES	111782	77320	45	34462	34789	54979		
26	SOFTWARE, LICENSES, FEES	338800	565100	-40	-226300	131081	246359		
27	BANK SERVICES	152000	154800	-2	-2800	64664	142618		
28	OTHER OUTSIDE SERVICES	1697245	1627004	4	70241	745214	1369578		
29	TRUSTEE SERVICES	11200	11200	0	0	8620	10820		
31	SUPPLIES, FORMS, & COPYING	312237	277635	12	34602	168514	245195		
32	SMALL EQUIPMENT & TOOL PURCHASE	441670	363510	22	78160	108909	231316		
33	POSTAGE & FREIGHT	552370	492635	12	59735	302226	476048		
34	CHEMICALS	1149290	688980	67	460310	579666	665400		
35	UNIFORMS	38620	31760	22	6860	11821	24716		
36	SAFETY EQUIPMENT	63640	62740	1	900	31797	25717		
37	PURCHASED WATER	2010000	2020000	0	-10000	1037069	1783621		
39	LANDSCAPING/ROW CLEARING	20000	20000	0	0	4704	4675		

Monroe County Water Authority
2023 B U D G E T

Date : 09/06/22

MCWA

TOTALS

Acct	Account Title	2023		2022 Budget	%	Change	2022		2021 Actual
		Budget Submission					To Date As of 07/31		
40	CLAIMS MATERIALS/SERVICES	1000		1000	0	0	0	0	0
41	REPAIR MATERIALS - MAINS	1556800		1388720	12	168080	716863	977161	977161
42	MAINTENANCE CONTRACTS	3541300		3147933	12	393367	1728327	3033189	3033189
43	OUTSIDE REPAIRS/MAINT SERVICES	268560		275180	-2	-6620	121281	205308	205308
44	REPAIRS/MAINTENANCE MATERIALS	52380		55000	-5	-2620	41853	59463	59463
45	REPAIRS/MAINTENANCE MATERIALS	255980		180000	42	75980	95120	174667	174667
46	REPAIRS/MAINT MATRL-CURB BOXES	96000		65200	47	30800	46269	75065	75065
48	REPAIRS/MAINT - VALVES & BOXES	127220		97820	30	29400	45586	75541	75541
49	EXTRAORDINARY MAINTENANCE	75000		75000	0	0	899	3000	3000
51	TELEPHONE VOICE LINES	150968		123180	23	27788	80073	107802	107802
52	DATA LINES	136020		142140	-4	-6120	62046	129431	129431
53	LIGHT, HEAT, WATER & DISPOSAL	386400		312600	24	73800	263465	293212	293212
54	INSURANCE	395302		179650	120	215652	86791	165470	165470
55	POWER FOR PRODUCTION & DISTRIB.	5648000		3536600	60	2111400	2724483	3472881	3472881
60	PENSION EXPENSE	0		0	0	0	0	-1378960	-1378960
61	TRAINING & SEMINARS	151045		169145	-11	-18100	21690	7908	7908
62	POST EMPLOYMENT	2200000		1500000	47	700000	0	7338570	7338570
63	DUES & SUBSCRIPTIONS	172265		164580	5	7685	78675	141544	141544
64	PAYROLL WCOMP	0		0	0	0	0	-168718	-168718
65	FICA WCOMP	0		0	0	0	2638	10267	10267
70	VEHICLE REPAIR/REPLCMNT PARTS	350000		250000	40	100000	130130	249454	249454
71	VEHICLE REPAIR MATERIALS	74980		49980	50	25000	29457	50992	50992
72	VEHICLE MAINTENANCE SUPPLIES	75000		40000	88	35000	36175	73782	73782
73	GASOLINE & DIESEL	999980		420000	138	579980	409798	464314	464314
79	VEHICLE CREDIT	-200000		-200000	0	0	-82297	-155937	-155937
85	INVENTORY / ADJUSTMENTS	0		0	0	0	7155	5910	5910
86	COPPER AND LEAD	1320000		0	0	1320000	0	0	0
88	DISTRICT LEASE EXPENSES	5900		42620	-86	-36720	6169	44121	44121
92	CLAIMS EXPENSE	30000		30000	0	0	22794	29969	29969
93	UNCOLLECTABLE ACCOUNTS	11000		15000	-27	-4000	4040	31530	31530
94	EFC BOND ADMIN FEE	14535		15100	-4	-565	15085	15625	15625
97	RIGHT OF WAY CHARGES	33550		33395	0	155	26102	26587	26587
98	SPECIAL FEES & ASSESSMENTS	237690		233060	2	4630	206943	235215	235215
99	MISCELLANEOUS	42940		25400	69	17540	11315	12907	12907
	*** OTHER O&M EXPENSES ***	28939814		22497762	29	6442052	11609839	23722222	23722222

Monroe County Water Authority
 2023 B U D G E T

Date : 09/06/22

MCWA

TOTALS

Acct	Account Title	2023	2022	Change	2022		2021
		Budget Submission			Budget	%	
	*** NET O&M EXPENSES ***	56349534	48846682	7502852	15	25867254	47945903

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of the County of Monroe, New York)
Statements of Revenue, Expenses and Changes in Net Position
Years ended December 31, 2021 and 2020

	<u>2021</u>	<u>2020</u>
Operating revenue:		
Water sales - residential	\$ 63,986,170	63,283,710
Water sales - industrial/commercial	6,855,080	6,221,883
Water sales - water district	4,728,140	4,024,113
Other water revenue	4,580,859	3,792,884
Other operating revenue	<u>751,432</u>	<u>503,403</u>
Total operating revenue	<u>80,901,681</u>	<u>77,825,993</u>
Operating expenses:		
Salaries and fringe benefits	24,663,087	23,980,649
Operations and maintenance	12,748,091	12,299,987
General and administrative	10,974,226	9,245,309
City contract - capital	243,000	243,000
Depreciation	<u>19,368,050</u>	<u>19,204,892</u>
Total operating expenses	<u>67,996,454</u>	<u>64,973,837</u>
Total operating income	<u>12,905,227</u>	<u>12,852,156</u>
Non-operating revenue (expenses):		
Federal interest subsidy	1,905,752	1,798,135
Interest earnings	74,098	722,325
Interest expense	(7,356,804)	(7,239,451)
Bond issuance costs	-	(305,766)
Loss on disposal of capital assets	(394,108)	(418,865)
Realized and unrealized gain and losses on investments, net	<u>(34,241)</u>	<u>31,916</u>
Total non-operating expenses, net	<u>(5,805,303)</u>	<u>(5,411,706)</u>
Income before capital contributions	7,099,924	7,440,450
Capital contributions - developers and customers	<u>4,466,997</u>	<u>2,841,816</u>
Change in net position	11,566,921	10,282,266
Net position at beginning of year	<u>328,919,259</u>	<u>318,636,993</u>
Net position at end of year	<u>\$ 340,486,180</u>	<u>328,919,259</u>

See accompanying notes to financial statements.

WATER REVENUE BONDS DEBT SERVICE REQUIREMENT TO MATURITY

As of December 31, 2022

Year	2007 Series		2010 B Series		2012 Series		2013 Series		2017 Series		2020 Series		Total
	Interest	Maturity	Interest	Maturity	Interest	Maturity	Interest	Maturity	Interest	Maturity	Interest	Maturity	
2023	449,817	625,000	5,107,738	2,700,000	205,388	225,000	449,978	505,000	146,000	225,000	866,075	395,000	11,899,996
2024	443,663	635,000	4,948,600	2,805,000	194,138	235,000	442,778	515,000	134,750	235,000	845,825	415,000	11,849,754
2025	404,568	670,000	4,783,274	2,910,000	182,388	250,000	434,766	520,000	123,000	250,000	824,575	435,000	11,787,571
2026	370,614	700,000	4,611,758	3,020,000	169,888	260,000	426,612	530,000	110,500	265,000	802,200	460,000	11,726,572
2027	336,896	725,000	4,422,736	3,145,000	156,888	275,000	418,116	540,000	97,250	275,000	778,700	480,000	11,650,586
2028	353,049	765,000	4,225,892	3,270,000	143,138	290,000	409,196	550,000	83,500	290,000	754,075	505,000	11,638,850
2029	262,310	800,000	4,021,222	3,405,000	133,712	300,000	399,972	560,000	71,900	295,000	728,200	530,000	11,507,316
2030	232,017	835,000	3,808,102	3,545,000	123,962	305,000	390,392	565,000	60,100	310,000	701,075	555,000	11,430,648
2031	185,336	880,000	3,586,222	3,690,000	114,050	315,000	380,826	580,000	47,700	325,000	672,575	585,000	11,361,709
2032	148,656	925,000	3,352,312	3,840,000	103,812	325,000	370,878	590,000	34,700	335,000	642,700	610,000	11,278,058
2033	104,466	960,000	3,108,898	4,000,000	93,250	340,000	360,820	615,000	21,300	350,000	614,650	640,000	11,208,384
2034	58,483	1,015,000	2,855,334	4,165,000	76,250	355,000	332,450	650,000	10,800	360,000	588,450	670,000	11,136,767
2035	15,561	1,060,000	2,591,316	4,335,000	58,500	370,000	302,466	680,000			561,150	695,000	10,668,993
^2036	(25,655)	1,115,000	2,316,520	4,515,000	40,000	390,000	271,098	715,000			532,750	725,000	10,594,713
2037			2,024,896	4,705,000	20,500	410,000	238,116	750,000			503,250	750,000	9,401,762
2038			1,721,000	4,900,000			203,518	785,000			472,650	780,000	8,862,168
2039			1,404,512	5,105,000			167,306	825,000			440,850	810,000	8,752,668
2040			1,074,776	5,320,000			128,588	865,000			407,750	845,000	8,641,114
2041			731,160	5,545,000			87,994	915,000			375,450	880,000	8,534,604
2042			373,010	5,775,000			45,054	960,000			344,213	905,000	8,402,277
2043											311,925	940,000	1,251,925
2044											278,413	975,000	1,253,413
2045											243,675	1,010,000	1,253,675
2046											205,100	1,045,000	1,250,100
2047											162,500	1,085,000	1,247,500
2048											118,200	1,130,000	1,248,200
2049											72,200	1,170,000	1,242,200
2050											24,400	1,220,000	1,244,400
	\$ 3,339,781	\$ 11,710,000	\$ 61,069,278	\$ 80,695,000	\$ 1,815,864	\$ 4,645,000	\$ 6,260,924	\$ 13,215,000	\$ 941,500	\$ 3,515,000	\$ 13,873,576	\$ 21,245,000	\$ 222,325,923

Principal Due as of 12/31/22 \$ 135,025,000

^ Excess benefit of refunding remaining after the final & full repayment Interest Due as of 12/31/22 \$ 87,300,923

ALL BOND FINANCED

NYS Environmental Facilities Corporation Series 2015D
 Monroe County Water Authority 16511 (2007D)
 Loan ID 4775

Date	Principal	Coupon	Interest	Less: Subsidy (1)	Less Refunding Benefit (2)	Net Debt Service
09/01/2015	565,000.00	4.082%	379,198.18	90,896.00	60,609.57	792,692.61
03/01/2016			367,666.53	81,937.50	25,481.83	260,247.20
09/01/2016	570,000.00	4.132%	367,666.53	81,937.50	61,070.12	794,658.91
03/01/2017			355,890.33	72,724.08	22,269.16	260,897.09
09/01/2017	575,000.00	4.182%	355,890.33	72,724.08	66,807.62	791,358.63
03/01/2018			343,867.08	63,255.75	21,515.70	259,095.63
09/01/2018	585,000.00	4.277%	343,867.08	63,255.75	64,570.85	801,040.48
03/01/2019			331,356.85	53,496.08	21,168.15	256,692.62
09/01/2019	595,000.00	4.382%	331,356.85	53,496.08	62,480.85	810,379.92
03/01/2020			318,320.40	43,445.08	20,855.31	254,020.01
09/01/2020	600,000.00	4.393%	318,320.40	43,445.08	63,861.80	811,013.52
03/01/2021			305,150.40	33,102.75	19,217.04	252,830.61
09/01/2021	610,000.00	4.501%	305,150.40	33,102.75	65,645.16	816,402.49
03/01/2022			291,422.35	22,432.67	17,554.61	251,435.07
09/01/2022	615,000.00	4.546%	291,422.35	22,432.67	63,348.93	820,640.75
03/01/2023			277,443.40	11,398.42	17,117.33	248,927.65
09/01/2023	625,000.00	4.587%	277,443.40	11,398.42	65,155.86	825,889.12
03/01/2024			263,109.03		15,494.05	247,614.98
09/01/2024	635,000.00	4.623%	263,109.03		67,060.66	831,048.37
03/01/2025			248,431.00		14,974.45	233,456.55
09/01/2025	670,000.00	4.684%	248,431.00		77,319.09	841,111.91
03/01/2026			232,739.60		17,774.15	214,965.45
09/01/2026	700,000.00	4.684%	232,739.60		77,090.84	855,648.76
03/01/2027			216,345.60		14,907.56	201,438.04
09/01/2027	725,000.00	4.684%	216,345.60		80,886.71	860,458.89
03/01/2028			199,366.10		13,210.58	186,155.52
09/01/2028	765,000.00	4.754%	199,366.10		32,472.67	931,893.43
03/01/2029			181,182.05		67,472.67	113,709.38
09/01/2029	800,000.00	4.754%	181,182.05		32,581.67	948,600.38
03/01/2030			162,166.05		67,581.67	94,584.38
09/01/2030	835,000.00	4.754%	162,166.05		24,733.72	972,432.33
03/01/2031			142,318.10		74,733.72	67,584.38
09/01/2031	880,000.00	4.754%	142,318.10		24,566.12	997,751.98
03/01/2032			121,400.50		69,566.12	51,834.38
09/01/2032	925,000.00	4.754%	121,400.50		24,578.87	1,021,821.63
03/01/2033			99,413.25		74,578.87	24,834.38
09/01/2033	960,000.00	4.751%	99,413.25		19,782.07	1,039,631.18
03/01/2034			76,416.45		76,416.45	
09/01/2034	1,015,000.00	4.751%	76,416.45		17,933.37	1,073,483.08
03/01/2035			52,102.13		52,102.13	
09/01/2035	1,060,000.00	4.751%	52,102.13		36,541.07	1,075,561.06
03/01/2036			26,709.83		26,709.83	
09/01/2036	1,115,000.00	4.791%	26,709.83		26,709.83	1,115,000.00
09/02/2036					25,655.79	-25,655.79
	16,425,000.00		9,604,832.24	854,480.66	1,892,164.62	23,283,185.96

Notes:

(1) Application of Subsidy Credit is pursuant to Sections 31(C) and 31(D) of the Project Finance Agreement. Failure of Recipient to fulfill the terms of the Project Finance Agreement may result in reduction or elimination of the Subsidy Credit.

Subsidy Credit for Refunding Recipients is calculated based on Corpus or Reserve Allocation percentage of Existing Agreement.

(2) In the event that the Benefit of the Refunding exceeds the interest payable on any specific payment date, the difference will be credited on a later payment date or dates. Should there be excess Benefits of the Refunding remaining after the final maturity and full repayment, such excess will be remitted to the Recipient by the Corporation.

Monroe County Water Authority
 Water Revenue Bonds, Series 2010A and 2010B
 East Side Water Supply Project

Debt Service Schedule - Series 2010B (Taxable Build America Bonds)

Date	Principal	Coupon	Interest	Debt Service	Debt Service (Annual)	Capitalized Interest	Federal SBA Subsidy	Net Debt Service	Net Debt Service (Annual)
12/21/10	-	-	-	635,876.24	-	-	-	-	-
02/01/11	-	-	2,861,443.10	2,861,443.10	-	-	(222,556.88)	413,319.56	-
08/01/11	-	-	2,861,443.10	2,861,443.10	3,497,319.34	(385,074.96)	(1,001,505.08)	1,474,863.06	1,888,182.62
02/01/12	-	-	2,861,443.10	2,861,443.10	-	(1,024,182.29)	(1,001,505.08)	835,755.73	-
08/01/12	-	-	2,861,443.10	2,861,443.10	5,722,886.20	(1,024,182.29)	(1,001,505.08)	835,755.73	1,671,511.46
02/01/13	-	-	2,861,443.10	2,861,443.10	-	(75,085.30)	(1,001,505.08)	1,784,852.72	-
08/01/13	-	-	2,861,443.10	2,861,443.10	5,722,886.20	-	(1,001,505.08)	1,859,938.02	3,644,790.74
02/01/14	-	-	2,861,443.10	2,861,443.10	-	-	(1,001,505.08)	1,859,938.02	-
08/01/14	-	-	2,861,443.10	2,861,443.10	5,722,886.20	-	(1,001,505.08)	1,859,938.02	3,719,876.04
02/01/15	-	-	2,861,443.10	2,861,443.10	-	-	(1,001,505.08)	1,859,938.02	-
08/01/15	-	-	2,861,443.10	2,861,443.10	5,722,886.20	-	(1,001,505.08)	1,859,938.02	3,719,876.04
02/01/16	-	-	2,861,443.10	2,861,443.10	-	-	(1,001,505.08)	1,859,938.02	-
08/01/16	-	-	2,861,443.10	2,861,443.10	5,722,886.20	-	(1,001,505.08)	1,859,938.02	3,719,876.04
02/01/17	-	-	2,861,443.10	2,861,443.10	-	-	(1,001,505.08)	1,859,938.02	-
08/01/17	-	-	2,861,443.10	2,861,443.10	5,722,886.20	-	(1,001,505.08)	1,859,938.02	3,719,876.04
02/01/18	-	-	2,861,443.10	2,861,443.10	-	-	(1,001,505.08)	1,859,938.02	-
08/01/18	2,300,000.00	4.494%	2,861,443.10	5,181,443.10	8,022,886.20	-	(1,001,505.08)	4,159,938.02	6,019,876.04
02/01/19	-	-	2,809,762.10	2,809,762.10	-	-	(983,416.73)	1,826,345.37	-
08/01/19	2,365,000.00	4.694%	2,809,762.10	5,174,762.10	7,984,524.20	-	(983,416.73)	4,191,345.37	8,017,890.74
02/01/20	-	-	2,754,255.55	2,754,255.55	-	-	(963,989.44)	1,790,266.11	-
08/01/20	2,440,000.00	4.894%	2,754,255.55	5,194,255.55	7,948,511.10	-	(963,989.44)	4,230,266.11	6,020,532.22
02/01/21	-	-	2,694,548.75	2,694,548.75	-	-	(943,092.06)	1,751,456.69	-
08/01/21	2,515,000.00	5.094%	2,694,548.75	5,209,548.75	7,904,097.50	-	(943,092.06)	4,266,456.69	6,017,913.38
02/01/22	-	-	2,630,491.70	2,630,491.70	-	-	(920,872.09)	1,709,819.81	-
08/01/22	2,600,000.00	5.894%	2,630,491.70	5,230,491.70	7,880,983.40	-	(920,872.09)	4,309,819.81	6,019,639.22
02/01/23	-	-	2,553,869.70	2,553,869.70	-	-	(893,854.39)	1,660,015.31	-
08/01/23	2,700,000.00	5.894%	2,553,869.70	5,253,869.70	7,807,739.40	-	(893,854.39)	4,360,015.31	6,020,030.62
02/01/24	-	-	2,474,300.70	2,474,300.70	-	-	(866,005.24)	1,608,295.46	-
08/01/24	2,805,000.00	5.894%	2,474,300.70	5,279,300.70	7,753,601.40	-	(866,005.24)	4,413,295.46	6,021,590.92
02/01/25	-	-	2,391,637.35	2,391,637.35	-	-	(837,073.07)	1,554,564.28	-
08/01/25	2,910,000.00	5.894%	2,391,637.35	5,301,637.35	7,693,274.70	-	(837,073.07)	4,464,564.28	6,019,128.56
02/01/26	-	-	2,305,879.65	2,305,879.65	-	-	(807,057.88)	1,498,821.77	-
08/01/26	3,020,000.00	6.259%	2,305,879.65	5,325,879.65	7,631,759.30	-	(807,057.88)	4,518,821.77	6,017,643.54
02/01/27	-	-	2,211,368.75	2,211,368.75	-	-	(773,979.06)	1,437,389.69	-
08/01/27	3,145,000.00	6.259%	2,211,368.75	5,356,368.75	7,567,737.50	-	(773,979.06)	4,582,389.69	6,019,779.38
02/01/28	-	-	2,112,945.97	2,112,945.97	-	-	(739,531.09)	1,373,414.88	-
08/01/28	3,270,000.00	6.259%	2,112,945.97	5,382,945.97	7,495,891.94	-	(739,531.09)	4,643,414.88	6,016,829.76
02/01/29	-	-	2,010,611.32	2,010,611.32	-	-	(703,713.98)	1,306,897.36	-
08/01/29	3,405,000.00	6.259%	2,010,611.32	5,415,611.32	7,426,222.64	-	(703,713.98)	4,711,897.36	6,018,794.72
02/01/30	-	-	1,904,051.84	1,904,051.84	-	-	(666,418.14)	1,237,633.70	-
08/01/30	3,545,000.00	6.259%	1,904,051.84	5,449,051.84	7,353,103.68	-	(666,418.14)	4,782,633.70	6,020,267.40
02/01/31	-	-	1,793,111.06	1,793,111.06	-	-	(627,588.87)	1,165,522.19	-
08/01/31	3,690,000.00	6.339%	1,793,111.06	5,483,111.06	7,276,222.12	-	(627,588.87)	4,855,522.19	6,021,044.38
02/01/32	-	-	1,678,156.51	1,678,156.51	-	-	(586,654.78)	1,089,501.73	-
08/01/32	3,840,000.00	6.339%	1,678,156.51	5,516,156.51	7,192,313.02	-	(586,654.78)	4,929,501.73	6,019,003.46
02/01/33	-	-	1,554,447.71	1,554,447.71	-	-	(544,056.70)	1,010,391.01	-
08/01/33	4,000,000.00	6.339%	1,554,447.71	5,554,447.71	7,108,895.42	-	(544,056.70)	5,010,391.01	6,020,782.02
02/01/34	-	-	1,427,667.71	1,427,667.71	-	-	(499,683.70)	927,984.01	-
08/01/34	4,165,000.00	6.339%	1,427,667.71	5,592,667.71	7,020,335.42	-	(499,683.70)	5,092,984.01	6,020,968.02
02/01/35	-	-	1,295,658.03	1,295,658.03	-	-	(453,480.31)	842,177.72	-
08/01/35	4,335,000.00	6.339%	1,295,658.03	5,630,658.03	6,926,316.06	-	(453,480.31)	5,177,177.72	6,019,355.44
02/01/36	-	-	1,158,260.20	1,158,260.20	-	-	(405,391.07)	752,869.13	-
08/01/36	4,515,000.00	6.459%	1,158,260.20	5,673,260.20	6,831,520.40	-	(405,391.07)	5,267,869.13	6,020,738.26
02/01/37	-	-	1,012,448.27	1,012,448.27	-	-	(354,356.89)	658,091.38	-
08/01/37	4,705,000.00	6.459%	1,012,448.27	5,717,448.27	6,729,896.54	-	(354,356.89)	5,363,091.38	6,021,182.76
02/01/38	-	-	860,500.29	860,500.29	-	-	(301,175.10)	559,325.19	-
08/01/38	4,900,000.00	6.459%	860,500.29	5,780,500.29	6,621,000.58	-	(301,175.10)	5,459,325.19	6,018,650.38
02/01/39	-	-	702,254.79	702,254.79	-	-	(245,789.18)	456,465.81	-
08/01/39	5,105,000.00	6.459%	702,254.79	5,807,254.79	6,509,509.58	-	(245,789.18)	5,561,465.81	6,017,931.22
02/01/40	-	-	537,388.81	537,388.81	-	-	(188,086.08)	349,302.73	-
08/01/40	5,320,000.00	6.459%	537,388.81	5,857,388.81	6,394,777.62	-	(188,086.08)	5,668,302.73	6,018,605.46
02/01/41	-	-	365,579.41	365,579.41	-	-	(127,952.79)	237,626.62	-
08/01/41	5,545,000.00	6.459%	365,579.41	5,910,579.41	6,276,158.82	-	(127,952.79)	5,782,626.62	6,020,253.24
02/01/42	-	-	186,503.63	186,503.63	-	-	(65,276.27)	121,227.36	-
08/01/42	5,775,000.00	6.459%	186,503.63	5,961,503.63	6,148,007.26	-	(65,276.27)	5,896,227.36	6,017,454.72
Total	92,915,000.00		126,404,922.34	219,319,922.34	219,319,922.34	(2,508,524.84)	(44,241,722.66)	172,569,874.84	172,569,874.84

BOND DEBT SERVICE

Monroe County Water Authority (New York)
Water System Revenue Bonds, Series 2012

Dated Date 12/21/2012
Delivery Date 12/21/2012

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service	Bond Balance	Total Bond Value
12/21/2012						6,290,000	6,290,000
08/01/2013			167,345.14	167,345.14	167,345.14	6,290,000	6,290,000
02/01/2014			136,918.75	136,918.75	136,918.75	6,290,000	6,290,000
08/01/2014	155,000	3.000%	136,918.75	291,918.75	428,837.50	6,135,000	6,135,000
02/01/2015			134,593.75	134,593.75	134,593.75	6,135,000	6,135,000
08/01/2015	160,000	4.000%	134,593.75	294,593.75	429,187.50	5,975,000	5,975,000
02/01/2016			131,393.75	131,393.75	131,393.75	5,975,000	5,975,000
08/01/2016	170,000	4.000%	131,393.75	301,393.75	432,787.50	5,805,000	5,805,000
02/01/2017			127,993.75	127,993.75	127,993.75	5,805,000	5,805,000
08/01/2017	175,000	4.000%	127,993.75	302,993.75	430,987.50	5,630,000	5,630,000
02/01/2018			124,493.75	124,493.75	124,493.75	5,630,000	5,630,000
08/01/2018	180,000	4.000%	124,493.75	304,493.75	428,987.50	5,450,000	5,450,000
02/01/2019			120,893.75	120,893.75	120,893.75	5,450,000	5,450,000
08/01/2019	190,000	4.000%	120,893.75	310,893.75	431,787.50	5,260,000	5,260,000
02/01/2020			117,093.75	117,093.75	117,093.75	5,260,000	5,260,000
08/01/2020	195,000	4.000%	117,093.75	312,093.75	429,187.50	5,065,000	5,065,000
02/01/2021			113,193.75	113,193.75	113,193.75	5,065,000	5,065,000
08/01/2021	205,000	5.000%	113,193.75	318,193.75	431,387.50	4,860,000	4,860,000
02/01/2022			108,068.75	108,068.75	108,068.75	4,860,000	4,860,000
08/01/2022	215,000	5.000%	108,068.75	323,068.75	431,137.50	4,645,000	4,645,000
02/01/2023			102,693.75	102,693.75	102,693.75	4,645,000	4,645,000
08/01/2023	225,000	5.000%	102,693.75	327,693.75	430,387.50	4,420,000	4,420,000
02/01/2024			97,068.75	97,068.75	97,068.75	4,420,000	4,420,000
08/01/2024	235,000	5.000%	97,068.75	332,068.75	429,137.50	4,185,000	4,185,000
02/01/2025			91,193.75	91,193.75	91,193.75	4,185,000	4,185,000
08/01/2025	250,000	5.000%	91,193.75	341,193.75	432,387.50	3,935,000	3,935,000
02/01/2026			84,943.75	84,943.75	84,943.75	3,935,000	3,935,000
08/01/2026	260,000	5.000%	84,943.75	344,943.75	429,887.50	3,675,000	3,675,000
02/01/2027			78,443.75	78,443.75	78,443.75	3,675,000	3,675,000
08/01/2027	275,000	5.000%	78,443.75	353,443.75	431,887.50	3,400,000	3,400,000
02/01/2028			71,568.75	71,568.75	71,568.75	3,400,000	3,400,000
08/01/2028	290,000	3.250%	71,568.75	361,568.75	433,137.50	3,110,000	3,110,000
02/01/2029			66,856.25	66,856.25	66,856.25	3,110,000	3,110,000
08/01/2029	300,000	3.250%	66,856.25	366,856.25	433,712.50	2,810,000	2,810,000
02/01/2030			61,981.25	61,981.25	61,981.25	2,810,000	2,810,000
08/01/2030	305,000	3.250%	61,981.25	366,981.25	428,962.50	2,505,000	2,505,000
02/01/2031			57,025.00	57,025.00	57,025.00	2,505,000	2,505,000
08/01/2031	315,000	3.250%	57,025.00	372,025.00	429,050.00	2,190,000	2,190,000
02/01/2032			51,906.25	51,906.25	51,906.25	2,190,000	2,190,000
08/01/2032	325,000	3.250%	51,906.25	376,906.25	428,812.50	1,865,000	1,865,000
02/01/2033			46,625.00	46,625.00	46,625.00	1,865,000	1,865,000
08/01/2033	340,000	5.000%	46,625.00	386,625.00	433,250.00	1,525,000	1,525,000
02/01/2034			38,125.00	38,125.00	38,125.00	1,525,000	1,525,000
08/01/2034	355,000	5.000%	38,125.00	393,125.00	431,250.00	1,170,000	1,170,000
02/01/2035			29,250.00	29,250.00	29,250.00	1,170,000	1,170,000
08/01/2035	370,000	5.000%	29,250.00	399,250.00	428,500.00	800,000	800,000
02/01/2036			20,000.00	20,000.00	20,000.00	800,000	800,000
08/01/2036	390,000	5.000%	20,000.00	410,000.00	430,000.00	410,000	410,000
02/01/2037			10,250.00	10,250.00	10,250.00	410,000	410,000
08/01/2037	410,000	5.000%	10,250.00	420,250.00	430,500.00		
	6,290,000		4,212,495.14	10,502,495.14	10,502,495.14		

NOTICE OF TERMS - NET DEBT SERVICE SCHEDULE (1)

NYS EFC Series 2013B
 Monroe County Water Authority - Aggregate
 Loan ID 4116

Schedule A

Date	Principal	Coupon	Interest	Gross Debt Services	Less: Subsidy Credit (1)	Plus: Annual Administrative Fee (2)	Semi-Annual Net Debt Service	Annual Net Debt Service, Fiscal Year
11/01/2013	600,000.00	0.2800%	184,238.20	784,238.20	45,377.02		738,861.18	738,861.18
05/01/2014			321,369.66	321,369.66	79,032.97		242,336.69	242,336.69
11/01/2014	465,000.00	0.3000%	321,369.66	786,369.66	79,032.97	18,420.00	725,756.69	968,093.38
05/01/2015			320,672.16	320,672.16	78,667.97		242,004.19	242,004.19
11/01/2015	465,341.00	0.6700%	320,672.16	786,013.16	78,667.97	18,766.00	726,111.19	968,115.38
05/01/2016			319,113.28	319,113.28	77,845.86		241,267.42	241,267.42
11/01/2016	470,000.00	1.0800%	319,113.28	789,113.28	77,845.86	18,253.00	729,520.42	970,787.84
05/01/2017			316,575.28	316,575.28	76,504.86		240,070.42	240,070.42
11/01/2017	475,000.00	1.4400%	316,575.28	791,575.28	76,504.86	17,737.00	732,807.42	972,877.84
05/01/2018			313,155.28	313,155.28	74,704.86		238,450.42	238,450.42
11/01/2018	480,000.00	1.7900%	313,155.28	793,155.28	74,704.86	17,214.00	735,654.42	974,114.84
05/01/2019			308,859.28	308,859.28	72,437.52		236,421.76	236,421.76
11/01/2019	480,000.00	2.0900%	308,859.28	788,859.28	72,437.52	16,686.00	733,107.76	969,529.52
05/01/2020			303,843.28	303,843.28	69,755.35		234,087.93	234,087.93
11/01/2020	485,000.00	2.3900%	303,843.28	788,843.28	69,755.35	16,158.00	735,245.93	969,333.86
05/01/2021			298,047.53	298,047.53	66,628.43		231,419.10	231,419.10
11/01/2021	490,000.00	2.6900%	298,047.53	788,047.53	66,628.43	15,625.00	737,044.10	968,463.20
05/01/2022			291,457.03	291,457.03	63,064.18		228,392.85	228,392.85
11/01/2022	500,000.00	2.9600%	291,457.03	791,457.03	63,064.18	15,085.00	743,477.85	971,870.70
05/01/2023			284,057.03	284,057.03	59,068.18		224,988.85	224,988.85
11/01/2023	505,000.00	3.1530%	284,057.03	789,057.03	59,068.18	14,535.00	744,523.85	969,512.70
05/01/2024			276,095.70	276,095.70	54,706.52		221,389.18	221,389.18
11/01/2024	515,000.00	3.4340%	276,095.70	791,095.70	54,706.52	13,979.00	750,268.18	971,757.36
05/01/2025			267,253.15	267,253.15	49,870.30		217,382.85	217,382.85
11/01/2025	520,000.00	3.5200%	267,253.15	787,253.15	49,870.30	13,413.00	750,795.85	968,178.70
05/01/2026			258,101.15	258,101.15	44,795.62		213,305.53	213,305.53
11/01/2026	530,000.00	3.6400%	258,101.15	788,101.15	44,795.62	12,841.00	756,146.53	969,452.06
05/01/2027			248,455.15	248,455.15	39,396.28		209,058.87	209,058.87
11/01/2027	540,000.00	3.7700%	248,455.15	788,455.15	39,396.28	12,258.00	761,316.87	970,375.74
05/01/2028			238,276.16	238,276.16	33,678.44		204,597.72	204,597.72
11/01/2028	550,000.00	3.8700%	238,276.16	788,276.16	33,678.44	11,664.00	766,261.72	970,859.44
05/01/2029			227,633.65	227,633.65	27,647.68		199,985.97	199,985.97
11/01/2029	560,000.00	4.0200%	227,633.65	787,633.65	27,647.68	11,059.00	771,044.97	971,030.94
05/01/2030			216,377.65	216,377.65	21,182.17		195,195.48	195,195.48
11/01/2030	565,000.00	4.0700%	216,377.65	781,377.65	21,182.17	10,443.00	770,638.48	965,833.96
05/01/2031			204,879.90	204,879.90	14,466.67		190,413.23	190,413.23
11/01/2031	580,000.00	4.1450%	204,879.90	784,879.90	14,466.67	9,821.00	780,234.23	970,647.46
05/01/2032			192,859.40	192,859.40	7,420.17		185,439.23	185,439.23
11/01/2032	590,000.00	4.2200%	192,859.40	782,859.40	7,420.17	9,183.00	784,622.23	970,061.46
05/01/2033			180,410.41	180,410.41			180,410.41	180,410.41
11/01/2033	615,000.00	4.6130%	180,410.41	795,410.41		8,535.00	803,945.41	984,355.82
05/01/2034			166,225.43	166,225.43			166,225.43	166,225.43
11/01/2034	650,000.00	4.6130%	166,225.43	816,225.43		7,859.00	824,084.43	990,309.86
05/01/2035			151,233.18	151,233.18			151,233.18	151,233.18
11/01/2035	680,000.00	4.6130%	151,233.18	831,233.18		7,144.00	838,377.18	989,610.36
05/01/2036			135,548.98	135,548.98			135,548.98	135,548.98
11/01/2036	715,000.00	4.6130%	135,548.98	850,548.98		6,396.00	856,944.98	992,493.96
05/01/2037			119,057.51	119,057.51			119,057.51	119,057.51
11/01/2037	750,000.00	4.6130%	119,057.51	869,057.51		5,609.00	874,666.51	993,724.02
05/01/2038			101,758.76	101,758.76			101,758.76	101,758.76
11/01/2038	785,000.00	4.6130%	101,758.76	886,758.76		4,784.00	891,542.76	993,301.52
05/01/2039			83,652.73	83,652.73			83,652.73	83,652.73
11/01/2039	825,000.00	4.6930%	83,652.73	908,652.73		3,921.00	912,573.73	996,226.46
05/01/2040			64,294.10	64,294.10			64,294.10	64,294.10
11/01/2040	865,000.00	4.6930%	64,294.10	929,294.10		3,014.00	932,308.10	996,602.20
05/01/2041			43,996.88	43,996.88			43,996.88	43,996.88
11/01/2041	915,000.00	4.6930%	43,996.88	958,996.88		2,062.00	961,058.88	1,005,053.76
05/01/2042			22,526.41	22,526.41			22,526.41	22,526.41
11/01/2042	960,000.00	4.6930%	22,526.41	982,526.41		1,055.00	983,581.41	1,006,107.82
	18,125,341.00		12,735,810.42	30,861,151.42	2,067,125.08	323,519.00	29,117,545.34	29,117,545.34

AMOUNT PAYABLE PURSUANT TO PARAGRAPH 4 OF NOTICE OF TERMS: 340,114.00

Notes:

(1) Application of Subsidy Credit is pursuant to Sections 3.1 (C) and 3.1 (D) of the Project Finance Agreement. Failure of Recipient to fulfill the terms of the Project Finance Agreement may result in reduction or elimination of the Subsidy Credit.

(2) The Annual Administrative Fee is due annually on July 15 commencing July 15, 2014.

The Administrative Fee rate is pursuant to the Project Finance Agreement.

Aggregate amounts may differ from totals due to rounding.

Monroe County Water Authority

Water System Revenue Refunding Bonds, Series 2017

December 21, 2017

\$3,950,000

Debt Service Schedule (Semi-Annual)

Part 1 of 2

Date	Principal	Coupon	Interest	Total P+I
02/01/2018	-	-	17,922.22	17,922.22
08/01/2018	-	-	80,650.00	80,650.00
02/01/2019	-	-	80,650.00	80,650.00
08/01/2019	-	-	80,650.00	80,650.00
02/01/2020	-	-	80,650.00	80,650.00
08/01/2020	-	-	80,650.00	80,650.00
02/01/2021	-	-	80,650.00	80,650.00
08/01/2021	215,000.00	2.000%	80,650.00	295,650.00
02/01/2022	-	-	78,500.00	78,500.00
08/01/2022	220,000.00	5.000%	78,500.00	298,500.00
02/01/2023	-	-	73,000.00	73,000.00
08/01/2023	225,000.00	5.000%	73,000.00	298,000.00
02/01/2024	-	-	67,375.00	67,375.00
08/01/2024	235,000.00	5.000%	67,375.00	302,375.00
02/01/2025	-	-	61,500.00	61,500.00
08/01/2025	250,000.00	5.000%	61,500.00	311,500.00
02/01/2026	-	-	55,250.00	55,250.00
08/01/2026	265,000.00	5.000%	55,250.00	320,250.00
02/01/2027	-	-	48,625.00	48,625.00
08/01/2027	275,000.00	5.000%	48,625.00	323,625.00
02/01/2028	-	-	41,750.00	41,750.00
08/01/2028	290,000.00	4.000%	41,750.00	331,750.00
02/01/2029	-	-	35,950.00	35,950.00
08/01/2029	295,000.00	4.000%	35,950.00	330,950.00
02/01/2030	-	-	30,050.00	30,050.00
08/01/2030	310,000.00	4.000%	30,050.00	340,050.00
02/01/2031	-	-	23,850.00	23,850.00
08/01/2031	325,000.00	4.000%	23,850.00	348,850.00
02/01/2032	-	-	17,350.00	17,350.00
08/01/2032	335,000.00	4.000%	17,350.00	352,350.00
02/01/2033	-	-	10,650.00	10,650.00
08/01/2033	350,000.00	3.000%	10,650.00	360,650.00
02/01/2034	-	-	5,400.00	5,400.00
08/01/2034	360,000.00	3.000%	5,400.00	365,400.00
Total	\$3,950,000.00	-	\$1,680,972.22	\$5,630,972.22

BOND DEBT SERVICE

Monroe County Water Authority
 Water System Revenue Bonds, Series 2020
 Rated Aa1/AA+, Callable 3/1/2030 @ 100%

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
09/01/2020			305,760.28	305,760.28	
03/01/2021	300,000	5.000%	454,850.00	754,850.00	1,060,610.28
09/01/2021			447,350.00	447,350.00	
03/01/2022	375,000	5.000%	447,350.00	822,350.00	1,269,700.00
09/01/2022			437,975.00	437,975.00	
03/01/2023	395,000	5.000%	437,975.00	832,975.00	1,270,950.00
09/01/2023			428,100.00	428,100.00	
03/01/2024	415,000	5.000%	428,100.00	843,100.00	1,271,200.00
09/01/2024			417,725.00	417,725.00	
03/01/2025	435,000	5.000%	417,725.00	852,725.00	1,270,450.00
09/01/2025			406,850.00	406,850.00	
03/01/2026	460,000	5.000%	406,850.00	866,850.00	1,273,700.00
09/01/2026			395,350.00	395,350.00	
03/01/2027	480,000	5.000%	395,350.00	875,350.00	1,270,700.00
09/01/2027			383,350.00	383,350.00	
03/01/2028	505,000	5.000%	383,350.00	888,350.00	1,271,700.00
09/01/2028			370,725.00	370,725.00	
03/01/2029	530,000	5.000%	370,725.00	900,725.00	1,271,450.00
09/01/2029			357,475.00	357,475.00	
03/01/2030	555,000	5.000%	357,475.00	912,475.00	1,269,950.00
09/01/2030			343,600.00	343,600.00	
03/01/2031	585,000	5.000%	343,600.00	928,600.00	1,272,200.00
09/01/2031			328,975.00	328,975.00	
03/01/2032	610,000	5.000%	328,975.00	938,975.00	1,267,950.00
09/01/2032			313,725.00	313,725.00	
03/01/2033	640,000	4.000%	313,725.00	953,725.00	1,267,450.00
09/01/2033			300,925.00	300,925.00	
03/01/2034	670,000	4.000%	300,925.00	970,925.00	1,271,850.00
09/01/2034			287,525.00	287,525.00	
03/01/2035	695,000	4.000%	287,525.00	982,525.00	1,270,050.00
09/01/2035			273,625.00	273,625.00	
03/01/2036	725,000	4.000%	273,625.00	998,625.00	1,272,250.00
09/01/2036			259,125.00	259,125.00	
03/01/2037	750,000	4.000%	259,125.00	1,009,125.00	1,268,250.00
09/01/2037			244,125.00	244,125.00	
03/01/2038	780,000	4.000%	244,125.00	1,024,125.00	1,268,250.00
09/01/2038			228,525.00	228,525.00	
03/01/2039	810,000	4.000%	228,525.00	1,038,525.00	1,267,050.00
09/01/2039			212,325.00	212,325.00	
03/01/2040	845,000	4.000%	212,325.00	1,057,325.00	1,269,650.00
09/01/2040			195,425.00	195,425.00	
03/01/2041	880,000	3.500%	195,425.00	1,075,425.00	1,270,850.00
09/01/2041			180,025.00	180,025.00	
03/01/2042	905,000	3.500%	180,025.00	1,085,025.00	1,265,050.00
09/01/2042			164,187.50	164,187.50	
03/01/2043	940,000	3.500%	164,187.50	1,104,187.50	1,268,375.00
09/01/2043			147,737.50	147,737.50	
03/01/2044	975,000	3.500%	147,737.50	1,122,737.50	1,270,475.00
09/01/2044			130,675.00	130,675.00	
03/01/2045	1,010,000	3.500%	130,675.00	1,140,675.00	1,271,350.00
09/01/2045			113,000.00	113,000.00	
03/01/2046	1,045,000	4.000%	113,000.00	1,158,000.00	1,271,000.00
09/01/2046			92,100.00	92,100.00	
03/01/2047	1,085,000	4.000%	92,100.00	1,177,100.00	1,269,200.00
09/01/2047			70,400.00	70,400.00	
03/01/2048	1,130,000	4.000%	70,400.00	1,200,400.00	1,270,800.00
09/01/2048			47,800.00	47,800.00	
03/01/2049	1,170,000	4.000%	47,800.00	1,217,800.00	1,265,600.00
09/01/2049			24,400.00	24,400.00	
03/01/2050	1,220,000	4.000%	24,400.00	1,244,400.00	1,268,800.00
	21,920,000		15,966,860.28	37,886,860.28	37,886,860.28



MONROE COUNTY WATER AUTHORITY

P.O. Box 10999 • 475 Norris Drive • Rochester, N.Y. 14610-0999

Phone: (585) 442-2000 Fax (585) 442-0220

February 23, 2023

MANAGEMENT'S ASSESSMENT OF THE EFFECTIVENESS OF INTERNAL CONTROL STRUCTURE AND PROCEDURES

The Authority's internal control over operations and financial reporting includes policies and procedures that (a) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect transactions and dispositions of assets; (b) provide reasonable assurances that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures are being made only in accordance with authorization of the Members of the Authority; and (c) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of Authority assets that could have a material effect on the Authority's operations, financial statements, and reports.

Because of its inherent limitations, internal control over operations and financial reporting may not prevent or detect misstatements. Projections of any evaluation of the effectiveness of internal controls to future periods are subject to the risk that controls may become inadequate due to changes in conditions, or that the degree of compliance with the policies and procedures may deteriorate.

For the period January 1 through December 31, 2022, Management conducted an assessment of the effectiveness of the Authority's internal control over operations and financial reporting and has determined that the controls are adequate. The assessment was made through testing, inquiry, and observation.

Respectfully submitted,

A handwritten signature in blue ink that reads "Nicholas Noce". The signature is written in a cursive style.

Nicholas Noce
Executive Director

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Basic Financial Statements,
Supplementary Information and
Independent Auditors' Report

December 31, 2022 and 2021

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Table of Contents

	<u>Page</u>
Independent Auditors' Report	1 - 3
Management's Discussion and Analysis	4 - 11
Basic Financial Statements:	
Statements of Net Position	12
Statements of Revenue, Expenses and Changes in Net Position	13
Statements of Cash Flows	14 - 15
Notes to Financial Statements	16 - 41
Required Supplementary Information:	
Schedule of Changes in the Authority's Total OPEB Liability and Related Ratios	42
Schedule of the Authority's Proportionate Share of the Net Pension Liability	43
Schedule of the Authority's Pension Contributions	44
Independent Auditor's Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with <u>Government Auditing Standards</u>	45 - 46

* * * * *

INDEPENDENT AUDITORS' REPORT

The Board of Directors
Monroe County Water Authority

Report on the Audit of the Financial Statements

Opinion

We have audited the accompanying financial statements of the Monroe County Water Authority (the Authority), a discretely presented component unit of the County of Monroe, New York, as of and for the years ended December 31, 2022 and 2021, and the related notes to financial statements, which collectively comprise the Authority's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Authority, as of December 31, 2022 and 2021, and the changes in its financial position and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audits of the Financial Statements section of our report. We are required to be independent of the Authority and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Authority's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS and Government Auditing Standards will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS and Government Auditing Standards, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Authority's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and the additional information on pages 42 through 44 be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with GAAS, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with

management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audits of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Reporting Required by Government Auditing Standards

In accordance with Government Auditing Standards, we have also issued our report dated March 16, 2023, on our consideration of the Authority's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Authority's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with Government Auditing Standards in considering Authority's internal control over financial reporting and compliance.

EFPR Group, CPAs, PLLC

Williamsville, New York
March 16, 2023

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Management's Discussion and Analysis

December 31, 2022 and 2021

The Monroe County Water Authority (the Authority) is a not-for-profit public benefit corporation that reliably provides quality, affordable water that fosters economic vitality and enhanced quality of life for Monroe County, New York (the County) and area communities who request service. The Authority is a discretely presented component unit of the County.

OVERVIEW OF THE FINANCIAL STATEMENTS

The financial statements of the Authority include the Statement of Net Position, the Statement of Revenue, Expenses and Changes in Net Position, the Statement of Cash Flows, and related notes to financial statements. The Statement of Net Position provides information about the nature and the amounts of investments and resources (assets), deferred outflows of resources, and the obligations to the Authority's creditors (liabilities), and deferred inflows of resources, with the difference between these reported as net position.

The Statement of Revenue, Expenses and Changes in Net Position shows how the Authority's net position changed during the year. It accounts for all the year's revenue and expenses, measures the financial results of the Authority's operations for the year and can be used to determine how the Authority has funded its costs.

The Statement of Cash Flows provides information about the Authority's cash receipts, cash payments, and net changes in cash resulting from operations, capital and related financing, and investing activities.

The notes to financial statements contain information that is essential to the understanding of the financial statements, such as the Authority's accounting methods and policies.

Management provides the following discussion and analysis of the Authority's financial position and activities. This overview is provided for the year ended December 31, 2022 and 2021. The information contained in this analysis should be used by the reader in conjunction with the information contained in our audited financial statements and the notes to those financial statements, all of which follow this narrative on the subsequent pages.

FINANCIAL HIGHLIGHTS

The Authority's financial statements are prepared on the accrual basis of accounting promulgated by the Governmental Accounting Standards Board. The Authority is a single-purpose entity and revenue is recognized when earned, not received. Expenses are recognized when incurred, not when they are paid.

The 2022 and 2021 financial statements are presented with comparative totals from 2020.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Management’s Discussion and Analysis, Continued

- The assets and deferred outflows of resources of the Authority exceeded its liabilities and deferred inflows of resources at the close of 2022 and 2021 by \$360,438,386 and \$340,486,180, respectively, (net position).
- Operating revenue increased \$4,040,237 from 2021 to 2022. Operating revenue increased \$3,075,688 from 2020 to 2021. The increase in both years is due to consumption and rate increases.

Summary of Operations and Change in Net Position

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Operating revenue	\$ 84,941,918	80,901,681	77,825,993
Operating expenses	<u>(63,978,935)</u>	<u>(67,996,454)</u>	<u>(64,973,837)</u>
Operating income	20,962,983	12,905,227	12,852,156
Non-operating expenses, net	<u>(4,657,827)</u>	<u>(5,805,303)</u>	<u>(5,411,706)</u>
Income before capital contributions	16,305,156	7,099,924	7,440,450
Capital contributions	<u>3,647,050</u>	<u>4,466,997</u>	<u>2,841,816</u>
Change in net position	\$ <u>19,952,206</u>	<u>11,566,921</u>	<u>10,282,266</u>

Capital contributions are revenue from developers and customers for water system capital improvements donated to the Authority.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Management's Discussion and Analysis, Continued

Financial Position Summary

Net position is an indication of the Authority's financial strength. The Authority's net position as of December 31, 2022 and 2021 is \$360,438,386 and \$340,486,180, respectively. A summary of the Authority's financial position is shown below.

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Assets:			
Current assets	\$ 126,221,184	109,906,945	96,513,883
Capital assets	430,911,638	430,588,225	427,824,586
Funds held by trustee	17,647,153	20,767,803	25,860,508
Net pension asset	4,965,984	-	-
Restricted assets	<u>1,861,691</u>	<u>2,737,993</u>	<u>1,878,985</u>
Total assets	<u>581,607,650</u>	<u>564,000,966</u>	<u>552,077,962</u>
Deferred Outflows of Resources	<u>30,330,776</u>	<u>38,799,463</u>	<u>21,214,718</u>
Liabilities:			
Current liabilities, including current portion of long-term	15,678,129	15,067,433	15,968,091
Long-term liabilities	<u>192,019,267</u>	<u>220,794,350</u>	<u>216,209,502</u>
Total liabilities	<u>207,697,396</u>	<u>235,861,783</u>	<u>232,177,593</u>
Deferred Inflows of Resources	<u>43,802,644</u>	<u>26,452,466</u>	<u>12,195,828</u>
Net Position:			
Net investment in capital assets	291,882,114	286,855,839	279,579,331
Restricted	1,675,171	2,737,993	1,878,985
Unrestricted	<u>66,881,101</u>	<u>50,892,348</u>	<u>47,460,943</u>
Total net position	<u>\$ 360,438,386</u>	<u>340,486,180</u>	<u>328,919,259</u>

Total assets increased from December 31, 2021 to 2022 by \$17,606,684 due to increased investment balances offset by decreased cash balances, while total assets increased in 2021 due to capital asset additions and increased cash balances.

Total liabilities decreased by \$28,164,387 in 2022 due primarily to the actuarial valuations of the other postemployment benefits plan (OPEB) and the New York State and Local Retirement Plan (the pension plan) while total liabilities increased by \$3,684,190 in 2021 due to the actuarial valuation of OPEB.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Management's Discussion and Analysis, Continued

Deferred outflows of resources and deferred inflows of resources at December 31, 2022 and 2021 changed due primarily to actuarial values from OPEB and the pension plan.

As a water utility, the Authority has a significant investment in infrastructure. The Authority's infrastructure includes approximately 3,350 miles of pipelines ranging from 2-inch in diameter to 60-inch in diameter, 51 booster pumping stations, 49 storage tanks, 2 reservoirs, 3 water treatment plants, land and other facilities required in the treatment and distribution of potable water to its customers. The Authority's net position also includes funds available to pay for ongoing and future construction or replacements, and/or additions, to this infrastructure.

Authority Rates and Charges

The Authority sets its rates annually in concurrence with the adoption of its annual operating budget. The Authority is required by its Master Trust Indenture dated October 1, 1991 and Supplemental Indentures issued with and specific to each subsequent revenue bond issue (Trust Indentures) to set rates and fees sufficient to cover all of its operating and capital expenses.

Many factors were considered by the Authority's Board members when the rates were being set for 2022 and 2021. Based in part on the recommendation of the Authority's independent rate consultant, the commodity and base rates increased by a modest amount and are shown in the following table.

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Residential/quarterly:			
Daily base charge per connection (up to ¾")	\$ 0.25	0.24	0.23
Commodity charge per 1,000 gallons	3.58	3.53	3.38
Large commercial/monthly:			
Daily base charge per connection			
Commodity charge per 1,000 gallons -	\$ 1.93 - 50.60	1.35 - 31.01	1.05 - 21.35
First 125,000 gallons	3.58	3.53	3.38
Each additional 1,000 gallons	2.55	2.51	2.40
Water district/wholesale:			
Daily base charge per connection	\$ 1.93 - 50.60	1.35 - 31.01	1.05 - 21.35
Commodity charge per 1,000 gallons	2.25	2.29	2.30
<u>Summary of Operating Revenue</u>			
	<u>2022</u>	<u>2021</u>	<u>2020</u>
Water sales:			
Residential/quarterly	\$ 67,471,091	63,986,170	63,283,710
Large commercial/monthly	7,346,583	6,855,080	6,221,883
Water districts wholesale	<u>4,788,030</u>	<u>4,728,140</u>	<u>4,024,113</u>
Total water sales	79,605,704	75,569,390	73,529,706
Other water and operating revenue	<u>5,336,214</u>	<u>5,332,291</u>	<u>4,296,287</u>
Total operating revenue	<u>\$ 84,941,918</u>	<u>80,901,681</u>	<u>77,825,993</u>

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Management’s Discussion and Analysis, Continued

Revenue

Water sales for 2022 and 2021 were projected based on average historical usage with the typical residential customer using approximately 69 thousand gallons of water annually. The 2022 and 2021 water sales, which include the residential, large commercial and water district classes, were \$4,036,314 and \$2,039,684 more than those of 2021 and 2020, respectively.

Other water revenue for 2022 and 2021 includes private fire services in the amount of \$1,377,691 and \$1,356,976, respectively, and late charges in the amount of \$1,098,997 and \$963,109, respectively. Also included are payments made to the Authority by Genesee County for debt service on facilities constructed and owned by the Authority for the benefit of the respective counties. In 2022 and 2021, the service fee for Genesee County was \$2,074,926 and \$2,025,583, respectively. Other operating revenue included cell tower lease income of \$238,588 and \$222,656 in 2022 and 2021, respectively.

Operating Expenses

The Authority’s expenses (excluding depreciation and amortization) are budgeted and tracked functionally by operating department. The Authority is divided into the following five departments: Administration; Production/Transmission; Engineering; Facilities, Fleet & Operations; and Finance & Business Services.

The following is a breakdown of the Authority’s functional expenses by operating department (excluding depreciation and amortization):

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Functional expenses:			
Administration	\$ 3,776,000	10,440,996	4,048,684
Production/transmission	15,948,831	13,839,409	14,161,400
Engineering	3,249,832	3,534,341	4,236,786
Facilities, fleet & operations	13,889,840	13,398,153	14,873,172
Finance and business services	<u>6,973,322</u>	<u>7,415,505</u>	<u>8,448,903</u>
Total functional expenses	<u>\$ 43,837,825</u>	<u>48,628,404</u>	<u>45,768,945</u>

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Management's Discussion and Analysis, Continued

The following is a breakdown of the Authority's total operating expenses:

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Operating expenses:			
Salaries and fringe benefits	\$ 24,679,831	24,663,087	23,980,649
Operations and maintenance	16,555,385	12,748,091	12,299,987
General and administrative	2,359,609	10,974,226	9,245,309
City contract - capital	243,000	243,000	243,000
Depreciation and amortization	<u>20,141,110</u>	<u>19,368,050</u>	<u>19,204,892</u>
Total operating expenses	<u>\$ 63,978,935</u>	<u>67,996,454</u>	<u>64,973,837</u>

Total operating expenses decreased \$4,017,519 from 2021. Salaries and Benefits increased \$16,744. Operations and Maintenance expense increased \$3,807,294 compared to 2021. General and administrative expenses decreased \$8,614,617 from 2021. City contract - capital is the Authority's share of capital projects outlined in the 2011 Exchange Agreement for Water Supply with the City of Rochester and did not change for 2022.

Total operating expenses increased \$3,022,617 from 2020. Salaries and Benefits increased \$682,438. Operations and Maintenance expense increased \$448,104 compared to 2020. General and administrative expenses increased \$1,728,917 from 2020. City contract - capital is the Authority's share of capital projects outlined in the 2011 Exchange Agreement for Water Supply with the City of Rochester and did not change for 2021.

Non-Operating Revenue (Expenses)

The Authority's non-operating revenue (expenses) is composed of the following:

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Non-operating revenue (expenses):			
Federal interest subsidy	\$ 1,711,098	1,905,752	1,798,135
Interest earnings	1,416,763	74,098	722,325
Interest expense	(7,173,475)	(7,356,804)	(7,239,451)
Bond issuance costs	-	-	(305,766)
Loss on disposal of capital assets	(384,966)	(394,108)	(418,865)
Realized and unrealized gains on investments, net	<u>(227,247)</u>	<u>(34,241)</u>	<u>31,916</u>
Total non-operating revenue (expenses), net	<u>\$ (4,657,827)</u>	<u>(5,805,303)</u>	<u>(5,411,706)</u>

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Management's Discussion and Analysis, Continued

CAPITAL ASSETS

At the end of 2022 and 2021, the Authority had \$430,911,638 and \$430,588,225, respectively, invested in a broad range of capital assets (see table below).

	Capital Assets, Net of Depreciation		
	<u>2022</u>	<u>2021</u>	<u>2020</u>
Land easements	\$ 10,852,327	10,608,853	10,591,378
Construction-in-progress	7,539,688	20,623,931	18,824,424
Land improvements	7,829,480	7,829,480	7,708,985
Production and distribution system	266,961,088	257,070,621	253,305,193
Pipelines and district facilities	353,352,205	335,985,142	325,135,539
Meters and services	112,799,979	108,786,308	104,783,925
Automotive and construction equipment	9,235,750	8,888,839	8,706,137
Water facility capital lease	78,056,980	78,056,980	78,056,980
Furniture, fixtures and other equipment	3,498,779	3,646,666	3,736,009
Accumulated depreciation	(419,214,638)	(400,908,595)	(383,023,984)
	\$ <u>430,911,638</u>	<u>430,588,225</u>	<u>427,824,586</u>

DEBT ADMINISTRATION

Water Revenue Bonds

As of December 31, 2022 and 2021, the Authority has six water revenue bond series outstanding totaling, \$135,025,000 and \$139,550,000, respectively. The 2007 Series bonds continue to be payable by Genesee County to the Authority under the terms of the Construction Services Agreement between Genesee County and the Authority dated May 24, 2000. A portion of the 2020 Series bonds are also payable by Genesee County to the Authority.

	Outstanding as of December <u>2022</u>	Outstanding as of December <u>2021</u>	Outstanding as of December <u>2020</u>	Principal Due <u>2023</u>
<u>Authority Bond Series</u>				
2007 Series Refunding	\$ 11,710,000	12,325,000	12,935,000	625,000
2010B Series	80,695,000	83,295,000	85,810,000	2,700,000
2012 Series	4,645,000	4,860,000	5,065,000	225,000
2013 Series	13,215,000	13,715,000	14,205,000	505,000
2017 Series	3,515,000	3,735,000	3,950,000	225,000
2020 Series	<u>21,245,000</u>	<u>21,620,000</u>	<u>21,920,000</u>	<u>395,000</u>
Total	\$ <u>135,025,000</u>	<u>139,550,000</u>	<u>143,885,000</u>	<u>4,675,000</u>

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Management's Discussion and Analysis, Continued

Credit Ratings

The Authority is the recipient of very favorable credit ratings from both Moody's Investors Service and Standard & Poor's. The Authority has an Aa1 rating assigned to its revenue bonds by Moody's Investors Service and an AA+ rating by Standard & Poor's. The Authority's bond ratings were last reviewed by Moody's Investor Service in March of 2020 and by Standard & Poor's in March of 2020 in conjunction with the 2020 bond issuance. The Authority issues revenue bonds subject to its Master Trust Indenture dated October 1, 1991 and Supplemental Indentures issued with, and specific to, each subsequent revenue bond issue.

ECONOMIC FACTORS AND NEXT YEAR'S GOALS

The Authority continues to develop the necessary infrastructure and operational practices to meet its short and long- term plans while ensuring quality customer service is provided and competitive rates are being maintained.

In 2023, the Authority intends to spend approximately \$20.5 million for capital improvements, including the following major projects.

- Water Main Rehabilitation and Replacements
- Lee Road BP5 HVAC/Electrical
- Service Replacements
- Residential Meter Replacements
- Security System Upgrade

The Authority believes it possesses the financial and leadership capabilities to accomplish its goals during the upcoming year.

REQUEST FOR INFORMATION

This financial report is designed to provide a general overview of the Authority's finances for all those interested. Questions concerning any of the information provided in this report or requests for additional information should be addressed in writing to the Director of Finance & Business Services, Monroe County Water Authority, 475 Norris Drive, Rochester, New York, 14610 or call (585) 442-2000.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of the County of Monroe, New York)
Statements of Net Position
December 31, 2022 and 2021

	<u>2022</u>	<u>2021</u>
Assets:		
Current assets:		
Cash and equivalents	\$ 14,528,954	91,428,332
Investments	90,736,368	-
Accounts receivable	8,075,533	6,872,589
Accrued unbilled revenue	8,698,000	7,952,000
Materials and supplies	2,931,136	1,939,015
Prepayments and other current assets	<u>1,251,193</u>	<u>1,715,009</u>
Total current assets	<u>126,221,184</u>	<u>109,906,945</u>
Other assets:		
Capital assets, net	430,911,638	430,588,225
Funds held by trustee	17,647,153	20,767,803
Net pension asset - proportionate share	<u>4,965,984</u>	<u>-</u>
Total other assets	<u>453,524,775</u>	<u>451,356,028</u>
Restricted assets:		
Debt service fund held by trustee	1,770	868,306
Debt service reserve held by trustee	<u>1,859,921</u>	<u>1,869,687</u>
Total restricted assets	<u>1,861,691</u>	<u>2,737,993</u>
Total assets	<u>581,607,650</u>	<u>564,000,966</u>
Deferred Outflows of Resources:		
Pension	10,467,129	13,675,853
OPEB	19,500,242	24,731,304
Debt refunding	<u>363,405</u>	<u>392,306</u>
Total deferred outflows of resources	<u>30,330,776</u>	<u>38,799,463</u>
Liabilities:		
Current liabilities:		
Accounts payable and other liabilities	3,175,375	2,718,331
Accrued payroll and benefits	5,020,186	4,934,564
Accrued interest	2,807,568	2,889,538
Current portion of water revenue bonds	<u>4,675,000</u>	<u>4,525,000</u>
Total current liabilities	<u>15,678,129</u>	<u>15,067,433</u>
Long-term liabilities:		
Water revenue bonds, net of bond premium of \$4,367,929 in 2022 and \$4,574,692 in 2021	134,717,929	139,599,692
Net pension liability - proportionate share	-	58,190
Total OPEB liability	<u>57,301,338</u>	<u>81,136,468</u>
Total long-term liabilities	<u>192,019,267</u>	<u>220,794,350</u>
Total liabilities	<u>207,697,396</u>	<u>235,861,783</u>
Deferred Inflows of Resources:		
Pension	17,129,511	17,249,499
OPEB	<u>26,673,133</u>	<u>9,202,967</u>
Total deferred inflows of resources	<u>43,802,644</u>	<u>26,452,466</u>
Net Position:		
Net investment in capital assets	291,882,114	286,855,839
Restricted	1,675,171	2,737,993
Unrestricted	<u>66,881,101</u>	<u>50,892,348</u>
Total net position	<u>\$360,438,386</u>	<u>340,486,180</u>

See accompanying notes to financial statements.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of the County of Monroe, New York)
Statements of Revenue, Expenses and Changes in Net Position
Years ended December 31, 2022 and 2021

	<u>2022</u>	<u>2021</u>
Operating revenue:		
Water sales - residential	\$ 67,471,091	63,986,170
Water sales - industrial/commercial	7,346,583	6,855,080
Water sales - water district	4,788,030	4,728,140
Other water revenue	4,777,339	4,580,859
Other operating revenue	<u>558,875</u>	<u>751,432</u>
Total operating revenue	<u>84,941,918</u>	<u>80,901,681</u>
Operating expenses:		
Salaries and fringe benefits	24,679,831	24,663,087
Operations and maintenance	16,555,385	12,748,091
General and administrative	2,359,609	10,974,226
City contract - capital	243,000	243,000
Depreciation	<u>20,141,110</u>	<u>19,368,050</u>
Total operating expenses	<u>63,978,935</u>	<u>67,996,454</u>
Operating income	<u>20,962,983</u>	<u>12,905,227</u>
Non-operating revenue (expenses):		
Federal interest subsidy	1,711,098	1,905,752
Interest earnings	1,416,763	74,098
Interest expense	(7,173,475)	(7,356,804)
Loss on disposal of capital assets	(384,966)	(394,108)
Realized and unrealized gain and losses on investments, net	<u>(227,247)</u>	<u>(34,241)</u>
Total non-operating expenses, net	<u>(4,657,827)</u>	<u>(5,805,303)</u>
Income before capital contributions	16,305,156	7,099,924
Capital contributions - developers and customers	<u>3,647,050</u>	<u>4,466,997</u>
Change in net position	19,952,206	11,566,921
Net position at beginning of year	<u>340,486,180</u>	<u>328,919,259</u>
Net position at end of year	<u>\$ 360,438,386</u>	<u>340,486,180</u>

See accompanying notes to financial statements.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of the County of Monroe, New York)
Statements of Cash Flows
Years ended December 31, 2022 and 2021

	<u>2022</u>	<u>2021</u>
Cash flows from operating activities:		
Receipts from customers	\$ 82,992,974	81,353,683
Payments to suppliers	(19,229,255)	(26,163,273)
Payments to employees	<u>(27,663,549)</u>	<u>(18,738,781)</u>
Net cash provided by operating activities	<u>36,100,170</u>	<u>36,451,629</u>
Cash flows from capital and related financing activities:		
Deposits to funds held by trustees, net	3,996,952	4,233,697
Purchases of capital assets	(17,291,824)	(18,058,800)
Disposal of capital assets	89,385	-
Federal interest subsidy	1,711,098	1,905,752
Repayments of water revenue bonds	(4,525,000)	(4,335,000)
Amortization of debt refunding	28,901	28,900
Amortization of bond premiums	(206,763)	(206,769)
Interest paid	<u>(7,255,445)</u>	<u>(7,423,187)</u>
Net cash used in capital and related financing activities	<u>(23,452,696)</u>	<u>(23,855,407)</u>
Cash flows from investing activities:		
Purchase of investments, net	(90,736,368)	20,777,218
Interest received	1,416,763	74,098
Realized and unrealized gains and losses on investments, net	<u>(227,247)</u>	<u>(34,241)</u>
Net cash provided by (used in) from investing activities	<u>(89,546,852)</u>	<u>20,817,075</u>
Change in cash and cash equivalents	(76,899,378)	33,413,297
Cash and cash equivalents at beginning of year	<u>91,428,332</u>	<u>58,015,035</u>
Cash and cash equivalents at end of year	<u>\$ 14,528,954</u>	<u>91,428,332</u>

(Continued)

See accompanying notes to financial statements.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of the County of Monroe, New York)
Statements of Cash Flows, Continued

	<u>2022</u>	<u>2021</u>
Reconciliation of operating income to net cash flow provided by operating activities:		
Operating income	\$ 20,962,983	12,905,227
Adjustments to reconcile operating income to net cash flows provided by operating activities:		
Depreciation	20,141,110	19,368,050
Bad debt expense	11,014	31,530
Changes in:		
Accounts receivable	(1,213,958)	630,472
Accrued unbilled revenue	(746,000)	(210,000)
Materials and supplies	(992,121)	(420,499)
Prepayments and other current assets	463,816	(788,486)
Accounts payable and other liabilities	457,044	(988,971)
Accrued payroll and benefits	85,622	(35,304)
Pension items	(1,935,438)	(1,378,960)
OPEB items	<u>(1,133,902)</u>	<u>7,338,570</u>
Net cash provided by operating activities	<u>\$ 36,100,170</u>	<u>36,451,629</u>
Non-cash capital and related financing activities:		
Capital assets received directly from developers and customers	<u>\$ 3,647,050</u>	<u>4,466,997</u>
Disposal of capital assets	<u>\$ (384,966)</u>	<u>(394,108)</u>

See accompanying notes to financial statements.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements

December 31, 2022 and 2021

(1) Organization

Monroe County Water Authority (the Authority), a discretely presented component unit of the County of Monroe, New York (the County), is a public benefit corporation organized under the Public Authorities Law of the State of New York. The Authority was created to finance, construct, operate and maintain a water supply and distribution system for the benefit of the residents of the County and the State of New York (the State).

(2) Summary of Significant Accounting Policies

(a) Measurement Focus and Basis of Accounting

The financial statements of the Authority have been prepared in accordance with accounting principles generally accepted in the United States of America (GAAP) as applied to governmental units. The Governmental Accounting Standards Board (GASB) is the accepted standard-setting body for establishing government accounting and financial reporting principles.

The activities of the Authority are accounted for similar to those often found in the private sector using the flow of economic resources measurement focus and the accrual basis of accounting. All assets, liabilities, deferred outflows of resources, deferred inflows of resources, net position, revenue, and expenses are accounted for through a single enterprise fund with revenue recorded when earned and expenses recorded at the time liabilities are incurred.

(b) Basis of Presentation

GASB requires the classification of net position into three categories defined as follows:

- Net investment in capital assets - This component of net position consists of capital assets, net of accumulated depreciation and amortization, reduced by the outstanding balances of any bonds, mortgages, notes, or other borrowings that are attributable to the acquisition, construction, or improvement of those assets. If there are significant unspent capital-related debt proceeds at year-end, the portion of the debt attributable to the unspent proceeds is not included in the calculation of net investment in capital assets. Rather, that portion of the debt is included in the same net position component as the unspent proceeds.
- Restricted net position - This component of net position consists of amounts which have external constraints placed on its use imposed by creditors (such as through debt covenants), grantors, contributors, or laws or regulations of other governments or constraints imposed by law through constitutional provisions or enabling legislation.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(2) Summary of Significant Accounting Policies, Continued

(b) Basis of Presentation, Continued

- Unrestricted net position - This component consists of net position that does not meet the definition of “net investment in capital assets” or “restricted.”

When both restricted and unrestricted resources are available for use, it is the Authority’s policy to use restricted resources first, and then unrestricted resources as they are needed.

(c) Cash, Cash Equivalents and Investments

For purposes of presenting the statement of cash flows, the Authority considers all highly liquid short-term investments with an original maturity of three months or less from date of purchase to be cash or cash equivalents.

A framework has been established for measuring fair value. That framework provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). The three levels of the fair value hierarchy are described below:

- Level 1 - Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Authority has the ability to access.
- Level 2 - Inputs to the valuation methodology include:
 - Quoted prices for similar assets or liabilities in active markets;
 - Quoted prices for identical or similar assets or liabilities in inactive markets;
 - Inputs other than quoted prices that are observable for the assets or liabilities; and
 - Inputs that are derived principally from or corroborated by observable market data by correlation or other means.
- Level 3 - Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

An asset’s or liability’s fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

The Authority assess the levels of the investments at each measurement date, and transfers between levels are recognized on the actual date of the event or change in circumstances that caused the transfer in accordance with its accounting policy regarding the recognition of transfers between levels of the fair value hierarchy.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(2) Summary of Significant Accounting Policies, Continued

(d) Accounts Receivable

Accounts receivable consists of fees for services for water charges due from individuals, businesses, and other governments. Accounts receivable are carried on the balance sheet at net realizable value. The Authority has elected to record bad debts using the direct write-off method. GAAP requires the allowance method be used to recognize bad debts; however, the effect of using the direct write-off method is not materially different from the results that would have been obtained under the allowance method.

(e) Accrued Unbilled Revenue

Accrued unbilled revenues represent revenue earned in the current year but not billed to customers until future dates, usually within three months, and is an estimate made by management using historical trends.

(f) Materials and Supplies

Materials and supplies are stated at cost and are determined using a weighted-average method.

(g) Prepayments and Other Current Assets

Prepayment and other current assets reflect costs applicable to future accounting periods and are recorded as prepayments and other current assets.

(h) Capital Assets

Capital assets are stated at cost. Depreciation and amortization are provided using the straight-line method over the following estimated useful lives or lease term if shorter:

Land improvements	10 - 20 years
Production and distribution system	5 - 40 years
Pipelines and district facilities	40 years
Meters and services	25 - 40 years
Automotive and construction equipment	5 years
Water facility capital lease	5 - 25 years
Furniture, fixtures and other equipment	5 - 15 years

Improvements, renewals and significant repairs over \$5,000 that extend the life of the asset are capitalized; other repairs and maintenance costs are expensed as incurred. When assets are retired or otherwise disposed of, the related asset and accumulated depreciation is written off and any unrelated gains or losses are recorded.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(2) Summary of Significant Accounting Policies, Continued

(i) Funds Held by Trustee

Funds held by Bank of New York (the Trustee) consist of fixed income United States Government securities. These funds are required to be held in accordance with the trust indentures for the water revenue bonds as described in note 6.

As of December 31, 2022 and 2021, the Authority had the following funds held by trustee:

	<u>2022</u>	<u>2021</u>
Capital improvement fund	\$ 12,606,532	15,748,986
New construction fund	<u>5,040,621</u>	<u>5,018,817</u>
Total funds held by trustee	\$ <u>17,647,153</u>	<u>20,767,803</u>

(j) Accrued Payroll and Benefits

It is the Authority's policy to record employee benefits, including accumulated vacation and sick leave, as a current liability on the statements of net position. The Authority's employees are granted vacation and sick leave in varying amounts based on the underlying employee contracts.

(k) Other Postemployment Benefits (OPEB)

The Authority provides certain health care benefits to its retired employees in accordance with the provisions of employment contracts.

(l) Unamortized Bond Premium

Bond premium related to the issuance of debt obligations is amortized over the term of the respective bond issues.

(m) Deferred Outflows and Inflows of Resources

Deferred outflows of resources represents a consumption of net position that applies to a future period and so will not be recognized as an outflow of resources (expense) until then. The Authority has three items that qualify for reporting in this category. The first item is related to pensions and represents the effect of the net change in the Authority's proportion of the collective net pension asset/liability and difference during the measurement period between the Authority's contributions and its proportionate share of total contributions to the pension system not included in pension expense as well as the Authority's contributions to the pension systems subsequent to the measurement date. The second item is related to OPEB and relates to differences between expected and actual experience, changes in assumptions as well as the Authority's contributions subsequent to the measurement date. The third item is the deferred loss the Authority incurred on its debt refundings.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)
Notes to Financial Statements, Continued

(2) Summary of Significant Accounting Policies, Continued

(m) Deferred Outflows and Inflows of Resources, Continued

Deferred inflows of resources represents an acquisition of net position that applies to future period(s) and so will not be recognized as an inflow of resources (revenue) until that time. The Authority has two items that qualify for reporting in this category. The first is related to pensions and represents the effect of the net change in the Authority's proportion of the collective net pension asset/liability and difference during the measurement periods between the Authority's contributions and its proportion share of total contributions to the pension systems not included in the pension expense. The second item is related to OPEB and relates to differences between expected and actual experience and changes in assumptions.

(n) Revenue Recognition

Revenues from water sales are recognized at the time of service delivery based on actual or estimated water meter readings.

(o) Operating and Non-Operating Revenue and Expenses

Operating revenue consists of water revenue and other related revenue. The Authority defines non-operating revenue as interest earnings on investment assets and realized and unrealized gains or losses on sales of investments. Non-operating expenses are defined as interest expense and other costs related to issuance of long-term debt and gains and losses on disposals of capital assets. The Authority also receives Federal interest subsidies which are considered non-operating revenue.

(p) Capital Contributions from Developers and Customers

Capital contributions from developers and customers represent amounts for betterments or additions to capital assets that have been contributed to the Authority.

(q) Income Tax Status

As a public benefit corporation, the Authority is exempt from federal and state income taxes, as well as state and local property and sales taxes.

(r) Estimates

The preparation of the financial statements in accordance with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

(s) Adoption of Accounting Principle

During the year ended December 31, 2022, the Authority adopted the provisions of GASB statement No. 87 - "Leases." The primary objective of this Statement is to better meet the information needs of financial statement users by improving accounting and financial reporting for leases by governments. The Authority has performed an evaluation of its leasing transactions, and determined that the implementation of this Statement will have no material impact on the financial statements of the Authority.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(3) Water Agreement

The Authority and the City of Rochester, New York (the City) entered into an agreement in 2011 that provides for the exchange of water between the two entities at a fixed rate that is established annually based on the weighted average cost of each entity's typical residential customer. Authority consumption of the City's water is offset against the City's consumption of the Authority's water with the net consumption charged at the annual exchange rate. For the year ended December 31, 2022 and 2021, the Authority had net purchases from the City of \$1,558,403 and \$1,449,359, respectively.

(4) Deposits With Financial Institutions and Investments

The guidelines established by the Authority permit the investment of funds held by the Authority, and funds held in trust for the Authority, to be invested in accordance with New York State Public Authorities Law. Investments must be in the form of obligations of the State, or in general obligations of its political subdivisions; obligations of the United States or its agencies whose principal and interest payments are fully guaranteed by the federal government; and in collateralized time deposits or certificates of deposit issued by a commercial bank or trust company, which is a member of the Federal Deposit Insurance Corporation (FDIC). The Authority's investment policy limits its deposit and investment activity to time deposits, demand deposits, certificates of deposit, United States Government obligations and repurchase agreements.

The Authority's investment policy requires its deposits and investments, not controlled by the Trustee, to be 100% collateralized through federal deposit insurance or other obligations. Obligations that may be pledged as collateral are obligations of, or guaranteed by, the United States or the State. Collateral must be delivered to the Authority or an authorized custodial bank. In addition, the Authority's investment policy includes the following provisions for credit risk and custodial credit risk (as defined below):

- Custodial credit risk - For cash deposits or investments, custodial credit risk is the risk that, in the event of the failure of the counterparty, the Authority will not be able to recover the value of its investments or collateral securities that are in the possession of an outside party.
 - The Authority limits its investments (other than United States securities held by the Trustee) at any financial institution to 1% of such institution's total assets.
 - Any financial institution in which the Authority invests funds must have in excess of \$50,000,000 in capital stock and retained earnings and the Authority limits its investments (other than United States securities held by the Trustee) at these institutions to 5% of the total capital stock and retained earnings.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(4) Deposits With Financial Institutions and Investments, Continued

- Credit risk - For cash deposits or investments, credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations.
 - The Authority limits its investments in money market funds to those with the highest short-term or long-term rating by at least one nationally recognized rating agency. The money market funds detailed in this section are used as savings accounts by the Authority and these accounts are classified as cash and cash equivalents and not investments.
 - As of December 31, 2022 and 2021, the Authority's deposits and investments in various banks are detailed below.
 - Total deposits of cash and equivalents, marketable securities and related collateral, included in cash and equivalents and marketable securities, not controlled by the Trustee (including certificates of deposit and money market funds) are as follows as of December 31, 2022 and 2021:

	2022	
	Carrying Amount	Bank Balance
Demand deposits	\$ 3,626,131	5,537,680
Time deposits	<u>10,902,823</u>	<u>10,902,823</u>
Total cash and investments	\$ <u>14,528,954</u>	<u>16,440,503</u>
Insured cash - FDIC		\$ 1,000,000
Uninsured - collateralized with securities held by pledging financial institution		<u>15,756,333</u>
Total insured and collateralized cash and equivalents		\$ <u>16,756,333</u>

	2021	
	Carrying Amount	Bank Balance
Demand deposits	\$ 3,932,602	5,120,684
Time deposits	<u>87,495,730</u>	<u>87,495,730</u>
Total cash and investments	\$ <u>91,428,332</u>	<u>92,616,414</u>
Insured cash - FDIC		\$ 898,480
Uninsured - collateralized with securities held by pledging financial institution		<u>94,146,358</u>
Total insured and collateralized cash and equivalents		\$ <u>95,044,838</u>

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(4) Deposits With Financial Institutions and Investments, Continued

Total cash and equivalents and marketable securities by type as of December 31, 2022 and 2021, including certificates of deposit controlled by the Trustee and reported in ‘Capital improvement fund’, ‘New construction fund’, and ‘Restricted Assets’ in the accompanying financial statements, are as follows:

	<u>2022</u>	<u>2021</u>
United States Treasury obligations	\$ 1,175,564	1,207,626
United States Treasury bills	109,067,878	21,429,864
Money market funds	1,770	868,306
Cash	<u>14,528,954</u>	<u>91,428,332</u>
	<u>\$ 124,774,166</u>	<u>114,934,128</u>

United States Treasury obligations and United States Treasury bills are considered level 1 investments. The Authority categorizes its fair value measurements within the fair value hierarchy established by GAAP. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs.

The following deposits and investments, excluding amounts controlled by the Trustee, held with one financial institution represent five percent or more of the Authority’s total deposits and investments at either December 31, 2022 and 2021, or both:

	<u>2022</u>	<u>2021</u>
M&T Bank	\$ 53,449,093	92,042,588
Percentage	50%	99%
Key Bank	53,309,528	N/A
Percentage	49%	N/A

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(5) Capital Assets

Capital asset activity for the years ended December 31, 2022 and 2021 was as follows:

	2022				Balance 12/31/2022
	Balance 1/1/2022	Additions	Transfers	Disposals	
Land and easements	\$ 10,608,853	-	243,474	-	10,852,327
Construction-in-progress	<u>20,623,931</u>	<u>17,998,080</u>	<u>(31,082,323)</u>	-	<u>7,539,688</u>
Total non-depreciable assets	<u>31,232,784</u>	<u>17,998,080</u>	<u>(30,838,849)</u>	-	<u>18,392,015</u>
Land improvements	7,829,480	-	-	-	7,829,480
Production and distribution system	257,070,621	-	11,120,455	(1,229,988)	266,961,088
Pipelines and district facilities	335,985,142	1,991,005	15,376,058	-	353,352,205
Meters and services	108,786,308	949,789	3,734,886	(671,004)	112,799,979
Automotive and construction equipment	8,888,839	-	581,789	(234,878)	9,235,750
Water facility capital lease	78,056,980	-	-	-	78,056,980
Furniture, fixtures and other equipment	<u>3,646,666</u>	-	<u>25,661</u>	<u>(173,548)</u>	<u>3,498,779</u>
Total depreciable assets at cost	<u>800,264,036</u>	<u>2,940,794</u>	<u>30,838,849</u>	<u>(2,309,418)</u>	<u>831,734,261</u>
Less accumulated depreciation:					
Land improvements	(3,191,717)	(253,764)	453	-	(3,445,028)
Production and distribution system	(114,594,305)	(8,092,258)	(41,491)	910,010	(121,818,044)
Pipelines and district facilities	(150,939,637)	(7,723,044)	(61,736)	-	(158,724,417)
Meters and services	(45,796,224)	(3,212,232)	108,389	568,366	(48,331,701)
Automotive and construction equipment	(5,366,469)	(572,316)	(31,088)	183,143	(5,786,730)
Water facility capital lease	(78,056,980)	-	-	-	(78,056,980)
Furniture, fixtures and other equipment	<u>(2,963,263)</u>	<u>(287,496)</u>	<u>25,473</u>	<u>173,548</u>	<u>(3,051,738)</u>
Total accumulated depreciation	<u>(400,908,595)</u>	<u>(20,141,110)</u>	-	<u>1,835,067</u>	<u>(419,214,638)</u>
Total depreciable assets, net	<u>399,355,441</u>	<u>(17,200,316)</u>	<u>30,838,849</u>	<u>(474,351)</u>	<u>412,519,623</u>
Total capital assets, net	<u>\$ 430,588,225</u>	<u>797,764</u>	-	<u>(474,351)</u>	<u>430,911,638</u>

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(5) Capital Assets, Continued

	2021				Balance 12/31/2021
	Balance 1/1/2021	Additions	Transfers	Disposals	
Land and easements	\$ 10,591,378	-	17,475	-	10,608,853
Construction-in-progress	18,824,424	18,730,363	(16,930,856)	-	20,623,931
Total non-depreciable assets	<u>29,415,802</u>	<u>18,730,363</u>	<u>(16,913,381)</u>	<u>-</u>	<u>31,232,784</u>
Land improvements	7,708,985	-	120,495	-	7,829,480
Production and distribution system	253,305,193	7,300	4,698,376	(940,248)	257,070,621
Pipelines and district facilities	325,135,539	2,609,506	8,278,392	(38,295)	335,985,142
Meters and services	104,783,925	1,178,628	3,447,359	(623,604)	108,786,308
Automotive and construction equipment	8,706,137	-	214,675	(31,973)	8,888,839
Water facility capital lease	78,056,980	-	-	-	78,056,980
Furniture, fixtures and other equipment	3,736,009	-	154,084	(243,427)	3,646,666
Total depreciable assets at cost	<u>781,432,768</u>	<u>3,795,434</u>	<u>16,913,381</u>	<u>(1,877,547)</u>	<u>800,264,036</u>
Less accumulated depreciation:					
Land improvements	(3,005,883)	(185,834)	-	-	(3,191,717)
Production and distribution system	(107,426,471)	(7,983,367)	-	815,533	(114,594,305)
Pipelines and district facilities	(143,492,259)	(7,451,415)	-	4,037	(150,939,637)
Meters and services	(43,303,885)	(2,885,807)	-	393,468	(45,796,224)
Automotive and construction equipment	(4,828,802)	(544,315)	-	6,648	(5,366,469)
Water facility capital lease	(78,056,979)	-	-	(1)	(78,056,980)
Furniture, fixtures and other equipment	(2,909,705)	(317,312)	-	263,754	(2,963,263)
Total accumulated depreciation	<u>(383,023,984)</u>	<u>(19,368,050)</u>	<u>-</u>	<u>1,483,439</u>	<u>(400,908,595)</u>
Total depreciable assets, net	<u>398,408,784</u>	<u>(15,572,616)</u>	<u>16,913,381</u>	<u>(394,108)</u>	<u>399,355,441</u>
Total capital assets, net	<u>\$ 427,824,586</u>	<u>3,157,747</u>	<u>-</u>	<u>(394,108)</u>	<u>430,588,225</u>

(6) Water Revenue Bonds

The Authority has entered into Trust Indentures under which all outstanding bonds have been issued. The Trust Indentures pledge all revenues and other income collected by the Authority for payment of principal and interest on the bonds. The Trust Indentures also generally require establishment of a trust fund called “the water system revenue fund,” for which the Authority acts as a trustee, into which all revenue is to be deposited, as well as a debt service reserve fund under which the Authority is required to maintain deposit amounts sufficient to cover the annual debt service or provide a surety bond (as defined in the Trust Indentures) of its bonds. The Authority covenants in its indenture that it will establish water rates sufficient to cover the sum of: (1) 1.2 times debt service, (2) expenses of operating, maintaining, renewing and replacing the water system and maintaining the debt service reserve fund, and (3) any additional amounts required to pay all other charges payable from the Authority’s revenue. As of December 31, 2022 and 2021, the Authority is in compliance with its financial covenants.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(6) Water Revenue Bonds, Continued

Series 2007 Bonds

The Authority issued 2001 series bonds in the amount of \$20,000,000 which are entirely payable by Genesee County to the Authority under the terms of the Construction Services Agreement between Genesee County and the Authority dated May 24, 2000. The first principal payment on the 2001 Series was made in 2006. During 2007, the bonds were advance refunded by the Authority on behalf of Genesee County with the issuance of the Series 2007 Bonds.

In 2015, the New York State Environmental Facilities Corporation (EFC) refinanced its 2007 series bonds, which included bonds issued for the Authority. The Authority's portion of the bond, \$16,425,000, was part of the EFC issue of \$367,455,000 State Clean Water & Drinking Water Revolving Fund Revenue Bonds Series 2015D, dated August 13, 2015. The Authority's 2007 series bonds, which were part of the original EFC 2007 financing, remained intact with the Authority receiving its share of the interest savings through credits from EFC at the time of debt service payments. This refinancing and its associated costs will save Genesee County over \$2,700,000 over the term of the bond. The entire \$16,425,000 continues to be payable by Genesee County to the Authority under the Construction Services Agreement between Genesee County and the Authority dated May 24, 2000. In addition, the bond refunding resulted in present value savings to the Authority of \$1,470,817.

Series 2010 Bonds

In 2010, the Authority issued the 2010 Series bonds which refunded the 1993 Series A bonds and the 1997 bonds. This refinancing and its associated costs were paid by the Authority and will save the Authority approximately \$773,000 over the term of the bond. In addition, the bond refunding resulted in an economic gain on refunding of \$680,000. The excess of the net carrying amount of the refunded bonds over the reacquisition price in the amount of \$527,039 has been deferred and was allocated between bond premium and deferred gain on refunding and is being amortized over the term of the new bonds using the straight-line method through 2035.

Series 2017 Bonds

In 2017, the Authority issued the 2017 Series bonds which was used to advance refund a portion of the Authority's Water System Revenue Bonds, Series 2010. Such proceeds were deposited with the Trustee to be held in a special trust account for the redemption of the refunded bonds on their respective redemption dates. \$4,300,000 of bonds outstanding was considered defeased at December 31, 2017. This refinancing and its associated costs were paid by the Authority and will save the Authority approximately \$345,000 over the term of the bond. In addition, the bond refunding resulted in an economic gain on refunding of \$481,576. The excess of the net carrying amount of the refunded bonds over the reacquisition price in the amount of \$330,072 has been deferred and is being amortized over the term of the new bonds using the straight-line method through 2034.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(6) Water Revenue Bonds, Continued

Series 2020 Bonds

In 2020, the Authority issued \$21,920,000 of bonds. The bonds mature in 2050 with a stated interest rate that ranges from 4.0% to 5.0%. The Authority received \$3,576,781 in premiums for this issuance.

Remedies for Default

The Authority covenants that if an Event of Default shall have happened and shall not have been remedied, upon demand of the Trustee, the Authority shall pay over to the Trustee and cause any Construction Fund Custodian to pay over the Trustee (i) forthwith, all moneys, securities and funds then held by any Construction Fund Custodian, and (ii) as promptly as practicable after receipt thereof, all Revenues.

During the continuance of an Event of Default due to payment failure, the Revenues received by the Trustee or by a Bondholders' Committee shall be applied by the Trustee or by the Bondholders' Committee, as the case may be, first to the payment of all necessary and proper Operating expenses of the Water System and all other proper disbursements or liabilities made or incurred by the Trustee or by the Bondholders' Committee, as the case may be; secondly, to the then due and overdue payments into the Bond Fund, including the making up of deficiencies therein; and lastly, for any lawful purpose in connection with the Water System.

Changes in Water Revenue Bonds

At December 31, 2022 and 2021, \$363,405 and \$392,306, respectively, of the deferred amount on refunding was included in deferred outflows of resources on the statements of net position. For the years ended December 31, 2022 and 2021, interest expense was \$7,173,475 and \$7,356,804, respectively, on the water revenue bonds. Cash paid for interest was \$7,255,445 and \$7,423,187, during the years ended December 31, 2022 and 2021, respectively.

Long-term water revenue bond activity for the years ended December 31, 2022 and 2021:

	2022					
	Beginning <u>Balance</u>	<u>Increases</u>	<u>Decreases</u>	Ending <u>Balance</u>	Due Within <u>One Year</u>	Due After <u>One Year</u>
Bonds issued in 2007 as part of refunding that mature in annual amounts ranging from \$610,000 to \$1,115,000 from 2021 to 2036 bearing interest ranging from 4.182% to 4.97%	\$ 12,325,000	-	615,000	11,710,000	625,000	11,085,000
Bonds issued in 2010 Series B as part of refunding that mature in annual amounts ranging from \$2,515,000 to \$5,775,000 from 2021 to 2042 bearing interest ranging from 4.49% to 6.34%	83,295,000	-	2,600,000	80,695,000	2,700,000	77,995,000

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(6) Water Revenue Bonds, Continued

	2022					
	<u>Beginning Balance</u>	<u>Increases</u>	<u>Decreases</u>	<u>Ending Balance</u>	<u>Due Within One Year</u>	<u>Due After One Year</u>
Bonds issued in 2012 that mature in annual amounts ranging from \$205,000 to \$410,000 from 2021 to 2037 bearing interest ranging from 3.0% to 5.0%	\$ 4,860,000	-	215,000	4,645,000	225,000	4,420,000
Bonds issued in 2013 that mature in annual amounts ranging from \$490,000 to \$960,000 from 2021 to 2042 bearing interest ranging from 1.44% to 4.69%	13,715,000	-	500,000	13,215,000	505,000	12,710,000
Bonds issued in 2017 as part of refunding that mature in annual amounts ranging from \$215,000 to \$360,000 from 2021 to 2034 bearing interest ranging from 2.0% to 5.0%	3,735,000	-	220,000	3,515,000	225,000	3,290,000
Bond issued in 2020 mature in annual amounts ranging from \$300,000 to \$220,000 from 2021 to 2050 bearing interest from 4.0% to 5.0%	21,620,000	-	375,000	21,245,000	395,000	20,850,000
Add: Bond premiums	<u>4,574,692</u>	<u>-</u>	<u>206,763</u>	<u>4,367,929</u>	<u>-</u>	<u>4,367,929</u>
Long-term water revenue bond liabilities	<u>\$ 144,124,692</u>	<u>-</u>	<u>4,731,763</u>	<u>139,392,929</u>	<u>4,675,000</u>	<u>134,717,929</u>
	2021					
	<u>Beginning Balance</u>	<u>Increases</u>	<u>Decreases</u>	<u>Ending Balance</u>	<u>Due Within One Year</u>	<u>Due After One Year</u>
Bonds issued in 2007 as part of refunding that mature in annual amounts ranging from \$610,000 to \$1,115,000 from 2021 to 2036 bearing interest ranging from 4.182% to 4.97%	\$ 12,935,000	-	610,000	12,325,000	615,000	11,710,000
Bonds issued in 2010 Series B as part of refunding that mature in annual amounts ranging from \$2,515,000 to \$5,775,000 from 2021 to 2042 bearing interest ranging from 4.49% to 6.34%	85,810,000	-	2,515,000	83,295,000	2,600,000	80,695,000
Bonds issued in 2012 that mature in annual amounts ranging from \$205,000 to \$410,000 from 2021 to 2037 bearing interest ranging from 3.0% to 5.0%	5,065,000	-	205,000	4,860,000	215,000	4,645,000

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(6) Water Revenue Bonds, Continued

	2021					
	Beginning Balance	Increases	Decreases	Ending Balance	Due Within One Year	Due After One Year
Bonds issued in 2013 that mature in annual amounts ranging from \$490,000 to \$960,000 from 2021 to 2042 bearing interest ranging from 1.44% to 4.69%	\$ 14,205,000	-	490,000	13,715,000	500,000	13,215,000
Bonds issued in 2017 as part of refunding that mature in annual amounts ranging from \$215,000 to \$360,000 from 2021 to 2034 bearing interest ranging from 2.0% to 5.0%	3,950,000	-	215,000	3,735,000	220,000	3,515,000
Bond issued in 2020 mature in annual amounts ranging from \$300,000 to \$220,000 from 2021 to 2050 bearing interest from 4.0% to 5.0%	21,920,000	-	300,000	21,620,000	375,000	21,245,000
Add: Bond premiums	4,781,461	-	206,769	4,574,692	-	4,574,692
Long-term water revenue bond liabilities	<u>\$ 148,666,461</u>	<u>-</u>	<u>4,541,769</u>	<u>144,124,692</u>	<u>4,525,000</u>	<u>139,599,692</u>

The following is a schedule of the future minimum payments under the water revenue bonds as of December 31, 2022:

	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2023	\$ 4,675,000	7,224,996	11,899,996
2024	4,840,000	7,009,754	11,849,754
2025	5,035,000	6,752,571	11,787,571
2026	5,235,000	6,491,572	11,726,572
2027	5,440,000	6,210,586	11,650,586
2028 - 2032	30,675,000	26,541,581	57,216,581
2033 - 2037	35,335,000	17,675,619	53,010,619
2038 - 2042	35,215,000	7,977,831	43,192,831
2043 - 2047	5,055,000	1,201,613	6,256,613
2048 - 2050	3,520,000	214,800	3,734,800
	<u>\$ 135,025,000</u>	<u>87,300,923</u>	<u>222,325,923</u>

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(7) Pension Obligations

(a) Plan Descriptions and Benefits Provided

Employees' Retirement System

The Authority participates in the New York State and Local Employee Retirement System (the System). This is a cost-sharing multiple-employer retirement system. The System provides retirement benefits as well as death and disability benefits. The net position of the System is held in the New York State Common Retirement Fund (the Fund), which was established to hold all net position and record changes in plan net position allocated to the System. The Comptroller of the State of New York serves as the trustee of the Fund and is the administrative head of the System. System benefits are established under the provision of the New York State Retirement and Social Security Law (RSSL). Once a public employer elects to participate in the System, the election is irrevocable. The New York State Constitution provides that pension membership is a contractual relationship and plan benefits cannot be diminished or impaired. Benefits can be changed for future members only by enactment of a State statute. The County also participates in the Public Employees Group Life Insurance Plan (GLIP), which provides death benefits in the form of life insurance. The GLIP is included in the State's financial report as a pension trust fund. That report, including information with regard to benefits provided, may be found at www.osc.state.ny.us/retire/publications/index.php or obtained by writing to the New York State and Local Retirement System, 110 State Street, Albany, New York 12244.

The System is noncontributory except for employees who joined after July 27, 1976, who contribute 3.0 percent of their salary for the first ten years of membership, and employees who joined on or after January 1, 2010 who generally contribute 3.0 to 6.0 percent of their salary for their entire length of service. The Comptroller annually certifies the actuarially determined rates expressly used in computing the employers' contributions based on salaries paid during the Systems fiscal year ending March 31.

(b) Pension Asset/Liability, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pension

At December 31, 2022 and 2021, the Authority reported the following asset/(liability) for its proportionate share of the net pension liability for the System. The net pension asset/(liability) was measured as of March 31, 2022 and 2021, respectively. The total pension asset/(liability) used to calculate the net pension asset/(liability) was determined by an actuarial valuation. The Authority's proportionate share of the net pension asset/(liability) was based on a projection of the Authority's long-term share of contributions to the System relative to the projected contributions of all participating members, actuarially determined. This information was provided by the System in reports provided to the Authority.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(7) Pension Obligations, Continued

(b) Pension Asset/Liability, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pension, Continued

	<u>2022</u>	<u>2021</u>
Measurement date	3/31/2022	3/31/2021
Net pension asset (liability)	\$ 4,965,984	(58,190)
Authority's proportion of the System's net pension asset/liability	0.0607491	0.0584392%
Changes in proportionate share from prior year	0.0023099	(0.0032648)

For the years ended December 31, 2022 and 2021, the Authority recognized pension expense of \$240,855 and (\$1,290,184), respectively, for the System in the statements of revenue, expenses and changes in net position. At December 31, 2022 and 2021 the Authority's reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	<u>2022</u>	
	<u>Deferred</u> <u>Outflows of</u> <u>Resources</u>	<u>Deferred</u> <u>Inflows of</u> <u>Resources</u>
Differences between expected and actual experience	\$ 376,081	(487,798)
Changes of assumptions	8,287,671	(139,845)
Net difference between projected and actual investment earnings on pension plan investments	-	(16,261,518)
Changes in proportion and differences between the County's contributions and proportionate share of contributions	313,371	(240,350)
County's contributions subsequent to the measurement date	<u>1,490,006</u>	<u>-</u>
Total	\$ <u>10,467,129</u>	<u>(17,129,511)</u>

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(7) Pension Obligations, Continued

(b) Pension Asset/Liability, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pension, Continued

	2021	
	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 710,660	-
Changes of assumptions	10,699,308	(201,792)
Net difference between projected and actual investment earnings on pension plan investments	-	(16,715,663)
Changes in proportion and differences between the County's contributions and proportionate share of contributions	207,032	(332,044)
County's contributions subsequent to the measurement date	2,058,853	-
Total	\$ 13,675,853	(17,249,499)

County contributions subsequent to the March 31, 2022 measurement date will be recognized as a reduction of the net pension liability in the year ending December 31, 2023. Other amounts reported as deferred outflows of resources related to pension will be recognized in pension expense as follows:

<u>Year ending</u>	
2023	\$ (1,243,364)
2024	(1,811,892)
2025	(4,255,412)
2026	(841,720)
	\$ (8,152,388)

(c) Actuarial Assumptions

The total pension liability as of the measurement date was determined by using an actuarial valuation as noted in the table below, with update procedures used to roll forward the total pension liability to the measurement date. The actuarial valuation used the following actuarial assumptions:

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(7) Pension Obligations, Continued

(c) Actuarial Assumptions, Continued

Measurement date	March 31, 2022
Actuarial valuation date	April 1, 2021
Investment rate of return (net of investment expense, including inflation)	5.9%
Salary scale	4.4%
Inflation rate	2.7%
Cost-of-living adjustments	1.4%

Annuitant mortality rates are based on April 1, 2015 - March 31, 2020 System's experience with adjustments for mortality improvements based on Society of Actuaries' Scale MP-2020.

The actuarial assumptions used in the April 1, 2021 valuation are based on the results of an actuarial experience study for the period April 1, 2015 - March 31, 2020.

The long-term rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target allocation and best estimates of arithmetic real rates of return for each major asset class are summarized as follows.

<u>Asset Class</u>	<u>Target Allocation</u>	<u>Long-Term Expected Real Rate of Return *</u>
Domestic equity	32.00%	3.30%
International equity	15.00%	5.85%
Private equity	10.00%	6.50%
Real estate	9.00%	5.00%
Opportunistic/ARS	3.00%	4.10%
Real assets	3.00%	5.80%
Fixed income	23.00%	0.00%
Credit	4.00%	3.78%
Cash	1.00%	(1.00%)
	<u>100.00%</u>	

*The real rate of return is net of the long-term inflation assumption of 2.5%.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(7) Pension Obligations, Continued

(d) Discount Rate

The discount rate used to calculate the total pension liability was 5.9%. The projection of cash flows used to determine the discount rate assumes that contributions from plan members will be made at the current contribution rates and that contributions from employers will be made at statutorily required rates, actuarially determined. Based upon the assumptions, the System's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore the long term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

(e) Sensitivity of the Proportionate Share of the Net Pension Asset/Liability to the Discount Rate

The following presents the Authority's proportionate share of the net pension asset/(liability) calculated using the discount rate of 5.9%, as well as what the Authority's proportionate share of the net pension asset/(liability) would be if it were calculated using a discount rate that is 1-percentage point lower 4.9% or 1-percentage point higher 6.9% than the current rate:

	1% Decrease <u>4.9%</u>	Current Assumption <u>5.9%</u>	1% Increase <u>6.9%</u>
Employer's proportionate share of the net pension asset (liability)	\$(<u>12,782,389</u>)	<u>4,965,984</u>	<u>19,811,643</u>

(f) Pension Plan Fiduciary Net Position

The components of the current-year net pension liability of all participating employers as of the respective measurement dates, were as follows:

	(Dollars in Millions)
Measurement date	3/31/2022
Employers' total pension liability	\$ (223,875)
Plan fiduciary net position	<u>232,050</u>
Employers' net pension asset	\$ <u>8,175</u>
Ratio of plan fiduciary net position to the Employers' total pension asset	103.65%

(g) Contributions to the Pension Plan

Employer contributions are paid annually based on the System's fiscal year which ends on March 31st. Retirement contributions as of December 31, 2022 and 2021 represent the projected employer contribution for the period of April 1, 2021 through March 21, 2022 and through April 1, 2020 through March 31, 2021, respectively, based on paid employee wages multiplied by the employer's contribution rate, by tier. Retirement contributions paid to the System for the years ended December 31, 2022 and 2021 was \$2,176,291 and \$2,669,138, respectively.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(8) Other Postemployment Benefits

(a) Plan Description and Benefits

The Authority provides certain health care benefits for retired employees. The Authority administers the Retirement Benefits Plan (the Retirement Plan) as a single-employer defined benefit Other Postemployment Benefit Plan (OPEB). In general, the Authority provides health care benefits for those retired personnel who are eligible for a pension through the System. The Retirement Plan can be amended by action of the Authority subject to applicable collective bargaining and employment agreements.

The obligations of the Retirement Plan are established by action of the Authority pursuant to applicable collective bargaining and employment agreements. The required premium contribution rates of retirees range from 0% to 10%, depending on when the employee was hired. The Authority will pay its portion of the premium for the retiree and spouse for the lifetime of the retiree. The costs of administering the Retirement Plan are paid by the Authority. The Authority currently contributes enough money to the Retirement Plan to satisfy current obligations on a pay-as-you-go basis to cover annual premiums.

(b) Employees Covered by Benefit Terms

At December 31, 2022 and 2021, the following employees were covered by the benefit terms:

	<u>2022</u>	<u>2021</u>
Retired participants	151	151
Active participants	<u>171</u>	<u>171</u>
Total participants	<u>322</u>	<u>322</u>

(c) Total OPEB Liability

The Authority's total OPEB liability of \$57,301,338 and \$81,136,468 was measured as of December 31, 2022 and 2021 and was determined by an actuarial valuation as of January 1, 2021.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(8) Other Postemployment Benefits, Continued

(d) Actuarial Methods and Other Inputs

The total OPEB liability in the January 1, 2021 actuarial valuation was determined using the following actuarial assumptions and other inputs, applied to all periods included in the measurement, unless otherwise specified:

Inflation	4.24%
Discount Rate	3.65% The discount rate was based on the index provided by Bond Buyer 20-Bond General Obligation based on the 20 year AA municipal bond rate as of December 1, 2022.
Cost Method	Entry Age Normal (Percent of Salary)
Healthcare Cost Trend Rates	7.50% for 2023, decreasing to an ultimate rate of 4.24% for 2089 and later years
Employer Funding Policy	Pay-as-you-go cash basis
Census Data	As of January 1, 2021
Mortality	Retired and Active Pub-2010 General Headcount Weighted Mortality Table fully generational using Scale MP-2021.

(e) Changes in the Total OPEB Liability

	<u>2022</u>	<u>2021</u>
Total OPEB liability at beginning of year	\$ <u>81,136,468</u>	<u>55,538,466</u>
Changes for the year:		
Service cost	1,929,305	3,073,473
Interest	1,991,682	1,648,145
Differences between expected and actual experience	-	11,489,334
Changes of assumptions	(25,383,557)	11,312,724
Benefit payments	<u>(2,372,560)</u>	<u>(1,925,674)</u>
Total changes	<u>(23,835,130)</u>	<u>25,598,002</u>
Total OPEB liability at of end of year	\$ <u>57,301,338</u>	<u>81,136,468</u>

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(8) Other Postemployment Benefits, Continued

(f) Sensitivity of the Total OPEB Liability to Changes in the Discount Rate

The following presents the total OPEB liability of the Authority, as well as what the Authority's total OPEB liability would be if it were calculated using a discount rate that is 1 percentage point lower or 1 percentage point higher than the current discount rate:

	2022		
	1%	Current	1%
	<u>Decrease</u>	<u>Discount</u>	<u>Increase</u>
		<u>Rate</u>	
Total OPEB liability	\$ (64,247,880)	(57,301,338)	(51,493,134)

	2021		
	1%	Current	1%
	<u>Decrease</u>	<u>Discount</u>	<u>Increase</u>
		<u>Rate</u>	
Total OPEB liability	\$ (93,498,710)	(81,136,468)	(70,320,622)

(g) Sensitivity of the Total OPEB Liability to Changes in the Healthcare Cost Trend Rates

The following presents the total OPEB liability of the Authority, as well as what the Authority's total OPEB liability would be if it were calculated using healthcare cost trend rates that are 1 percentage point lower or 1 percentage point higher than the current healthcare cost trend rate:

	2022		
	1%	Current	1%
	<u>Decrease</u>	<u>Trend</u>	<u>Increase</u>
		<u>Rate</u>	
Total OPEB liability	\$ (49,299,265)	(57,301,338)	(67,352,822)

	2021		
	1%	Current	1%
	<u>Decrease</u>	<u>Trend</u>	<u>Increase</u>
		<u>Rate</u>	
Total OPEB liability	\$ (67,813,426)	(81,136,468)	(97,339,621)

(h) OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB

For the years ended December 31, 2022 and 2021, the Authority recognized OPEB expense of \$(1,133,902) and \$7,338,570, respectively. At December 31, 2022, the Authority reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(8) Other Postemployment Benefits, Continued

(h) OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources
Related to OPEB, Continued

	2022	
	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 8,138,739	(4,758,638)
Changes in assumptions	<u>11,361,503</u>	<u>(21,914,495)</u>
Total	<u>\$ 19,500,242</u>	<u>(26,673,133)</u>
	2021	
	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 10,277,602	(6,762,674)
Changes in assumptions	<u>14,453,702</u>	<u>(2,440,293)</u>
Total	<u>\$ 24,731,304</u>	<u>(9,202,967)</u>

Amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB will be recognized in OPEB expense as follows:

<u>Year ending</u>	
2023	\$ (2,682,329)
2024	(2,682,331)
2025	(1,727,351)
2026	<u>(80,880)</u>
	<u>\$ (7,172,891)</u>

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(9) Commitments and Contingencies

(a) Commitments

The Authority has entered into agreements with various water districts, towns and villages whereby the Authority obtains the use of the water facilities and agrees to provide water services to the residents of such districts. A number of these agreements require payments to be made by the Authority equal to the interest and principal due each year on the districts' outstanding debt related to the leased facilities. These agreements are classified as operating leases in the accompanying financial statements and recorded as a component of operating expenses. Any improvements to these facilities are capitalized by the Authority.

The Authority has an "Amended and Restated Water Development and Supply Agreement" with Genesee County to finance, construct, own, operate and supply water service in and for that County of Genesee. Genesee County is continuing to develop and increase the amount of water supplied by the Authority to and within Genesee County in multiple phases.

The first Phase of the project involved the construction of approximately thirty-five miles of water mains financed with the proceeds of the 2001 Series Water Revenue Bonds and capital grants from state and federal agencies (see further disclosure in note 6). Expenditures of \$24,061,115 were incurred for this project since Phase I was completed in 2004.

Phase II includes the construction of new transmission mains, new pump stations, and improvement to an existing pump station in Monroe County with a goal of providing approximately an additional 2.0 million gallons of water per day to Genesee County.

Phase II is currently in construction and a 2023 service date is anticipated.

The next phases of the project are currently in planning and design.

The Authority has entered into an agreement in 2010 whereby Monroe County is to provide certain public security and safety services to the Authority through December 31, 2026.

Amounts that are due under this agreement are summarized as follows for the years ended December 31:

2023	\$ 829,847
2024	829,847
2025	829,847
2026	<u>829,847</u>
	\$ <u>3,319,388</u>

The Authority expensed \$829,847 under this agreement during each of the years ended December 31, 2022 and 2021.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(9) Commitments and Contingencies, Continued

(a) Commitments, Continued

The Authority has entered into a water exchange agreement with the City. A stipulation of the agreement required the City to replace its Rush Reservoir with covered storage of water. The Authority is required to pay for 54% of the costs of the project, not to exceed a total project cost of \$9,000,000. The Authority's maximum commitment is \$4,860,000 over 20 years.

Amounts that are due under this agreement are summarized as follows for the years ended December 31:

2023	\$ 243,000
2024	243,000
2025	243,000
2026	243,000
2027	243,000
2028 - 2032	<u>1,215,000</u>
	<u>\$ 2,430,000</u>

The Authority expensed \$243,000 under this agreement during each of the years ended December 31, 2022 and 2021.

(b) Contingencies

The Authority is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees; life and health of employees; and natural disasters. The Authority has various insurance policies with third-party carriers related to property protection, casualty and statutory and non-statutory employee protection.

The Authority is subject to litigation in the ordinary conduct of its affairs. Management does not believe, however, that such litigation, individually or in the aggregate, is likely to have a material adverse effect on the financial condition of the Authority.

(10) Self-Insured Workers' Compensation

The Authority is self-insured for workers' compensation claims. The Authority transfers its risk of loss through the purchase of commercial insurance for workers' compensation benefits up to a maximum aggregate amount of \$5,000,000 per occurrence, subject to a deductible of \$500,000 per occurrence. Claim expenses and liabilities are reported when it is probable that a loss has occurred and the amount of that loss can be reasonably estimated. At December 31, 2022 and 2021, there were no liabilities recorded for workers' compensation claims.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of
the County of Monroe, New York)

Notes to Financial Statements, Continued

(11) Related Party Transactions

The Authority has a contract with the County to supply the Authority with power and natural gas. The contract states that the Authority will purchase power and gas from the County at market value, plus a 0.6% service fee each year through August 31, 2025. For the years ended December 31, 2022 and 2021, the Authority paid \$5,325,293 and \$3,912,301, respectively, to the County under the terms of this agreement.

(12) Subsequent Events

The Authority has evaluated subsequent events through the date of the report which is the date the financial statements were available to be issued.

(13) Accounting Standards Issued But Not Yet Implemented

GASB has issued the following pronouncements which will be implemented in the years required. The effects of the implementation of these pronouncements are not known at this time.

Statement No. 94 - Public-Private and Public-Public Partnerships and Availability Payment Arrangements. Effective for fiscal years beginning after June 15, 2022.

Statement No. 96 - Subscription-Based Information Technology Arrangements. Effective for fiscal years beginning after June 15, 2022.

Statement No. 99 - Omnibus 2022. Effective for various periods through fiscal years beginning after June 15, 2023.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of the County of Monroe, New York)
Required Supplementary Information
Schedule of Changes in the Authority's
Total OPEB Liability and Related Ratios
December 31, 2022

Total OPEB liability	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>
Service cost	\$ 1,929,305	3,073,473	1,474,068	1,866,827	2,047,877
Interest	1,991,682	1,648,145	1,957,629	1,918,395	2,277,994
Changes of benefit terms	-	-	-	-	421,956
Differences between expected and actual experience	-	11,489,334	1,081,653	(5,253,944)	(8,774,311)
Changes of assumptions	(25,383,557)	11,312,724	5,879,065	(4,270,515)	2,086,463
Benefit payments	<u>(2,372,560)</u>	<u>(1,925,674)</u>	<u>(2,001,367)</u>	<u>(2,010,623)</u>	<u>(1,798,585)</u>
Net change in total OPEB liability	(23,835,130)	25,598,002	8,391,048	(7,749,860)	(3,738,606)
Total OPEB liability - beginning	<u>81,136,468</u>	<u>55,538,466</u>	<u>47,147,418</u>	<u>54,894,278</u>	<u>58,632,884</u>
Total OPEB liability - ending	<u>\$ 57,301,338</u>	<u>81,136,468</u>	<u>55,538,466</u>	<u>47,144,418</u>	<u>54,894,278</u>
Covered payroll	\$ 13,695,633	13,296,731	14,641,528	17,097,419	16,478,853
Total OPEB liability as a percentage of covered payroll	407.09%	589.17%	379.32%	275.80%	333.10%

Notes to schedule:

Changes of assumptions - Changes of assumptions and other inputs reflect the effects of changes in the discount rate each period. The following are the discount rates used in each actuarial valuation:

<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>
3.65%	2.13%	3.26%	4.11%	3.44%

This schedule is presented to illustrate the requirement to show information for 10 years. However, until a full 10-year trend is compiled, the Authority presents information for those years for which information is available.

There are no assets accumulated in a trust meets the criteria in GASB Statement No. 75, paragraph 4.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of the County of Monroe, New York)
Required Supplementary Information
Schedule of the Authority's Proportionate Share of the Net Pension Liability
December 31, 2022

NYSERS Pension Plan								
	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>
Authority's proportion of the net pension asset/liability	0.0607491%	0.0584392%	0.0617040%	0.0577902%	0.0583864%	0.0580000%	0.0600000%	0.0010000%
Authority's proportionate share of the net pension asset/(liability)	\$ 4,965,984	(58,190)	(16,339,575)	(4,094,611)	(1,884,391)	(5,420,629)	(9,693,114)	(2,021,835)
Authority's covered payroll	\$ 17,178,050	17,023,526	16,860,861	16,617,975	14,993,931	14,584,555	14,651,331	14,724,692
Authority's proportionate share of the net pension asset/liability as a percentage of its covered payroll	28.91%	0.34%	96.91%	24.64%	12.57%	37.17%	66.16%	13.73%
Plan fiduciary net position as a percentage of the total pension asset/liability	103.65%	99.95%	86.39%	96.27%	98.29%	94.70%	90.70%	97.95%

* This schedule is presented to illustrate the requirement to show information for 10 years. However, until a full 10-year trend is complied, the Authority presents information for those years for which information is available.

MONROE COUNTY WATER AUTHORITY
(A Discretely Presented Component Unit of the County of Monroe, New York)
Required Supplementary Information
Schedule of the Authority's Pension Contributions
December 31, 2022

	NYSERS Pension Plan							
	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>
Contractually required contribution	\$ 2,176,291	2,669,138	2,431,247	2,238,932	2,251,223	2,216,347	2,628,166	2,975,247
Contributions in relation to the contractually required contribution	<u>2,176,291</u>	<u>2,669,138</u>	<u>2,431,247</u>	<u>2,238,932</u>	<u>2,251,223</u>	<u>2,216,347</u>	<u>2,628,166</u>	<u>2,975,247</u>
Contribution deficiency (excess)	<u>\$ -</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Authority's covered payroll	\$ 17,178,050	17,023,526	16,860,861	16,617,975	14,993,931	14,584,555	14,651,331	14,724,692
Contributions as a percentage of covered payroll	12.67%	15.68%	14.42%	13.47%	15.01%	15.20%	17.94%	20.21%

* This schedule is presented to illustrate the requirement to show information for 10 years. However, until a full 10-year trend is complied, the Authority presents information for those years for which information is available.

INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER
FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS
BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED
IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS

The Board of Directors
Monroe County Water Authority

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards issued by the Comptroller General of the United States, the financial statements of the Monroe County Water Authority (the Authority), a discretely presented component unit of the County of Monroe, New York, as of and for the year ended December 31, 2022, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements, and have issued our report thereon dated March 16, 2023.

Report on Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the Authority's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, we do not express an opinion on the effectiveness of the Authority's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements, on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the Authority's financial statements will not be prevented, or detected and corrected, on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or, significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses or significant deficiencies may exist that were not identified.

Report on Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Authority's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under Government Auditing Standards.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Authority's internal control or on compliance. This report is an integral part of an audit performed in accordance with Government Auditing Standards in considering the Authority's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

EFPR Group, CPAs, PLLC

Williamsville, New York
March 16, 2023

INDEPENDENT ACCOUNTANTS' REPORT

The Board of Directors
Monroe County Water Authority

We have examined the Monroe County Water Authority's (the Authority), a discretely presented component unit of the County of Monroe, New York, compliance with Section 201.3 of Title Two of the Official Compilation of Codes Rules and Regulations of the State of New York related to investments (investment guidelines) for the year ended December 31, 2022. The Authority's management is responsible for the Authority's compliance with the specified requirements. Our responsibility is to express an opinion on the Authority's compliance with the specified requirements based on our examination.

Our examination was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform the examination to obtain reasonable assurance about whether the Authority complied with specified requirements, in all material respects. An examination involves performing procedures to obtain evidence about whether the Authority complied with the specified requirements. The nature, timing, and extent of the procedures selected depend on our judgment, including an assessment of the risks of material misstatement, whether due to fraud or error. We believe that the evidence we obtained is sufficient and appropriate to provide a reasonable basis for our opinion.

We are required to be independent and meet our ethical responsibilities in accordance with relevant ethical requirements relating to the engagement.

In our opinion, the Authority complied, in all material respects, with the investment guidelines for the year ended December 31, 2022.

EFPR Group, CPAs, PLLC

Williamsville, New York
March 16, 2023

REAL PROPERTY DISPOSALS FOR 2022

The Monroe County Water Authority, as of the date of this report submission, does not intend to dispose of any real property having an estimated fair market value in excess of \$15,000. Additionally, the Authority did not dispose of any real property having a fair market value in excess of \$15,000 during calendar year 2022.



Monroe County Water Authority

Yearly Property Report

For January 1, 2022 through December 31, 2022

YEARLY PROPERTY REPORT

In accordance with Monroe County Water Authority Disposal Guidelines, re-adopted in October 2022, following is a yearly property report for MCWA property sold from January 2022 through December 2022.

DESCRIPTION OF ITEM SOLD	PRICE PAID FOR ITEM SOLD	PURCHASER
2014 Caterpillar Backhoe 420F	\$ 38,791	Globalsoft Equipment 837 Buffalo Road Rochester, NY 14624
2014 Caterpillar Backhoe 420F	\$ 38,091	Globalsoft Equipment 837 Buffalo Road Rochester, NY 14624
2013 Ford F150XL	\$ 6,250	Conesus Automotive 6206 South Livonia Rd Conesus, NY 14435

**Monroe County Water Authority Property Listing
Updated March 2023**

Pump Stations Owned	Building (Fire)	Equipment (B&M)	Combined Value
Allens Creek BPS	\$ 45,600	\$ 73,075	\$ 118,675
Buffalo Road BPS	\$ 112,500	\$ 116,900	\$ 229,400
Churchville BPS	\$ 951,900	\$ 951,900	\$ 1,903,800
Crosstown BPS / Mt. Read BPS	\$ 2,438,800	\$ 4,470,800	\$ 6,909,600
Darien BPS	\$ 677,000	\$ 406,200	\$ 1,083,200
Denise BPS	\$ 2,303,100	\$ 974,100	\$ 3,277,200
East Henrietta BPS	\$ 981,000	\$ 506,500	\$ 1,487,500
East Main BPS	\$ 723,100	\$ 389,700	\$ 1,112,800
Echo Street BPS	\$ 634,000	\$ 2,402,000	\$ 3,036,000
Edgemere LLPS No. 1	\$ 5,705,200	\$ 3,331,200	\$ 9,036,400
Edgemere LLPS No. 2	\$ 2,948,600	\$ 1,577,900	\$ 4,526,500
Golden Road BPS	\$ 1,500,000	\$ 2,500,000	\$ 4,000,000
Harek Road BPS	\$ 812,400	\$ 541,600	\$ 1,354,000
Harris Road BPS	\$ 533,200	\$ 116,900	\$ 650,100
Industrial Street BPS	\$ 723,100	\$ 341,000	\$ 1,064,100
Kreag Road BPS	\$ 911,200	\$ 535,800	\$ 1,447,000
Lake Road BPS	\$ 451,300	\$ 135,400	\$ 586,700
Lee Road BPS	\$ 3,000,900	\$ 4,256,500	\$ 7,257,400
Mendon BPS	\$ 622,300	\$ 194,900	\$ 817,200
Morgan Road BPS	\$ 586,700	\$ 316,000	\$ 902,700
Moseley Road BPS	\$ 792,900	\$ 243,600	\$ 1,036,500
Mumford BPS	\$ 1,269,100	\$ 1,057,600	\$ 2,326,700
North Road BPS	\$ 992,900	\$ 541,600	\$ 1,534,500
Ontario Street BPS	\$ 109,100	\$ 116,400	\$ 225,500
Pembroke BPS	\$ 722,100	\$ 451,300	\$ 1,173,400
Ramona (Ridge) BPS	\$ 480,800	\$ 350,700	\$ 831,500
Riga BPS	\$ 946,000	\$ 210,400	\$ 1,156,400
Scottsville BPS	\$ 680,900	\$ 109,400	\$ 790,300
Scribner BPS	\$ 847,200	\$ 638,200	\$ 1,485,400
South St Road BPS	\$ 451,300	\$ 135,400	\$ 586,700
Twin Hills BPS	\$ 902,600	\$ 541,600	\$ 1,444,200
Webster LWPS	\$ 15,125,700	\$ 9,075,500	\$ 24,201,200
Wisconsin St. BPS	\$ 355,100	\$ 71,100	\$ 426,200
Woodcliff BPS	\$ 364,500	\$ 152,000	\$ 516,500
		\$	88,535,275

Pump Stations Leased			
Barchan Dune BPS	\$ 149,000	\$ 298,000	\$ 447,000
Beahan BPS	\$ 1,083,200	\$ 631,900	\$ 1,715,100
East Lake Road BPS	\$ 32,800	\$ 65,600	\$ 98,400
Factory Hollow BPS	\$ 279,700	\$ 75,700	\$ 355,400
Fishers Road BPS	\$ 567,700	\$ 189,300	\$ 757,000
Grand View Dr BPS No. 2	\$ 32,800	\$ 65,600	\$ 98,400
LaSalle Parkway BPS	\$ 605,600	\$ 302,800	\$ 908,400
Pavilion BPS	\$ 677,000	\$ 406,200	\$ 1,083,200
Pinewood Hill BPS	\$ 32,800	\$ 65,600	\$ 98,400
Shetler Road BPS	\$ 223,500	\$ 271,000	\$ 494,500
Victor Egypt BPS	\$ 567,700	\$ 189,300	\$ 757,000
Victor Holcomb BPS	\$ 567,700	\$ 189,300	\$ 757,000
Walker Road BPS	\$ 1,263,700	\$ 541,600	\$ 1,805,300
West Lake BPS	\$ 32,800	\$ 65,600	\$ 98,400
York Road BPS	\$ 180,600	\$ 90,300	\$ 270,900
		\$	9,744,400

Water Storage Facilities Owned	Value
Betteridge Road Tank	\$ 3,610,400
Brockport Tank	\$ 4,133,900
Buffalo Road Tank	\$ 2,707,800
Denise Reservoir	\$ 11,973,600
Douglas Road Tank	\$ 1,135,900
East View Tank	\$ 2,707,800
Garbutt Tank	\$ 1,060,200
Harek Road Tank	\$ 9,026,000
Lee Road Tank #1	\$ 3,794,000
Lee Road Tank #2	\$ 3,794,000
Loud Road Tank	\$ 3,159,100
Mendon Reservoir	\$ 2,707,800
Middle Road Tank	\$ 1,230,600
Moseley Road Tank	\$ 3,549,600
Ogden Tank	\$ 530,100
Pembroke Tank	\$ 1,138,200
Riga Tank	\$ 615,300
Shoremont (Backwash)	\$ 681,600
Temperance Hill Tanks (2)	\$ 7,672,100
Thayer Road Tank	\$ 1,185,100
Union Street Tank	\$ 3,159,100
Widger Road Tank	\$ 1,173,400
Willard Road Tank	\$ 2,061,900
	\$ 72,807,500

Water Storage Facilities Leased	Value
Alleyn's Rise Tank	\$ 812,400
Baker Hill Tank	\$ 757,000
Boughton Hill Tank	\$ 757,000
Canfield Road Tank	\$ 541,600
Chestnut Ridge Tank	\$ 2,166,300
Churchville Tank	\$ 1,314,300
Cobblestone Tank	\$ 439,100
Corfu Tank	\$ 652,500
Darien Tank	\$ 531,200
East Lake Road Tank	\$ 923,100
Elmgrove Tank	\$ 1,355,500
Gloria Drive Tank	\$ 757,300
Harris Hill Tank	\$ 940,900
High Street Tank	\$ 580,800
Hilton Tank	\$ 778,100
Keith Terrace Tank	\$ 615,300
Mumford Tank	\$ 384,400
North Avenue Tank	\$ 1,540,100
Pavilion Tank	\$ 406,200
South Avenue Tank	\$ 1,764,200
Spencerport Tank	\$ 631,900
State Road Tank	\$ 2,646,300
Walker Road Tank	\$ 402,300
West Bloomfield Tank	\$ 468,800
West Brighton Tank	\$ 461,900
West Lake Road Tank	\$ 325,500
West Main Street Tank	\$ 815,600
West Webster Tank	\$ 1,223,400
White Road Tank	\$ 367,600
York Road Tank	\$ 1,374,900
	\$ 26,735,500

Water Treatment Plants Owned	Building(Fire)	Equipment (B&M)	Combined Value
Brockport WTP	\$ 1,848,300	\$ 123,300	\$ 1,971,600
Shoremont WTP	\$ 150,117,400	\$ 46,203,000	\$ 196,320,400
Webster WTP	\$ 61,746,800	\$ 19,112,100	\$ 80,858,900
			\$ 279,150,900

Water Treatment Plants Leased	Building (Fire)	Equipment (B&M)	Combined Value
Corfu WTP	\$ 2,707,800	\$ 902,600	\$ 3,610,400
Central Processing Facility	\$ 4,766,400	\$ 3,272,100	\$ 8,038,500
			\$ 11,648,900

Operation Centers Owned	Building(Fire)	Equipment (B&M)	Combined Value
179 Norris Drive Meter Shop	\$ 192,200	\$ 1,254,200	\$ 1,446,400
195 Norris Drive Office	\$ 381,800	\$ 26,500	\$ 408,300
205 Norris Drive Storage	\$ 182,400	\$ -	\$ 182,400
East Side Operations Center	\$ 7,754,300	\$ 1,948,100	\$ 9,702,400
East Side Ops Center - Maintenance Bldg	\$ 233,700	\$ 93,500	\$ 327,200
West Side Operations Center	\$ 1,163,200	\$ 194,900	\$ 1,358,100
			\$ 13,424,800

Other Lands or Facilities Owned

Pipeline Property - Clearview Dr
Pipeline Property - Off Latta Road
Pipeline Property - 454 Trabold Rd
Pipeline Property - El-Mar Dr.
Pipeline Property - Kartes Dr.
Pipeline Property - Churchill Dr.
Pipeline Property - Shorecliff Dr.
Beach Ave WTP Intake land
Former Water Property - Allen St.
Fedex Way Future tank site
Fourth Section Road Former BPS
Future Tank Site
General Offices lower parking lot (Hillside Ave)
Lake Road Wetland
Lee Road Future Tank Site
Morgan Road Mobile Pump Connection site
Gallup Road Mobile Pump Connection site
Penfield Reservoir (Future)
Abandoned Pipeline Property
Proposed pipe line
St. Paul PRV Building
SWTP Power corridor
SWTP transformer site
Pipeline property Trabold Rd

Other Lands or Facilities Leased

Briggs St PRV Building
Broadway Rd BPS
Five Mile Line Rd (former BPS and tank)
Route 20A PRV



MONROE COUNTY WATER AUTHORITY

P.O. Box 10999 • 475 Norris Drive • Rochester, N.Y. 14610-0999

Phone: (585) 442-2000 Fax (585) 442-0220

CERTIFICATION

I certify that the purchase of Allen-Bradley Programmable Controllers; Amazon Web Services; Analytical Technology, Inc Online Amperometric Chlorine Residual Monitoring Equipment; Blue-Chek Pump Packing; Foxboro Pressure Transmitters; Frontier Virtual Private Network for SCADA Communications; General Electric Industrial Communications MDS; Hach Turbidimeters, Chlorine Meters, Colorimeters; Hydro Instrument Vacuum Regulators; IDEXX Colilert Products; Neptune Small and Large Water Meters; and Rotork Electric Actuators without competitive bidding were reviewed and complied with the Monroe County Water Authority's Procurement Guidelines regarding standardization of certain products.

Nicholas Noce

3/22/23

Nicholas Noce

Date

Executive Director



MEMORANDUM

TO: Nicholas A. Noce

FROM: Chris J. LaManna, P.E. ^{chl}

SUBJECT: Standardization Review: Allen-Bradley® Programmable Logic Controllers

DATE: December 7, 2021

C.C: D.Driffill, E.Young

The Authority's Board of Directors approved standardization on Allen-Bradley® programmable logic controllers (PLCs) in October 2014 through Resolution No. 14-188. Allen-Bradley® is a brand of Rockwell Automation. This standardization is subsequently reviewed at least every three years in accordance with the Authority's Purchasing and Procurement Guidelines, and most recently on February 28, 2019. The analysis conducted by Production and Transmission (P&T) Department staff for review and confirmation of this standardization is outlined below.

Allen-Bradley® PLCs and ancillary equipment including circuit boards, power supplies, I/O cards, cabling, displays, and similar items, were uniformly incorporated into the Authority's supervisory control and data acquisition (SCADA) control system that was designed and built in the late 1990s. P&T staff reviewed and confirmed that Allen-Bradley® PLCs and ancillary equipment remain the most efficient and economical system currently available for the Authority for the following reasons:

- **Economical:** The P&T Department maintains a significant spare parts inventory including circuit boards, power supplies, and other ancillary items, for Allen-Bradley® PLC systems. The Authority also owns software licenses required to program this system. Purchasing a different programmable system would require the Authority to purchase a new inventory of spare parts along with new software licenses.
- **Design and Construction:** The standardization on a single manufacturer allows for quick and easy replacement of failed equipment and compatibility with the Authority's existing SCADA system design. The Webster Water Treatment Plant and Lake Water Pump Station were both constructed with the next generation of Allen-Bradley® PLCs.
- **Uniformity:** Consistent layouts, wiring, and control logic software for the Authority's programmable controller systems simplifies programming, operation, troubleshooting, maintenance, and understanding of these systems.
- **Employee Training:** The Authority has invested a considerable amount of time training staff in the Allen-Bradley® system. The selection of competitive products would require

additional training for P&T Department staff, who would have to be fully knowledgeable on additional sets of programming, operation, troubleshooting, and maintenance procedures and protocols. System downtime is minimized, and reliability subsequently maximized, due to the maintenance staff's training and familiarity with one brand of PLCs by being standardized on Allen-Bradley®.

- **Resources:** Allen-Bradley® PLCs have a large presence in the Rochester and North American market, which creates a significant and competitive pool of trained technical and engineering resources available to assist us.



MEMORANDUM

TO: Nicholas A. Noce

FROM: Richard Metzger, P.E. *RM*

SUBJECT: Standardization Update: Allen-Bradley Programmable Controllers

DATE: February 28, 2019

cc: C LaManna, D Drifill

The following documents the analysis by staff for confirmation for the standardization on Allen-Bradley Programmable Controllers. Allen-Bradley is a brand of Rockwell Automation.

Allen Bradley controllers and ancillary equipment (power supplies, I/O cards, cabling and displays) were uniformly incorporated into our SCADA control system that was designed and built in the late 1990's. Since then, MCWA has standardized on Allen-Bradley programmable controllers and this standardization was approved by the Board in October 2014 (Resolution 14-188) and was last reviewed on February 27, 2017.

Staff has determined that Allen-Bradley programmable controllers and ancillary equipment are still the most efficient and economical system currently available for the Water Authority for the following reasons:

- *Economical:* We currently have a significant spare parts inventory (circuit boards, power supplies, etc.) for the Allen-Bradley programmable controller system. We also own the software licenses required to program this system. Purchasing a different programmable system would require us to purchase a new inventory of spare parts along with new software licenses.
- *Design and Construction:* The standardization on a single manufacturer allows for quick and easy replacement of failed equipment and compatibility with our existing SCADA design. The Webster Water Treatment Plant and the Lake Water Pump Station were both constructed with the next generation of Allen-Bradley programmable controllers.
- *Uniformity:* Consistent layout, wiring and control logic software for our programmable controller systems simplifies the troubleshooting and understanding of these systems.

- ***Employee Training:*** We have invested a considerable amount of time training staff in the Allen-Bradley system. A second programmable controller system would be more difficult to troubleshoot and repair, negatively impacting reliability. Repair time is minimized due to the maintenance staff's familiarity with one brand of instrument. The selection of competitive products would require additional training and knowledge for the operations, maintenance and laboratory staff.
- ***Resources:*** Allen-Bradley programmable logic controllers have a large presence in the Rochester and North American market and this creates a significant and competitive pool of trained technical and engineering resources available to assist us.



MEMORANDUM

TO: Nicholas A. Noce
FROM: Richard Metzger, P.E. *RM*
SUBJECT: Standardization: Allen-Bradley Programmable Controllers
DATE: February 27, 2017
cc: G Hanley, D. Drifill

The following documents the analysis by staff for confirmation for the standardization on Allen-Bradley Programmable Controllers. Allen-Bradley is a brand of Rockwell Automation.

Allen Bradley controllers and ancillary equipment (power supplies, I/O cards, cabling and displays) were uniformly incorporated into our SCADA control system that was designed and built in the late 1990's. Since then, MCWA has standardized on Allen-Bradley programmable controllers and this standardization was last approved by the Board in October 2014 (Resolutions 14-188).

Staff has determined that Allen-Bradley programmable controllers and ancillary equipment are still the most efficient and economical system currently available for the Water Authority for the following reasons:

- **Economical:** We currently have a significant spare parts inventory (circuit boards, power supplies, etc.) for the Allen-Bradley programmable controller system. We also own the software licenses required to program this system. Purchasing a different programmable system would require us to purchase a new inventory of spare parts along with new software licenses.
- **Design and Construction:** The standardization on a single manufacturer allows for quick and easy replacement of failed equipment and compatibility with our existing SCADA design. The Webster Water Treatment Plant and the Lake Water Pump Station were both constructed with the next generation of Allen-Bradley programmable controllers.
- **Uniformity:** Consistent layout, wiring and control logic software for our programmable controller systems simplifies the troubleshooting and understanding of these systems.

- **Employee Training:** We have invested a considerable amount of time training staff in the Allen-Bradley system. A second programmable controller system would be more difficult to troubleshoot and repair, negatively impacting reliability. Repair time is minimized due to the maintenance staff's familiarity with one brand of instrument. The selection of competitive products would require additional training and knowledge for the operations, maintenance and laboratory staff.
- **Resources:** Allen-Bradley programmable logic controllers have a large presence in the Rochester and North American market and this creates a significant and competitive pool of trained technical and engineering resources available to assist us.

The regional sole source vendor for Allen-Bradley equipment is Horizon Solutions (letter and Rockwell Automation/ Allen-Brady website confirmation attached).

MONROE COUNTY WATER AUTHORITY
REGULAR MEETING - November 13, 2014

Moved By W. Bleier-Mervis
Seconded By A. Bernstein
Vote Passed Unanimously

For Items #14-185, #14-186 and #14-187 Mr. Nove reported these items are to amend three prior resolutions in order to reflect corrections to the NYS OGS Contract numbers listed in those prior resolutions.
#14-185 Amend resolution #12-160 (ref. 8912) authorizing the purchase of various software licenses including Microsoft Office 2010 & Windows 7 from Dell Marketing LP under NYS OGS contract to reflect correction of the NYS OGS contract number as P165196

Moved By S. Nasca
Seconded By L. Maggulli
Vote Passed Unanimously

#14-186 Amend resolution #13-215 (ref. 121213) authorizing the purchase of various Microsoft licenses from Dell under NYS OGS contract to reflect correction of the NYS OGS contract number as PS66134

Moved By L. Maggulli
Seconded By S. Nasca
Vote Passed Unanimously

#14-187 Amend resolution #14-082 (ref. 41114) authorizing the purchase of various Microsoft licenses from Dell under NYS OGS contract to reflect correction of the NYS OGS contract number as PS66134

Moved By W. Bleier-Mervis
Seconded By A. Bernstein
Vote Passed Unanimously

In discussion of Item #14-188, Mr. King addressed the Board for renewal of this standardization. He provided information on staff's continued determination that Allen Bradley programmable controllers are still the most efficient and economical system currently available for MCWA and referenced the memorandum from Mr. Metzger on the detailed analysis the Board had received for their prior review.
#14-188

WHEREAS, since the Monroe County Water Authority's (the "Authority") SCADA control system design selected, in the late 1990's, Allen Bradley programmable controllers for the purpose of monitoring and controlling our treatment plant processes and operations at remote pump stations and storage facilities, and

WHEREAS, the Authority has studied whether it should standardize the source of programmable logic controllers in order to maintain the efficiency of and compatibility within the Authority's SCADA system; and

WHEREAS, the Electrical and Instrumentation staff has developed standard layout wiring and control logic software of our programmable controller systems to simplify trouble-shooting these devices and the systems they control, and

WHEREAS, the Authority currently has a significant inventory of spare parts, including circuit boards and power supplies, for the existing Allen Bradley programmable controller systems, and

WHEREAS, purchasing a new programmable system would require the Authority to purchase a new inventory of spare parts along with new software licenses and requisite training, and

WHEREAS, the Authority owns the software licenses required to program Allen Bradley programmable controllers, and

WHEREAS, the Authority's Purchasing and Procurement Guidelines has Appropriate Circumstances for Standardization of Goods and Services under which several provisions would be satisfied, and



Monroe County Water Authority

Memorandum

To: Nicholas Noce
From: Larry Magguilli *LM*
Subject: Standardization – Amazon Web Services

Date: 09/23/2020
File:
Copies:

Amazon Web Services (AWS) was initially selected several years ago by our Information Technology Department to host a testing environment for the development of software. Since then, AWS has been utilized as the platform to host both the former and newly revised MCWA website and customer portal.

Information Technology (IT) staff have determined that Amazon Web Services is the best venue for this purpose and would like to request standardization on AWS for the reasons outlined below:

- Compatibility: Our current website, customer portal and associated programs are all designed specifically and uniquely for AWS. Conversion to another provider would result in significant time and expense in the re-writing of programs.
- Design & Construction: The website and customer portal were designed and constructed specifically to operate on AWS, and IT employees have been trained and certified by AWS for its use.

/ka

**MONROE COUNTY WATER AUTHORITY
REGULAR MEETING – October 8, 2020**

For Item #20-182, Mr. Magguilli addressed the Board on this item in addition to their having received his memorandum in advance of the meeting detailing justification for Standardization on Amazon Web Services (AWS), which we have utilized in the hosting of our website and customer portal. Information Technology staff have been trained and certified by AWS for its use and determined that the AWS platform is the best venue for this purpose. He also noted that our current website, customer portal, and associated programs are all designed specifically and uniquely for AWS, and conversion to another provider would create a hardship in the significant time and expense of re-writing of programs. He answered a follow-up question posed by a Board Member.

#20-182 WHEREAS, the Monroe County Water Authority has utilized **Amazon Web Services (AWS)** for the past several years in **hosting the former and newly-revised MCWA website and customer portal**; and

WHEREAS, our current website, customer portal, and associated programs are all designed specifically and uniquely for AWS, and conversion to another provider would result in significant time and expense in the re-writing of programs; and

WHEREAS, Information Technology staff have been trained and certified by AWS for its use and have determined that AWS is the best venue for this purpose; and

WHEREAS, the Authority's *Purchasing and Procurement Guidelines* has Appropriate Circumstances for **Standardization of Goods and Services** under which such a provision would be satisfied.

NOW, THEREFORE BE IT RESOLVED that:

In order to provide for the most efficient and economic hosting of the MCWA website and customer portal as outlined above, Amazon Web Services will be the platform utilized for this purpose.

FURTHER RESOLVED, that the Members and Staff of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name to do all acts and things required or as may be necessary, or in the opinion of the Officer so acting, desirable and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.

On a motion made by Ms. Bleier-Mervis, seconded by Mr. Rulison, the foregoing resolution #20-182 was put to a roll call vote and unanimously carried. AYES: 7 (S. Nasca, S. Volpe, M. Fero, R. Hurlbut, A. Bernstein, W. Bleier-Mervis, J. Rulison); NAYS: 0

For Item #20-183, Mr. Trotta briefed the Board for authorization the as-needed use of Monroe County Contract for sprinkler inspection, testing and maintenance, in an estimated annual amount of \$40,000 and for the term ending 10/31/2021 with the option to extend for up to four additional one-year periods in accordance with the terms of the Monroe County Contract. We have used this vendor in the past, and they have performed well.

#20-183 Authorize the as-needed use of Monroe County Contract No. 0911-18 (4700007496) for **Sprinkler Inspection, Testing and Maintenance** (currently awarded to **Davis-Ulmer Sprinkler Company**) through the initial contract period ending 10/31/2021, with the option to extend for up to four additional one-year periods in accordance with the terms of the Monroe County Contract, for an estimated annual amount of \$40,000.

On a motion made by Mr. Rulison, seconded by Mr. Bernstein, the foregoing resolution #20-183 was put to a roll call vote and unanimously carried. AYES: 7 (S. Nasca, S. Volpe, M. Fero, R. Hurlbut, A. Bernstein, W. Bleier-Mervis, J. Rulison); NAYS: 0



MEMORANDUM

To: Nicholas A. Noce
From: Chris J. LaManna, P.E. *ck*
Subject: Standardization: Analytical Technology Inc. Chlorine Residual Monitors
Date: November 29, 2022
c.c: D.Driffill, E.Young

Real time continuous monitoring of chlorine residual is a critical component for process monitoring and control to maintain acceptable water quality in the Authority's treatment, transmission, and distribution system. Chlorine provides disinfection during the treatment process and in the transmission and distribution systems.

Continuous, reliable, real time monitoring of the chlorine residual concentration provides critical information for the treatment plant and system operators to make adjustments to maintain the desired range for regulatory compliance. For many years, the Authority has utilized online amperometric chlorine residual monitoring equipment manufactured by Analytical Technology, Inc. (ATI) for this purpose. The preferred use of ATI equipment is based on the Production and Transmission (P&T) Department staff's extensive operation and maintenance experience with their equipment compared to other manufacturers' equipment previously utilized in the Authority's system. ATI, a brand of Badger Meter®, is a leading global provider of analytical monitoring equipment for the water, wastewater, food, petrochemical, and other industries. Their North American headquarters is located in Collegeville, Pennsylvania. Ritec Enterprises, Inc., located in Rochester, New York, is the sole authorized distributor of ATI equipment in New York State.

The P&T Department staff determined that ATI online amperometric chlorine residual monitoring equipment is the most cost efficient, durable, and reliable equipment currently available for use in the Authority's water treatment, transmission, and distribution systems. We request standardization on ATI equipment for the reasons outlined below. This standardization is for permanently installed, online amperometric chlorine residual monitoring equipment, parts, and ancillary components. It does not include portable chlorine residual measurement equipment.

- **Compatibility:** The Authority utilizes ATI online amperometric chlorine residual monitoring equipment exclusively throughout the treatment, transmission, and distribution systems for process monitoring and control. The use of different manufacturers' equipment would require modifications to process, electrical, and/or control systems.
- **Uniformity:** Approximately 73 online amperometric chlorine residual monitors are currently in operation at the Shoremont, Webster, and Corfu Water Treatment Plants; and numerous booster pumping stations, storage facilities, and other distribution system facilities. All of the chlorine residual monitoring equipment is manufactured by ATI. This uniformity maximizes equipment operation and maintenance efficiency. It also provides a high level of reliability and consistency for the chlorine residual data since a single manufacturer and style of monitoring equipment generate them.

- **Design and Construction:** Standardizing on a single manufacturer facilitates repair and replacement of failed equipment and compatibility with the Authority's process instrumentation and control systems. Standardizing will also ensure that this preferred manufacturer is utilized in the new booster pumping stations and other facilities that will be constructed as part of the Phase 2 and Phase 3 expansions of service to Genesee County.
- **Inventory:** The P&T Department Maintenance staff maintains an inventory of spare chlorine residual monitors and parts to facilitate operation and maintenance activities. Incorporating chlorine residual monitoring equipment from other manufacturers into the treatment, transmission, and distribution systems will require the Authority maintain a larger inventory of spare chlorine residual monitors and parts.
- **Trained Employees:** The P&T Department Maintenance staff are extensively familiar with the installation, calibration, operation, and maintenance of ATI chlorine residual monitoring equipment. This minimizes the time required for maintenance and calibration of the monitoring equipment. Installing equipment from other manufacturers will require training in the installation, configuration, and operation procedures specific to the other manufacturers' equipment. Maintenance staff would also have to become familiar with new maintenance procedures and requirements.
- **Economical:** P&T Department staff determined that ATI chlorine residual monitoring equipment is significantly less expensive than comparable equipment from other manufacturers. Based on a recent cost comparison, the cost of ATI chlorine residual monitoring equipment ranged from approximately 45-percent to 70-percent less than two other comparable manufacturers.

On a motion made by Mr. Rulison, seconded by Mrs. Van Vechten, the foregoing resolution #22-227 was put to a roll call vote and unanimously carried. AYES: 7 (S. Nasca, S. Volpe, M. Fero, S. Mason, A. Bernstein, M. Van Vechten, J. Rulison) NAYS: 0

#22-228 Authorize a Blanket Purchase Order for the purchase of **various electrical materials and equipment** for maintenance and repair of the Authority's equipment and facilities, to be ordered as needed from **Graybar Electrical Supply** for an estimated total cost up to \$50,000 for the term January 1 through December 31, 2023.

On a motion made by Mr. Bernstein, seconded by Mrs. Mason, the foregoing resolution #22-228 was put to a roll call vote and unanimously carried. AYES: 7 (S. Nasca, S. Volpe, M. Fero, S. Mason, A. Bernstein, M. Van Vechten, J. Rulison) NAYS: 0

For Item #22-229, Mr. LaManna addressed the Board for authorization in standardizing Analytical Technology, Inc. (ATI) online amperometric chlorine residual monitoring equipment for use at the Authority's treatment plants, booster pumping stations, storage tanks, reservoirs, and other system facilities. Mr. LaManna explained the importance of this equipment in providing real-time chlorine residual monitoring data to system operators. He noted the Authority currently has 73 online amperometric chlorine residual monitors in operation at its water treatment plants. Mr. LaManna concluded that standardization of these units is the most cost-efficient, durable and reliable solution.

#22-229 WHEREAS, the Monroe County Water Authority (the "Authority") has studied whether it should now standardize on Analytical Technology, Inc. (ATI) online amperometric chlorine residual monitoring equipment in order to maintain the efficiency, compatibility, and reliability of real time continuous monitoring of the chlorine residual in the Authority's treatment process, transmission, and distribution systems primarily located at the Authority's Shoremont, Webster, and Corfu Water Treatment Plants; and at booster pumping stations, storage tanks, reservoirs, and other distribution system facilities, and

WHEREAS, the Production and Transmission Department staff has found this equipment to be significantly more robust, durable, reliable, and cost effective than other manufacturers' equipment, and

WHEREAS, the Authority currently has other compatible equipment that will result in smaller parts inventory, and

WHEREAS, the operations and maintenance staff are trained in the installation, configuration, calibration, operation, and maintenance of this equipment, and

WHEREAS, upon the recommendation of the Authority's Production and Transmission Department, the Authority has determined that ATI online amperometric chlorine residual monitoring equipment is the most efficient and economic equipment currently available for the Authority's treatment process, transmission, and distribution systems.

NOW, THEREFORE, BE IT RESOLVED that:

1. In order to provide for the most efficient and economic source of online amperometric chlorine residual monitoring equipment and for the reasons stated above, all purchases or procurements by the Authority of online amperometric chlorine residual monitoring equipment, specifically for use in the Authority's treatment process, transmission, and distribution systems, and any ancillary equipment must be ATI.
2. The Members and staff of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name to do all acts and things required or as may be necessary, or in the opinion of the officer so acting, desirable and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.

On a motion made by Mr. Bernstein, seconded by Mrs. Volpe, the foregoing resolution #22-229 was put to a roll call vote and unanimously carried. AYES: 7 (S. Nasca, S. Volpe, M. Fero, S. Mason, A. Bernstein, M. Van Vechten, J. Rulison) NAYS: 0

For Item #22-230, Mr. Savage sought Board authorization to enter into a professional services agreement with real estate appraisal firm GAR Associates, LLC. Mr. Savage outlined the RFQ results and noted this firm has the appropriate qualifications to perform these services for the Authority.

#22-230 Authorize the Executive Director to execute a Professional Service Agreement for **Real Estate Appraisals with GAR Associates LLC** for a term of one year, with the ability to extend up to four additional one year terms upon mutual written consent.

On a motion made by Mrs. Van Vechten, seconded by Mrs. Mason, the foregoing resolution #22-230 was put to a roll call vote and unanimously carried. AYES: 7 (S. Nasca, S. Volpe, M. Fero, S. Mason, A. Bernstein, M. Van Vechten, J. Rulison) NAYS: 0

For Item #22-231, Mr. Savage briefed the Board for authorization in awarding a contract for annual geotechnical investigation and material testing services. He summarized the contract, stating it involves testing and other groundwork prior to water main repair work on design projects throughout the Authority's service area. Mr. Savage stated the Authority has successfully worked with this vendor in the past.

#22-231 Authorize the award of a unit price contract for the **2023 Annual Geotechnical Investigation and Material Testing Services Contract** to the low, responsive responsible bidder, **CME Associates, Inc.** for the bid amount of \$261,961 which may be renewed for two subsequent one-year terms at the mutual, written consent of the Authority and the contractor.

On a motion made by Mr. Rulison, seconded by Mr. Fero, the foregoing resolution #22-231 was put to a roll call vote and unanimously carried. AYES: 7 (S. Nasca, S. Volpe, M. Fero, S. Mason, A. Bernstein, M. Van Vechten, J. Rulison) NAYS: 0

For Items #22-232 and #22-233, Mr. Magguilli requested authorization from the Board to enter into professional service agreements for legal services for the Authority. Mr. Magguilli re-capped the RFQ results and noted these law firms are qualified to advise and represent the Authority on legal services, as needed.

#22-232 WHEREAS, The Monroe County Water Authority (the "Authority") desires to retain qualified and competent attorneys to advise and represent the Authority on corporate, litigation, state and federal regulatory matters and other legal services as needed: and
WHEREAS, The "Authority" solicited Requests for Qualifications ("RFQ") from numerous firms regarding legal services on October 11, 2022.
WHEREAS, four firms responded to the RFQ; and
WHEREAS, and Evaluation Committee comprised of various Authority personnel reviewed all proposals and determined that Harter Secrest & Emery LLC (the "Vendor") offers the best qualifications and capabilities to perform the Services.

NOW, THEREFORE BE IT RESOLVED:

RESOLVED, that the Executive Director of the Authority is hereby authorized to enter into a Professional Services Agreement for corporate, litigation, state and federal regulatory matters and other legal services as needed with Harter Secrest & Emery LLC, with principal offices at 1600 Bausch & Lomb Place, Rochester, NY 14604-2711, all in accordance with their proposal dated October 21, 2022.



MEMORANDUM

TO: Nicholas A. Noce

FROM: Chris J. LaManna, P.E. *CL*

SUBJECT: Standardization Review: Blue-cheK® Pump Packing

DATE: December 7, 2021

C.C: D.Driffill, S.Keller

The Authority's Board of Directors approved standardization on Blue-cheK® pump packing in September 2017 through Resolution No. 17-189. Blue-cheK® is a brand of Calkins Technical Products, Inc. located in Rochester, NY. This standardization is subsequently reviewed at least every three years in accordance with the Authority's Purchasing and Procurement Guidelines, and most recently on February 28, 2019. The analysis conducted by Production and Transmission (P&T) Department staff for review and confirmation of this standardization is outlined below.

The annual amount of pump packing purchases is approximately \$5,000. P&T Department staff reviewed and confirmed that Blue-cheK® C8600 style pump packing is the most durable and wear resistant pump packing currently available to the Authority for the following reasons:

- **Design and Construction:** Pump packing is very important to the operation and sealing the shaft of a pump. Blue-cheK® packing is a rugged and proven pump packing that performs well in extreme conditions. The reliability has been outstanding.
- **Compatibility:** The standardization on a single manufacturer allows the Authority to purchase one type of pump packing, which eliminates compatibility issues and any delay in repair caused by trying to determine which packing brand goes in which pump. Blue-cheK® C8600 is used as the pump packing at the Shoremont and Webster Water Treatment Plants, and at many remote booster pump stations.
- **Less Maintenance:** P&T Department staff have observed typically less shaft sleeve wear on pumps using Blue-cheK® packing, which reduces maintenance time and cost. This increases reliability and decreases pump down time as there can be typically long lead times associated with sleeve or shaft replacement.
- **Inventory:** The P&T Department maintains at least ten pounds of pump packing of the most common sizes. Having multiple brands would require the P&T Department to maintain a much larger inventory of pump packing. Maintaining a detailed inventory of

which pumps have which brand of packing would also be required (see compatibility above).

- **Uniformity:** Selection of competitive products may yield different results (e.g., less durable products), which can lead to increased maintenance, longer lead times on worn parts particularly shaft sleeves, and decreased system reliability.



MEMORANDUM

TO: Nicholas A. Noce
FROM: Richard Metzger, P.E. *RM*
SUBJECT: Standardization Update: Blue-check Pump Packing
DATE: February 28, 2019
cc: C LaManna, D Drifill

The following documents the analysis by staff for the standardization of Blue-chek style pump packing. Blue-chek is a brand of Calkins Technical Products. The annual amount of pump packing purchases is approximately \$5,000. In September 2017, the Board approved standardizing on Blue-chek style pump packing (#17-189).

Staff has determined that Blue-chek C8600 style pump packing is the most durable and wear resistant pump packing currently available to MCWA for the following reasons:

- **Design and Construction:** Pump packing is very important to the operation and sealing the shaft of a pump. This is a rugged and proven pump packing that performs well in extreme conditions. The reliability has been outstanding with the Blue-chek pump packing.
- **Compatibility:** The standardization on a single manufacturer allows for the MCWA to purchase one type of pump packing; when replacing the packing there will be no compatibility issues of what packing brand goes in what pump. Blue-chek C8600 is used as the pump packing at both the Shoremont, Webster Water Treatment Plants, and at many remote booster pump stations.
- **Less Maintenance:** With the past use of Blue-chek packing there has been less maintenance on pumps. The pumps see less shaft sleeve wear and tear. With the pump sleeves not showing premature wear there is no extended pump down time as there is a long lead times for sleeve or shaft replacement.
- **Inventory:** The MCWA maintains at least ten pounds of pump packing of the most common sizes. Having multiple brands would require the MCWA to maintain a larger inventory of pump packing. Also there will need to be an inventory of which pumps have what brand of packing. (See compatibility above)

- ***Uniformity:*** Selection of competitive products, may yield different results which can lead to more maintenance, longer lead times on worn parts particularly shaft sleeves, and less durable products.



Memorandum

To: Nicholas A. Noce
From: Richard J. Metzger, P.E. *ROM*
Subject: Standardization - Blue-chek C8600 Style Pump Packing
Date: August 18, 2017
CC: Steven Keller, Michael Mahns

The following documents the analysis by staff for the standardization of Blue-chek style pump packing. Blue-chek is a brand of Calkins Technical Products. The annual amount of pump packing purchases is approximately \$5,000. Staff has determined that Blue-chek C8600 style pump packing is the most durable and wear resistant pump packing currently available to MCWA for the following reasons:

- **Design and Construction:** Pump packing is very important to the operation and sealing the shaft of a pump. This is a rugged and proven pump packing that performs well in extreme conditions. The reliability has been outstanding with the Blue-chek pump packing.
- **Compatibility:** The standardization on a single manufacturer allows for the MCWA to purchase one type of pump packing; when replacing the packing there will be no compatibility issues of what packing brand goes in what pump. Blue-chek C8600 is used as the pump packing at both the Shoremont, Webster Water Treatment Plants, and at many remote booster pump stations.
- **Less Maintenance:** With the past use of Blue-chek packing there has been less maintenance on pumps. The pumps see less shaft sleeve wear and tear. With the pump sleeves not showing premature wear there is no extended pump down time as there is a long lead times for sleeve or shaft replacement.
- **Inventory:** The MCWA maintains at least ten pounds of pump packing of the most common sizes. Having multiple brands would require the MCWA to maintain a larger inventory of pump packing. Also there will need to be an inventory of which pumps have what brand of packing. (See compatibility above)
- **Uniformity:** Selection of competitive products, may yield different results which can lead to more maintenance, longer lead times on worn parts particularly shaft sleeves, and less durable products.

The sole source vendor and manufacturer for Blue-chek packing material is Calkins Technical Products (letter attached).

MONROE COUNTY WATER AUTHORITY
REGULAR MEETING September 14, 2017

In discussion of Item #17-189, Mr. Metzger further briefed the members on this item in addition to their having received his memorandum in advance of this meeting in detailing justification for the Standardization for Blue-check pump packing. He indicated that Blue-check is a brand of Calkins Technical Products and the annual amount of pump packing purchases is approximately \$5,000.

WHEREAS, the Authority has over 100 process pumps that require pump packing #17-189

in our treatment plants and distribution system; and

WHEREAS, the Authority has studied whether it should now standardize the pump packing material in order to achieve improved efficiency, inventory cost control and parts compatibility within the Authority's pumps; and

WHEREAS, the Authority's staff has used the Blue-check pump packing which has significantly reduced shaft sleeve wear; and

WHEREAS, the Authority's Purchasing and Procurement Guidelines has Appropriate Circumstances for Standardization of Goods and Services under which several provisions would be satisfied; and

NOW, THEREFORE, BE IT RESOLVED that:

1. In order to provide for the purchase or procurement of approved products for pump packing material the Authority hereby establishes the Standardization of Blue-check pump packing.
2. The Officers of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name to do all acts and things required or as may be necessary, or in the opinion of the officer so acting, desirable and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.

On a motion made by Mr. Rulison, seconded by Mr. Bernstein, and duly put to a vote on roll call, the foregoing resolution #17-189 unanimously carried. AYES: 6 (Maggulli, Volpe, Nasca, Bernstein, Bleier-Mervis, Rulison); NAYS: 0.

#17-190 The Members of the Authority expressly make the following determinations for all awards of Procurement Contracts made during this meeting: (i) the proposed awardee has been found to be responsible; (ii) the proposed awardee complied with the State Finance Law provisions regarding Permissible Contracts (as defined in the Authority's Procurement Disclosure Policy); (iii) the proposed awardee has (or will prior to the final award being effective) complied with the State Finance Law provisions that require disclosure of all information required to be in the Authority's Solicitation Materials (as such term is defined in the Authority's Procurement Disclosure Policy); and (iv) the procurement process did not involve conduct that is prohibited by the Public Officers Law, the Authority's Procurement Disclosure Policy, and the Authority's Code of Ethics and Conflict of Interest Policies.

On a motion made by Mr. Rulison, seconded by Mr. Bernstein, and duly put to a vote on roll call, the foregoing resolution #17-190 unanimously carried. AYES: 6 (Maggulli, Volpe, Nasca, Bernstein, Bleier-Mervis, Rulison); NAYS: 0.

For Item #17-191, Mr. Noce explained that the purpose of this resolution is in updating the Standard Work Day and Reporting in compliance with requirements by the NYS Office of State Comptroller, applicable to Authority Board Members who participate in the NYS Retirement System. It is being updated at this time as the Members were recently reappointed.

#17-191 **BE IT RESOLVED**, that the Monroe County Water Authority (the "Authority") hereby establishes the following as its standard work day for Members of the Authority, effective October 1, 2017, and will report the following days worked to the New York State and Local Employees' Retirement System based on the record of activities maintained and submitted by these officials to the Secretary of this body:



MEMORANDUM

TO: Nicholas A. Noce

FROM: Chris J. LaManna, P.E. ^{CU}

SUBJECT: Standardization Review: Foxboro Pressure Transmitters

DATE: December 7, 2021

C.C: D.Driffill, E.Young

The Authority's Board of Directors approved standardization on Foxboro Pressure Transmitters in February 2013. Foxboro is a brand of Schneider Electric. This standardization is subsequently reviewed at least every three years in accordance with the Authority's Purchasing and Procurement Guidelines, and most recently on February 28, 2019. The analysis conducted by Production and Transmission (P&T) Department staff for review and confirmation of this standardization is outlined below.

Foxboro Pressure Transmitters have been incorporated into the Authority's monitoring and control systems for decades. P&T Department staff determined that Foxboro Pressure Transmitters are the most efficient and economic pressure transmitter currently available for the Authority for the following reasons:

- **Design and Construction:** Remote pressure monitoring is one of the most important parameters used for control of the Authority's system. The standardization on a single brand of pressure transmitter allows for a quick and easy replacement of a failed unit since the wiring and piping connections would use an identical transmitter. Foxboro pressure transmitters are rugged and proven instruments that perform well in all types of challenging environments, especially in the Authority's underground valve and tank vaults. Reliability has been outstanding with the Foxboro pressure transmitters.
- **Compatibility:** Foxboro pressure transmitters have become the standard for pressure transmitters at both the Shoremont and Webster Treatment Plants; and at remote booster pumping stations, storage tanks, and distribution system control valve vaults. Foxboro pressure transmitters are used for pump suction and discharge pressure monitoring at our Treatment Plants and booster pumping stations; and tank level monitoring and system pressure in our distribution system.
- **Economical:** Foxboro pressure transmitters are cost competitive with other manufacturers based on an informal cost comparison. Additionally, the amount of money spent each year to replace existing units that have failed or have become obsolete is relatively minimal, less than \$15,000 per year. Installation at a new pump station

typically costs less than \$2,000 to remotely monitor the suction and discharge pressures. A new storage tank typically costs less than \$1,000 to remotely monitor the tank level. When used for flow-rate applications the cost is typically less than \$2,000.

- **Inventory:** The P&T Department maintains at least one spare transmitter for each of our three gauge pressure ranges and two transmitters for our differential pressure ranges. Adding a second brand of pressure transmitters will require the Authority to maintain a larger inventory of spare pressure transmitters.
- **Trained Employees:** The Instrumentation Maintenance staff is trained in the installation, configuration and calibration of Foxboro pressure transmitters, which includes the specific software used to calibrate and configure these units. Installing a different transmitter will require training in the configuration and calibration procedures required for the new transmitter. Mean time to repair is minimized due to staff knowledge of the operation and maintenance for transmitter.



MEMORANDUM

TO: Nicholas A. Noce
FROM: Richard Metzger, P.E. *RM*
SUBJECT: Standardization Update: Foxboro Pressure Transmitters
DATE: February 28, 2019
cc: C LaManna, D Driffl

Foxboro Pressure Transmitters have been incorporated into our monitoring and control systems for decades. MCWA has previously standardized on Foxboro Pressure Transmitters and this standardization was approved by the Board in December 2013 and last reviewed on November 30, 2016.

Staff has determined that Foxboro Pressure Transmitters are the most efficient and economic pressure transmitter currently available for the Monroe County Water Authority (MCWA) for the following reasons:

- **Design and Construction:** Pressure Monitoring is one of our most important control parameters. The standardization on a single brand of pressure transmitter allows for a quick and easy replacement of a failed unit due to the fact that the wiring and process piping connections would use an identical transmitter. This is a rugged and proven pressure transmitter that performs well in our rough environments, especially in our underground valve and tank vaults. Reliability has been outstanding with the Foxboro pressure transmitters.
- **Compatibility:** Foxboro pressure transmitters have become the standard for pressure transmitters at both the Shoremont and Webster Treatment Plants, at remote pump stations, and storage tanks. Foxboro Pressure Transmitters are used for suction and discharge pressure monitoring at our booster pump stations and tank level monitoring in our distribution system.
- **Economical:** Staff recently updated an informal cost comparison on pressure transmitters using Foxboro and others vendors such as Rosemount, Siemens and Endress & Hauser. We found the quotes of Foxboro to be lower than its competitors in most cases. Additionally, the amount of money spent each year to replace existing units that have failed or have become obsolete is minimal, under \$15,000 per year. Installation at a new pump station costs approximately \$1,600 to monitor the suction and discharge pressures. A new storage tank approximately \$800 to monitor the tank level. When used for flow-rate applications the cost is about \$1,600.

- ***Inventory:*** The Shoremont Instrumentation Group maintains at least one spare transmitter for each of our three gauge pressure ranges and two transmitters for our differential pressure ranges. Adding a second brand of pressure transmitters will require additional the Authority to maintain a larger inventory of spare pressure transmitters.
- ***Trained Employees:*** The Instrumentation Maintenance staff is trained in the installation, configuration and calibration of Foxboro pressure transmitters, which includes the specific software used to calibrate and configure these units. Installing a different transmitter will require training in the configuration and calibration procedures required for the new transmitter. Mean time to repair is minimized due to staff understanding this transmitter.



MEMORANDUM

TO: Nicholas A. Noce
FROM: Richard Metzger, P.E.
SUBJECT: Standardization – Foxboro Pressure Transmitters
DATE: November 30, 2016

Foxboro Pressure Transmitters have been incorporated into our monitoring and control systems for decades. MCWA has previously standardized on Foxboro Pressure Transmitters and this standardization was last approved by the Board in December 2013.

Staff has determined that Foxboro Pressure Transmitters are the most efficient and economic pressure transmitter currently available for the Monroe County Water Authority (MCWA) for the following reasons:

- ***Design and Construction:*** Pressure Monitoring is one of our most important control parameters. The standardization on a single brand of pressure transmitter allows for a quick and easy replacement of a failed unit due to the fact that the wiring and process piping connections would use an identical transmitter. This is a rugged and proven pressure transmitter that performs well in our rough environments, especially in our underground valve and tank vaults. Reliability has been outstanding with the Foxboro pressure transmitters.
- ***Compatibility:*** Foxboro pressure transmitters have become the standard for pressure transmitters at both the Shoremont and Webster Treatment Plants, at remote pump stations, and storage tanks. Foxboro Pressure Transmitters are used for suction and discharge pressure monitoring at our booster pump stations and tank level monitoring in our distribution system.
- ***Economical:*** Staff recently updated an informal cost comparison on pressure transmitters using Foxboro and others vendors such as Rosemount, Siemens and Endress & Hauser. We found the quotes of Foxboro to be lower than its competitors in most cases. Additionally, the amount of money spent each year to replace existing units that have failed or have become obsolete is minimal, under \$15,000 per year. Installation at a new pump station costs approximately \$1,600 to monitor the suction and discharge pressures. A new storage tank approximately \$800 to monitor the tank level. When used for flow-rate applications the cost is about \$1,600.

- ***Inventory:*** The Shoremont Instrumentation Group maintains at least one spare transmitter for each of our three gauge pressure ranges and two transmitters for our differential pressure ranges. Adding a second brand of pressure transmitters will require additional the Authority to maintain a larger inventory of spare pressure transmitters.
- ***Trained Employees:*** The Instrumentation Maintenance staff is trained in the installation, configuration and calibration of Foxboro pressure transmitters, which includes the specific software used to calibrate and configure these units. Installing a different transmitter will require training in the configuration and calibration procedures required for the new transmitter. Mean time to repair is minimized due to staff understanding this transmitter.

**MONROE COUNTY WATER AUTHORITY
REGULAR MEETING – December 12, 2013**

In discussion of Item #13-220, Mr. Metzger addressed the Members for authorization to standardize on Foxboro pressure transmitters, referencing his detailed memorandum documenting the analysis by staff in recommendation of this standardization which was provided to the Board for their prior review.

#13-220 WHEREAS, the Monroe County Water Authority (the "Authority") has conducted an internal analysis of whether to standardize its supply of pressure transmitters to those made by the Foxboro Company ("Foxboro"); and

WHEREAS, the Authority based its review on whether standardizing would ensure efficiency, compatibility and reliability in monitoring pressures at its treatment plants and throughout its entire water distribution system; and

WHEREAS, the Authority's Production and Transmission Department has determined that Foxboro makes the most efficient and economic pressure transmitters currently available; and

WHEREAS, the benefits of Foxboro products include (i) the Authority has a significant inventory of spare Foxboro pressure transmitters, (ii) the Authority's Electrical and Instrumentation staff members have extensive training in the installation, configuration and calibration of Foxboro pressure transmitters and (iii) in order to minimize problems with pressure transmitters and the systems they control, the Authority has developed a standard system for layout, wiring and control of pressure transmitters that is based on the Foxboro product line.

NOW, THEREFORE, BE IT RESOLVED that:

1. In order to provide for the most efficient and economic source of pressure transmitters and for the reasons stated above, the Authority hereby requires that all its purchases or procurements of pressure transmitters and ancillary equipment be made using Foxboro products.
2. The Officers of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name to do all acts and things required or as may be necessary, or in the opinion of the officer so acting, desirable and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.

Moved By: W. Bleier-Mervis

Seconded By: J. Rulison

Vote: Passed Unanimously



MEMORANDUM

TO: Nicholas A. Noce
FROM: Chris J. LaManna, P.E. ^{CSL}
SUBJECT: Standardization Review: Frontier Virtual Private Network
DATE: January 21, 2022
C.C: D.Driffill, E.Young

The Authority's Board of Directors approved standardization on the Frontier Communications Corp. Virtual Private Network (VPN) services for our supervisory control and data acquisition (SCADA) network communications in November 2018 through Resolution No. 18-242. This standardization is reviewed at least every three years in accordance with the Authority's Purchasing and Procurement Guidelines, and most recently on February 28, 2019. The analysis conducted by Production and Transmission (P&T) Department staff for review and confirmation of this standardization is outlined below.

Staff reviewed and confirmed that Frontier's VPN services continue to provide the most reliable and cost-effective solution for our SCADA network communications needs for the following reasons:

- **Compatibility:** Frontier's VPN network has been the only VPN used for SCADA communications at the Authority's Shoremont, Webster, and Corfu Water Treatment Plants and is used for the SCADA network controlling many booster pumping stations and storage tank sites covering a large geographical area. Reliable SCADA VPN communications is essential to the successful operations of the Authority's water supply system. We currently have 37 sites communicating on the Frontier SCADA VPN network, with the ability to add new sites as it becomes necessary.
- **Design and Construction:** The standardization on a single source of SCADA VPN communications allows the Authority to maintain the system and respond to problems quickly and efficiently to restore communications. Reliability of the Frontier VPN network continues to be outstanding with near 100% uptime.
- **Economical:** The Authority performed a cost comparison several years ago on SCADA VPN networks, in support of the initial standardization in November 2018. Costs from vendors including Earthlink, Time Warner and a few others that have since exited the business were assessed with the results being approximately within 10% of each other. These services were last bid in April 2019, with no bids received from any other vendors.

Additionally, Frontier has maintained essentially the same pricing since their original contract in 2014.

- **Trained Employees:** The SCADA Maintenance staff are trained and fully understand installation, configuration and troubleshooting of the Frontier SCADA VPN network and equipment. This minimizes the time required to resolve issues and restore vital communications.
- **Uniformity:** The Authority's three treatment plants and 34 booster pumping stations and storage tank sites are currently communicating on the Frontier SCADA VPN network, which is essential to the Production and Transmission Department operations.
- **Local Service:** Although the Authority has only utilized VPN for SCADA communications since 2014, Frontier and its predecessor companies have provided communication services to the Authority to meet our SCADA/system communications needs for more than 50 years. The availability of Frontier's local service technicians provides the ability for a timely response to equipment issues and outages.



MEMORANDUM

TO: Nicholas A. Noce
FROM: Richard Metzger, P.E. *RM*
SUBJECT: Standardization Update: Frontier Virtual Private Network
DATE: February 28, 2019
cc: C LaManna, D Drifill

The following documents the analysis by staff for the standardization on Frontier Communications of Rochester, Inc.'s (Frontier) Virtual Private Network (VPN) for SCADA communications. In November 2018, the Board approved standardizing on Frontier's VPN (#18-242).

Staff has conducted a thorough, extensive review and determined that Frontier's VPN services provides the most reliable and cost-effective solution for our SCADA communications needs for the following reasons:

- **Compatibility:** Frontier's VPN network has been the only VPN used for SCADA communications at Shoremont, Webster, and Corfu Water Treatment plants and is used for our entire SCADA network controlling most booster pump stations and tank sites covering a large geographical area. Reliable SCADA VPN communications is essential to the successful operations of the supply system. We currently have 40 sites communicating on the Frontier SCADA VPN network, with the ability to add new sites as it becomes necessary.
- **Design and Construction:** The standardization on a single source of SCADA VPN communications allows MCWA to maintain the systems and respond to problems with a quick response to communications problems and resolve problems and restore communications rapidly. Reliability has been outstanding with the Frontier VPN network with almost 100% uptime.
- **Economical:** MCWA did perform a cost comparison several years ago on SCADA VPN networks using others vendors such as Earthlink, Time Warner and a few others that have exited the business with the results being +/- 10% of each other. During the prior bid for these services, the second bidder, Windstream, was a higher cost and no other providers submitted a bid.
- **Trained Employees:** The SCADA Maintenance staff are trained in the installation, configuration and troubleshooting of the Frontier SCADA VPN network and equipment. Mean time to restore vital communications is minimized due to staff thoroughly understanding the Frontier SCADA VPN network.
- **Uniformity:** We currently have three Treatment Plants and 37 other sites communicating on the Frontier SCADA VPN network, which is essential to the Production and Transmission Department operations.

- **Local Service:** While MCWA has only used a VPN for SCADA communications since 2014, for over 50 year prior, Frontier and its predecessor companies has been the communications provider that has meet our SCADA communications needs. During emergencies, the fact that Frontier still has local service technicians available means we are best able to deal with outages and equipment issues in a timely manner.



Monroe County Water Authority

Memorandum

To: Nicolas A. Noce
From: Richard J. Metzger, P.E. *RJM*
Subject: Standardization – VPN Services for SCADA

Date: October 23, 2018
File: Purchasing
Copies: C. LaManna
D. Driffl

The following documents the analysis by staff for the standardization on Frontier Communications of Rochester, Inc.'s (Frontier) Virtual Private Network (VPN) for SCADA communications. The next planned purchase of this service will be in early 2019.

Staff has conducted a thorough, extensive review and determined that Frontier's VPN services provides the most reliable and cost-effective solution for our SCADA communications needs for the following reasons:

- **Compatibility:** Frontier's VPN network has been the only VPN used for SCADA communications at Shoremont, Webster, and Corfu Water Treatment plants and is used for our entire SCADA network controlling most booster pump stations and tank sites covering a large geographical area. Reliable SCADA VPN communications is essential to the successful operations of the supply system. We currently have 40 sites communicating on the Frontier SCADA VPN network, with the ability to add new sites as it becomes necessary.
- **Design and Construction:** The standardization on a single source of SCADA VPN communications allows MCWA to maintain the systems and respond to problems with a quick response to communications problems and resolve problems and restore communications rapidly. Reliability has been outstanding with the Frontier VPN network with almost 100% uptime.
- **Economical:** MCWA did perform a cost comparison several years ago on SCADA VPN networks using others vendors such as Earthlink, Time Warner and a few others that have exited the business with the results being +/- 10% of each other. During the prior bid for these services, the second bidder, Windstream, was a higher cost and no other providers submitted a bid.
- **Trained Employees:** The SCADA Maintenance staff are trained in the installation, configuration and troubleshooting of the Frontier SCADA VPN network and equipment. Mean time to restore vital communications is minimized due to staff thoroughly understanding the Frontier SCADA VPN network.
- **Uniformity:** We currently have three Treatment Plants and 37 other sites communicating on the Frontier SCADA VPN network, which is essential to the Production and Transmission Department operations.
- **Local Service:** While MCWA has only used a VPN for SCADA communications since 2014, for over 50 year prior, Frontier and its predecessor companies has been the communications provider that has meet our SCADA communications needs. During emergencies, the fact that Frontier still has local service technicians available means we are best able to deal with outages and equipment issues in a timely manner.

**MONROE COUNTY WATER AUTHORITY
REGULAR MEETING – November 8, 2018**

On a motion made by Mr. Bernstein seconded by Mr. Fero, the foregoing resolution #18-240 was duly put to a vote on roll call and unanimously carried. Ayes: 5; Nays: 0.

#18-241 **BE IT HEREBY RESOLVED: That the Monroe County Water Authority Board Meeting dates for 2019 be as follows:**

January	Thursday 10	9:30 a.m.
February	Thursday 14	9:30 a.m.
March	Thursday 14	9:30 a.m.
April	Thursday 11	9:30 a.m. <i>Annual & Regular Meeting Date</i>
May	Thursday 9	9:30 a.m.
June	Thursday 13	9:30 a.m.
July	Thursday 11	9:30 a.m.
August	Thursday 8	9:30 a.m.
September	Thursday 12	9:30 a.m.
October	Thursday 10	9:30 a.m.
November	Thursday 14	9:30 a.m.
December	Thursday 12	9:30 a.m.

On a motion made by Mr. Bernstein seconded by Mrs. Volpe, the foregoing resolution #18-241 was duly put to a vote on roll call and unanimously carried. Ayes: 5; Nays: 0.

For item #18-242 Mr. Metzger informed the members that Staff had conducted a thorough, extensive review of this matter and determined, based on reasons detailed in Resolution #18-242, that all purchases or procurements by the Authority of SCADA VPN services and ancillary equipment, should only be from Frontier Communications of Rochester, Inc., and therefore a recommendation of Standardization for same is requested.

#18-242 WHEREAS, the Monroe County Water Authority (the "Authority") has studied whether it should now standardize on Frontier Communications of Rochester, Inc.'s

("Frontier") Virtual Private Network ("VPN"), for SCADA communications in order to maintain efficiency, compatibility and the reliability of our SCADA system for the Authority's treatment plants, pump stations, storage tanks and other remote facilities, and

WHEREAS, reliable SCADA VPN communications is essential to the successful operations of the supply system, and

WHEREAS, the Authority currently has 40 sites communicating on the Frontier SCADA VPN network, with the ability to add new sites as it becomes necessary, and

WHEREAS, the operations and maintenance staff are trained in the installation, and configuration of this equipment, and

WHEREAS, upon the recommendation of the Authority's Production and Transmission Department, the Authority has determined that Frontier's VPN services provides the most reliable and cost-effective solution for our SCADA communications needs.

NOW, THEREFORE, BE IT RESOLVED that:

**MONROE COUNTY WATER AUTHORITY
REGULAR MEETING – November 8, 2018**

1. In order to provide for the most efficient and economic source of Virtual Private Network (VPN) for SCADA communications and for the reasons stated above, all purchases or procurements by the Authority of SCADA VPN services and ancillary equipment must be from Frontier Communications of Rochester, Inc.

2. The Members and staff of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name, to do all acts and things required or as may be necessary, or in the opinion of the officer so acting, desirable and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.

On a motion made by Mr. Fero seconded by Mrs. Volpe, the foregoing resolution #18-242 was duly put to a vote on roll call and unanimously carried. Ayes: 5; Nays: 0.

#18-243 The Members of the Authority expressly make the following determinations for all awards of Procurement Contracts made during this meeting: (i) the proposed awardee has been found to be responsible; (ii) the proposed awardee complied with the State Finance Law provisions regarding Permissible Contacts (as defined in the Authority's Procurement Disclosure Policy); (iii) the proposed awardee has (or will prior to the final award being effective) complied with the State Finance Law provisions that require disclosure of all information required to be in the Authority's Solicitation Materials (as such term is defined in the Authority's Procurement Disclosure Policy); and (iv) the procurement process did not involve conduct that is prohibited by the Public Officers Law, the Authority's Procurement Disclosure Policy, and the Authority's Code of Ethics and Conflict of Interest Policies.

On a motion made by Ms. Bleier-Mervis seconded by Mr. Bernstein, the foregoing resolution #18-243 was duly put to a vote on roll call and unanimously carried. Ayes: 5; Nays: 0.

For item #18-244 Mr. Savage explained to the Members that Genesee County (County) is commencing with Phase 2 of their multiple phase water supply project to bring water from MCWA to the County. An initial environmental review under the State Environmental Quality Review Act (SEQR) was completed with the first phase of the project in the early 2000's. Projects for Phase 2 are being finalized, which required an amendment to the SEQR findings originally adopted. MCWA thoroughly reviewed the SEQR documents prepared by the County as Lead Agency for the project and provided the County with several comments, which were all addressed in the final version of the documents. Chairman Nasca asked several questions about MCWA bonding some of the Phase 2 projects.

#18-244 WHEREAS, The Genesee County Legislature did, by Resolution No. 280 of the year 1998, adopted September 9, 1998, was declared to be the Lead Agency for the Genesee County Water Supply Project and made a preliminary determination that said project would be a Type 1 action as defined by the State Environmental Quality Review Act, and

WHEREAS, The Lead Agency did, by Resolution No. 502 of the year 1998 adopted December 16, 1998, accept a Draft Environmental Impact Statement for said project and scheduled a Public Hearing on the same for January 13, 1999, and

WHEREAS, A public hearing was held on the Draft Environmental Impact Statement pursuant to applicable Regulations on January 13, 1999 at which time the Draft

Resolution: MCWA #18-242

**ESTABLISHING THE STANDARDIZATION ON FRONTIER
VIRTUAL PRIVATE NETWORK ("VPN") FOR
SCADA COMMUNICATIONS**

#18-242 WHEREAS, the Monroe County Water Authority (the "Authority") has studied whether it should now standardize on Frontier Communications of Rochester, Inc.'s ("Frontier") Virtual Private Network ("VPN"), for SCADA communications in order to maintain efficiency, compatibility and the reliability of our SCADA system for the Authority's treatment plants, pump stations, storage tanks and other remote facilities, and

WHEREAS, reliable SCADA VPN communications is essential to the successful operations of the supply system, and

WHEREAS, the Authority currently has 40 sites communicating on the Frontier SCADA VPN network, with the ability to add new sites as it becomes necessary, and

WHEREAS, the operations and maintenance staff are trained in the installation, and configuration of this equipment, and

WHEREAS, upon the recommendation of the Authority's Production and Transmission Department, the Authority has determined that Frontier's VPN services provides the most reliable and cost-effective solution for our SCADA communications needs.

NOW, THEREFORE, BE IT RESOLVED that:

1. In order to provide for the most efficient and economic source of Virtual Private Network (VPN) for SCADA communications and for the reasons stated above, all purchases or procurements by the Authority of SCADA VPN services and ancillary equipment must be from Frontier Communications of Rochester, Inc.
2. The Members and staff of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name to do all acts and things required or as may be necessary, or in the opinion of the officer so acting, desirable and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.

CERTIFICATION

The undersigned hereby certifies that the above is an excerpt from the Minutes of a Regular Meeting of the Monroe County Water Authority, which was held on November 8, 2018 and that the Resolution is still in full force and effect.


Scott D. Nasca, Chairman

Date: November 8, 2018
Rochester, New York



MEMORANDUM

TO: Nicholas A. Noce
FROM: Chris J. LaManna, P.E. *CL*
SUBJECT: Standardization Request: SCADA System Radio Communication Equipment
General Electric Industrial Communications LLC MDS
DATE: August 4, 2020

Radio is one of the types of systems utilized by the Authority's supervisory control and data acquisition (SCADA) system to communicate with treatment plants, booster pumping stations, storage facilities, and other remote facilities. Reliable operation of radio equipment is critical for monitoring and controlling our production, storage, and transmission facilities, and thus the overall operation of the Authority's system.

The Authority has been utilizing radio equipment manufactured by General Electric Industrial Communications LLC MDS (GE MDS) for monitoring and control of its facilities for over 20 years. Production and Transmission (P&T) Department staff prefer the use of GE MDS radio equipment based on their extensive operation and maintenance experience. All of the Authority's SCADA radio communication system networks currently utilize GE MDS equipment, which includes a total of approximately 50 units.

The P&T Department staff has conducted a thorough, extensive review and determined that radio equipment manufactured by GE MDS is the most reliable and cost effective equipment for the Authority's SCADA communication needs. They offer a full range of radio equipment with the specific options and accessories the Authority requires to maintain the high level of reliability and resilience necessary for the SCADA radio communications system. The use of radio system equipment for SCADA communications with remote facilities is also anticipated to continue to increase in the future to improve system reliability and redundancy, and reduce operating costs.

For these reasons, we request standardization on radio equipment manufactured by GE MDS. The results of the analysis conducted by P&T Department staff are outlined below.

- **Compatibility:** GE MDS equipment has become the standard for use in SCADA radio communication networks throughout the Authority's service area and are located at multiple production, storage, and transmission facilities. Radio equipment utilizes a communication protocol that is unique to each manufacturer and is not compatible with equipment from other manufacturers. For example, it is not possible to utilize radio equipment from multiple manufacturers to communicate within the same network.
- **Design and Construction:** The design and operation of the Authority's radio systems for SCADA communications consists of multiple networks in hub-and-spoke configurations throughout the service area. The various networks work together to create the overall SCADA communications network for the Authority's facilities. Since radio equipment from different manufacturers' is not compatible with each other (as outlined above under Compatibility),

replacement of any single unit within a specific network with equipment other than as manufactured by GE MDS would require all of the equipment within the network be replaced, at a substantial cost. Additionally, to ensure compatibility with the Authority's existing SCADA communication system, GE MDS radio equipment is the basis of design for new radio communication systems for multiple upcoming projects including:

- New pump stations and other remote facilities to be constructed as part of the Phase 2 and Phase 3 expansion of service to Genesee County;
 - New facilities to be installed at the New York State Office of Children and Family Services Industry Residential Center; and
 - Planned conversion of existing Authority facilities from Frontier's private communication network over the next several years (two facilities per year over next four years).
- **Inventory:** The P&T Department Maintenance staff maintains an inventory of spare GE MDS radio equipment to facilitate replacement and restoration of communication in the event of equipment failure. Incorporating radio equipment from other manufacturers into the radio communication networks would require the Authority to maintain a larger inventory of radio equipment.
 - **Trained Employees:** Having worked almost exclusively with GE MDS radio equipment for more than 20 years, the P&T Department Maintenance staff are extensively familiar with their installation, configuration, calibration, operation, and maintenance requirements; and communication protocol. The required time for installation and maintenance activities is minimized due to the Maintenance staff's familiarity and understanding of the GE MDS equipment. Utilizing radio equipment from other manufacturers will require staff to be trained and become familiar with procedures and communication protocol that is unique to the other manufacturers' radio equipment.
 - **Uniformity:** As stated previously, all of the Authority's equipment used for SCADA radio communication systems is manufactured by GE MDS, which includes approximately 50 units.

Research, development, and manufacturing of GE MDS radio equipment is conducted at their headquarters located in Rochester, New York. Ritec Enterprises, also located in Rochester, is the sole authorized distributor of GE MDS equipment in the Authority's service area. The P&T Department Maintenance staff have informally determined that current pricing of GE MDS radio equipment is generally comparable to similar equipment from other manufacturers.

**MONROE COUNTY WATER AUTHORITY
REGULAR MEETING – August 13, 2020**

- #20-149** Authorize the Executive Director to enter into an **Inter-municipal Agreement** with Monroe County for the Authority's participation in the **Monroe County Energy Aggregation Group** for a five year term.

On a motion made by Mr. Hurlbut, seconded by Ms. Bleier-Mervis, the foregoing resolution #20-149 was put to a roll call vote and unanimously carried. AYES: 6 (S. Nasca, S. Volpe, M. Fero, R. Hurlbut, A. Bernstein, W. Bleier-Mervis); NAYS: 0

For Item #20-150, Mr. LaManna addressed the Board for authorization to award a contract for the 20-inch pump isolation valve. He recapped the bid results and stated that the vendor has done good work for us in the past.

- #20-150** Authorize the award of the **20-inch Pump Isolation Valve** contract to the low responsive, responsible bidder, **Upstate Valve and Control, Inc.** for the bid amount of \$14,850.

On a motion made by Mr. Rulison, seconded by Mr. Bernstein, the foregoing resolution #20-150 was put to a roll call vote and unanimously carried. AYES: 6 (S. Nasca, S. Volpe, M. Fero, R. Hurlbut, A. Bernstein, W. Bleier-Mervis); NAYS: 0

For Item #20-151, Mr. LaManna briefed the Board for authorization to award a contract for fabrication of a corrosion-resistant fiberglass shelter to house the de-chlorination chemical storage and feed system at the Thornell Pump Station. He summarized the bid results, indicated the vendor has done satisfactory work for the Water Authority, and noted that the bid was below the engineer's estimate.

- #20-151** Authorize the award of the **Thornell Pump Station Fiberglass Shelter Contract** to the low responsive, responsible bidder, **MEKCO, a Division of Concept Works**, for the bid amount of \$21,979.

On a motion made by Mr. Bernstein, seconded by Mr. Hurlbut, the foregoing resolution #20-151 was put to a roll call vote and unanimously carried. AYES: 6 (S. Nasca, S. Volpe, M. Fero, R. Hurlbut, A. Bernstein, W. Bleier-Mervis); NAYS: 0

For Item #20-152, Mr. LaManna addressed the Board on this item in addition to their having received his memorandum in advance of this meeting, detailing justification for the Standardization on General Electric Industrial Communications LLC MDS, which we have utilized in the monitoring and control of our facilities for over 20 years. Shoremont staff have determined this equipment to be the most reliable and cost-effective equipment for the Water Authority's SCADA communication needs. He also noted that radio equipment utilizes a communication protocol that is unique to each manufacturer and is not compatible with equipment from other manufacturers. Mr. LaManna responded to a follow-up question from a Board member.

- #20-152** WHEREAS, the Monroe County Water Authority (the "Authority") has studied whether it should now standardize on **General Electric Industrial Communications LLC MDS ("GE MDS")** equipment in order to maintain the efficiency, compatibility, and reliability of our supervisory control and data acquisition (SCADA) radio communication systems for monitoring and control of the Authority's treatment plants, booster pumping stations, storage facilities, and other remote facilities, and

WHEREAS, the Production and Transmission Department staff has found this equipment to be significantly more robust, durable, and reliable than other manufacturers' equipment, and

WHEREAS, the Authority currently has other compatible equipment that will result in smaller parts inventory, and

**MONROE COUNTY WATER AUTHORITY
REGULAR MEETING – August 13, 2020**

WHEREAS, the Authority's operations and maintenance staff are trained in the installation, configuration, calibration, operation, and maintenance of this equipment, and

WHEREAS, upon the recommendation of the Authority's Production and Transmission Department, the Authority has determined that GE MDS radio equipment is the most efficient and economical equipment currently available for the Authority's SCADA radio communications systems.

NOW, THEREFORE, BE IT RESOLVED that:

1. In order to provide for the most efficient and economic source of radio equipment for SCADA communication systems and for the reasons stated above, all purchases or procurements by the Authority of radio equipment, specifically for the Authority's SCADA radio communication systems for monitoring and control of the Authority's treatment plants, booster pumping stations, storage facilities, and other remote facilities, and any ancillary equipment, must be GE MDS.
2. The Members and staff of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name to do all acts and things required or as may be necessary, or in the opinion of the officer so acting, desirable, and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.

On a motion made by Mr. Fero, seconded by Mrs. Volpe, the foregoing resolution #20-152 was put to a roll call vote and unanimously carried. AYES: 6 (S. Nasca, S. Volpe, M. Fero, R. Hurlbut, A. Bernstein, W. Bleier-Mervis); NAYS: 0

For Item #20-153, Mr. Savage sought Board authorization in the award a contract for Phase III of the Brockport Water Treatment Plant West Side Demolition. He gave a brief history of the Brockport plant, outlined the project scope, summarized the bid results, and noted that the low bidder has done satisfactory work for the Water Authority in the past.

#20-153 Authorize the award of a lump sum contract for the **Brockport Water Treatment Plant West Side Demolition, Phase III** project to the low responsive, responsible bidder, **Frederico Demolition, LLC** in the bid amount of \$82,694.

On a motion made by Mr. Bernstein, seconded by Ms. Bleier-Mervis, the foregoing resolution #20-153 was put to a roll call vote and unanimously carried. AYES: 6 (S. Nasca, S. Volpe, M. Fero, R. Hurlbut, A. Bernstein, W. Bleier-Mervis); NAYS: 0

For Item #20-154, Mr. Savage briefed the Board for authorization in amending Resolution #20-113 to reflect a change the model name of the large plotter/printer and associated equipment to be purchased off New York State Contract. Mr. Savage explained that after the July Board meeting, the vendor notified the Authority that they were unable to supply the 3500 model and would be substituting with a newer model, which offered the same features and for the same price. Several days later, the vendor informed us that someone had hacked into their computer system, causing it to incorrectly indicate the model 3500 was out of stock. Since we are unsure which model we will receive, we would like to eliminate the model number from the original resolution. Mr. Savage responded to a follow-up question from a Board member.

#20-154 Authorize an **amendment to Resolution #20-113** to correct the model name of the large plotter/printer and associated equipment to be purchased under New York State OGS Contract Group #73600, Award #22802, contract #PM68151, from **Océ ColorWave 3500 System** to **Océ ColorWave System**.



MEMORANDUM

TO: Nicholas A. Noce

FROM: Chris J. LaManna, P.E. ^{CH}

SUBJECT: Standardization Review: Hach Company Turbidimeters, Chlorine Meters, and Colorimeters

DATE: December 7, 2021

C.C: D.Driffill, E.Young, C.King, K.Naugle

The Authority's Board of Directors approved standardization on Hach Company turbidimeters, portable chlorine meters, colorimeters, and associated reagents in October 2014 through Resolution No. 14-174. This standardization is subsequently reviewed at least every three years in accordance with the Authority's Purchasing and Procurement Guidelines, and most recently on February 28, 2019. The analysis conducted by Production and Transmission (P&T) Department staff for review and confirmation of this standardization is outlined below.

Regulatory agencies require the Authority to monitor and report turbidity, chlorine residual and various water quality testing parameters to confirm compliance with water quality and operational regulations. The turbidimeters, portable chlorine meters, colorimeters, and associated reagents manufactured by Hach Company are the most accurate, efficient, reliable and economical systems to the Authority for this purpose for the following reasons:

- **Economical:** Standardization on one manufacturer of turbidimeters, portable chlorine meters, colorimeters, and associated reagents allows the staff to stock only the spare parts and calibration standards for that manufacturer's instruments. The addition of a second manufacturer would necessitate purchasing and maintaining a second set of spare parts and calibration standards.
- **Design and Construction:** The standardization on a single manufacturer allows for quick and easy replacement of a failed instrument since the wiring and piping connections would not require modification.
- **Compliance:** The United States Environmental Protection Agency (USEPA) certifies Hach Company instruments for reporting purposes. Additionally, the USEPA and New York State Department of Health require proper turbidity and chlorine residual monitoring. Hach Company turbidimeters, portable chlorine meters, colorimeters, and associated reagents are the overwhelming choice of domestic water suppliers.

- **Uniformity:** Selection of competitive products, even if certified as “equivalent,” may yield slightly different results that can lead to operational, calibration and other data comparison problems.
- **Employee Training:** Staff are trained in the operation, maintenance, and calibration procedures of Hach Company turbidimeters, portable chlorine meters, and colorimeters. Repair time is minimized due to the maintenance staff’s familiarity with one brand of instrument. The selection of competitive products would require additional training and knowledge for the operations, maintenance and laboratory staff.
- **Inventory:** The Authority currently has an extensive inventory of Hach Company instruments, including 40 online turbidimeters, 3 bench turbidimeters, and more than 20 portable residual meters.



MEMORANDUM

TO: Nicholas Noce

FROM: Richard Metzger, P.E. *RM*

SUBJECT: Standardization Update - Hach turbidimeters, chlorine meters, colorimeters

DATE: February 28, 2019

cc: C LaManna, D Driffill, C King,

The following documents the updated standardization analysis by staff for Hach Company turbidimeters, portable chlorine meters, colorimeters, and associated reagents. In October 2014, the Board approved standardizing on Hach for turbidimeters and certain lab supplies (#14-174) and was last reviewed on April 17, 2017

For many years, Hach equipment was available under a State Contract. However they do not currently have a State Contract, so a separately requested Board resolution will allow the Authority to continue to purchase these products.

Regulatory agencies require the Authority to monitor and report turbidity, chlorine residual and various water quality testing parameters to confirm compliance with water quality and operational regulations. The turbidimeters, portable chlorine meters, colorimeters, and associated reagents manufactured by Hach are the most accurate, efficient, reliable and economical systems for this purpose for the following reasons:

- **Economical:** Standardization on one manufacturer of turbidimeters, portable chlorine meters, colorimeters, and associated reagents allows the staff to stock only the spare parts and calibration standards for that manufacturer's instruments. The addition of a second manufacturer would necessitate purchasing and maintaining a second set of spare parts and calibration standards.
- **Design and Construction:** The standardization on a single manufacturer allows for quick and easy replacement of a failed instrument due to the fact that the wiring and process piping connections would not change.
- **Compliance:** Hach Company Instruments are EPA-certified for reporting purposes. Proper turbidity and chlorine residual monitoring is required by the Federal EPA and the New York State Department of Health. Hach Company turbidimeters, portable chlorine meters, colorimeters, and associated reagents are the overwhelming choice of domestic water suppliers.

- ***Uniformity:*** Selection of competitive products, although they would be certified as "equivalent", may yield slightly different results which can lead to operational, calibration and other data comparison problems.
- ***Employee Training:*** Staff is trained in the operation, maintenance and calibration procedures of Hach Company turbidimeters, portable chlorine meters and colorimeters. Repair time is minimized due to the maintenance staff's familiarity with one brand of instrument. The selection of competitive products would require additional training and knowledge for the operations, maintenance and laboratory staff.
- ***Inventory:*** The Authority currently has an extensive inventory of Hach Company instruments, including 40 online turbidimeters, 3 bench turbidimeters, and more than 20 portable residual meters, all of which are manufactured by Hach Company.



MEMORANDUM

TO: Nicholas Noce

FROM: Richard Metzger, P.E. *RM*

SUBJECT: Standardization Update - Hach turbidimeters, chlorine meters, colorimeters

DATE: April 17, 2017

The following documents the updated standardization analysis by staff for Hach Company turbidimeters, portable chlorine meters, colorimeters, and associated reagents. In October 2014, the Board approved standardizing on Hach for turbidimeters and certain lab supplies (#14-174).

For many years, Hach equipment was available under a State Contract. However they do not currently have a State Contract, so a separately requested Board resolution will allow the Authority to continue to purchase these products.

Regulatory agencies require the Authority to monitor and report turbidity, chlorine residual and various water quality testing parameters to confirm compliance with water quality and operational regulations. The turbidimeters, portable chlorine meters, colorimeters, and associated reagents manufactured by Hach are the most accurate, efficient, reliable and economical systems for this purpose for the following reasons:

- **Economical:** Standardization on one manufacturer of turbidimeters, portable chlorine meters, colorimeters, and associated reagents allows the staff to stock only the spare parts and calibration standards for that manufacturer's instruments. The addition of a second manufacturer would necessitate purchasing and maintaining a second set of spare parts and calibration standards.
- **Design and Construction:** The standardization on a single manufacturer allows for quick and easy replacement of a failed instrument due to the fact that the wiring and process piping connections would not change.
- **Compliance:** Hach Company Instruments are EPA-certified for reporting purposes. Proper turbidity and chlorine residual monitoring is required by the Federal EPA and the New York State Department of Health. Hach Company turbidimeters, portable chlorine meters, colorimeters, and associated reagents are the overwhelming choice of domestic water suppliers.

- ***Uniformity:*** Selection of competitive products, although they would be certified as "equivalent", may yield slightly different results which can lead to operational, calibration and other data comparison problems.
- ***Employee Training:*** Staff is trained in the operation, maintenance and calibration procedures of Hach Company turbidimeters, portable chlorine meters and colorimeters. Repair time is minimized due to the maintenance staff's familiarity with one brand of instrument. The selection of competitive products would require additional training and knowledge for the operations, maintenance and laboratory staff.
- ***Inventory:*** The Authority currently has an extensive inventory of Hach Company instruments, including 40 online turbidimeters, 3 bench turbidimeters, and more than 20 portable residual meters, all of which are manufactured by Hach Company.

MONROE COUNTY WATER AUTHORITY
REGULAR MEETING, October 9, 2014

RESOLVED that the Executive Director is authorized to enter into a professional services agreement for Professional Auditing Services with Bonadio & Company, LLP with principal offices at 171 Sully's Trail, Suite 201, Pinelind, New York 4534 in accordance with a Proposal to Provide Auditing Services to the Monroe County Water Authority dated September 9, 2014 submitted by Bonadio & Company, LLP. All inclusive fees for conducting recurring services shall be based as submitted in their proposal dated September 19, 2014. This agreement is to provide Auditing Services for the fiscal years ending December 31, 2014, 2015, and 2016.

FURTHER RESOLVED, that this resolution shall take effect immediately.

Moved By J. Rubison
Seconded By S. Nasca
Vote Passed Unanimously

For Item #14-73 Mr. King addressed the Members for award of the purchase of Supervisory Control and Data Acquisition (SCADA) Virtual Private Network (VPN) Telecommunications Services. He explained the contract is for the system by which much of the information is communicated to and from the Authority's facilities in the SCADA system, data communication lines. He also recapped bid results.

#14-73 Authorize the award of a unit price contract for the SCADA Virtual Private Network Telecommunications Services to the lowest responsive, responsible bidder, Frontier Communications of Rochester Inc. in the bid amount of \$131,120 per year for a five year period.

Mr. Quattrone declared he is a retiree of Frontier with no financial interest.

Moved By S. Nasca
Seconded By L. Maggulli
Vote Passed Unanimously

In discussion of Item #14-74 Mr. Metzger addressed the Members for authorization to standardize on Hach Company turbidimeters, portable chlorine meters, colorimeters and associated reagents, referencing his detailed memorandum documenting the analysis by staff in recommendation of this standardization which was provided to the Board for their prior review.

#14-74

WHEREAS, the United States Environmental Protection Agency (USEPA), New York State Department of Health (NYSDOH) and Monroe County Department of Public Health (MCDPH) require the Monroe County Water Authority (the "Authority") to perform turbidity, chlorine residual and other water quality testing to confirm compliance with governing water quality regulations, and

WHEREAS, the Authority's Production Maintenance Staff has used Hach Company turbidimeters for more than 30 years, and has developed standard installation, maintenance and calibration procedures to simplify the troubleshooting and calibration of these units; and

WHEREAS, the Authority's Production Operations and Laboratory Staff is familiar with and trained in the operation of Hach turbidimeters, portable chlorine meters, colorimeters, and associated reagents; and

WHEREAS, the Authority has studied whether it should now standardize on Hach Company turbidimeters, portable chlorine meters, colorimeters, and associated reagents in order to maintain efficiency, compatibility and reliability in water quality monitoring, and

WHEREAS, the Authority's Purchasing and Procurement Guidelines has Appropriate Circumstances for Standardization of Goods and Services under which several provisions would be satisfied, and

WHEREAS, the Authority desires to make certain that all of its future needs for approved water quality analysis products can be acquired, and

WHEREAS, upon the recommendation of the Authority's Production and Transmission Department, the Authority has determined that Hach Company turbidimeters, portable chlorine meters, colorimeters, and associated reagents are the most accurate, efficient, reliable and economical systems currently available.

NOW, THEREFORE, BE IT RESOLVED that



MEMORANDUM

TO: Nicholas A. Noce

FROM: Chris J. LaManna, P.E. ^{CSL}

SUBJECT: Standardization Review: Hydro Instruments Vacuum Regulators

DATE: December 7, 2021

C.C: D.Driffill, S.Keller

The Authority's Board of Directors approved standardization on Hydro Instruments Vacuum Regulators in July 2018 through Resolution No. 18-157. This standardization is reviewed at least every three years in accordance with the Authority's Purchasing and Procurement Guidelines, and most recently on February 28, 2019. The analysis conducted by Production and Transmission (P&T) Department staff for review and confirmation of this standardization is outlined below.

P&T Department staff conducted a thorough, extensive review and determined that Hydro Instruments provides the most durable and safest vacuum regulators for the Authority's gaseous chlorination and other gaseous systems for the following reasons:

- **Design and Construction:** Hydro Instruments manufactures its vacuum regulator body parts by machining them from solid blocks of PVC stock, rather than injection molding of molten plastic. Machining eliminates the residual stresses from the molding process that lead to cracking and warping, and allows for a much heavier wall thickness than that allowed by injection molding. Additionally, they use a PVC material that is chemically resistant, durable, and resistant to cracking. PVC cannot be used for the injection molding manufacturing process.
- **Compatibility:** The standardization on a single manufacturer minimizes manifold compatibility issues. In addition to the Shoremont Water Treatment Plant's gaseous chlorination system, these vacuum regulators are compatible with the Shoremont Water Treatment Plant's sulfur dioxide (SO₂) and Webster Water Treatment Plant's gaseous chlorine systems (i.e., with minor piping modifications).
- **Safety:** Limiting the amount of pressure pipe in a gaseous chlorination system is one way to reduce the potential for leaks. Hydro Instruments vacuum regulators incorporate a unique design that eliminates the pressurized leak path into the room. All other vacuum regulators studied rely on less reliable O-rings to prevent pressurized gas from leaking into the room.

- **Less Maintenance:** The design of the Hydro Instruments vacuum regulators has minimal moving parts than other vacuum regulator manufacturers' studied, resulting in less required maintenance. The Hydro Instruments units also include a three-year warranty.



MEMORANDUM

TO: Nicholas A. Noce

FROM: Richard Metzger, P.E. *RM*

SUBJECT: Standardization Update: Hydro Instrument Vacuum Regulators

DATE: February 28, 2019

cc: C LaManna, D Drifill

The following documents the analysis by staff for the standardization of Hydro Instruments Vacuum Regulators for our gas chlorination systems. In July 2018, the Board approved standardizing on Hydro Instruments Vacuum Regulators (#18-157).

Staff has conducted a thorough, extensive review and determined that Hydro Instruments provides the most durable and safest vacuum regulators for the following reasons:

- **Design and Construction:** Hydro Instruments manufactures its Vacuum Regulator body parts by machining them from solid blocks of PVC stock, rather than injection molding of molten plastic. Machining eliminates the residual stresses from the molding process that lead to cracking and warping, and also allows for a much heavier wall thickness than that allowed by injection molding. Hydro Vacuum Regulators use a PVC material that is chemically resistant, durable and resistant to cracking. PVC cannot be used for the injection molding manufacturing process.
- **Compatibility:** The standardization on a single manufacturer minimizes manifold compatibility issues. These vacuum regulators are compatible with the SWTP Sulfur dioxide (SO₂) system and the Webster WTP system (with minor piping modifications).
- **Safety:** Limiting the amount of pressure pipe in a chlorine system is one way to reduce potential for leaks. Hydro vacuum regulators incorporate a unique design that eliminates the pressurized leak path into the room. All other regulators studied rely on O-rings to prevent pressurized gas from leaking into the room.
- **Less Maintenance:** Hydro Instruments design has minimal moving parts resulting in less required maintenance. The Hydro units carry a 3-year warranty. The Siemens chlorinators with Wallace & Tiernan vacuum regulators at Webster WTP have had consistent, ongoing maintenance issues since their installation.



Monroe County Water Authority

Memorandum

To: Nicholas A. Noce
From: Richard J. Metzger, P.E. *RJM*
Subject: Standardization - Vacuum Regulators

Date: July 3, 2018
File: 18-S04 #3
Copies: D. Driffill
S. Keller
D. Hendershott
R. Cleveland
H. Young

The following documents the analysis by staff for the standardization of Hydro Instruments Vacuum Regulators for our gas chlorination systems. The next planned purchase of this class of equipment will be this summer for nine units for the emergency back-up system for the SWTP chlorination system with a cost of approximately \$8,500.

Staff has conducted a thorough, extensive review and determined that Hydro Instruments provides the most durable and safest vacuum regulators for the following reasons:

- **Design and Construction:** Hydro Instruments manufactures its Vacuum Regulator body parts by machining them from solid blocks of PVC stock, rather than injection molding of molten plastic. Machining eliminates the residual stresses from the molding process that lead to cracking and warping, and also allows for a much heavier wall thickness than that allowed by injection molding. Hydro Vacuum Regulators use a PVC material that is chemically resistant, durable and resistant to cracking. PVC cannot be used for the injection molding manufacturing process.
- **Compatibility:** The standardization on a single manufacturer minimizes manifold compatibility issues. These vacuum regulators are compatible with the SWTP Sulfur dioxide (SO₂) system and the Webster WTP system (with minor piping modifications).
- **Safety:** Limiting the amount of pressure pipe in a chlorine system is one way to reduce potential for leaks. Hydro vacuum regulators incorporate a unique design that eliminates the pressurized leak path into the room. All other regulators studied rely on O-rings to prevent pressurized gas from leaking into the room.
- **Less Maintenance:** Hydro Instruments design has minimal moving parts resulting in less required maintenance. The Hydro units carry a 3-year warranty. The Siemens chlorinators with Wallace & Tiernan vacuum regulators at Webster WTP have had consistent, ongoing maintenance issues since their installation.

The sole source vendor for Hydro Instruments is PERTECH, Inc. (letter attached). PERTECH is out of Buffalo, NY and has been supplying MCWA with chlorine equipment for over 25 years.

**MONROE COUNTY WATER AUTHORITY
REGULAR MEETING - July 12, 2018**

On a motion made by Mr. Bernstein, seconded by Mr. Fero, and duly put to a vote on roll call, the foregoing resolution #18-155 unanimously carried. AYES: 5 (Nasca, Volpe, Fero, Bernstein, Bleier-Mervis); NAYS: 0.

#18-156 Authorize the purchase of an estimated five (5) Dell Latitude Rugged 14 laptop computers under NYS OGS Contract Group 73600 - Award 22802 - Information Technology Umbrella Contract #PM20820 - Manufacturer Based, Dell Marketing LP, Lot 2, at an estimated total cost of \$18,000.

On a motion made by Ms. Bleier-Mervis, seconded by Mr. Fero, and duly put to a vote on roll call, the foregoing resolution #18-156 unanimously carried. AYES: 5 (Nasca, Volpe, Fero, Bernstein, Bleier-Mervis); NAYS: 0.

In discussion of Item #18-157, Mr. Metzger further briefed the Members on this item to Standardize on Hydro Instruments Vacuum Regulators - as detailed in the memorandum provided to the Board Members in advance of this meeting in justification for this Standardization. He reported that staff has conducted a thorough, extensive review and determined that Hydro Instruments provides the most durable and safest vacuum regulators. He brought a demo model for illustration purposes and discussed the next planned purchase of this class of equipment and its approximate cost.

#18-157 **WHEREAS, the Monroe County Water Authority (the "Authority") has studied whether it should now standardize on Hydro Instruments Vacuum Regulators in order to maintain efficiency, compatibility and the reliability of our emergency chlorination and sulfur dioxide feed systems at the Authority's treatment plants, and**

WHEREAS, the Production and Transmission Department staff has found this equipment to be significantly more robust than other manufacturers' equipment, and

WHEREAS, the Authority currently has other compatible equipment which will result in lower parts inventory, and

WHEREAS, the operations and maintenance staff are trained in the installation, configuration and calibration of this equipment, and

WHEREAS, upon the recommendation of the Authority's Production and Transmission Department, the Authority has determined that Hydro Instruments Vacuum Regulators are the most efficient and economic equipment currently available.

NOW, THEREFORE, BE IT RESOLVED that:

1. In order to provide for the most efficient and economic source of vacuum regulators and for the reasons stated above, all purchases or procurements by the Authority of vacuum regulators and any ancillary equipment must be Hydro Instruments.
2. The Members and staff of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name to do all acts and things required or as may be necessary, or in the opinion of the officer so acting, desirable and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.

On a motion made by Mr. Bernstein, seconded by Mr. Fero, and duly put to a vote on roll call, the foregoing resolution #18-157 unanimously carried. AYES: 5 (Nasca, Volpe, Fero, Bernstein, Bleier-Mervis); NAYS: 0.

Resolution: MCWA #18-157

**ESTABLISHING THE STANDARDIZATION ON HYDRO INSTRUMENTS
VACUUM REGULATORS**

#18-157

WHEREAS, the Monroe County Water Authority (the "Authority") has studied whether it should now standardize on Hydro Instruments Vacuum Regulators in order to maintain efficiency, compatibility and the reliability of our emergency chlorination and sulfur dioxide feed systems at the Authority's treatment plants, and

WHEREAS, the Production and Transmission Department staff has found this equipment to be significantly more robust than other manufacturers' equipment, and

WHEREAS, the Authority currently has other compatible equipment which will result in lower parts inventory, and

WHEREAS, the operations and maintenance staff are trained in the installation, configuration and calibration of this equipment, and

WHEREAS, upon the recommendation of the Authority's Production and Transmission Department, the Authority has determined that Hydro Instruments Vacuum Regulators are the most efficient and economic equipment currently available.

NOW, THEREFORE, BE IT RESOLVED that:

- 1. In order to provide for the most efficient and economic source of vacuum regulators and for the reasons stated above, all purchases or procurements by the Authority of vacuum regulators and any ancillary equipment must be Hydro Instruments.**
- 2. The Members and staff of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name to do all acts and things required or as may be necessary, or in the opinion of the officer so acting, desirable and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.**

CERTIFICATION

The undersigned hereby certifies that the above is an excerpt from the Minutes of a Regular Meeting of the Monroe County Water Authority, which was held on July 12, 2018 and that the Resolution is still in full force and effect.


Scott D. Nasca, Chairman

**Date: July 12, 2018
Rochester, New York**



MEMORANDUM

TO: Nicholas A. Noce

FROM: Chris J. LaManna, P.E. ^{CL}

SUBJECT: Standardization Review: IDEXX Laboratories, Inc. Colilert® Products

DATE: December 7, 2021

C.C: C.King, K.Naugle

The Authority's Board of Directors approved standardization on IDEXX Laboratories Colilert® Products in September 2015 through Resolution No. 15-183. This standardization is subsequently reviewed at least every three years in accordance with the Authority's Purchasing and Procurement Guidelines, and most recently on February 28, 2019. The analysis conducted by Production and Transmission (P&T) Department staff for review and confirmation of this standardization is outlined below.

Federal and New York State regulatory agencies require the Authority to perform bacteriological testing to confirm compliance with water quality regulations. The Production and Transmission (P&T) Department's water quality laboratory staff evaluated the United States Environmental Protection Agency's (USEPA's) approved products and processes required to acquire Environmental Laboratory Accreditation Program (ELAP) approval to use them. Staff determined that IDEXX Colilert® products for microbiological testing remain the most efficient and economical system currently available for the Authority for the following reasons:

- **Economical:** The Authority is required to maintain New York State ELAP certification for our bacteriological analytical procedures. Although the various enzyme substrate products available are all reportedly equivalent, ELAP requires separate approvals for each manufacturer. Switching annually to the low bid product or maintaining multiple certifications for multiple products is not practical and would increase the chance of losing the water quality laboratory's certification for coliform testing, which would require contracting for the testing at considerable expense.
 - Changing certification requires two successive external proficiency tests at least fifteen days a part. In practice, this would take a month to complete and a week or longer to score before we could switch to a low bid product. During this period we would need to maintain certification for the method in use, which would require annual satisfactory proficiency testing results. Under ELAP rules, a failing test result in either the existing approved procedure, or the one we would be trying to switch to would result in losing the certification for both.

- Coliform positives require significant labor follow-up (resampling, additional reporting) and MCL violations are negative high profile events. Our staff is very familiar with IDEXX enzyme substrate products which very reliable and used by the majority of our industry. This reliability and familiarity goes a long way in avoiding the significant costs, and public image problems associated with false-positives.
- **Uniformity and Backup Supply:** The Monroe County Department of Public Health (MCDOPH) and the City of Rochester Bureau of Water (RWW) both use IDEXX enzyme substrate products exclusively. Different products all capture slightly different populations as coliform positive, which could complicate data comparisons and confirmations. Also using the same reagent system as MCDOPH and RWW provides a readily available back-up supply.
- **Employee Training:** There are significant training issues associated with switching to multiple reagent systems that are all slightly different in color response and procedure. The operating staff's familiarity with IDEXX enzyme substrate products and the simplicity of the methods has allowed us to perform certified on-site testing at the Webster Water Treatment Plant laboratory without additional staff or daily sample transport to the Shoremont Water Treatment Plant laboratory.
- **Endangerment:** The proven reliability of this product line as an industry standard and our staff's familiarity with it contributes greatly to the quality of our monitoring program and helps avoid the potential health risk associated with false-negatives and costs of false-positives.
- **Market Share:** IDEXX still controls about 80% of the drinking water market, which is an indicator of a superior product.



MEMORANDUM

TO: Nicholas A. Noce
FROM: Richard Metzger, P.E. *RM*
SUBJECT: Standardization Update: IDEXX Colilert Products
DATE: February 28, 2019
cc: C LaManna, C King

The following documents the analysis by staff for confirmation for the standardization on IDEXX products for microbiological testing.

Regulatory agencies require the Authority to perform bacteriological testing to confirm compliance with water quality regulations. Our laboratory staff evaluated the USEPA approved products and the processes required to acquire Environmental Laboratory Accreditation Program (ELAP) approval to use them. This standardization was approved by the Board in September 2015 (Resolution 15-183) and last reviewed on February 27, 2017.

Staff has determined that IDEXX products for microbiological testing are still the most efficient and economical system currently available for the Water Authority for the following reasons:

- **Economical:** We have to maintain NYS ELAP Certification for the bacteriological procedures that we use. Although the various enzyme substrate products available are all supposed to be equivalent, ELAP requires separate approvals for each manufacturer. The procedure to change annually to the low bid product or maintain multiple certifications for multiple products is in effect unworkable and would increase the chance of losing the lab's certification for Coliform testing, requiring contracting the testing out at considerable expense.
 - Changing certification requires two successive external proficiency tests at least fifteen days a part. In practice, this would take a month to complete and a week or longer to score before we could switch to a low bid product. During this period we would need to maintain certification for the method in use, which would require annual satisfactory proficiency testing results. Under ELAP rules, a failing test result in either the existing approved procedure, or the one we would be trying to switch to would result in losing the certification for both.
 - Coliform positives require significant labor follow-up (resampling, additional reporting) and MCL violations are negative high profile events. Our staff is

very familiar with IDEXX enzyme substrate products which very reliable and used by the majority of our industry. This reliability and familiarity goes a long way in avoiding the significant costs, and public image problems associated with false-positives.

- ***Uniformity and back-up supply:*** MCDOPH and RWW both use IDEXX enzyme substrate products exclusively. Different products all capture slightly different populations as Coliform positive which could complicate data comparisons and confirmations. Also using the same reagent system as MCDOPH and RWW provides a readily available back-up supply.
- ***Employee Training:*** There are significant training issues associated with switching to multiple reagent systems that are all slightly different in color response and procedure. The operating staff's familiarity with IDEXX enzyme substrate products and the simplicity of the methods has allowed us to perform certified on-site testing at the Webster Plant lab without additional staff or daily sample transport to the Shoremont Lab.
- ***Endangerment:*** The proven reliability of this product line as an industry standard and our staff's familiarity with it contributes greatly to the quality of our monitoring program and helps avoid the potential health risk associated with false-negatives and costs of false-positives.
- ***Market share as an indicator of a superior product:*** IDEXX still controls about 80% of the drinking water market.



MEMORANDUM

TO: Nicholas A. Noce
FROM: Richard Metzger, P.E. *ROM*
SUBJECT: Standardization – IDEXX Collert Products
DATE: February 27, 2017

The following documents the analysis by staff for confirmation for the standardization on IDEXX products for microbiological testing.

Regulatory agencies require the Authority to perform bacteriological testing to confirm compliance with water quality regulations. Our laboratory staff evaluated the USEPA approved products and the processes required to acquire Environmental Laboratory Accreditation Program (ELAP) approval to use them. This standardization was last approved by the Board in September 2015 (Resolution 15-183).

Staff has determined that IDEXX products for microbiological testing are still the most efficient and economical system currently available for the Water Authority for the following reasons:

- **Economical:** We have to maintain NYS ELAP Certification for the bacteriological procedures that we use. Although the various enzyme substrate products available are all supposed to be equivalent, ELAP requires separate approvals for each manufacturer. The procedure to change annually to the low bid product or maintain multiple certifications for multiple products is in effect unworkable and would increase the chance of losing the lab's certification for Coliform testing, requiring contracting the testing out at considerable expense.
 - Changing certification requires two successive external proficiency tests at least fifteen days apart. In practice, this would take a month to complete and a week or longer to score before we could switch to a low bid product. During this period we would need to maintain certification for the method in use, which would require annual satisfactory proficiency testing results. Under ELAP rules, a failing test result in either the existing approved procedure, or the one we would be trying to switch to would result in losing the certification for both.
 - Coliform positives require significant labor follow-up (resampling, additional reporting) and MCL violations are negative high profile events. Our staff is very familiar with IDEXX enzyme substrate products which very reliable and used by the majority of our industry. This reliability and familiarity goes a

long way in avoiding the significant costs, and public image problems associated with false-positives.

- ***Uniformity and back-up supply:*** MCDOPH and RWW both use IDEXX enzyme substrate products exclusively. Different products all capture slightly different populations as Coliform positive which could complicate data comparisons and confirmations. Also using the same reagent system as MCDOPH and RWW provides a readily available back-up supply.
- ***Employee Training:*** There are significant training issues associated with switching to multiple reagent systems that are all slightly different in color response and procedure. The operating staff's familiarity with IDEXX enzyme substrate products and the simplicity of the methods has allowed us to perform certified on-site testing at the Webster Plant lab without additional staff or daily sample transport to the Shoremont Lab.
- ***Endangerment:*** The proven reliability of this product line as an industry standard and our staff's familiarity with it contributes greatly to the quality of our monitoring program and helps avoid the potential health risk associated with false-negatives and costs of false-positives.
- ***Market share as an indicator of a superior product:*** IDEXX still controls about 80% of the drinking water market.

**MONROE COUNTY WATER AUTHORITY
REGULAR MEETING – September 10, 2015**

In discussion of Item #15-183, Mr. King addressed the Members for approval of the standardization for the purchase of IDEXX reagents and supplies for bacteriological testing. In addition to Mr. King's reporting on this item, a memorandum detailing the justification to continue the Standardization for IDEXX products was enclosed in Board Members' packets of information on agenda items distributed in advance for their prior review.

#15-183

WHEREAS, the United States Environmental Protection Agency (USEPA), New York State Department of Health (NYSDOH) and Monroe County Department of Public Health (MCDOPH) require the Monroe County Water Authority (the Authority) to perform bacteriological testing to confirm compliance with governing water quality regulations; and

WHEREAS, the Authority will analyze approximately 12,000 combined treatment plant and distribution system samples per year; and

WHEREAS, the Authority has a need for an approved method for performing the required bacteriological analyses; and

WHEREAS, the Authority's staff has used the IDEXX Colilert methodology for about half of its bacteriological analyses for more than a decade; and

WHEREAS, the Authority has conducted tests of the other USEPA approved products and the process required to acquire Environmental Laboratory Accreditation Program (ELAP) approval to use them and concluded that they were not acceptable; and

WHEREAS, the Authority's Purchasing and Procurement Guidelines has Appropriate Circumstances for Standardization of Goods and Services under which several provisions would be satisfied; and

WHEREAS, the Authority desires to make certain that all of its future needs for approved bacteriological analyses products can be acquired.

NOW, THEREFORE, BE IT RESOLVED that:

- 1. In order to provide for the purchase or procurement of approved products for bacteriological analyses the Authority hereby establishes the Standardization of IDEXX Colilert reagents and supplies.**
- 2. The Authority authorizes the purchase agreement for IDEXX Colilert products at the unit prices proposed for an annual budget amount of \$30,000 and for a term not to exceed three (3) years.**
- 3. The Officers of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name to do all acts and things required or as may be necessary, or in the opinion of the officer so acting, desirable and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.**

On a motion made by Mr. Rulison, seconded by Ms. Bleier-Mervis, and duly put to a vote on roll call, the foregoing resolution #15-183 unanimously carried. AYES: 5 (Magguilli, Nasca, Hurlbut, Bleier-Mervis, Rulison); NAYS: 0.

Memo

To: Amy Molinari

cc: Nick Noce

From: Gregg Ippolito, Supervisor of Meter Services *GI*

Date: 1/5/21

RE: Standardization of Small Meters

Amy,

On June 6th, 2012, Wayne Zyra, a management analyst for MCWA, presented a recommendation that MCWA should continue with its use of the Automatic Meter Reading (AMR) system. Based on the study by the Amawalk Consulting Group it was recommended that MCWA standardize its procurement of 5/8 inch to 2 inch meters with the Neptune Technology Group. At the time of the recommendation, MCWA had installed approximately 32,000 Neptune AMR meters in its system.

On April 8th, 2015 Ron Habecker, the Supervisor of Meter Services for MCWA made a recommendation that MCWA continue with the standardization of the use of AMR meters with the Neptune Technology Group. At the time of Mr. Habecker's recommendation MCWA had installed over 60,000 Neptune AMR meters.

On January 8th, 2018 as the Supervisor of Meter Services for MCWA I made a recommendation that MCWA should continue with the standardization of the use of AMR meters with the Neptune Technology Group. At the time of my recommendation MCWA had installed over 100,000 Neptune AMR meters.

The Neptune Technology Group continues to provide reliable and accurate AMR meters as well as dependable AMR equipment. Their commitment to their product and to providing excellent customer service is commendable. MCWA now has over 134,000 Neptune AMR meters installed in its system and has invested over \$16 million implementing this AMR program.

It is my recommendation that MCWA continues the standardization of the use of Neptune's AMR meters for its small meter program.

Gregg Ippolito

Supervisor of Meter Services

Memo

To: Kathleen Prestidge, Director of Finance and Business Services

cc: Larry Magguilli, Assistant to the Executive Director

From: Gregg Ippolito, Supervisor of Meter Services *MI*

Date: January 8, 2018

RE: Standardization of Small Meters

Kathy,

On June 6th, 2012, Wayne Zyra presented a recommendation that MCWA should continue with its use of the Automatic Meter Reading (AMR) system. Based on the study by the Amawalk Consulting Group it was recommended that MCWA standardize its procurement of 5/8 inch to 2 inch meters with Neptune Technology Group. At the time of the recommendation, MCWA had installed approximately 32,000 Neptune AMR meters in its system.

On April 8, 2015 Ron Habecker made a recommendation that we continue with the standardization of the use of AMR meters with Neptune Technology group. At the time of Mr. Habecker's recommendation MCWA had installed over 60,000 Neptune AMR Meters.

The Neptune Technology Group continues to provide reliable, accurate AMR meters as well as dependable AMR equipment. Their commitment to their product and to providing excellent customer service is commendable. MCWA has now over 100,000 Neptune AMR meters installed and has invested over \$14 million in implementing this AMR meter program.

It is my recommendation that MCWA continues with the standardization of the use of Neptune AMR Meters.

Gregg Ippolito

Supervisor of Meter Services

Resolution #12-123

RESOLUTIONS REGARDING RESIDENTIAL STANDARDIZING PURCHASES OF SMALL METERS BY THE MONROE COUNTY WATER AUTHORITY

WHEREAS, the Monroe County Water Authority (the "Authority") has initiated a program to accelerate the replacement of water meters that have been in service for more than 20 years, since, on average, meters tend to develop measurement inaccuracies as they reach 20 years of service life; and

WHEREAS, accurate measurement of water usage is important for determining overall system water losses and, ultimately, for properly setting water rates; and

WHEREAS, on January 14, 2010, the Authority adopted resolution #10-008 standardizing its source of large meters; and

WHEREAS, the Authority recently conducted a study to determine whether it could benefit from standardizing its source of small water meters; and

WHEREAS, the Authority also considered the results of a 2010 study of the water system conducted by the Authority's consultant, Amawalk Consulting Group, which included a recommendation that the Authority continue its use of automatic meter reading ("AMR") systems; and

WHEREAS, the Meter Services Department evaluated AMR meters from six different manufacturers for compliance with the Authority's criteria for standardizing small water meters, i.e., local conditions, compatibility and uniformity (the "Criteria"); and

WHEREAS, based upon the findings and recommendations of the Meter Services Department, the Authority has determined that Neptune brand AMR technology small water meters will best meet its small meter requirements and satisfy the Criteria.

NOW, THEREFORE, BE IT RESOLVED that:

- 1. In order to accomplish the objectives described above, the Authority hereby requires that all purchases of small water meters sized 5/8 inches to 2 inches (including any required ancillary equipment) must be made through the Neptune Technology Group. All standardized purchases shall include Neptune's AMR technology as currently configured in the E-CODER R900i model, including future upgrades.**
- 2. The Officers of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name to do all acts and things required or as may be necessary, or in the opinion of the officer so acting, desirable and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.**

Memo

To: Amy Molinari

cc: Nick Noce

From: Gregg Ippolito, Supervisor of Meter Services *GI*

Date: January 6th, 2021

RE: Standardization of Large Meters

Amy,

I am recommending that MCWA should continue its standardization to the Neptune Technology Group for our large meter program. Standardization of our large meter program is appropriate for the following reasons:

Compatibility- MCWA is currently standardized to the Neptune Technology Group in regards to our small meter program. Many of our parts and equipment used for the installation and maintenance of our small meters are the same as those required for large meter work.

Uniformity- MCWA currently uses Neptune Technology Group's MRX mobile device and Nsight software to obtain readings and data for our AMR small meters. This same AMR equipment and software is required for the collection of our large meter reading information.

Design- Neptune's current meter and AMR designs and upgrades continue to be compatible to our existing meters.

Construction- Neptune's current meter body construction continues to be built with safe, long lasting materials which allows MCWA to sustain maximum longevity for the life of the meter.

Employee Training- MCWA Meter Services employees have been extensively trained on the installation and maintenance of Neptune large meters. Employees in the IT and Customer Service Departments also have been effectively trained in the processing and managing of Neptune large meter reading and data processing

I have attached a more detailed description as to why MCWA should continue its standardization to the Neptune Technology Group for large meters.

Gregg Ippolito

Supervisor of Meter Services

MCWA has approximately 610 3"-10" large meters in service. About 80% of these large meters are Neptune water meters with the remaining balance being Sensus meters.

Synopsis of our existing Sensus Meters

Of the Sensus meters still in service about 16 of them are of the current Sensus Product line, the Omni Meter. The other remaining Sensus meters are a combination of the SRH and turbine models. Sensus discontinued the SRH and W-Turbine series several years ago so there are no repair parts and materials available for these meters. When they designed the Omni it was not comparable to the old meter designs and construction so changing an existing Sensus meter to the Omni meter was costly. In regards to the Sensus Omni meters we have had in place since 2011, the performance and durability of these meters has been sub-par. Sixteen of those meters have since been replaced. Poor performance at low flow rates, register failures and deterioration of the epoxy coated meter body all contributed to the premature removal of these meters.

Standardization on Neptune Large Water Meters:

Compatibility and Uniformity: MCWA is currently standardized to Neptune meters in the small meter group which consist of meters sized 5/8"-2". The mechanisms of these meters parallel the Neptune large meter group. The TruFlo compound, the HP turbine and the P3 Fireline meters all incorporate many of the same components of the Neptune small meters. Registers, measuring chambers, gaskets, thrust rollers and control block assemblies are just some of the many parts used for maintaining both Neptune small and large meters. Standardization to both groups allows for a more efficient and cost effective inventory of new meter and repair parts. It also allows our technicians to have similarly stocked parts in their vehicles which will allow for more efficient and effective routing for service calls. MCWA uses Neptune's Nsight software program and AMR equipment to capture all the reads and data provided by our small meters. This software and equipment are the same products that are required to successfully capture large meter reading information which eliminates the need for additional software licensing permits and AMR equipment. Having a second system would be costly and chaotic.

Design and Construction:

Neptune continues to manufacture their meters with lead free bronze and copper alloy meter bodies. That allows us to provide a safe to use product for our customers and gives MCWA a long lasting non-corrosive meter body. Their stainless steel strainer and meter body design on the P3 meters eliminates particle build up inside the device and provides unrestricted flow in case of a fire. When Neptune implements any design changes to their current meters, registers or AMR equipment they maintain similar dimensions or characteristics to allow seamless transition to the new products. This ability to retrofit old designs with the new prevents costly upgrades or conversions that would be associated with using other non-Neptune products.

Employee Training:

Our Meter Services personnel have been thoroughly trained in the maintenance, testing, repairing and reading of Neptune large meters. The skill sets that have been developed allow us to run a highly effective and productive large meter testing program. We have had several Meter Services employees attend Neptune's large meter testing school as well as participate in on site repair and replacement training. Our meter readers are well experienced in the use of Neptune's AMR equipment and can successfully collect and process all large meter reading information. MCWA's IT department has also been comprehensively trained on the installation and processing of Neptune's AMR software. The creation and arrangement by our IT department of our large meter reading routes are incorporated with the small meter routes to optimize reading efficiency. To deploy separate reading routes and programs due to different meter types would be costly and inefficient. MCWA's Customer Service Representatives also have received in depth training on the processing of Neptune's large meter data. Already familiar with the Neptune small meter information they are properly prepared to answer large meter calls as well. This continuity of products allows them to effectively communicate with our large meter customers with confidence and accurate detail.

Summary:

MCWA is currently standardized to Neptune's AMR small meters and uses the same AMR software, reading equipment, and meter components that Neptune's large meters require. Neptune has stayed true to using safe, long lasting material for their meter body construction which reduces MCWA's overall meter replacement costs. Having uniformity with our smaller meter products helps us create a more efficient and cost effective inventory. This continued standardization will ultimately reduce large meter replacement expenses, reduce employee training costs, prevent additional software licensing fees, and eliminate multiple types of AMR equipment. While other meter manufacturers may provide similar meter and AMR products, continuing to standardize to the Neptune Technology Group is a practical economic decision for MCWA's large meter program.

Memo

To: Kathleen Prestidge, Director of Finance and Business Services
cc: Larry Magguilli, Assistant to the Executive Director
From: Gregg Ippolito, Supervisor of Meter Services *GI*

Date: January 8, 2018

RE: Standardization of Large Meters

Kathy,

I am recommending that MCWA should standardize to the Neptune Technology Group for MCWA's large meter program. Standardization of our large meters is appropriate for the following reasons:

Compatibility- MCWA currently is standardized to the Neptune Technology Group in regards to our small meters. Many of our inventory parts required for Neptune small meters are the same as those required for Neptune large meters.

Uniformity- MCWA currently uses the same AMR equipment and software for both our small and large meters. The process of generating and collecting reads for small Neptune meters and large Neptune meters is one and the same.

Design- Neptune's meter and AMR equipment designs and improvements continue to be compatible to our existing meters.

Construction- Neptune continues to construct their meter bodies with safe and long lasting materials.

Employee Training- MCWA's Meter Services, IT and Customer Services groups have been effectively trained in the use of Neptune Large AMR Meters.

I have attached a more detailed description as to why MCWA should become standardized to the Neptune Technology Group for large meters.

Gregg Ippolito

Supervisor of Meter Services

Standardization of MCWA's Large Meters with the Neptune Technology Group

MCWA currently has over 560 3"-10" Large meters in service. Approximately 60% of those meters are Neptune Meters, with the remaining balance being Sensus meters.

Synopsis of our existing Sensus Meters

Of the Sensus meters still in service only about 25 of them are of the current Sensus Product line, The Omni Meter. The other remaining Sensus meters are a combination of the SRH and the Sensus W350-W5500 Turbine Series. Sensus has discontinued production of these meters and they also have discontinued the production of the parts required to maintain and repair them. In regards to the Sensus Omni meters we have had in service since 2011, the performance results have been sub-par. Seven of those meters installed in 2011 have since been replaced. Four of them for failure at low flow accuracy and three due to deterioration of the epoxy coated meter body. The issues with low flow accuracy as well as customer complaints we have received for the deterioration of the meter body have warranted our decision to replace those meters.

Standardization on Neptune Large Water Meters:

Compatibility and Uniformity: MCWA is currently standardized to Neptune meters in the small meter group. The small meter group consists of 5/8"-2" meters. The mechanisms of these meters are parallel with those of the Neptune large meter group. The TruFlo Compound, The Hp Turbine and the P3 Fireline use many of the same mechanical components as the Neptune small meters. Registers, measuring chambers, diaphragms, thrust rollers and control block assemblies are some of the many parts that are used in both the Neptune small and large meter group. Standardization to both groups allows for a more controlled and resourceful inventory of all new and repair parts that would be required. It also allows our meter technician's and large meter repairman to have similarly stocked parts in their work vehicles in order to make work routes and service calls more effective and efficient.

MCWA uses the Neptune N Sight software, programming and reading equipment to capture all the reads and data from our existing Neptune AMR small meters. This same software and equipment is what is needed to read all Neptune large meters as well, which eliminates the need for separate or additional software licensing agreements as well as additional reading equipment. A second AMR system would provide many additional licensing and equipment costs.

Design and Construction: Neptune continues to manufacture their meters with lead free bronze and copper alloy meter bodies which make them safe for our consumers and also corrosion resistant, guarantying a long service life. Their stainless steel strainer design on the P3 Fireline meter prevents corrosion and particle build up providing full unrestricted flow in case of a fire. When Neptune implements any design changes to their current meters, registers or AMR

equipment they allow for retrofitting to the existing products that we are using. The ability to retrofit the new designs prevents costly upgrades or conversions in order to maintain accurate registration and reading of our meters.

Employee Training:

Our Meter Service's personnel have been thoroughly trained in the maintenance, testing, repair and reading of Neptune large meters. The skill sets that have been developed allow us to run a highly effective and productive large meter testing program. Meter Services employees have attended Neptune large meter testing school, had in-house repair and replacement training, as well as Neptune AMR installation and collection training. Our IT department has also been comprehensively trained in the installation of Neptune AMR software, the creation and arrangement of reading routes as well as the processing of completed reads and pertinent collected data. Our Customer Service representatives have received in depth training on the processing of the collected data. This allows them to effectively communicate with our customers about their current use and also permits them to provide customers with abundant detail on their usage trends and history.

Summary:

MCWA is currently standardized to Neptune's AMR small meters and uses the same AMR software, AMR reading equipment, and many of the same metering mechanisms as Neptune's Large Meters use. Neptune has stayed true to using safe and long lasting material for their meter body construction which reduces MCWA's overall replacement costs. Having uniformity with our small meter products helps us create a more efficient and cost effective inventory. This standardization will ultimately reduce large meter replacement expenses as well prevent further costly employee training programs, additional software licensing fees and added AMR equipment expenses. While other meter manufacturers may provide similar meter and AMR products, standardizing to Neptune Large Meters is a practical economic decision for MCWA's Large Meter program.

**MONROE COUNTY WATER AUTHORITY
REGULAR MEETING – February 8, 2018**

#18-033 Authorize the unit price contract award for the purchase of *Clew/Eddy Hydrant Parts* from low responsive, responsible bidder, Core & Main, LP in the bid amount of \$6,340.67; hydrant parts to be purchased on an as-needed basis. This is a one-year unit price contract with the option to renew for up to four additional one-year terms upon mutual consent.

On a motion made by Mr. Rulison, seconded by Mrs. Volpe and duly put to a vote on roll call, the foregoing resolution #18-033 unanimously carried. AYES: 5 (Nasca, Volpe, Fero, Hurlbut, Rulison); NAYS: 0.

#18-034 Authorize the unit price contract award for the purchase of *A.P. Smith Hydrant Parts* from low responsive, responsible bidder, Core & Main, LP in the bid amount of \$3,051.56; hydrant parts to be purchased on an as-needed basis. This is a one-year unit price contract with the option to renew for up to four additional one-year terms upon mutual consent.

On a motion made by Mr. Hurlbut, seconded by Mr. Rulison and duly put to a vote on roll call, the foregoing resolution #18-034 unanimously carried. AYES: 5 (Nasca, Volpe, Fero, Hurlbut, Rulison); NAYS: 0.

For item #18-035, Mr. Benshoff again addressed the Members for authorization of this unit price purchase contract award. He explained the function of Valve Boxes, recapped bid results and terms, and that these materials are purchased on an as-needed basis.

#18-035 Authorize the unit price contract award for the purchase of *Valve Boxes and Lids* from low responsive, responsible bidder, Blair Supply Corp.; with a total bid price of \$37,472; quantities based on one year's estimated usage; materials to be purchased on an as-needed basis. This is a one-year unit price contract with the option to renew for up to four additional one-year terms upon mutual consent.

On a motion made by Mr. Rulison, seconded by Mr. Hurlbut and duly put to a vote on roll call, the foregoing resolution #18-035 unanimously carried. AYES: 5 (Nasca, Volpe, Fero, Hurlbut, Rulison); NAYS: 0.

In discussion of Item #18-036, Mr. Gregory Ippolito, the Authority's Meter Service Supervisor, briefed the Board to approve the Standardization of Large Meters to the Neptune Technology Group for MCWA's large meter program. He gave a detailed narrative for this standardization in addition to his recommendation memorandum provided for the Board's prior review.

#18-036 WHEREAS, since 2012, the Monroe County Water Authority (the "Authority") has installed only Neptune Technology Group brand water meters for meters 3 inches and larger, and such meters now comprise over 60% of the Authority's large meter population; and

WHEREAS, the Authority has studied whether it should now standardize the source of large water meters in order to maintain the efficiency of and compatibility within the Authority's water meter system; and

WHEREAS, upon the recommendation of the Authority's Meter Services Department, the Authority has determined that Neptune Technology Group brand large water meters are the most efficient and economic system currently available.

NOW, THEREFORE, BE IT RESOLVED that:

1. In order to provide for the most efficient and economic source of large water meters and for the reasons stated above, all purchases or procurements by the Authority of large water meters sized three inches and larger and any ancillary equipment must be Neptune Technology Group brand.
2. The Officers of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name to do all acts and things required or as may be necessary, or in the opinion of the officer so acting, desirable and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.

On a motion made by Mr. Rulison, seconded by Mr. Fero and duly put to a vote on roll call, the foregoing resolution #18-036 unanimously carried. AYES: 5 (Nasca, Volpe, Fero, Hurlbut, Rulison); NAYS: 0.

Resolution: MCWA #18-036

COPY

**ESTABLISHING STANDARDIZATION ON
NEPTUNE TECHNOLOGY GROUP BRAND WATER METERS
FOR METERS 3 INCHES AND LARGER**

#18-036

WHEREAS, since 2012, the Monroe County Water Authority (the "Authority") has installed only Neptune Technology Group brand water meters for meters 3 inches and larger, and such meters now comprise over 60% of the Authority's large meter population; and

WHEREAS, the Authority has studied whether it should now standardize the source of large water meters in order to maintain the efficiency of and compatibility within the Authority's water meter system; and

WHEREAS, upon the recommendation of the Authority's Meter Services Department, the Authority has determined that Neptune Technology Group brand large water meters are the most efficient and economic system currently available.

NOW, THEREFORE, BE IT RESOLVED that:

1. In order to provide for the most efficient and economic source of large water meters and for the reasons stated above, all purchases or procurements by the Authority of large water meters sized three inches and larger and any ancillary equipment must be Neptune Technology Group brand.
2. The Officers of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name to do all acts and things required or as may be necessary, or in the opinion of the officer so acting, desirable and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.

CERTIFICATION

The undersigned hereby certifies that the above is an excerpt from the Minutes of a Regular Meeting of the Monroe County Water Authority, which was held on February 8, 2018 and that the Resolution is still in full force and effect.


Scott D. Nasca, Vice Chairman

Date: February 8, 2018
Rochester, New York



MEMORANDUM

TO: Nicholas A. Noce
FROM: Chris J. LaManna, P.E. *CLM*
SUBJECT: Standardization: Rotork Electric Valve Actuators
DATE: November 30, 2021
C.C: D.Driffill, E.Young

The Authority has utilized Rotork electric valve actuators on its water treatment process, transmission, and distribution systems valves for at least the last 30 years. They are in operation extensively on valves located at the Shoremont and Webster Water Treatment Plants, and at numerous booster pumping stations, storage tanks, reservoirs, and control valve vaults throughout the Authority's service area. Reliable and accurate automatic valve operation using electrically actuated valves is critical to control the water treatment process, and the transmission and distribution of treated water to the Authority's customers. The Authority's programmable logic controllers (PLCs) and supervisory, control and data acquisition (SCADA) system typically control the operation of electrically actuated valves in the Authority's system.

The Production and Transmission (P&T) Department Maintenance staff prefers Rotork electric valve actuators based on extensive operation and maintenance experience compared to other manufacturers' equipment that is, or previously was, in operation in the Authority's system. Rotork's United States headquarters has been located in Rochester, NY since the 1960s providing manufacturing, sales, and repair services.

P&T Department staff determined that Rotork electric valve actuators are the most cost efficient, durable, and reliable equipment currently available for the Authority for use on water treatment process, transmission, and distribution system valves. This determination did not consider, and does not include, electric actuators for smaller valves used on other systems including heating, ventilating, air conditioning, plumbing, and chemical systems.

We request standardization on Rotork electric actuators for use on the Authority's treatment process, transmission, and distribution system valves for the reasons outlined below:

- **Compatibility:** As indicated above, the Authority utilizes Rotork electric valve actuators extensively throughout the water treatment process, transmission, and distribution systems. The use of different manufacturers' electric valve actuators could require modifications to electrical and/or control systems.
- **Uniformity:** Approximately 185 electric valve actuators are currently in operation at the Shoremont and Webster Water Treatment Plants and throughout the Authority's booster

pumping stations, storage facilities, and transmission and distribution system. Approximately 177 are Rotork, which represents approximately 96-percent of the total number of electric valve actuators in operation. This uniformity of electric valve actuators maximizes operation and maintenance efficiency.

- **Design and Construction:** Standardizing on a single manufacturer facilitates repair and replacement of failed equipment and compatibility with the Authority's PLCs and SCADA system. Standardizing on Rotork will also facilitate various replacement and renewal projects that will be implemented over the next few years at the Shoremont Water Treatment Plant, including the comprehensive improvements to the West 1 treatment facilities scheduled for 2022. It will also ensure that this preferred manufacturer is utilized in the new booster pumping stations and other facilities that will be constructed as part of the Phase 2 and Phase 3 expansions of service to Genesee County.
- **Inventory:** The P&T Department Maintenance staff maintains a small inventory of spare parts and actuators to facilitate operation and maintenance activities. Incorporating electric valve actuators from other manufacturers into the treatment process, transmission, and distribution systems will require the Authority to maintain a larger inventory of spare parts and actuators.
- **Local Service Facilities:** Due to the close proximity of their service facility in Rochester, Rotork's technicians are able to provide prompt on-site and shop repair services to the Authority, which enhances overall reliability by reducing equipment downtime.
- **Trained Employees:** The P&T Department Maintenance staff are extensively familiar with the installation, configuration, operation, and maintenance of Rotork electric valve actuators. This minimizes the time required for maintenance and configuration of the valve actuators. Installing equipment from other manufacturers will require training in the installation, configuration, and operation procedures specific to the other manufacturers' equipment. Maintenance staff would also have to become familiar with new maintenance procedures and requirements.
- **Economical:** Rotork electrical valve actuators are generally cost competitive with similar equipment from other manufacturers.



MEMORANDUM

TO: Nicholas A. Noce
FROM: Chris J. LaManna, P.E. ^{chl}
SUBJECT: Standardization: Rotork Electric Valve Actuators
DATE: November 30, 2021
C.C: D.Driffill, E.Young

The Authority has utilized Rotork electric valve actuators on its water treatment process, transmission, and distribution systems valves for at least the last 30 years. They are in operation extensively on valves located at the Shoremont and Webster Water Treatment Plants, and at numerous booster pumping stations, storage tanks, reservoirs, and control valve vaults throughout the Authority's service area. Reliable and accurate automatic valve operation using electrically actuated valves is critical to control the water treatment process, and the transmission and distribution of treated water to the Authority's customers. The Authority's programmable logic controllers (PLCs) and supervisory, control and data acquisition (SCADA) system typically control the operation of electrically actuated valves in the Authority's system.

The Production and Transmission (P&T) Department Maintenance staff prefers Rotork electric valve actuators based on extensive operation and maintenance experience compared to other manufacturers' equipment that is, or previously was, in operation in the Authority's system. Rotork's United States headquarters has been located in Rochester, NY since the 1960s providing manufacturing, sales, and repair services.

P&T Department staff determined that Rotork electric valve actuators are the most cost efficient, durable, and reliable equipment currently available for the Authority for use on water treatment process, transmission, and distribution system valves. This determination did not consider, and does not include, electric actuators for smaller valves used on other systems including heating, ventilating, air conditioning, plumbing, and chemical systems.

We request standardization on Rotork electric actuators for use on the Authority's treatment process, transmission, and distribution system valves for the reasons outlined below:

- **Compatibility:** As indicated above, the Authority utilizes Rotork electric valve actuators extensively throughout the water treatment process, transmission, and distribution systems. The use of different manufacturers' electric valve actuators could require modifications to electrical and/or control systems.
- **Uniformity:** Approximately 185 electric valve actuators are currently in operation at the Shoremont and Webster Water Treatment Plants and throughout the Authority's booster

pumping stations, storage facilities, and transmission and distribution system. Approximately 177 are Rotork, which represents approximately 96-percent of the total number of electric valve actuators in operation. This uniformity of electric valve actuators maximizes operation and maintenance efficiency.

- **Design and Construction:** Standardizing on a single manufacturer facilitates repair and replacement of failed equipment and compatibility with the Authority's PLCs and SCADA system. Standardizing on Rotork will also facilitate various replacement and renewal projects that will be implemented over the next few years at the Shoremont Water Treatment Plant, including the comprehensive improvements to the West 1 treatment facilities scheduled for 2022. It will also ensure that this preferred manufacturer is utilized in the new booster pumping stations and other facilities that will be constructed as part of the Phase 2 and Phase 3 expansions of service to Genesee County.
- **Inventory:** The P&T Department Maintenance staff maintains a small inventory of spare parts and actuators to facilitate operation and maintenance activities. Incorporating electric valve actuators from other manufacturers into the treatment process, transmission, and distribution systems will require the Authority to maintain a larger inventory of spare parts and actuators.
- **Local Service Facilities:** Due to the close proximity of their service facility in Rochester, Rotork's technicians are able to provide prompt on-site and shop repair services to the Authority, which enhances overall reliability by reducing equipment downtime.
- **Trained Employees:** The P&T Department Maintenance staff are extensively familiar with the installation, configuration, operation, and maintenance of Rotork electric valve actuators. This minimizes the time required for maintenance and configuration of the valve actuators. Installing equipment from other manufacturers will require training in the installation, configuration, and operation procedures specific to the other manufacturers' equipment. Maintenance staff would also have to become familiar with new maintenance procedures and requirements.
- **Economical:** Rotork electrical valve actuators are generally cost competitive with similar equipment from other manufacturers.

On a motion made by Mr. Hurlbut, seconded by Mr. Rulison, the foregoing resolution #21-244 was put to a roll call vote and unanimously carried. AYES: 5 (S. Nasca, S. Volpe, R. Hurlbut, M. Van Vechten, J. Rulison); NAYS: 0

For Item #21-245 Mr. LaManna briefed the Board for authorization in the the purchase of Allen-Bradley programmable logic controllers (PLC's) and ancillary equipment uniformly incorporated in the Authority's Supervisory Control and Data Acquisition (SCADA) system. Mr. LaManna informed the Board that the vendor's corporate headquarters are located in Rochester and the Horizon Solutions, LLC is the sole authorized dealer of PLC's in this region of the state.

#21-245 Authorize the purchase of **Allen-Bradley® Programmable Logic Controllers** and ancillary equipment such as network interface cards, power supplies, input/output cards, cabling and displays from **Horizon Solutions, LLC** through December 31, 2022 for an estimated total up to \$80,000.

On a motion made by Mrs. Van Vechten, seconded by Mr. Rulison, the foregoing resolution #21-245 was put to a roll call vote and unanimously carried. AYES: 5 (S. Nasca, S. Volpe, R. Hurlbut, M. Van Vechten, J. Rulison); NAYS: 0

For Item #21-246 Mr. LaManna requested Board authorization for the purchase of various electrical materials and equipment utilized for maintenance and repair of the Authority's equipment and facilities, not including the aforementioned Allen-Bradley® Programmable Logic Controllers (PLC's)

#21-246 Authorize a Blanket Purchase Order for the purchase of **various electrical materials and equipment** for maintenance and repair of the Authority's equipment and facilities, to be ordered as needed from **Horizon Solutions, LLC** for an estimated total cost up to \$50,000 for the term January 1, 2022 through December 31, 2022.

On a motion made by Mr. Rulison, seconded by Mrs. Van Vechten, the foregoing resolution #21-246 was put to a roll call vote and unanimously carried. AYES: 5 (S. Nasca, S. Volpe, R. Hurlbut, M. Van Vechten, J. Rulison); NAYS: 0

For Item #21-247 Mr. LaManna addressed the Board for authorization for the purchase of emergency generator repair parts, services and diagnostic software for use on emergency generators located at various MCWA booster pumping stations and other locations.

#21-247 Authorize a Blanket Purchase Order for the purchase of **emergency generator repair parts, services, and diagnostic software** for the Authority's Cummins-Onan generators, to be ordered as needed from **Cummins Inc. Sales and Service** for an estimated total cost up to \$25,000 for the term January 1 through December 31, 2022.

On a motion made by Mr. Rulison, seconded by Mrs. Van Vechten, the foregoing resolution #21-247 was put to a roll call vote and unanimously carried. AYES: 5 (S. Nasca, S. Volpe, R. Hurlbut, M. Van Vechten, J. Rulison); NAYS: 0

For Item #21-248 Mr. LaManna requested Board authorization in standardizing Rotork electric actuators for use on the Authority's treatment process, transmission and distribution systems' valves located throughout the Authority's service area. Mr. LaManna explained the importance of actuators and informed the Board that of the 185 actuators in use by the Authority, 177 are currently Rotork. He stated that the standardization of these products would ensure a seamless transition during upcoming capital projects.

#21-248 WHEREAS, the Monroe County Water Authority (the "Authority") has studied whether it should now standardize on Rotork ("Rotork") electric actuators in order to maintain the efficiency, compatibility, and reliability of the valve operation on the Authority's treatment process, transmission, and distribution systems primarily located at the Authority's Shoremont, Webster, and Corfu Water Treatment Plants;

and at booster pumping stations, storage tanks, reservoirs, and control valve vaults,
and

WHEREAS, the Production and Transmission Department staff has found this equipment to be significantly more robust, durable, and reliable than other manufacturers' equipment, and

WHEREAS, the Authority currently has other compatible equipment that will result in smaller parts inventory, and

WHEREAS, the operations and maintenance staff are trained in the installation, configuration, operation, and maintenance of this equipment, and

WHEREAS, upon the recommendation of the Authority's Production and Transmission Department, the Authority has determined that Rotork electric actuators are the most efficient and economic equipment currently available for the Authority's treatment process, transmission, and distribution systems valves.

NOW, THEREFORE, BE IT RESOLVED that:

1. In order to provide for the most efficient and economic source of electric actuators and for the reasons stated above, all purchases or procurements by the Authority of electric actuators, specifically for the Authority's treatment process, transmission, and distribution systems valves located at the Shoremont, Webster, and Corfu Water Treatment Plants; booster pumping stations, storage tanks, reservoirs, and control valve vaults, and any ancillary equipment must be Rotork.
2. The Members and staff of the Authority are hereby authorized and directed for and on behalf of the Authority and in its name to do all acts and things required or as may be necessary, or in the opinion of the officer so acting, desirable and proper to effect the purposes of the foregoing resolutions and to cause compliance by the Authority with all of the provisions of the foregoing resolutions.

On a motion made by Mr. Rulison, seconded by Mr. Van Hurlbut, the foregoing resolution #21-248 was put to a roll call vote and unanimously carried. AYES: 5 (S. Nasca, S. Volpe, R. Hurlbut, M. Van Vechten, J. Rulison); NAYS: 0

For Item #21-249 Mr. Savage briefed the Board for authorization of an agreement with the New York State Department of Transportation permitting their contractor to adjust valve boxes and relocate water mains as needed to complete road repaving on Route 104 in the Towns of Webster and Ontario. Mr. Savage stated that the work would be completed at no cost to the Authority.

#21-249 WHEREAS, the New York State Department of Transportation proposes the construction, reconstruction, or improvement of NY-104 from Basket Road to Furnace Road, Pavement Rehabilitation, Towns of Webster and Ontario, Monroe and Wayne Counties, P.I.N. 4104.85, and

WHEREAS, the State will include as part of the construction, reconstruction, or improvement of the above mentioned project. 1 water valve box elevation, and verification of location or relocation of approximately 1 water main, pursuant to Section 10, Subdivision 24, of the State Highway Law, as shown on the contract plans and Utility Special Note relating to the project and meeting the requirements of the owner, and

WHEREAS, the service life of the relocated and/or replaced utilities has not been extended, and

WHEREAS, the State will provide for the reconstruction of the above mentioned work, as shown on the contract plans and Utility Special Notes, relating to the above mentioned project.

NOW, THEREFORE,