

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2025-00364
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

Witness: William A. Lewis

1. Provide any current notice of violations issues by the Energy and Environment Cabinet (EEC) or the Kentucky Division of Water (DOW) to Kentucky-American. Provide copies of each outstanding notice of violation and state how the violations will be resolved.

Response:

There are no current or outstanding drinking water or wastewater notices of violation issued by the Energy and Environment Cabinet or the Department of Water to Kentucky-American.

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2. Provide documentation of any communications between the Joint Applicants and the EEC or DOW regarding the Joint Application.

Response:

KAWC held an in-person conference with representatives of the DOW on December 1, 2025 to review future activities related to the planned transition of Livingston water system operations to KAWC. The discussion included potential timing of an acquisition date, the transfer of Livingston's Public Water Supply Identification Number to KAWC, and a brief discussion regarding outstanding Livingston water system violations.

Please reference KAW_R_PSCDR1_NUM002_120825_Attachment.

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3. Provide copies of any filings or applications regarding proposed merger that have been filed with any regulatory agency, excluding the Kentucky Public Service Commission, on behalf of Kentucky-American.

Response:

There have been no filings or applications regarding the proposed acquisition to any other regulatory agency except for the KYPSC.

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4. Refer to the Agreement for Purchase of Livingston Water System (Agreement), generally. There were multiple references to schedules that were not provided in the Joint Application. Explain why there are 20 schedules referenced in the Agreement, yet none of the corresponding schedules were provided in the Joint Application.

Response:

The corresponding schedules were not provided in the Joint Application because Kentucky American Water (KAW) and Livingston are still working together to complete these schedules. Typically, these schedules are finalized throughout the process that occurs between execution of the Agreement and the closing. KAW understands that Livingston's documentation of its system and its appurtenances is limited; KAW anticipates some information may not be available at completion of this process, but KAW and Livingston are working to finalize the schedules or indicate which are not applicable due to the limited amount of information possessed by Livingston. Once the schedules are finalized and prior to the closing, KAW would be happy to submit them to the Commission if so desired.

A schedule of the presently known assets in Livingston's system is attached in response to PSC 1-12 as Attachment 1.

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5. Provide the following schedules in Excel spreadsheet format with all formulas, columns, and rows unprotected and fully accessible. If Excel spreadsheet format is not applicable for any of the following schedules, provide the schedule in portable document format (pdf) in which it is searchable and appropriately bookmarked.
- a. Schedule 2.5(a)(ii), referenced in Article 2.5(a)(ii) of the Agreement.
 - b. Schedule 3.4, referenced in Article 2.5(a)(iv) of the Agreement.
 - (1) Schedule 3.4(a), referenced in Article 3.4(a) of the Agreement.
 - (2) Schedule 3.4(b)(i), referenced in Article 3.4(a) of the Agreement.
 - (3) Schedule 3.4(b)(ii), referenced in Article 3.4(a) of the Agreement.
 - (4) Schedule 3.4(e), referenced in Article 3.4(e) of the Agreement.
 - c. Schedule 3.5(a), referenced in Article 3.5 of the Agreement.
 - d. Schedule 3.5(b), referenced in Article 3.5 of the Agreement.
 - e. Schedule 3.6, referenced in Article 3.6 of the Agreement.
 - f. Schedule 3.8, referenced in Article 3.8 of the Agreement.
 - g. Schedule 3.9(d), referenced in Article 3.9(d) of the Agreement.
 - h. Schedule 3.9(e), referenced in Article 3.9(e) of the Agreement.
 - i. Schedule 3.9(f), referenced in Article 3.9(f) of the Agreement.
 - j. Schedule 3.10, referenced in Article 3.10 of the Agreement.
 - k. Schedule 3.11, referenced in Article 3.11 of the Agreement.
 - l. Schedule 3.14, referenced in Article 3.14 of the Agreement.
 - m. Schedule 3.15, referenced in Article 3.15 of the Agreement.
 - n. Schedule 7.2, referenced in Article 7.2 of the Agreement.
 - o. Schedule A, referenced in the Agreement, Page 19, paragraph 2.
 - p. Schedule B, referenced in the Agreement, Page 26, at the "Knowledge" paragraph.

Response:

Please see KAW's response to PSC 1-4.

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6. Explain how the proposed merger is in the public interest.

Response:

As stated in the Joint Application, this proposed purchase will bring significant benefits by combining Livingston with a larger, more robust company—Kentucky American Water Company (KAWC). These benefits include greater access to capital for infrastructure investment, operational efficiencies, and enhanced service quality. Customers will benefit from greater access to advanced water treatment and operations capabilities as well as economies of scale. More importantly, there will be no immediate impact on customer rates or regulatory oversight, and the transaction will strengthen KAWC's ability to serve and respond to regulatory inquiries. Please also see KAWC's response PSC 1-7.

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7. Describe the following:

- a. Kentucky-American's technical ability and resources to manage and operate Livingston's water system.
- b. Kentucky-American's financial ability and resources to manage and operate Livingston's water system, including, but not limited to, available funds, lines of credit, loans, grants, or other financial support.
- c. Kentucky-American's management ability and resources to manage and operate the Livingston water system.

Response:

American Water (KAWC's parent company) and KAWC have the financial, technical, and managerial expertise to operate and manage the Livingston facilities and to provide reasonable service to the areas currently receiving water service from those facilities. American Water serves 3.5 million customer connections in fourteen states through its regulated operating subsidiaries. Its transmission and distribution network includes 795 water and wastewater treatment plants, 1,700 pumping stations, 1,200 groundwater wells, 1,100 treated water storage facilities, 74 dams, and approximately 54,000 miles of main and collection pipes.

a. KAWC currently serves more than 138,000 customers in Kentucky and provides wholesale water service to ten public water systems. Livingston does not currently employ personnel to staff its water system operations. The Livingston water system is contiguous to KAWC's existing Eastern Rockcastle water system and will be incorporated into KAWC's water system operations for that area. Moreover, KAWC employees in that area will have access to additional manpower in the form of existing KAWC employees who are serving other areas in the Commonwealth who will be readily available to assist when necessary. Additionally, Livingston's customers will receive the benefits from access to American Water's highly trained professionals in water treatment, compliance, and operations, supported by a central laboratory certified in 17 states, processing over 30,000 samples annually and collaborating with the USEPA on drinking water standards.

KAWC has been continuously providing water service to areas of the Commonwealth since 1882. Its continued operation of water facilities within the Commonwealth and across multiple Kentucky counties is evidence of its ability to provide reliable service to residential, commercial, and industrial customers.

b. As a subsidiary of American Water, KAWC has access to the equity and bond markets to obtain additional capital. KAWC can access lower cost capital through American Water Capital Corp., an American Water affiliate. Given their larger size and greater financial resources, American Water and KAWC are much better positioned to make significant, long-term investments required to provide quality water services to the community of Rockcastle County that Livingston currently serves. KAWC and its customers currently benefit from access to short-term loans, long-term borrowings, and cash management services at very competitive rates; rates that KAWC would not be able to obtain on its own. Through American Water, KAWC has access to public debt markets that provide lower all-in interest rates via lower credit spreads than can typically be achieved in the private placement market by a significantly smaller entity such as KAWC. American Water also achieves economies of scale by spreading debt issuance costs across all of its regulated subsidiaries rather than KAWC incurring issuance costs for stand-alone debt financing.

c. All of the officers and directors of KAWC have significant business and technical experience in the water utility business. As a result, they will be able to and will carry out Livingston's responsibility to render safe, adequate and proper utility service. Additionally, as part of American Water, KAWC has access to highly trained professionals who possess expertise in various specialized areas, whose background, experience and training are focused on water utility operations, and who exclusively support American Water's subsidiaries. Furthermore, the size of the American Water Works Service Company and the scope of its operations have enabled it to assemble a uniquely qualified group of professionals who, through the Service Company, have a platform for sharing their extensive knowledge, expertise, experience and best practices across the American Water system to the benefit of all of American Water's state-regulated utilities and their customers, including KAWC and its customers.

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8. Provide a detailed asset listing for the assets Kentucky-American will acquire from Livingston. At a minimum include description, acquisition date, cost basis (individually and totals by asset class and grand total), depreciation life, accumulated depreciation, and net book value.

Response:

Available detailed information regarding the assets in Livingston’s system is very limited. Kentucky American Water developed a list of assets primarily utilizing information from the Kentucky Infrastructure Authority’s Water Resource Information System. Information provided by Livingston primarily consisted of photos of hard copy GIS waterline mapping.

Asset information is provided in the first attachment to PSC 1-12. Requested information is provided in the columns of the attachment noted below.

- Description – Column B
- Acquisition Date – All assets will be acquired by Kentucky American Water on the date of sale.
- Cost Basis – Column Q
- Depreciation Life – Column N
- Accumulated Depreciation – Column P
- Net Book Value – Estimated original cost less depreciation (“OCLD”) values are provided in Column Q

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9. Explain whether and how Kentucky-American appraised Livingston as a going concern prior to and at the time it entered into the Agreement.

Response:

KAWC conducted visits to Livingston on December 19, 2024 and February 27, 2025 to meet city officials, do a site visit, and determine what pertinent system information was available. The attached memorandum describes what KAWC was able to identify during those initial visits and is KAW_R_PSCDR1_NUM009_120825_Attachment.

Subsequent follow-up communication occurred to address questions and request whether any additional information was available. Livingston shared what information they possessed, but the information provided was sparse.

Please also see the response to PSC 1-10.



March 12, 2025

Charlie Boland
Sr. Manager, Business Development
Kentucky American Water
2300 Richmond Road
Lexington, KY 40502

RE: Livingston Water and Wastewater Due Diligence

Dear Mr. Boland,

This letter summarizes the findings of due diligence investigation efforts for the water and wastewater systems of the City of Livingston, KY (Livingston). The findings include observations from the due diligence site visit we conducted on February 27, 2025. Photographs from that visit are provided in Appendix A.

Please note that limited information is available for the Livingston water and wastewater systems. Employees/officials of Livingston have provided little documentation regarding the state of the systems' finances and infrastructure. Additionally, the water and wastewater systems are not regulated by the Kentucky Public Service Commission (PSC), therefore no annual reports or rate case documents are available. Information from the due diligence site visit has primarily been supplemented with information from the Kentucky Infrastructure Authority's Water Resource Information System (WRIS). Information provided by Livingston during the due diligence visit was communicated orally without documentation and cannot be guaranteed to be accurate.

Water System

The following sections of this letter summarize key findings regarding Livingston's water system.

Overview

The Livingston water system (PWSID KY1020253), as shown in Figures 1 and 2, is located in Rockcastle County primarily within and immediately surrounding Livingston. There is also a 6" transmission main located south of Livingston along South Wilderness Road that conveys water from the neighboring Wood Creek Water District (Wood Creek) to the Livingston system.

Figure 1. Water System Overview

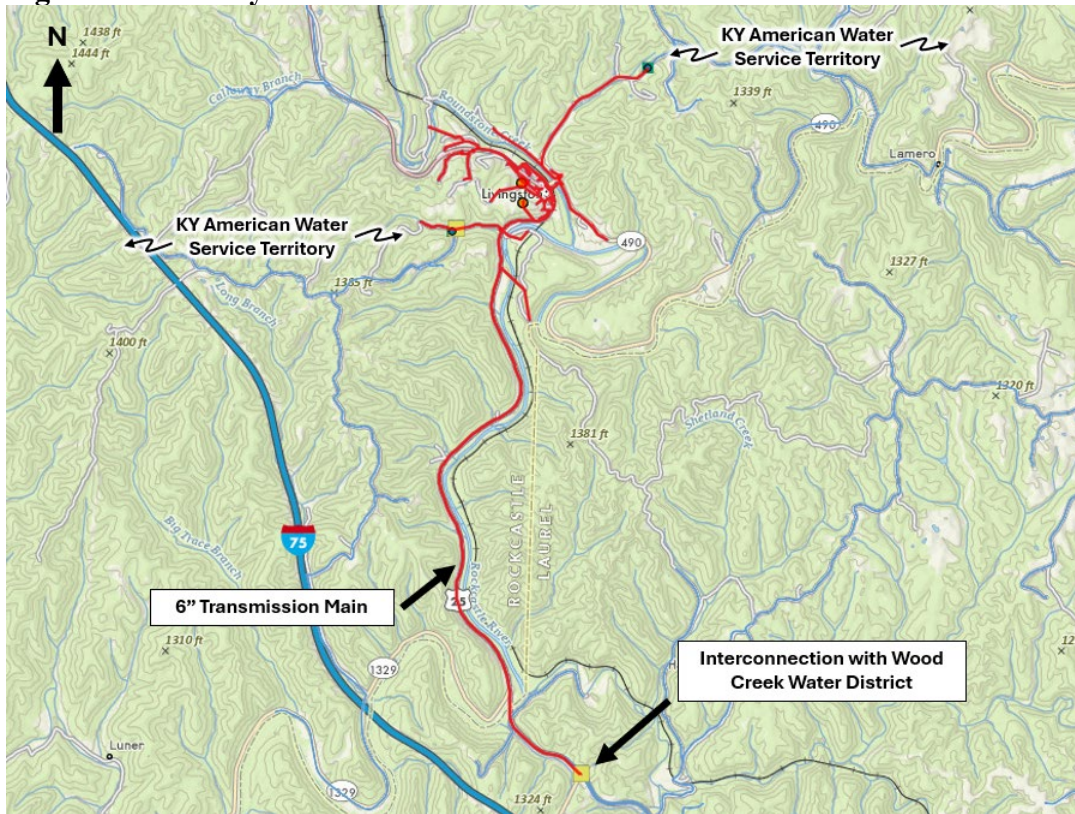
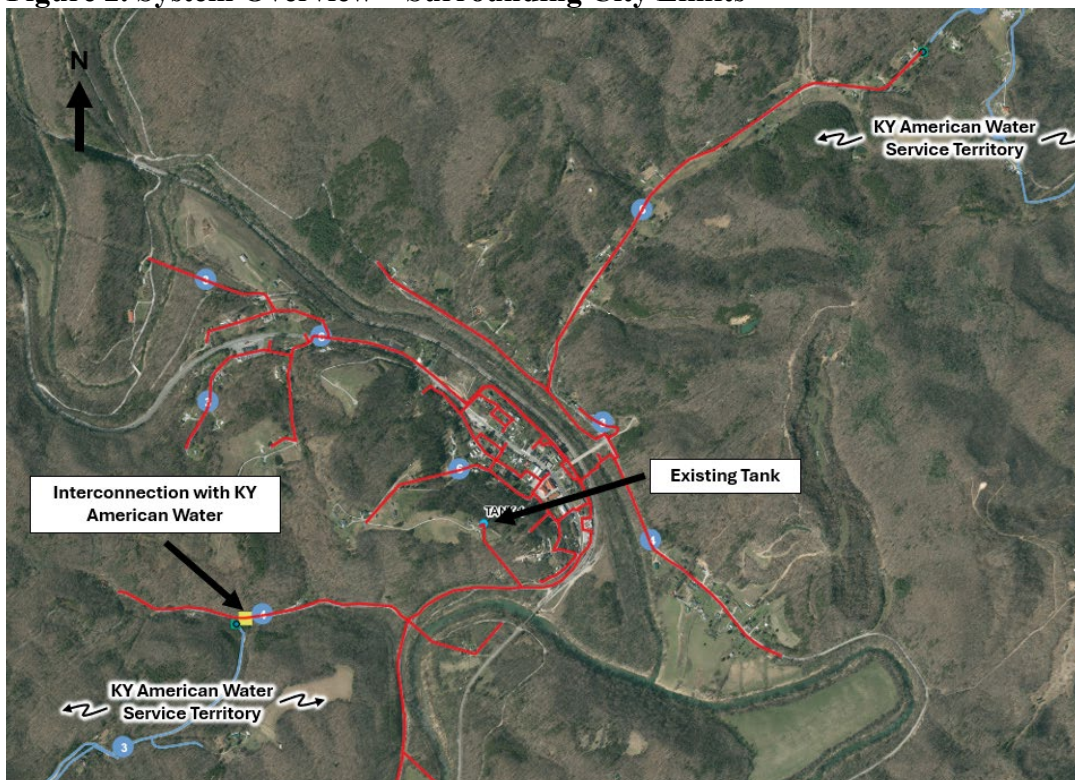


Figure 2. System Overview – Surrounding City Limits



During the due diligence visit, Livingston noted the water system provides service to 162 connections.

Infrastructure

As noted in the following table, the distribution system is primary small diameter PVC pipe installed in the 1990s.

Table 1. Water Main Summary

| Size (in.) | Material | Decade Installed | Length (LF) |
|------------|----------|------------------|-------------|
| 3 | PVC | 1990 | 5,468 |
| 3 | PVC | 2000 | 688 |
| 4 | PVC | 1990 | 11,310 |
| 6 | PVC | 1990 | 49,215 |
| 6 | Unknown | 1960 | 3,754 |
| Total | | | 70,435 |

The water system has no active pump stations. There is one inactive pump station (see photo 1 in Appendix A) that was formerly used to serve what is now Kentucky American Water's service area along Red Hill Road to the northeast of Livingston.

The water system does feature one storage tank. The tank, which was constructed in 2008, is a 128,000-gallon glass-lined steel standpipe (see photos 2-4 in Appendix A). It sits at a relative high point within the system and stands approximately 127' tall. The tank site features an altitude valve vault, although Livingston noted the altitude valve is currently not functional. Without a functioning altitude valve, an isolation valve must be closed manually to prevent the tank from overfilling. Livingston currently has a planned project to repair the altitude valve.

Livingston noted that the system's meter fleet is aging and all meters must be read manually. Additionally, they noted many meters are located in non-standard locations such as backyards.

The numbers of valves and hydrants within the system have not been provided. Livingston noted that all hydrants are public.

System Operation

The Livingston water system is supplied via purchased water from Wood Creek. Livingston purchases approximately 11.2 million gallons (MG) annually. A 6" transmission main conveys the purchased water from the Wood Creek interconnection north along South Wilderness Road to Livingston's customers. A pressure reducing valve (PRV) at the interconnection reduces pressures supplied to Livingston to approximately 80 psi.

This pressure from Wood Creek is sufficient to supply Livingston's standpipe tank. Water from the tank feeds the distribution system via gravity. There are areas of significant

elevation change within the Livingston system, so PRV's are used to reduce pressures where necessary.

Livingston indicated their non-revenue water is typically around 14%, although they noted a recent main break resulted in non-revenue water of approximately 45% for an extended period of time. Livingston uses manual flush points to maintain adequate chlorine residuals.

Livingston does not have SCADA/communication systems. There is also not a permanent staff member or licensed operator to operate the water system. A local resident assists with operating the system on a part-time basis. This individual's compensation arrangement is unclear.

Livingston does not have an in-house GIS system. The extent of their GIS data is presented on the WRIS portal.

Rates and Finances

Livingston's water rate structure is presented in Figure 3. The average water bill for Livingston's customers, assuming usage of 4,000 gallons/month, is calculated below.

- Inside City Limits: \$51.96
- Outside City Limits: \$53.64

Figure 3. Livingston Water Rates

| | |
|----------------------------|-------------------------------------|
| A. Water Rates | |
| <u>Water Usage</u> | |
| <u>Inside City Limits</u> | |
| First 2,000 Gallons | \$27.82 is now \$29.74 Minimum Bill |
| 2,001-999999 Gallons | \$11.11 per 1,000 Gallons |
| <u>Outside City Limits</u> | |
| First 2,000 Gallons | \$29.50 is now \$31.42 Minimum Bill |
| 2,000-999999 Gallons | \$11.11 per 1,000 Gallons |

Livingston has stated that the water system earns enough revenue to support the operation of the system, but minimal financial information was available. Livingston has been in debt for years to Wood Creek for unpaid purchased water costs. During the due diligence visit, Livingston stated they currently owe \$37,000 to Wood Creek. Livingston also stated they have an outstanding balance of approximately \$79,000 for a USDA loan.

Capital Investment

Based on preliminary observations, the following capital investments are likely needed for the Livingston Water System.

Table 2. Capital Improvement Summary

| Project | Description |
|---------------------------|--|
| Storage Tank Improvements | Replace the altitude valve and perform general maintenance. Livingston has been awarded \$157k in grant funding to complete this work. |
| Meter Replacements | Replace all meters within the system. The exiting meters are aging and must be manually read. |
| SCADA Installation | Install a SCADA system that allows for monitoring of tank levels. |
| Main Replacement | Replace aging/leaking PVC main. |

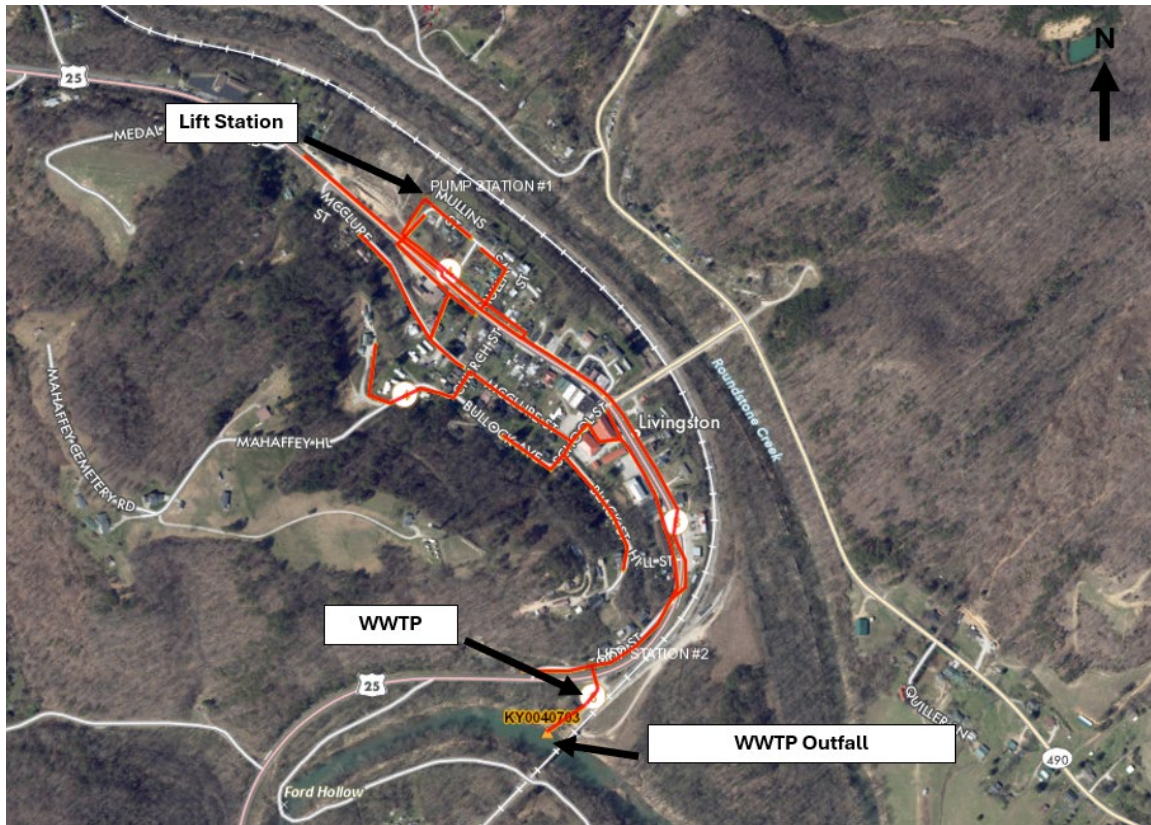
Wastewater System

The following sections of this letter summarize key findings regarding Livingston's wastewater system.

Overview

The Livingston wastewater system (PWSID #KY0040703) provides service to 83 connections primarily located within the city limits of Livingston. The extent of the system is shown in Figure 4.

Figure 4. Wastewater System Overview



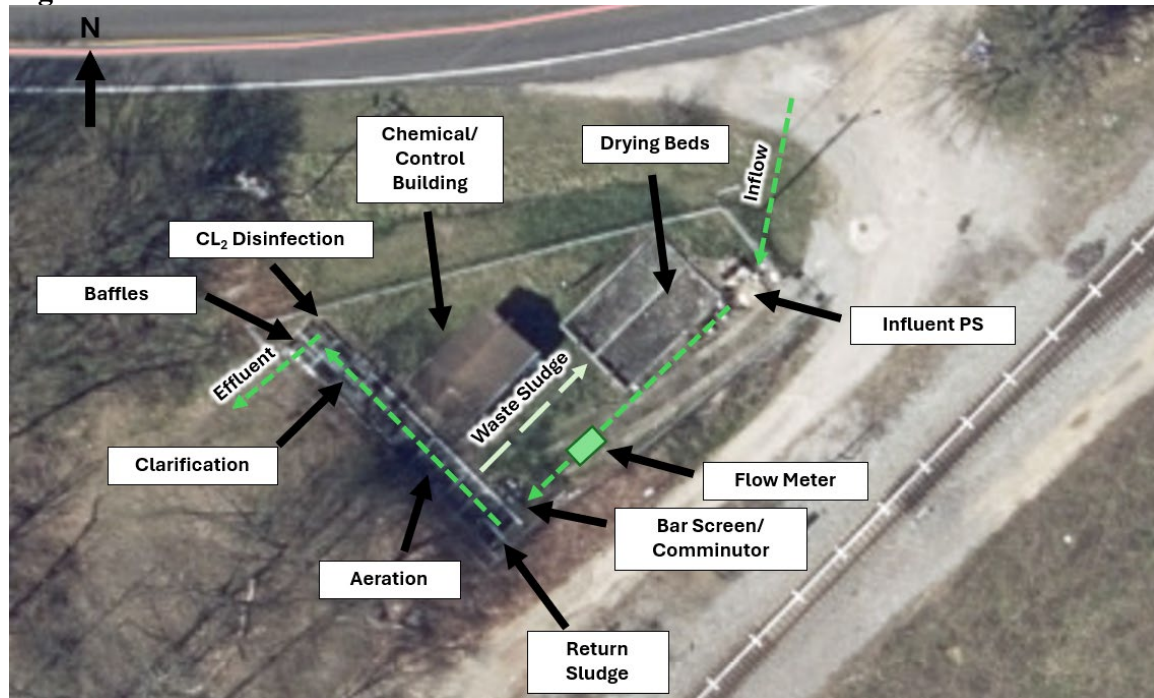
Infrastructure

GIS mapping on the WRIS portal indicates there are approximately 11,300 linear feet of pipe and 38 manholes within the collection system. This pipe is primarily 8" clay tile pipe installed in the mid-1970's with some limited areas of 4" clay tile and PVC pipe. The system's operator stated that while sanitary sewer overflows do not typically occur, the system suffers from significant inflow and infiltration (I/I).

There is one lift station within the collection system. A design capacity for the lift station was not provided, but it features two small, submersible pumps. The operator noted that one of the pumps is not operational. The pump station operates based on a float system within the wet well. Photos of this lift station are presented in photos 8-10 in Appendix A.

The collection system conveys sewage to a 40,000 gallon/day (gpd) package wastewater treatment plant (WWTP) located on the south side of Livingston. This WWTP has a permitted outfall on the Rockcastle River.

Figure 5. Wastewater Treatment Plant Overview



The WWTP, which was constructed in 1978, utilizes a traditional extended aeration process for treatment. Key components of the system and observed deficiencies are described below. Photos of the WWTP are provided in photos 11-22 in Appendix A.

- Influent Pump Station: Sewage from the collection system is conveyed to the wet well of an influent pump station. The pump station features two submersible pumps, one of which is not operational.
- Flow Meters: Flow meters measure flow conveyed from the influent pump station to the WWTP, as well as the effluent from the WWTP.

- Bar Screen/Comminutor: A bar screen provides mechanical removal of large solids/debris. The comminutor is not operational.
- Aeration Chamber: The southern portion of the WWTP is primary comprised of the aeration chamber.
- Aerators: The WWTP features two sets of aerators. One set of aerators is not operational.
- Clarification Chamber: A chamber on the north side of the WWTP provides clarification. Supernatant lines return water to the aeration chamber.
- Return Sludge: Return sludge lines convey sludge to a chamber on the south end of the WWTP. This chamber has aeration, but it is not operational. The WWTP operator noted that waste sludge typically just gets washed out of the plant during large wet weather events.
- Drying Beds: Waste sludge from the return sludge chamber can be conveyed to drying beds, although these drying beds are in disrepair and have not been used in many years.
- Chlorine Disinfection: Chlorine is fed from the chemical building to the north end of the WWTP.
- Discharge: Effluent is routed through a series of baffles and treated with sulfur tablets prior to discharging to the river.
- Control/Chemical Building: This building houses a chlorine tank and feed system, as well as monitoring equipment for the influent and effluent flow meters.

The WWTP operator stated that average dry weather flow to the WWTP is approximately 15-20,000 gpd, while wet weather events can result in 250-300,000 gpd of sewage being conveyed to the WWTP. The operator also noted that the WWTP has experienced flooding on multiple occasions.

Rates

Livingston's wastewater rate structure is presented in Figure 6. The average monthly wastewater bill for Livingston's customers, assuming usage of 4,000 gallons/month, is \$28.50.

Figure 6. Livingston Water Rates

| <u>Sewer Usage</u> | |
|---------------------|--------------------------|
| First 2,000 Gallons | \$17.50 Minimum Bill |
| Next 5,000 Gallons | \$5.50 per 1,000 Gallons |
| Next 3,000 Gallons | \$4.30 per 1,000 Gallons |
| Next 10,000 Gallons | \$3.60 per 1,000 Gallons |

Capital Investment

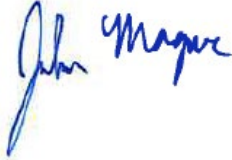
In general, the WWTP is in extreme disrepair and many pieces of equipment are not operational. It has also exceeded the typical design life of a package WWTP. Based on these observations, the WWTP likely needs to be replaced.

Significant pipe/manhole rehabilitation is also likely needed to reduce the I/I in the collection system.

Conclusion

If KAW elects to proceed with an acquisition of Livingston's water and/or wastewater systems, KAW may wish to verify key information presented in this due diligence letter. Please let me know if you have any questions.

Thank you,

A handwritten signature in blue ink, appearing to read "John Magner". The signature is fluid and cursive, with the first name "John" and last name "Magner" clearly distinguishable.

John Magner, PE
Sr. Engineering Manager

APPENDIX A

PHOTO LOG

PHOTO LOG

Photo #1

Caption: Inactive pump station



Photo #2

Caption: Storage tank



PHOTO LOG

Photo #3

Caption: Storage tank



Photo #4

Caption: Storage Tank



PHOTO LOG

Photo #5

Caption: Tank altitude valve vault



Photo #6

Caption: Tank altitude valve vault



PHOTO LOG

Photo #7

Caption: Tank isolation valve vault



Photo #8

Caption: Wastewater lift station



PHOTO LOG

Photo #9 Caption: Wastewater lift station controls



Photo #10 Caption: Wastewater lift station wet well



PHOTO LOG

Photo #11

Caption: WWTP Influent pump station



Photo #12

Caption: WWTP Influent pump station wet well



PHOTO LOG

Photo #13

Caption: WWTP drying beds



Photo #14

Caption: Bar screen and comminutor



PHOTO LOG

Photo #15

Caption: WWTP influent flow meter



Photo #16

Caption: South end of WWTP



PHOTO LOG

Photo #17

Caption: WWTP aeration chamber



Photo #18

Caption: WWTP aeration chamber



PHOTO LOG

Photo #19

Caption: Aerator



Photo #20

Caption: WWTP clarification chamber



PHOTO LOG

Photo #21

Caption: Disinfection/baffles/sulfur tablet feed



Photo #22

Caption: WWTP chlorine storage tank



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Witness: William A. Lewis, John Magner

10. Provide a copy of all studies, reports, or related analyses of appraisals or valuations of Livingston as a going concern conducted by or caused to be conducted by Kentucky-American.

Response:

While there are several potential means of valuation and appraisal, in this instance, KAWC has focused on an estimated “original cost less depreciation (“OCLD”) analysis to assess the value of Livingston’s assets. See the attachment 1 to PSC 1-12 for that analysis. As part of its purchase price considerations, KAWC also considered the investments it will need to make in the Livingston system going forward. For those investments, please see KAWC’s response to PSC 1-23. The agreed-upon purchase price was the result of an arm’s length transaction.

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Witness: William A. Lewis

11. Provide any acquisition related due diligence communications between Kentucky-American and Livingston.

Response:

Please see attached KAW_R_PSCDR1_NUM011_120825_Attachment.



LIVINGSTON MUNICIPAL WATER WORKS
LIVINGSTON WASTEWATER TREATMENT PLANT

9226 MAIN STREET, SUITE 3
LIVINGSTON, KENTUCKY 40445

P.O. BOX 654
LIVINGSTON, KENTUCKY 40445

606-453-2061

BID PACKAGE

Bid Form

LIVINGSTON MUNICIPAL WATER WORKS & WASTEWATER TREATMENT PLANT

LOCATIONS:

Livingston Wastewater Treatment Plant – 9487 Main Street, Livingston, Kentucky 40445

Sewer Lift Station – In the curve of Mullins Street, behind Marathon Gas Station

Water Tower – On or about 325 Mahaffey Hill Road, Livingston, Kentucky 40445

Water Lines – In & Out of City Limits, a full customer list will be provided upon winning bid

REFERENCE:

| | |
|--|---------|
| Legal Advertisements posted to Facebook and in the Mount Vernon Signal | Pg. 2 |
| Responsible Bidder Information Form | Pg. 3 |
| Bidding Information | Pg. 4-5 |
| Bidder Acknowledgement Form | Pg. 6 |
| Certificate of Availability of Funds | Pg. 7 |

Attach the bid you / your company has prepared with the above documents and place in a sealed envelope with "Sealed Bid" on the outside and hand deliver to City Hall or mail to P.O. Box 654, Livingston, Kentucky 40445.

INTENT TO SELL AD:

Bid of Sales for Livingston Municipal Water Works System:

To Whom It May Concern:

The City of Livingston is posting its intent to sell the entirety of Livingston Municipal Water Works and Livingston Wastewater Treatment Plant.

Bidding will open on Wednesday, August 6th, 2025, at 9 AM and commence on Friday, August 15th at 4:30 PM, where sealed bids will be opened during a special-called meeting.

Sealed Bids may be hand-delivered to the City of Livingston City Hall, located at 9226 Main Street, Suite 3, Livingston, KY 40445, or mailed to P.O. Box 654, Livingston, KY 40445. All bids must be marked on the envelope with the words "Sealed Bid" and specifications of your bid included.

A comprehensive package of bidding documents may be located in City Hall, and requests for documentation can be made by calling 606-453-2061 or emailing

[REDACTED] The same may be contacted for any questions or concerns.

The City of Livingston reserves the right to reject bids outside of contractual agreements, bidders incapable of owning and operating a water and/or wastewater system, bids that are lower than the minimum bidding threshold, and any other cause that violates KRS guidelines.

ACCEPTANCE OF BIDS AD:

Bid of Sales for Livingston Municipal Water Works System:

To Whom It May Concern:

The City of Livingston is accepting bids for the entirety of Livingston Municipal Water Works and Livingston Wastewater Treatment Plant.

Bidding will open on Wednesday, August 6th, 2025, at 9 AM and commence on Friday, August 15th at 4:30 PM, where sealed bids will be opened during a special-called meeting.

Sealed Bids may be hand-delivered to the City of Livingston City Hall, located at 9226 Main Street, Suite 3, Livingston, KY 40445, or mailed to P.O. Box 654, Livingston, KY 40445. All bids must be marked on the envelope with the words "Sealed Bid" and specifications of your bid included.

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RESPONSIBLE BIDDER INFORMATION FORM

Attach additional sheets as needed

Company Name:

Company Address:

Company Telephone Number (w/Area Code):()

Company E-Mail Address:

Number of Years in Business:

Federal Tax ID No:

Contact Person's Name & Title:

Indicate all occurrences of the following in the last 4 years (if none, so state). For verification, attach documentation, and/or provide sufficient and appropriate detailed information such as:

Project Name:

Owner:

Contact Person:

Telephone Number:

A. Contract abandonment or contract termination

B. Debarment by state, federal or local jurisdiction

I hereby certify that the information above is factual and complete.

Company Name

Authorized Official (please print or type)

Signature of Authorized Official Date:

BIDDING INFORMATION:

- I. All sealed bids made about the Livingston Municipal Water Works and the Livingston Wastewater Treatment Plant are for at least the following:
 - i. All water and sewer lines that currently belong to Livingston Municipal Water Works and Livingston Wastewater Treatment Plant.
 - ii. All easements associated with water and sewer lines currently owned by Livingston Municipal Water Works and Livingston Wastewater Treatment Plant.
 - iii. All inventory, both in ground and in storage, currently owned by Livingston Municipal Water Works and Livingston Wastewater Treatment Plant.
 - iv. The water tower currently owned and operated by Livingston Municipal Water Works.
 - v. The sewer lift station in operation on Mullins Street, along with all materials owned by Livingston Wastewater Treatment Plant at the lift station.
 - vi. The entirety of the Livingston Wastewater Treatment Plant.
 - vii. Access to all manholes necessary to operate the water and wastewater systems.
 - viii. Access to copies of any documentation regarding customers' addresses and contact information of Livingston Municipal Water Works and Livingston Wastewater Treatment Plant when requested.
 - ix. Access to all documentation of service lines, maps, and main lines, currently in possession of Livingston Municipal Water Works and Livingston Wastewater Treatment Plant, when requested.
 - x. Access to all documentation regarding the Division of Water and the Environmental Protection Agency when requested.
 - xi. The right to operate Livingston Municipal Water Works and Livingston Wastewater Treatment Plant, so long as the entities are absolved as your own.
- II. The City of Livingston has the right to the following:
 - i. The right to reject bids outside of contractual agreements already in place.
 - ii. The right to reject bids placed by an individual or business incapable of owning and lawfully operating a water and/or wastewater system in compliance with the Division of Water and Environmental Protection Agency.
 - iii. The right to reject bids that are lower than the minimum bidding threshold set by the Livingston Commission.
 - iv. The right to reject any bid that violates KRS laws and guidelines, the city or municipality must follow.
 - v. The right to negotiate shall apply if the bids received are unreasonable in price.
 - vi. The right to negotiate shall apply if there is no response to the invitation to bid.
- III. Bidding Process:

- i. Bidding will commence on August 6th, 2025, at 9 AM and end on August 15th at 4:30 PM.
- ii. All bids may be delivered in person to City Hall at 9226 Main Street, Livingston, Kentucky 40445, or mailed to P.O. Box 654, Livingston, Kentucky 40445.
- iii. All bids must be marked "Sealed Bid".
- iv. On August 15th at 4:30 PM, all sealed bids will be opened during the Commission meeting, where the commissioners will vote to accept the winning bid.
- v. The winning bid will be determined by what is in the best interest, not the lowest bid amount.
- vi. KRS 45A.365 section six may be referenced for the withdrawal of bids.
- vii. Shall a KRS differ from the requests made in this bid proposal, the KRS shall apply for that section.
- viii. All questions and requests for documentation can be made by calling 606-453-2061 or emailing [REDACTED]
- ix. Once the bid is accepted, the party will be notified immediately.
- x. A formal meeting between the City of Livingston and the winning party must be scheduled within fourteen days to begin the legal process of transferring ownership.
- xi. The bid amount must be paid in full at the time the contract is signed.

The requests made in section one of the Bid Form by the City of Livingston, owner of Livingston Municipal Water Works and Livingston Wastewater Treatment Plant, are the minimum requirements for bids. Bids with stipulations and requests that exceed the above-mentioned items will be reviewed and are encouraged. The Bid Form is a guideline. A copy of the KRS codes 45A.425 and 45A.365 will be included in the bid package.

BIDDER ACKNOWLEDGMENT FORM

The undersigned hereby attests that the information provided to the CITY OF LIVINGSTON COMMISSION pertaining to the bid for the purchase of Livingston Municipal Water Works and Livingston Wastewater Treatment Plant is true and accurate to the best of his/her knowledge, that he/she has read and understands the conditions of bidding and the equipment, material, and specifications provided, and has complied with those conditions and tailored his/her bids to the specifications provided. The undersigned further understands that he/she may not change, alter, modify, or withdraw his/her bid, except as expressly permitted by law, pursuant to KRS 45A.365 section six.

Signature

Printed or Typed Name

Company Name

Title of Individual Signing

Date

CERTIFICATE OF AVAILABILITY OF FUNDS

Based on the nature of the sale of Livingston Municipal Water Works and Livingston Wastewater Treatment Plant, I understand that payment for the acquisition of the businesses and all related materials is due in a prompt manner. By signing this Certificate of Availability of Funds, I attest that the bid amount of _____ dollars and _____ cents is available or will be available to me within thirty days of execution of the contract between the City of Livingston and _____.

TITLE -

45A.425 Surplus or excess property.

- (1) A local public agency may sell or otherwise dispose of any personal property which is not needed or has become unsuitable for public use, or which would be suitable, consistent with the public interest, for some other use.
- (2) A written determination as to need of suitability of any personal property of the local public agency shall be made; and such determination shall fully describe the personal property; its intended use at the time of acquisition; the reasons why it is in the public interest to dispose of the item; and the method of disposition to be used.
- (3) Surplus or excess personal property as described in this section may be transferred, with or without compensation, to another governmental agency; or it may be sold at public auction or by sealed bids in accordance with KRS 45A.365.
- (4) In the event that a local public agency receives no bids for surplus or excess personal property, either at public auction or by sealed bid, such property may be disposed of, consistent with the public interest, in any manner deemed appropriate by the local public agency. In such instances, a written description of the property, the method of disposal, and the amount of compensation, if any, shall be made. Any compensation resulting from the disposal of surplus or excess personal property shall be transferred to the general fund of the local public agency.
- (5) A local board of education may dispose of its surplus technology in accordance with KRS 160.335.
- (6) As an alternative procedure to that set out in this section, a county may dispose of personal property pursuant to KRS 67.0802.
- (7) Notwithstanding subsections (1) to (4) of this section, a city, urban-county government, or consolidated local government that has adopted KRS 45A.345 to 45A.460 may dispose of surplus property using the procedures in KRS 82.083.

Effective: June 27, 2019

History: Amended 2019 Ky. Acts ch. 59, sec. 1, effective June 27, 2019; and ch. 69, sec. 2, effective March 25, 2019. -- Amended 2008 Ky. Acts ch. 14, sec. 2, effective July 15, 2008. -- Amended 1984 Ky. Acts ch. 199, sec. 1, effective July 13, 1984. -- Created 1978 Ky. Acts ch. 110, sec. 86, effective January 1, 1980.

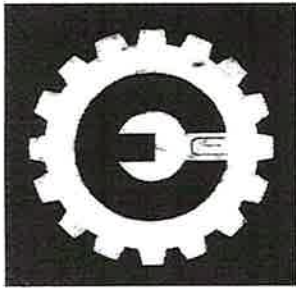
Legislative Research Commission Note (6/27/2019). This statute was amended by 2019 Ky. Acts chs. 59 and 69, which do not appear to be in conflict and have been codified together.

45A.365 Competitive sealed bidding.

- (1) All contracts or purchases shall be awarded by competitive sealed bidding, which may include the use of a reverse auction, except as otherwise provided by KRS 45A.370 to 45A.385 and for the purchase of wholesale electric power by municipal utilities as provided in KRS 96.901(1).
- (2) The invitation for bids shall state that the award shall be made on the basis of the lowest bid price or the lowest evaluated bid price. If the latter is used, the objective measurable criteria to be utilized shall be set forth in the invitation for bids. The invitation for bids shall include the reciprocal preference for resident bidders described in KRS 45A.494.
- (3) Adequate public notice of the invitation for bids and any reverse auction shall be given prior to the date set forth for the opening of bids. The notice may include posting on the Internet or publication in a newspaper of general circulation in the local jurisdiction at least seven (7) days before the date set for the opening of the bids and any reverse auction. Nothing in this section shall prohibit additional notice, posting, or publication, nor shall additional notification, posting, or publication extend the required notice period. The public notice shall include the time and place the bids will be opened and the time and place where the specifications may be obtained.
- (4) The bids shall be opened publicly or entered through a reverse auction at the time and place designated in the invitation for bids. Each written or reverse auction bid, together with the name of the bidder, shall be recorded and be open to public inspection. Electronic bid opening and posting of the required information for public viewing shall satisfy the requirements of this subsection.
- (5) A contract shall be awarded with reasonable promptness by written notice to the responsive and responsible bidder whose bid is either the lowest bid price or the lowest evaluated bid price after the application of any reciprocal preference for resident bidders required by KRS 45A.494.
- (6) The local public agency may allow the withdrawal of a bid where there is a patent error on the face of the bid document, or where the bidder presents sufficient evidence, substantiated by bid worksheets, that the bid was based upon an error in the formulation of the bid price.

Effective: June 25, 2013

History: Amended 2013 Ky. Acts ch. 44, sec. 2, effective June 25, 2013. -- Amended 2010 Ky. Acts ch. 63, sec. 7, effective July 15, 2010; and ch. 162, sec. 12, effective July 15, 2010. -- Amended 2000 Ky. Acts ch. 510, sec. 2, effective July 14, 2000. -- Amended 1998 Ky. Acts ch. 120, sec. 13, effective July 15, 1998. -- Created 1978 Ky. Acts ch. 110, sec. 74, effective January 1, 1980.



COMPLETE RESTORATION, LLC

Paint, Repair and Construction Services

P.O. Box 282 Henderson, KY 42419

PHONE:



FAX:



Livingston Municipal Waterworks

9246 Main Street

Livingston, KY 40445

Name of Tank: Standpipe Tank

Date of Inspection: 12/10/2020

127,000 Gallon S.P.T.

Mr. Bryan Mahaffey

Water Manager

(606) 308-5533

Contract #: 2067

If you would like to speak with someone concerning this report, call





Livingston Municipal Waterworks 127,000 Gallon S.P.T.

Introduction

This is a report of the general conditions found by Complete Restoration, LLC during an inspection which took place for Livingston Municipal Waterworks on 12/10/2020.

The findings from our inspection are identified, and conditions are noted as visible at the time of inspection.

The overall structural integrity or estimated life span calculation is not part of this service. If a structural analysis is needed, we shall utilize a licensed engineer from the territory in which the structure is located to preform such need.

Items not sited with codes or standards should be considered on "preventive maintenance" basis. Preventive maintenance is defined as regularly scheduled inspections, tests, servicing, repairs, replacements, and other tasks intended to reduce the frequency and impact of equipment failures. Your Complete Restoration, LLC account manager can discuss these items more in depth upon request.

Commonly cited standards and codes used in this document are from and owned by the following agencies. When a standard is cited it is identified in RED and the standards shall be *italicize*.

NFPA (National Fire Protection Association)

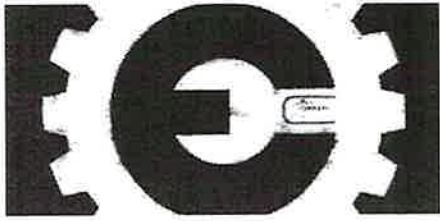
<https://www.nfpa.org/>

AWWA (American Water Works Association)

<https://www.awwa.org/>

OSHA (Occupational Safety and Health Administration)

<https://www.osha.gov/>



**Livingston Municipal Waterworks
127,000 Gallon S.P.T.**



Photo shows the condition of the tank foundation.

We recommended to seal the foundation with a sealant on preventative maintenance basis.



Livingston Municipal Waterworks 127,000 Gallon S.P.T.

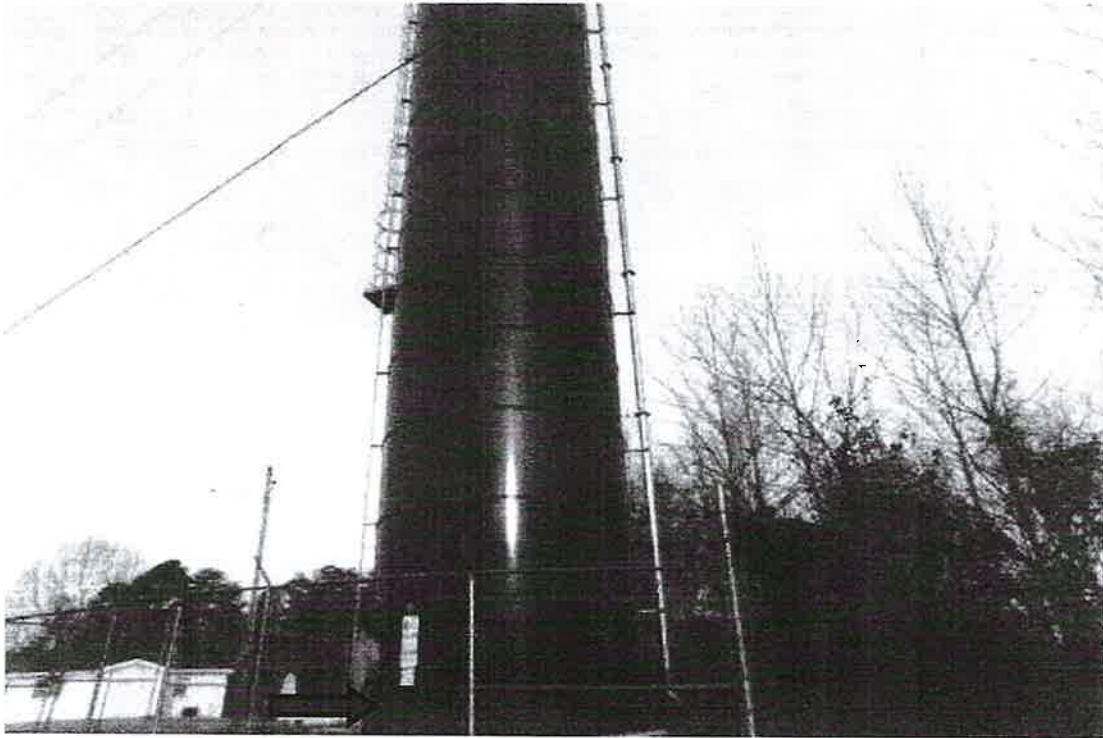
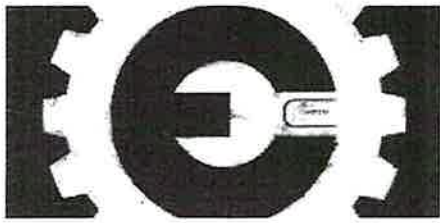


Photo shows more of the condition of the tank. Notice the tank is not electrically grounded for lightning protection. **NFPA 22-2018 Sec. 4.9** states *"To prevent lightning damage to tanks. Protection shall be installed in accordance with NFPA 780."*

We recommend electrically grounding the tank for lightning protection.



**Livingston Municipal Waterworks
127,000 Gallon S.P.T.**

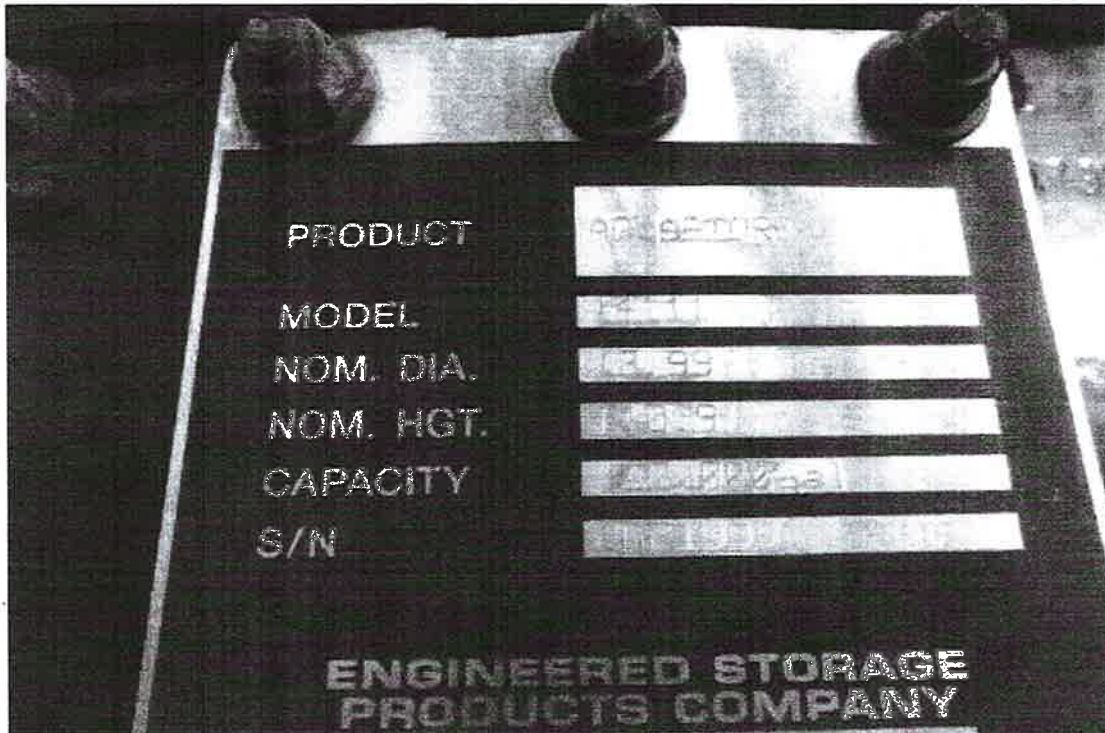
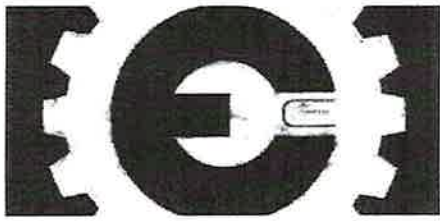


Photo shows the tank name plate.



Livingston Municipal Waterworks 127,000 Gallon S.P.T.

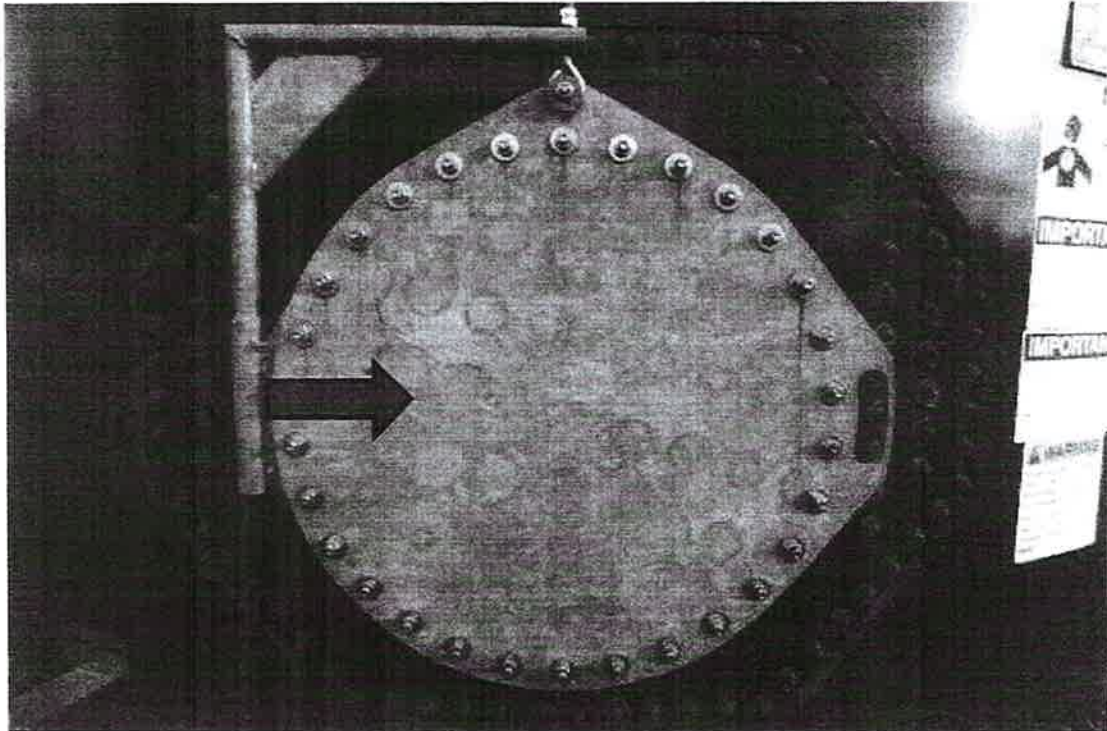


Photo shows the condition of the existing 24" shell manway. The tank is currently only equipped with one shell manway. **OSHA 1910.146(c)(2)** states "If the workplace contains permit spaces, the employer shall inform exposed employees, by posting danger signs or by any other equally effective means, of the existence and location of and the danger posed by the permit spaces. NOTE: A sign reading **DANGER -- PERMIT-REQUIRED CONFINED SPACE, DO NOT ENTER** or using other similar language would satisfy the requirement for a sign."

We recommend to:

Post **Permit Required-Confined Space Entry** sign.



**Livingston Municipal Waterworks
127,000 Gallon S.P.T.**

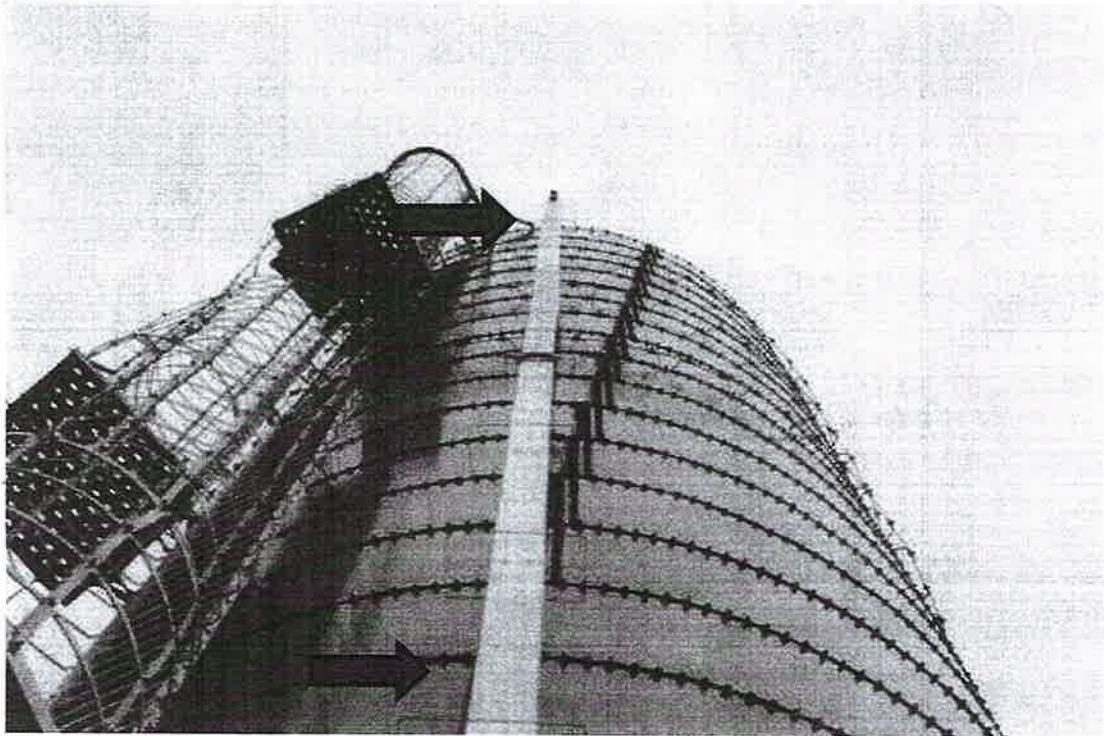
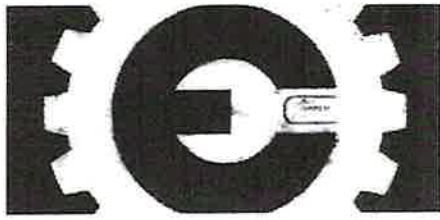


Photo shows the condition of the liquid level indicator. Notice the target board is no longer legible and the board needs to be recovered.

We recommend to:

Clean, lubricate all moving parts and test the unit.
Resurface the target board with new numbers from manufacture.



Livingston Municipal Waterworks 127,000 Gallon S.P.T.

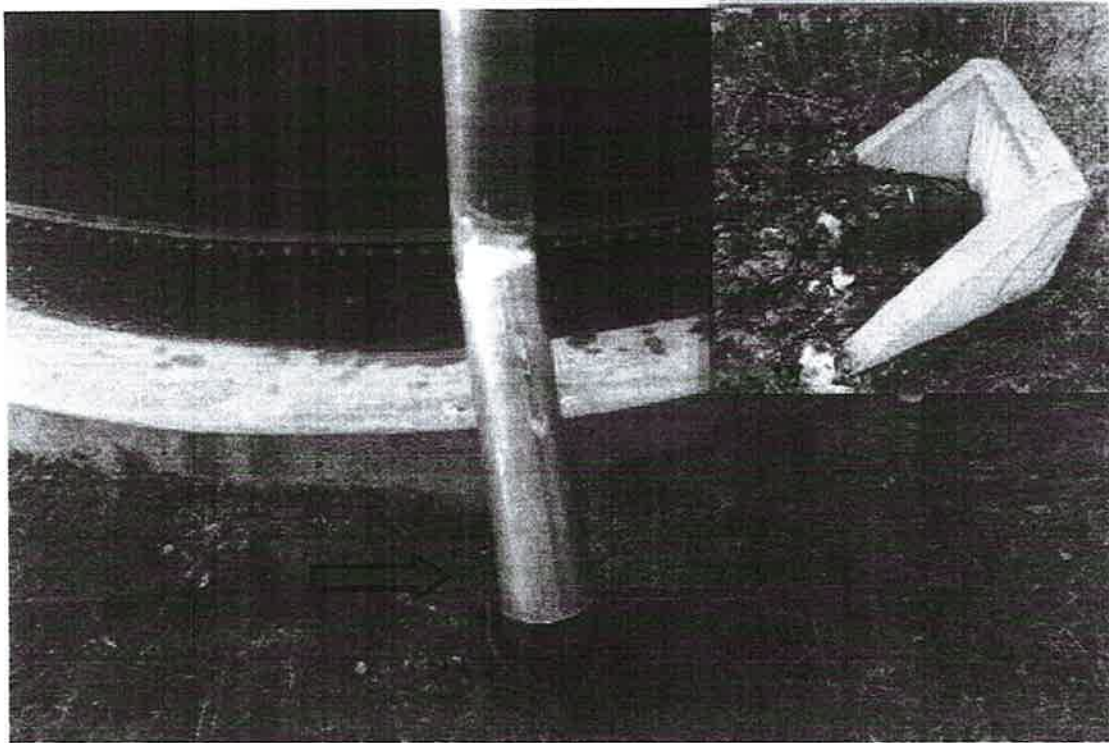


Photo shows the existing overflow pipe. Notice the overflow extends to grade and is connected to a underground drain system. The overflow is not equipped with an air break. **AWWA D100-11** states *"A drainage-inlet structure or suitable erosion protection should be provided to receive discharge from the tank overflow. The overflow should not be connected directly to a sewer or a storm drain without an air brake."*

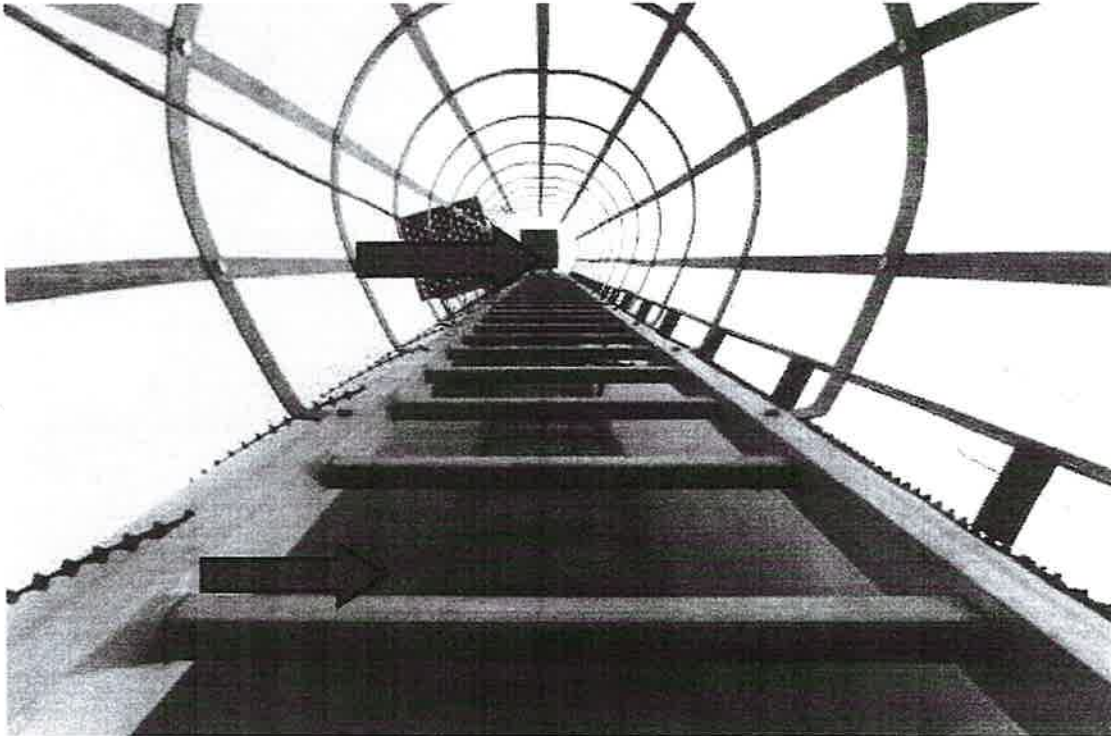
We recommend to:

- Install a 12" air break.
- Install a flapper valve and screen.
- Install a 4' x 6' splash pad to direct water into drain.

This repair should be done on EMERGE CNY BASIS.



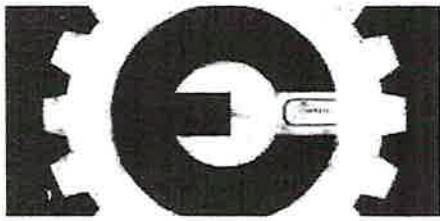
Livingston Municipal Waterworks 127,000 Gallon S.P.T.



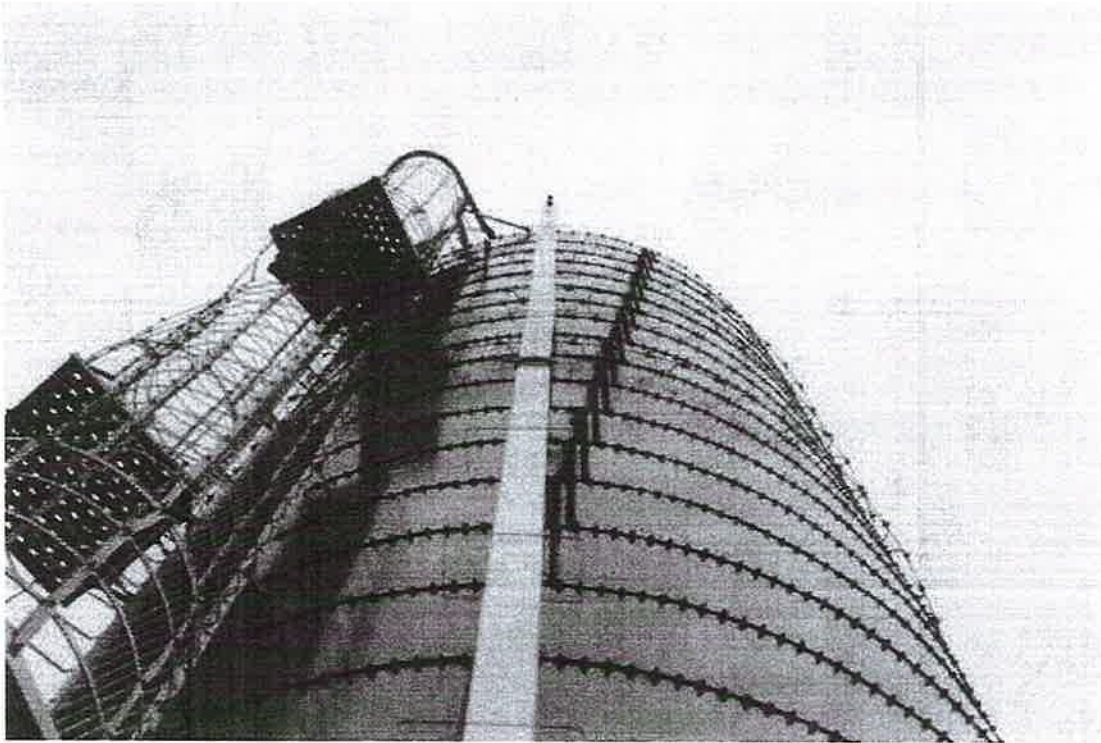
Shell ladder in above photo is equipped with anti-skid rungs but is not equipped with a safety climb device. **OSHA 1917.118(e)(1)** states *"Fixed ladders more than 20 feet (6.1 m) in height shall be provided with a cage, well, or ladder safety device."*

We recommend to:

- Install a cable type ladder safety device.
- Install a **Fall Protection Required** sign at base of ladder.



**Livingston Municipal Waterworks
127,000 Gallon S.P.T.**



Shell access ladder in above photo is equipped with (4) ladder platforms. The platforms are not equipped with swing gates or safety chains. **OSHA 1910.23(a) (2)** states *"Every ladderway floor opening or platform shall be guarded by a standard railing with standard toeboard on all exposed sides (except at entrance to opening), with the passage through the railing either provided with a swinging gate or so offset that a person cannot walk directly into the opening."*

We recommend to:

Install a swing gate at the opening of each platform. X 4
Post a **Fall Protection Required** sign at the base of ladder.



Livingston Municipal Waterworks 127,000 Gallon S.P.T.

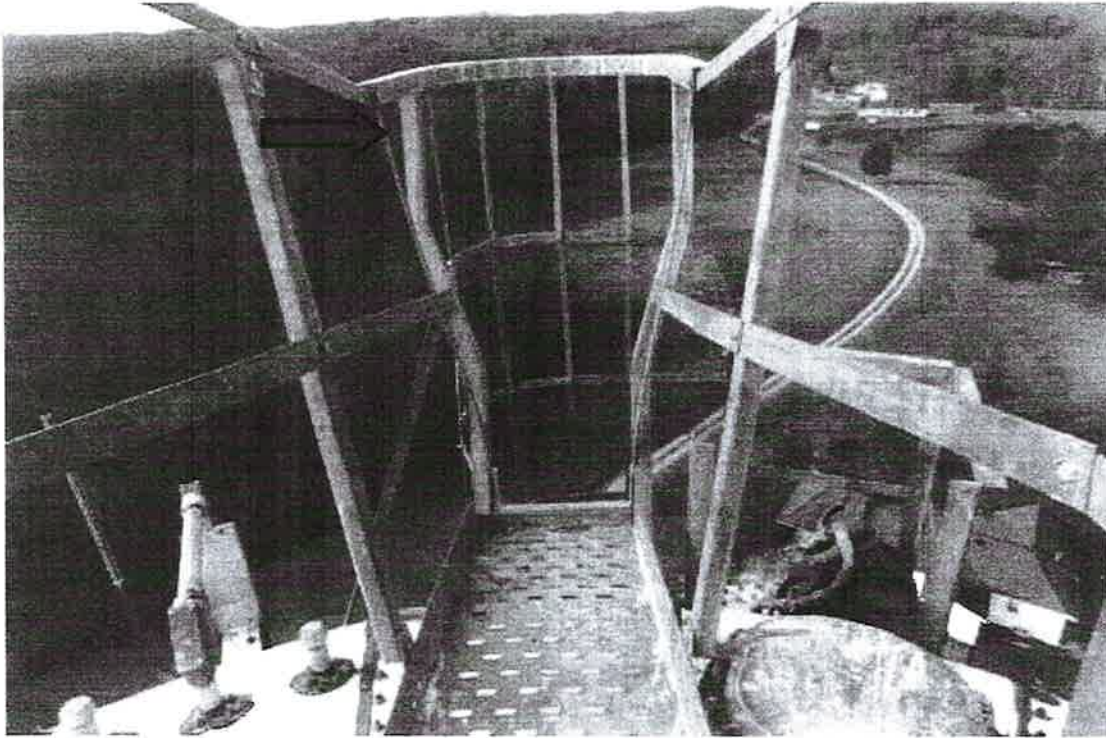


Photo shows the tank roof edge to access ladder is not properly guarded for fall protection. **OSHA 1910.21 (a) (1)** states *"Every open-sided floor or platform 4 feet or more above adjacent floor or ground level shall be guarded by a standard railing (or the equivalent as specified)."*

We recommend installing a swing gate at the ladder opening.



**Livingston Municipal Waterworks
127,000 Gallon S.P.T.**

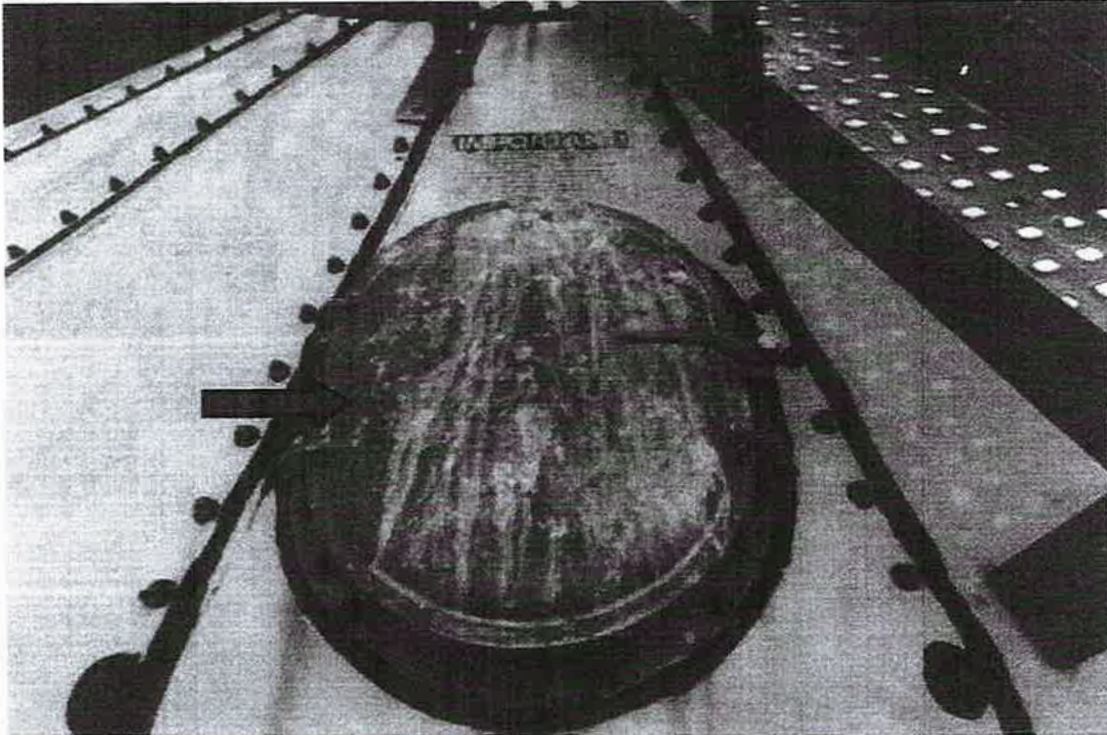
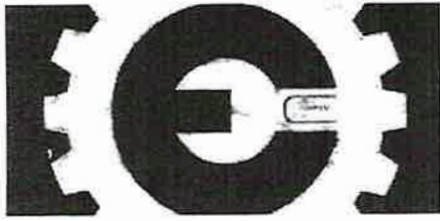


Photo shows the condition of the roof hatch. OSHA 1910.146(c)(2) states "If the workplace contains permit spaces, the employer shall inform exposed employees, by posting danger signs or by any other equally effective means, of the existence and location of and the danger posed by the permit spaces. NOTE: A sign reading **DANGER -- PERMIT-REQUIRED CONFINED SPACE, DO NOT ENTER** or using other similar language would satisfy the requirement for a sign."

We recommend to install a **Permit Required-Confined Space Entry** sign.



**Livingston Municipal Waterworks
127,000 Gallon S.P.T.**

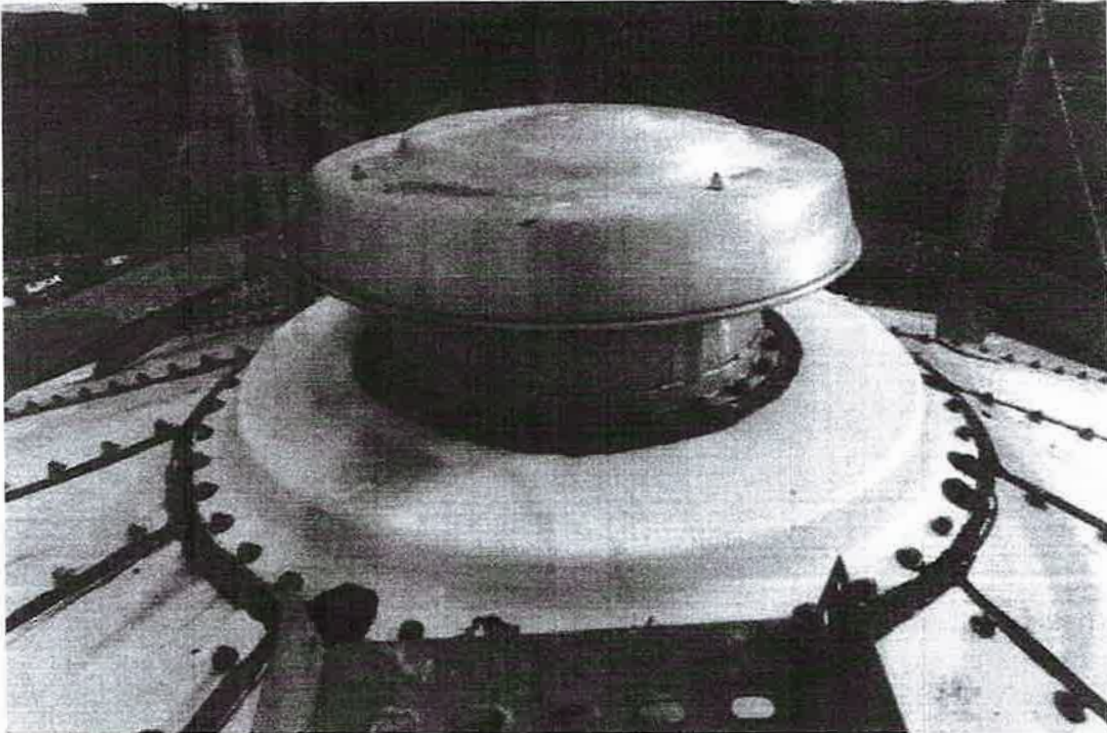
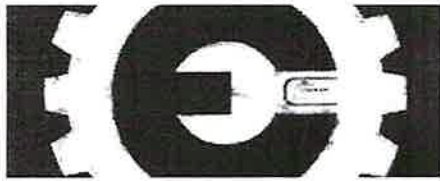
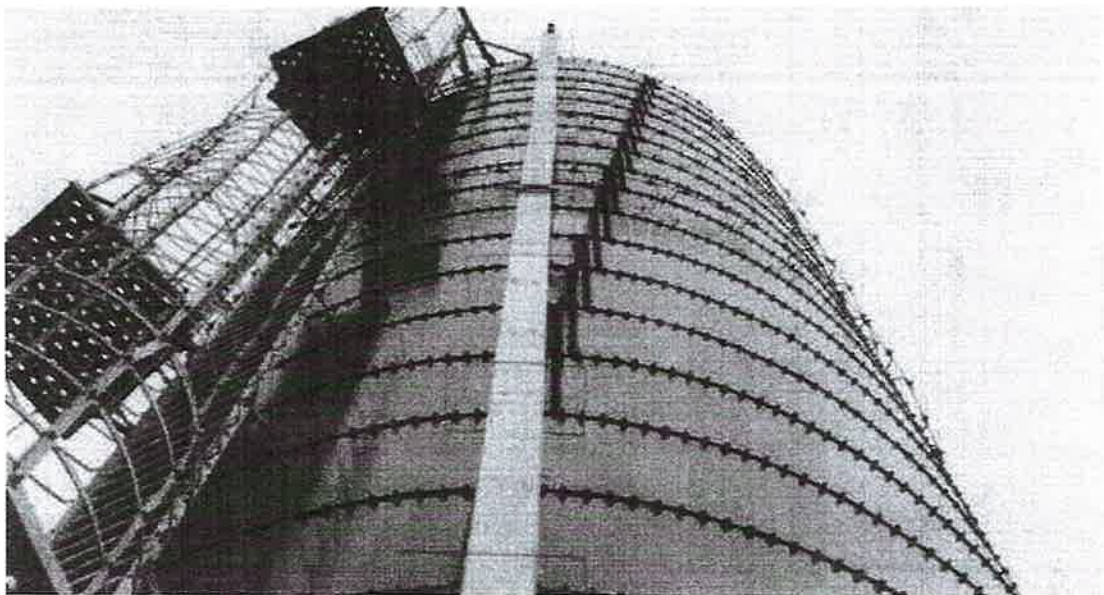
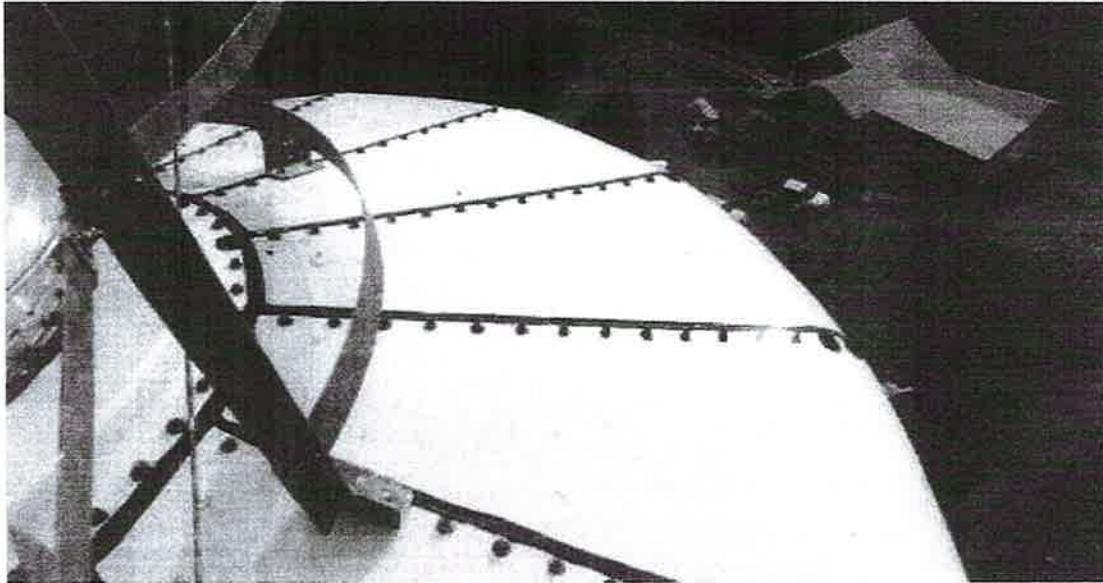


Photo shows the condition of the existing roof vent. The vent is in good condition and in compliance with all known standards



Livingston Municipal Waterworks 127,000 Gallon S.P.T.

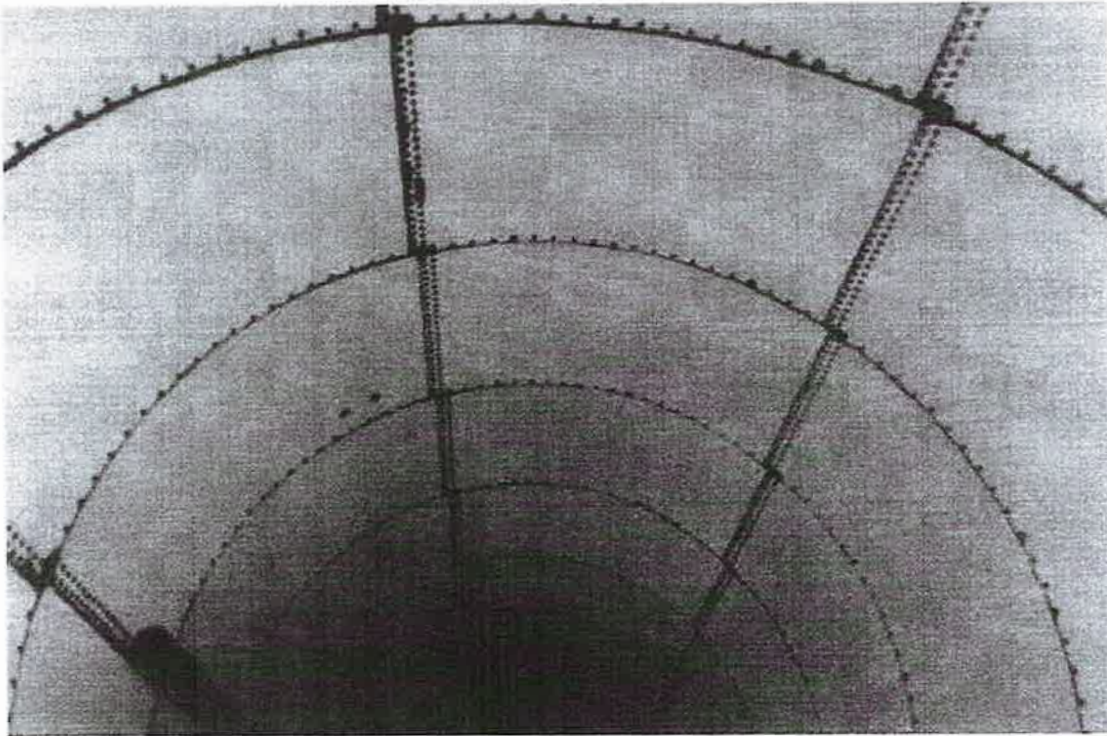


Photos show the tank exterior coating system.

We recommend pressure washing the tank exterior with biodegradable detergent (max 3,500 psi) to remove silt and bird fecal matter.



**Livingston Municipal Waterworks
127,000 Gallon S.P.T.**



Interior is not equipped with an access ladder.



**Livingston Municipal Waterworks
127,000 Gallon S.P.T.**

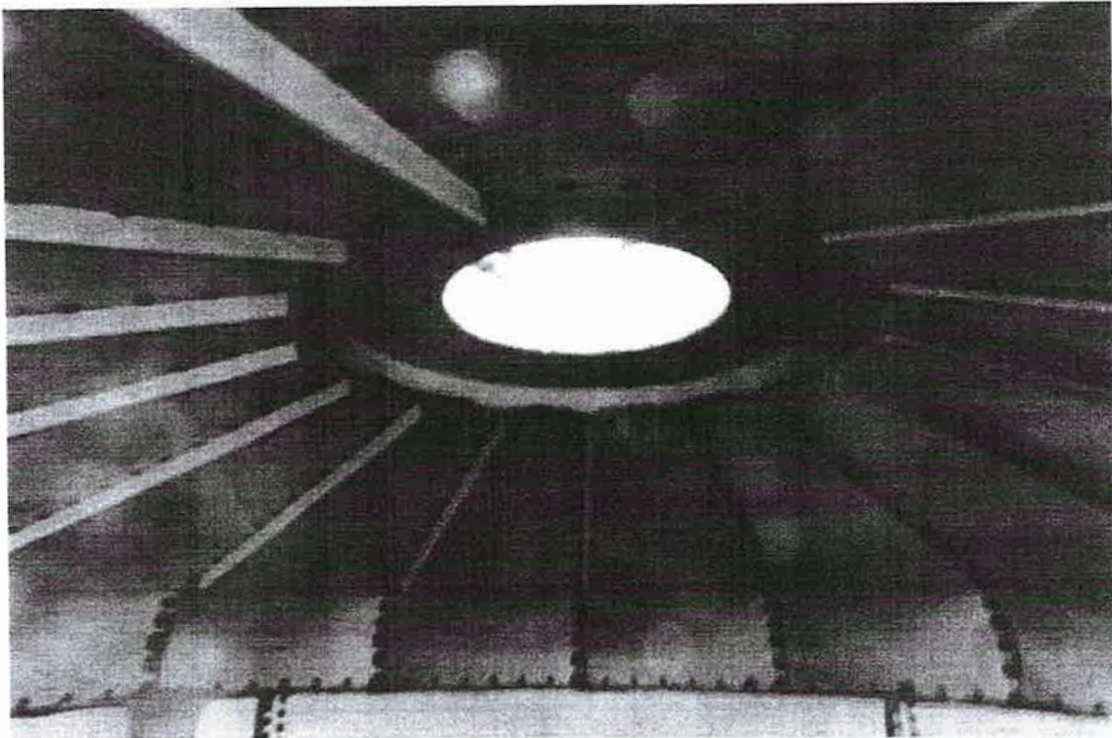
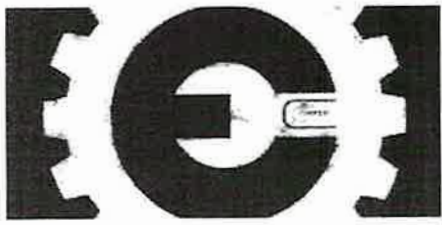


Photo shows the condition of the interior roof.



**Livingston Municipal Waterworks
127,000 Gallon S.P.T.**

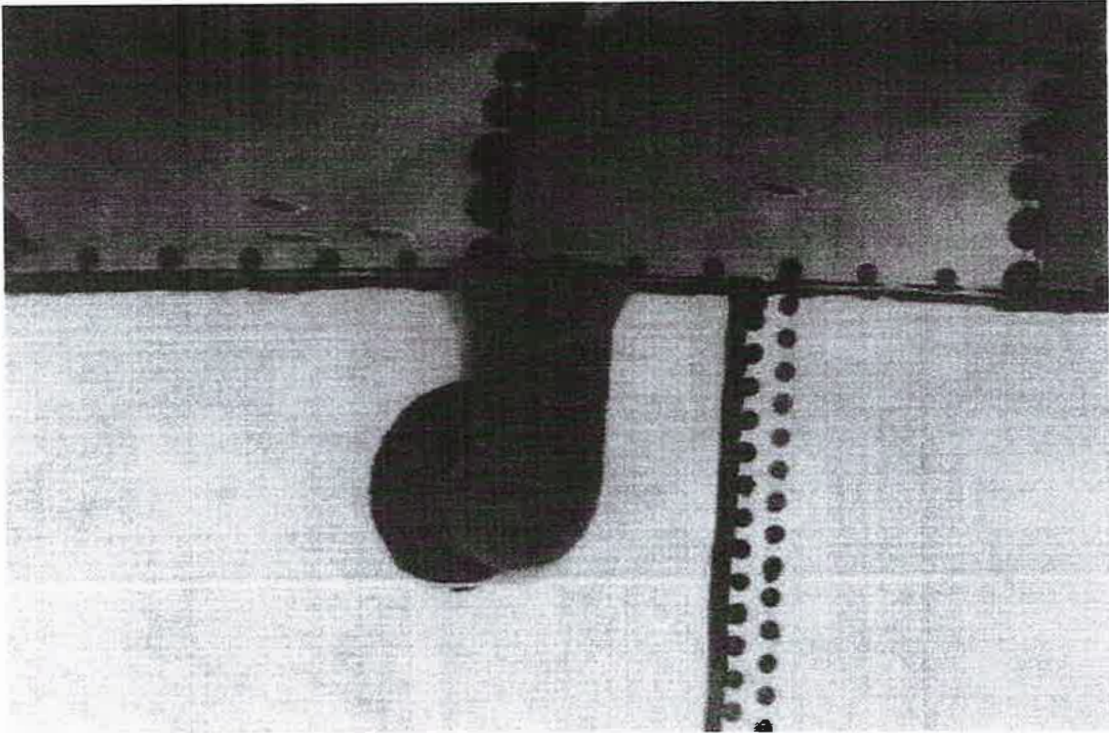


Photo shows the internal overflow.



**Livingston Municipal Waterworks
127,000 Gallon S.P.T.**

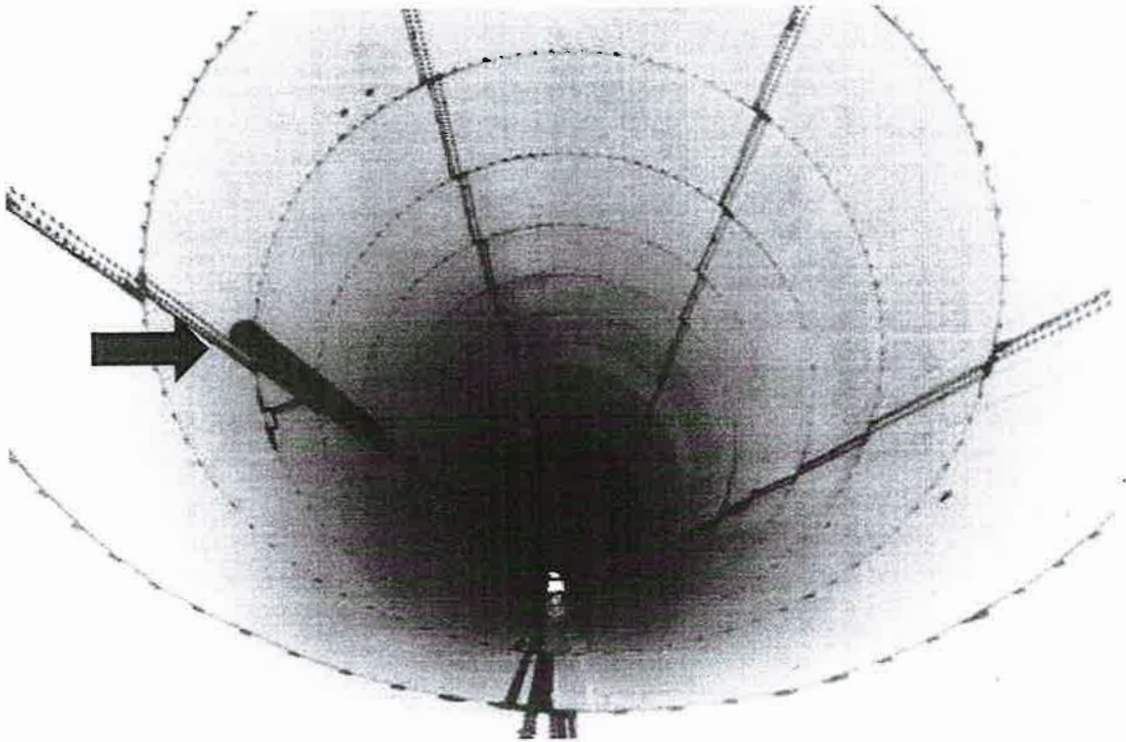


Photo shows the tank inlet pipe. Stagnation issues are common in large capacity tanks with low turn over. If stagnation issues are present we recommend the install of a mixing system. Calculations will be provided to the customer to insure the system properly mixes. Contact your account contact for more details.



**Livingston Municipal Waterworks
127,000 Gallon S.P.T.**



Photo shows silt and debris in the tank.

We recommend that cleaning be performed to avoid the problems associated with excessive silt buildup.



**Livingston Municipal Waterworks
127,000 Gallon S.P.T.**

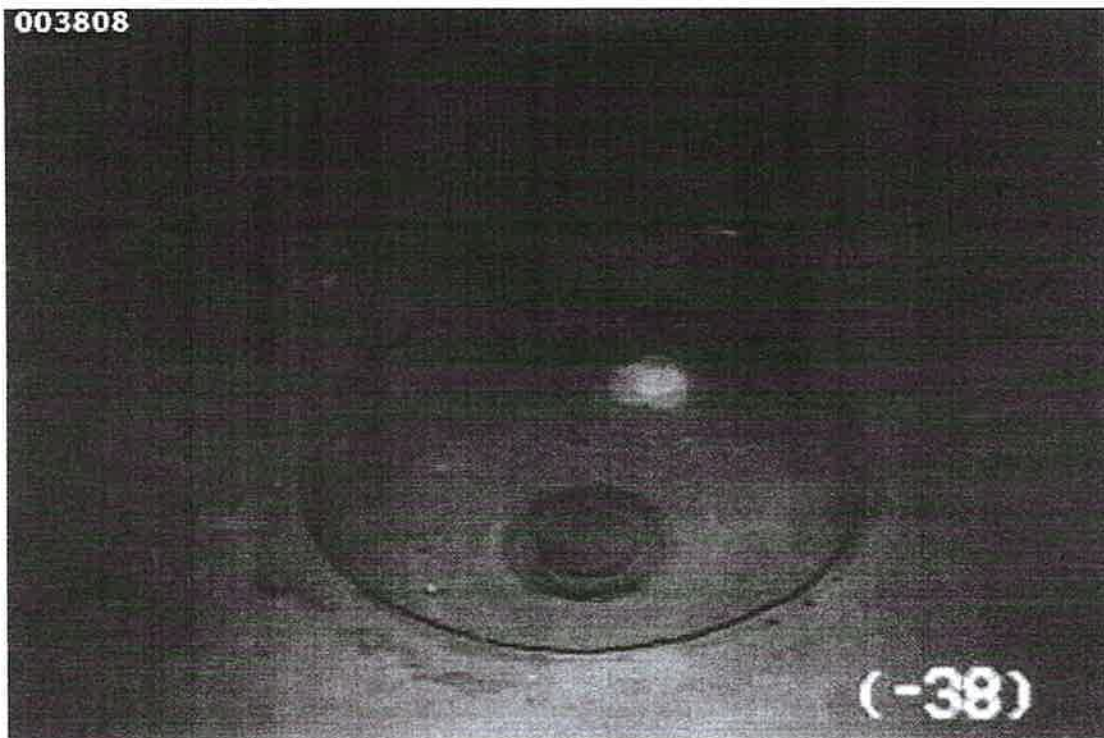
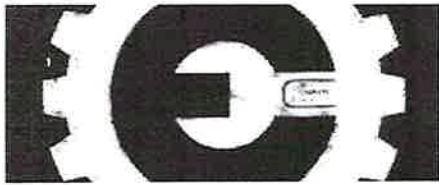
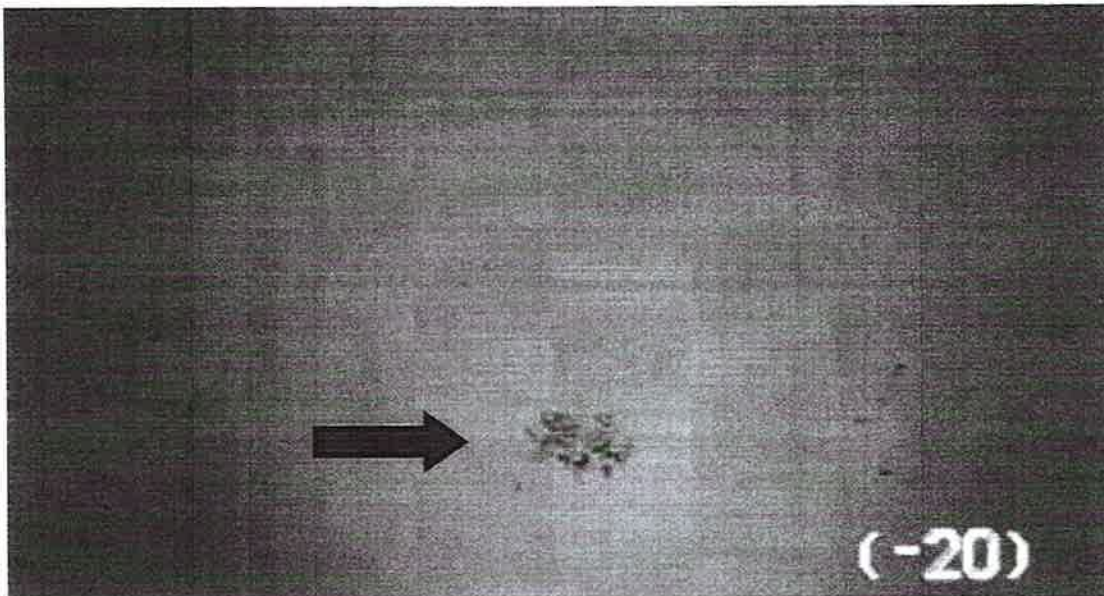
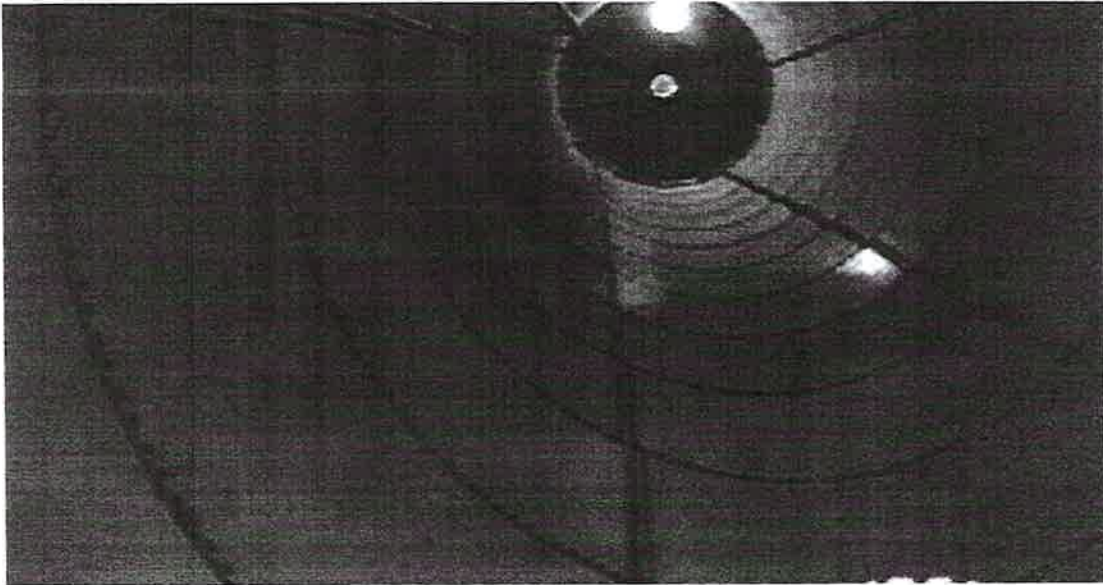


Photo shows the discharge/outlet line on the interior of the tank. Notice the inlet is not equipped with a proper silt stop. **AWWA D100-11 sec. 5.2.1** states "If a removable silt stop is specified, it shall be at least 6 in. (152 mm) high, and the fitting or piping connection shall be flush with the riser floor when the stop is removable. If a removable silt stop is not required, the connecting pipe shall extend at least 6 in. (152 mm) (and preferably about 2.50 ft [0.79m]) above the riser floor."

We recommend to install a proper silt stop.

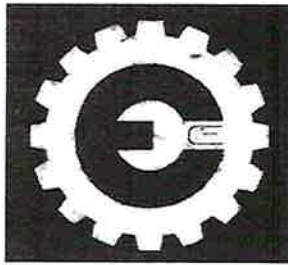


Livingston Municipal Waterworks 127,000 Gallon S.P.T.



Photos show the interior coating. The interior coating overall was found to be in good condition at the time of inspection. Notice the arrow is identifying a small cluster of cracks located on the interior shell surface. This should be monitored and repaired at the appropriate time to prevent the tank from forming leaks and a large coating failure.

We recommend to inspect the tank interior in 12 months to determine the status of the effected area.



COMPLETE RESTORATION, LLC

Paint, Repair and Construction Services

P.O. Box 282 Henderson, KY 42419

PHONE: [REDACTED] **FAX:** [REDACTED]

SUMMARY PAGE

CONTRACT #: 2067 INSPECTOR: Johnston

OWNER'S REPRESENTATIVE: Mr. Bryan Mahaffey

TITLE: Water Manager

TANK OWNER: Livingston Municipal Waterworks

MAILING ADDRESS: 9246 Main Street

PHYSICAL ADDRESS: 9246 Main Street

E-MAIL: [REDACTED]

CITY, STATE: Livingston, KY ZIP: 40445 COUNTY: Rockcastle

TELEPHONE: [REDACTED] FAX: UNKNOWN

LOCATION OF TANK: 37.29661697670116, -84.21798237154422

Livingston Municipal Waterworks

Date of Inspection: 12/10/2020

**Mr. Bryan Mahaffey
Water Manager
(606) 308-5533**

ORIGINAL CONTRACT NO: UNKNOWN YEAR BUILT: 1992

ORIGINAL MANUFACTURER: AQUASTORE CAPACITY: 127,000 Gallon

DATE OF LAST INSPECTION: UNKNOWN TYPE: POTABLE WATER

DIAMETER: 13.99' HEIGHT: 110.91' OVERFLOW: 6"

TYPE CONSTRUCTION: BOLTED



COMPLETE RESTORATION, LLC

Paint, Repair and Construction Services

P.O. Box 282 Henderson, KY 42419

PHONE: [REDACTED]

FAX: [REDACTED]

Page #

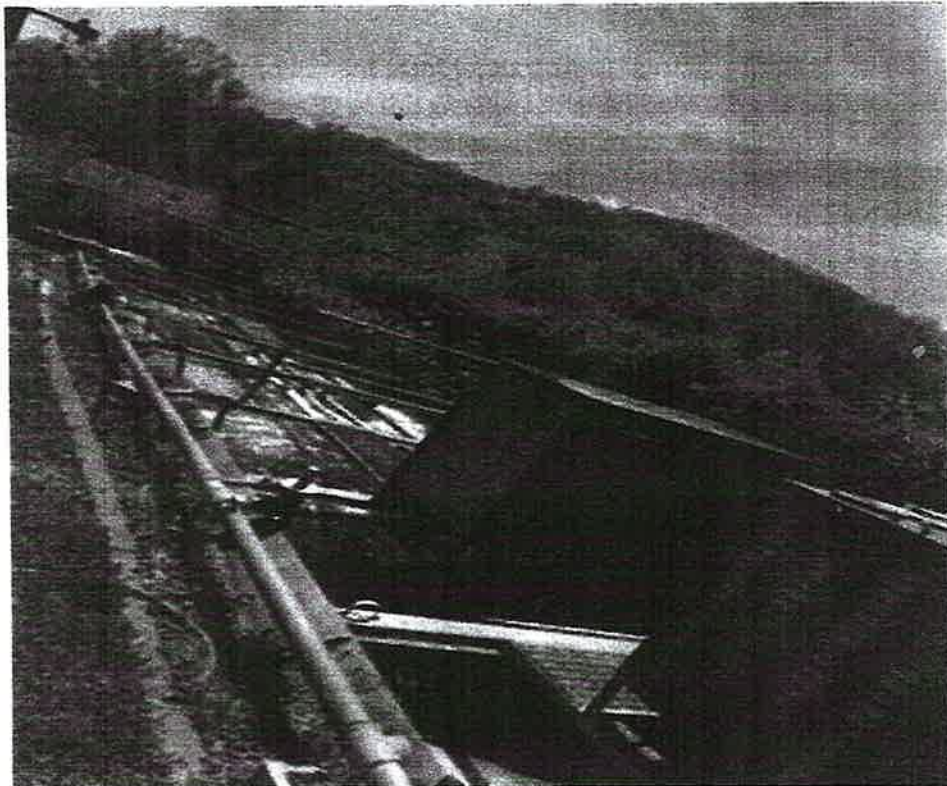
Recommendations

| | |
|----|---|
| 3 | Seal the foundation with a sealant. |
| 4 | Electrically ground the tank for lightning protection. |
| 6 | Post a Permit Required-Confined Space Entry sign. |
| 7 | Clean, Lubricate all moving parts and test the liquid level indicator. Resurface the target board with new factory numbers. |
| 8 | Install a 12" air brake. Install a flapper valve and screen. Install a 4' x 6' splash pad to direct water into drain. This repair should be done on EMERGECONY BASIS. |
| 9 | Install a cable type ladder safety device. X4 Install a Fall Protection Required sign at the base of ladder. |
| 10 | Install a swing gate at all (4) four platforms. Post a Fall Protection required sign at base of the ladder. |
| 11 | Install a swing gate at the ladder opening. |
| 12 | Post a Permit Required-Confined Space Entry sign. |
| 14 | Pressure wash the tank exterior with biodegradable detergent (max 3,500 psi) to remove silt and bird fecal matter. |
| 19 | Clean Tank Out. |
| 20 | Install a removable silt stop. |
| 21 | Inspect the tank interior in 12 months for coating issues. |

ENERGY AUDIT

City of Livingston Wastewater Treatment Plant

Follow Up



May 2025

KENTUCKY RURAL WATER ASSOCIATION

City of Livingston Wastewater Treatment Plant Energy Assessment

May 2025

Energy Efficiency Program Overview:

The Kentucky Rural Water Association (KRWA) has implemented a program to assist water and wastewater utilities to evaluate and lower their energy consumption and costs. This energy efficiency assessment considers current and past energy use, identifies the primary energy consuming components, and identifies methods to lower energy use and costs.

This program works with the local power companies to determine if the water and/or wastewater utility is eligible for available incentives, or reduced rate structures. This service program is available at no charge and participants are not obligated to implement the recommendations. However, implementation will be strongly encouraged.

System Description:

The City of Livingston wastewater system has 68 wastewater connections which serves a population of 157 and has a Median Household Income (MHI) of \$36,766 according to wris.ky.gov.

The city of Livingston wastewater treatment plant treats on average .032 million gallons of low-strength wastewater per day. The design capacity of this wastewater treatment plant is .040 million gallons per day. The plant effluent is discharged into the Rockcastle River under KPDES permit number KY0040703. The city of Livingston wastewater treatment plant is aerated by two 7.5 horsepower (HP) blowers and the influent lift station had a low horsepower temporary pump that has been installed until new pumps can be installed.

Efficiency Observations/Opportunities:

During the initial visit, the period of January 2019 through December 2019, the City of Livingston wastewater treatment plant treated approximately 11.68 million gallons of wastewater; used 50,067 kWh; spent \$6,048 for electricity; average energy cost was \$.52 per 1,000 gallons treated; and the electric utilization 4.29 kWh/1000 gallons treated to aerate the treatment plant.

For the period May 2025 through April 2025, the Livingston wastewater treatment plant treated approximately 11.95 million gallons of wastewater; used 60,133 kWh; spent \$20,973 for electricity; average energy cost was \$1.64 per 1,000 gallons treated; and the electric utilization 4.99 kWh/1000 gallons treated.

A Dissolved Oxygen concentration of 1.0 mg/L to 2.0 mg/L is generally sufficient to maintain stable biological activity in an activated sludge process with nitrification. Not only are concentrations above this range unnecessary, but they also cause the blowers to operate less efficiently due to lower oxygen diffusivity at higher concentrations. For example, at 20 Degrees C, increasing the Dissolved Oxygen from 1.0 mg/L to 4.0 mg/L will reduce oxygen transfer efficiency by 40%.

To assist with maintaining the Kentucky Pollutant Discharge Elimination System (KPDES) permit limits, plant personnel could use the on-off aeration method to save on energy costs and achieve biological nutrient removal. Turning off the blowers intermittently throughout the day creates anoxic conditions (an absence, or near absence of oxygen), this allows the facultative bacteria in the mixed liquor to utilize nitrate in lieu of oxygen as an electron donor. The bacteria continue to oxidize organic matter, converting the nitrate to nitrogen gas which is released into the atmosphere.

Energy Efficiency Recommendations:

These four recommendations from the initial assessment will remain in place for Midway:

Wastewater Treatment Plant:

Recommendation #1: Install Variable Frequency Drives (VFDs) on all blowers/aerators and operate at approximately 85% of full rotational speed, this will reduce the energy consumption by 25% and result in an energy savings to the utility. This will result in a **reduction 15,033 kWh and save Livingston approximately 25% (\$5,243) annually**

The cost of the VFDs is estimated at \$7000 or a 1.3 year pay-back period.

Recommendation #2: Shut off each blower/aerator for 4 hours each day, in 2 hour stretches. This not only lowers the effluent total nitrogen but also provides added benefit of electrical cost savings. The estimated annual electrical savings is **9,621 kWh** and the cost savings are **\$3,355**. Because there are no costs to turning the blowers/aerators off the payback is immediate.

The two recommendations above could be implemented gradually as the plant staff finds beneficial. There is no reason to believe that by reducing the speed of the aerators or shutting off the aerators for 4 hours per day should cause an effluent violation. However, the operations staff should be attentive to the effects of the changes, particularly as it relates to effluent ammonia. Nitrification rates will decrease with lower Dissolved Oxygen concentrations and effluent ammonia may increase slightly. Continued compliance is the primary reason changes should be made in small increments to the treatment process.

Recommendation #3: The investment in monitoring equipment and control equipment (such as; aeration timers for automatic on-off operation of the aeration equipment, and luminescent Dissolved Oxygen probes to help in maintaining a constant Dissolved Oxygen level) would aid the operations staff in finding additional savings at the treatment plant.

Recording the electrical energy meter readings in a daily log book is highly recommended. This will assist in monitoring the actual recommended energy savings. Also, consider the purchase of an electrical multimeter to aid in making monthly or bi-monthly recording of the amps, voltage and ohms of the electric motors. This could be a forewarning of impending failure of the motors.

By implementing the above recommendations, the City of Livingston could potentially **save over 40%** in energy costs.

Recommendation #4: Livingston should meet with its energy provider to check on rebates associated with the energy efficient upgrades made to the facilities.

The city of Livingston should explore options for acquiring a backup generator to power the wastewater treatment plant in the event of an emergency outage. The Kentucky Rural Water Association provides assistance to member utilities in securing generators during these emergencies.

Funding Possibilities:

DSIRE www.dsireusa.org is the most comprehensive source of information on incentives and policies that support renewables and energy efficiency in the United States. It is funded by the Department of Energy. Currently there are over 81 programs listed for Kentucky.

USDA, Rural Development www.rd.usda.gov provides financing for water, wastewater, solid waste, and storm water facilities for a number of purposes including but not limited to energy efficiency improvements.

National Rural Water Association (NRWA) – has a Rural Water Revolving Loan Fund specifically designed to meet the needs of water and wastewater systems. NRWA established a new emphasis on energy efficiency projects that improve water and/or wastewater system sustainability through lower energy costs. There are no administrative or processing fees involved with this loan program.

Key Points:

- 1) Low interest rate (currently 3%)
- 2) \$100,000 maximum or 75% of project cost, whichever is less
- 3) Maximum 10 year term
- 4) Quick turnaround, generally only a few days from application to funding

www.nrwa.org/initiatives/revolving-loan-fund/ for more information

Conclusion

The Kentucky Rural Water Association would like to thank Livingston for the opportunity to provide this Energy Efficiency Assessment Report. The staff was kind and very helpful; it was a pleasure working with them. Should the City of Livingston have any questions or concerns please contact our office at [REDACTED] or email [REDACTED]

City of Livingston Wastewater Treatment Plant

| Project Item | Energy Conservation Measure Description | Annual Energy Savings (kWh) | Annual Cost Savings (\$) | Estimated Cost of Improvement (\$) | Payback (Years) |
|--------------|---|-----------------------------|--------------------------|------------------------------------|-----------------|
| 1 | VFD on Blowers/Aerators | 15,033 | \$5,243 | \$7,000 | 1.3 |
| 2 | Turn off Blowers/Aerators | 9,624 | \$3,355 | \$0 | 0.00 |
| | | 24,654 | \$8,598 | \$7000 | 0.8 |

| | Pre Assessment | Post Assessment | Savings |
|--------------------------------|----------------|-----------------|---------|
| Total Energy Consumption (kWh) | 60,133 | 35,479 | 24,654 |
| Current energy rate (\$) | 0.15 | 0.15 | 0 |
| Total Energy Costs (\$) | \$20,973 | \$12,375 | \$8,598 |

AN ORDINANCE AMENDING
THE CITY OF LIVINGSTON
WATER RATE AND SEWER RATE
ORDINANCE, AS AMENDED

Whereas, the City of Livingston in order to meet its present obligations, as well as meet the increased cost of operating and maintaining the water and sewer systems, the City recognizes the necessity to adjust customer service rate and charges;

Now, Therefore, be it ordained by the City of Livingston as follows:

Section One: The Water and Sewer Rate Ordinance , as amended, is amended as follows:

A. Water Rates

Water Usage

Inside City Limits

| | |
|----------------------|-------------------------------------|
| First 2,000 Gallons | \$27.82 is now \$29.74 Minimum Bill |
| 2,001-999999 Gallons | \$11.11 per 1,000 Gallons |

Outside City Limits

| | |
|----------------------|-------------------------------------|
| First 2,000 Gallons | \$29.50 is now \$31.42 Minimum Bill |
| 2,000-999999 Gallons | \$11.11 per 1,000 Gallons |

Eastern Rockcastle Water

| | |
|-----------|--|
| Wholesale | \$3.19 is now \$3.69 per 1,000 Gallons |
|-----------|--|

Sewer Usage

| | |
|---------------------|--------------------------|
| First 2,000 Gallons | \$17.50 Minimum Bill |
| Next 5,000 Gallons | \$5.50 per 1,000 Gallons |
| Next 3,000 Gallons | \$4.30 per 1,000 Gallons |
| Next 10,000 Gallons | \$3.60 per 1,000 Gallons |

Sewer Rates

The former sewer rate was calculated on the basis of a \$14.00 minimum bill plus 80% of the water bill above 2,500 gallon usage

- B. Connection Charges:** The charge for a 5/8x3/4 inch water connection shall be \$500.00. Will be assessed for each sewer connection.
- C. Deposits:** All applicants for service shall pay \$150.00 deposit before installation of any water meter. Deposits are refundable after service has been disconnected and the final balance is paid in full. If the final balance is not paid in full or disconnection has taken place for nonpayment, the deposit amount will first be used to pay the delinquent amount and the difference shall be refunded to the customer. Another deposit must then be paid in

order for reconnection. Disconnection will take place if delinquent accounts are not paid in full after one month, and reconnection fees will be charged.

- D. Re-Connection Fees:** Where the water supply to the customer has been disconnected for non-payment of delinquent bills, or where a meter is to be reinstalled for new customer at the location where one existed previously, a charge of \$50.00 will be assessed for reconnection of water service. The reconnection of service will not be made until all delinquent bills and other charges, if any, owed by the customer to the city have been paid. Anyone unable to pay their bill in full may sign a repayment contract in order to continue water and/or sewer service.
- E. Leak Adjustment:** The city will allow one leak adjustment per customer on an annual basis. In making a leak adjustment, the city will determine the customer's average monthly usage for the past 12 months. The city will bill the customer for their average usage at the current rate. All usage in excess of the average monthly usage will be charged at the current 1,000 gallon rate the city pays for its purchase water plus an additional \$0.10 per 1,000 gallons to pay for the transmission cost.
- F. Special Charges:** Special charges shall be assessed to the customer in the following instances;
- A. \$25.00 will be charged on all return checks
 - B. \$20.00 will be charged to reread a meter at the customer's request unless such reread reveals that the initial reading was erroneous. No charge will be made if the initial was incorrect.
 - C. \$30.00 will be charged for a meter test when test is made at the customer's written request unless the meter is found to be faulty. No charge shall be made for testing a faulty meter and appropriate adjustments will be made in accordance with test results.
 - D. A 10% late payment penalty will be assessed if bills are not paid by the due date
- G. Individual Fire Hydrant:** For each fire hydrant contracted for by a city, county, state or federal government agency of institution, private customer, private industry, or private institution, the connection and installation charge will be \$2,000.00.
- H. Multi-Unit:** The monthly charge for customers who have requested water service through a master meter for a multi-unit service shall be the number of housing units times the minimum water charge per unit, based on the city's standard service meter minimum charge.
- I.** All customers are required to sign a Water User Agreement. All new taps are required to purchase a plumbing permit. All business must be conducted at City Hall.

Section Two: All provisions of the Water and Sewer Rate Ordinance not specifically amended in the Ordinance, are hereby reenacted and reaffirmed and made a part hereof as in copied in full herein.

Section Three: All ordinances, orders, resolutions or similar instrument in conflict with this Ordinance are hereby suspended and deemed null and void upon adoption of this Ordinance.

Section Four: The effective date of all rates and charges herein given shall coincide with the date of adoption of this Ordinance and shall be reflected in charges for service rendered on and after February 20, 2017.

Adopted this 20th day of February 2017

Jason Medley, Mayor, City of Livingston

Attest: Trisha Doan, City Clerk

Date of first reading 2/13/2017

Date of second reading 2/20/2017

PUBLIC SERVICE COMMISSION

Annual Water Loss Summary

Water Utility:

0

For the Year:

2024

| MONTH | WATER LOSS % |
|---------------------------|--------------|
| JANUARY | 15.5 |
| FEBRUARY | 14.3 |
| MARCH | 10.0 |
| APRIL | 17.1 |
| MAY | 38.5 |
| JUNE | -27.7 |
| JULY | 49.3 |
| AUGUST | -16.0 |
| SEPTEMBER | 36.0 |
| OCTOBER | #DIV/0! |
| NOVEMBER | 19.3 |
| DECEMBER | -13.4 |
| TOTAL ANNUAL WATER LOSS % | 19.1 |

The highest water loss was

#DIV/0!

and occurred in the month of:

#DIV/0!

The lowest water loss was

#DIV/0!

and occurred in the month of:

#DIV/0!

LEGEND

Water Loss is less than 15%

Water Loss is between 15% - 30%

Water Loss is greater than 30%

Filed 9/7/2023 OAH

COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DIVISION OF ENFORCEMENT
CASE NO. DOW 23-3-0071

IN RE: Livingston Municipal Water Works
313 Main Street
Livingston, Kentucky 40445
Rockcastle County
Al No. 34096
Activity ID No. ERF20230001

AGREED ORDER

WHEREAS, the parties to this Agreed Order, the Energy and Environment Cabinet (hereinafter "Cabinet") and the City of Livingston (hereinafter "Responsible Party") state:

STATEMENTS OF FACT

1. The Cabinet is charged with the statutory duty of enforcing KRS Chapter 224 and the regulations promulgated pursuant thereto.
2. The Responsible Party owns and operates a drinking water system, PWSID# KY1020253, a public water system, as the term is defined in 401 KAR 5:010, comprised of drinking water distribution lines (hereinafter "distribution system") that provides water service to the residents of the City of Livingston. The Responsible Party does not produce any water and purchases finished water from the Wood Creek Water District.
3. Authorized representatives of the Cabinet's Division of Water (hereinafter "DOW") identified alleged violations of KRS Chapter 224 and the regulations promulgated pursuant thereto at the distribution system identified in paragraph two (2) above and issued Notices of Violation (hereinafter "NOV") for violations including failure to submit Monthly Operating Reports (hereinafter "MOR"), failure to collect and report chlorine residuals, failure to perform

1

shall submit to the Cabinet for review and approval, a Staffing Plan which describes the City's plans to properly staff the distribution system.

8. Within thirty (30) days of the execution of this Agreed Order, the Responsible Party shall submit to the Cabinet for review and acceptance, a Corrective Action Plan (hereinafter "CAP").

a.) The CAP shall include, but not be limited to the following:

- i. A plan to operate tank levels to prevent overflow;
- ii. A plan to secure the Master Meter pit to prevent public access;
- iii. A plan to ensure daily chlorine residuals are being monitored and maintained throughout the distribution system including:
 - a. A Standard Operating Procedure for daily chlorine monitoring; and
 - b. A training protocol for staff to ensure working knowledge.
- iv. An initial report on the status of the City's tank rehab project including a plan for completion of the project;
- v. An initial report which addresses LCRR inventory requirements for the system;
- vi. A schedule of implementation for each remedial measure; and
- vii. A final compliance date.

b.) Upon review of the CAP, the Cabinet may, in whole or in part, (1) accept or (2) provide comments to the Responsible Party identifying the deficiencies. Upon receipt of Cabinet comments, the Responsible Party shall have thirty (30) days to revise and resubmit the CAP for review and acceptance. Upon resubmittal,

3

public notification, failure to submit adequate number of Disinfection By-Product (hereinafter "DBP") samples, failure to operate under the supervision of properly certified operator, failure to submit routine bacteriological sampling results, failure to submit Consumer Confidence Reports (hereinafter "CCR") and violations of 401 KAR Chapter 8. Authorized representatives of the Cabinet issued NOVs for the violations described above on the following dates: March 30, 2018; August 15, 2018; September 6, 2018; January 15, 2019; January 16, 2019; March 20, 2019; August 8, 2019; November 30, 2020; July 14, 2021; September 3, 2021; October 11, 2021; November 1, 2021; November 10, 2021; January 20, 2022; February 27, 2022; March 7, 2022; March 27, 2022; and April 18, 2023. The NOVs are attached to this Agreed Order as 'Exhibit A'.

4. Representatives of the Responsible Party participated in a telephonic administrative conference with the Cabinet's Division of Enforcement (hereinafter "DENE") on May 5, 2023. The Responsible Party has admitted to the violations described above and has agreed to the entry of this Agreed Order to formally resolve the violations KRS Chapter 224 and the regulations promulgated pursuant thereto.

NOW THEREFORE, in the interest of settling all civil claims and controversies involving the violations described above, the parties hereby consent to the entry of this Agreed Order and agree as follows:

REMEDIAL MEASURES

5. Immediately following the execution of this Agreed Order, the Responsible Party shall designate the Mayor of the City of Livingston as the signatory on all MORs.
6. Immediately following the execution of this Agreed Order, the Responsible Party shall hire a properly certified operator for the distribution system.
7. Within thirty (30) days of the execution of this Agreed Order, the Responsible Party

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the Cabinet may, in whole or in part, (1) accept or (2) disapprove and provide comments to the Responsible Party identifying the deficiencies. Upon such resubmittal, if the CAP is disapproved, the Cabinet may deem the Responsible Party to be out of compliance with this Agreed Order for failure to timely submit the CAP.

- c.) The Responsible Party may request an amendment of the accepted CAP by writing the Director of the Division of Enforcement at 300 Sower Boulevard, 3rd Floor, Frankfort, Kentucky, 40601 and stating the reasons for the request. If granted, the amended CAP shall not affect any provision of this Agreed Order unless expressly provided in the amended CAP.
- d.) Upon Cabinet acceptance of all or any part of the CAP, the amended CAP, or any accepted part thereof (provided that the accepted part is not dependent upon implementation of any part not yet accepted), shall be deemed incorporated into this Agreed Order as an enforceable requirement of this Agreed Order and implemented at its facilities. This does not require an amendment request pursuant to paragraph twenty-nine (29) of this Agreed Order.
- e.) The Cabinet approved CAP shall specify a final compliance date by which compliance with the terms and conditions of the permit is achieved.

9. Within sixty (60) days of the execution of this Agreed Order, the Responsible Party shall submit to the Cabinet an initial report detailing water loss in the distribution system. The Responsible Party shall complete a water loss report for each quarter following the initial report until the termination of the Agreed Order. The quarterly water loss reports shall be due on the 30th day of the following month after the end of the quarter.

4

10. Within sixty (60) days of the execution of this Agreed Order, the Responsible Party shall submit to the Cabinet for review and approval, a Bui Water Advisory (hereinafter "BWA") protocol for the distribution system.

11. Within sixty (60) days of the execution of this Agreed Order, the Responsible Party shall submit to the Cabinet for review and approval, an Operations and Maintenance (hereinafter "O&M") Manual for the distribution system.

12. Following the execution of this Agreed Order and through its termination, the Responsible Party shall attend quarterly check in meetings at the written request of the Cabinet. Discussion topics will include, but not be limited to, the progress of the CAP, monitoring and reporting requirements, water loss reports, and staffing. Failure to attend check in meetings, or to reschedule and attend within thirty (30) days of a previously scheduled meeting, may result in the assessment of stipulated penalties as described in paragraph twenty-two (22) below.

13. All submittals required by the terms of this Agreed Order shall be sent to:

Division of Enforcement
Attention: Director
300 Sower Blvd
Frankfort, KY 40601

CIVIL PENALTY

14. The Responsible Party has been assessed a civil penalty in the amount of two thousand five hundred dollars (\$2,500), to resolve the violations listed in Exhibit A. The civil penalty shall be paid in one (1) initial payment of three hundred dollars (\$300) followed by eleven (11) monthly payments of two hundred dollars (\$200). The first initial payment shall be due within thirty (30) days of the execution of this Agreed Order. The remaining eleven (11) payments shall be due by the 30th day of each month, commencing the month after the initial payment.

15. If the Responsible Party fails to pay any of the civil penalty payments by the due

22. The Cabinet may assess a stipulated penalty in the amount of one thousand dollars (\$1,000) per instance for failure to attend quarterly check in meetings as described in paragraph twelve (12) above.

23. Stipulated penalties are in addition to and not in lieu of any other penalty which could be assessed by the Cabinet. The Cabinet may, at its discretion, waive stipulated penalties that would otherwise be due. The stipulated penalty shall be due and owing thirty (30) days after the Responsible Party's receipt of written notification by the Cabinet to the Responsible Party at the permitted address.

24. If the Responsible Party believes that the request for payment of a stipulated penalty is erroneous or contrary to law, the Responsible Party may request a hearing in accordance with KRS 224.10-420(2). A request for hearing does not excuse timely payment of the penalty. If an order is entered pursuant to KRS 224.10-440 that excuses payment, the Cabinet will refund the payment. Failure to make timely payment shall constitute an additional violation.

25. Payment of stipulated penalties shall be by cashier's check, certified check, or money order, made payable to "Kentucky State Treasurer" and sent to the attention of the Director, Division of Enforcement, Department for Environmental Protection, 300 Sower Boulevard, 3rd Floor, Frankfort, Kentucky 40601; note "Case Number DOW 23-3-0071" on the instrument of payment.

MISCELLANEOUS PROVISIONS

26. This Agreed Order addresses only the violations specifically alleged above. Other than those matters resolved by entry of this Agreed Order nothing contained herein shall be construed to waive or to limit any remedy or cause of action by the Cabinet based on statutes or regulations under its jurisdiction and the Responsible Party reserves its defenses thereto. The

dates specified in paragraph fourteen (14) above, the entire outstanding balance of the civil penalty shall be immediately due and payable within fifteen (15) days of receipt of written notification from the DENP.

18. Payment of the civil penalty shall be by cashier's check, certified check, or money order, made payable to "Kentucky State Treasurer" and sent to the attention of the Director, Division of Enforcement, Department for Environmental Protection, 300 Sower Boulevard, 3rd Floor, Frankfort, Kentucky 40601; note "Case No. DOW 23-3-0071" on the instrument of payment. Payment of the civil penalty may also be made electronically, if available, by accessing the Office of Administrative Hearings through its website found at: <https://oeec.ky.gov>.

STIPULATED PENALTIES

17. The Cabinet may assess a stipulated penalty in the amount of one hundred fifty dollars (\$150) per day for failure to timely hire a properly certified operator as described in paragraph six (6) above.

18. The Cabinet may assess a stipulated penalty in the amount of five hundred dollars (\$500) per instance for failure to timely submit MORs.

19. The Cabinet may assess a stipulated penalty in the amount of five hundred dollars (\$500) per instance for failure to measure daily chlorine residuals.

20. The Cabinet may assess a stipulated penalty in the amount of two hundred fifty dollars (\$250) per day for failure to timely submit the Staffing Plan, CAP, initial water loss report, BWA protocol, or O&M Manual as described in paragraphs seven through eleven (7-11) above.

21. The Cabinet may assess a stipulated penalty in the amount of five hundred dollars (\$500) per instance for failure to timely submit quarterly water loss reports as described in paragraph nine (9) above.

Cabinet expressly reserves its right at any time to issue administrative orders and to take any other action it deems necessary that is not inconsistent with this Agreed Order, including the right to order all necessary remedial measures, assess penalties for violations, or recover all response costs incurred, and the Responsible Party reserves its defenses thereto.

27. This Agreed Order shall not prevent the Cabinet from issuing, reissuing, renewing, modifying, revoking, suspending, denying, terminating, or reopening any permit to the Responsible Party. The Responsible Party reserves its defenses thereto, except that the Responsible Party shall not use this Agreed Order as a defense.

28. The Responsible Party waives its right to any hearing on the matters admitted herein. However, failure by the Responsible Party to comply strictly with any or all of the terms of this Agreed Order shall be grounds for the Cabinet to seek enforcement of this Agreed Order in Franklin Circuit Court and to pursue any other appropriate administrative or judicial action under KRS Chapter 224, and the regulations promulgated pursuant thereto.

29. The Agreed Order may not be amended except by a written order of the Cabinet's Secretary or her designee. The Responsible Party may request an amendment by writing the Director of the Division of Enforcement at 300 Sower Blvd, Frankfort, Kentucky 40601 and stating the reasons for the request. If granted, the amended Agreed Order shall not affect any provision of this Agreed Order unless expressly provided in the amended Agreed Order.

30. The Cabinet does not, by its consent to the entry of this Agreed Order, warrant or aver in any manner that the Responsible Party's complete compliance with this Agreed Order will result in compliance with the provisions of KRS Chapter 224, and the regulations promulgated pursuant thereto. Notwithstanding the Cabinet's review and approval of any plans formulated pursuant to this Agreed Order, the Responsible Party shall remain solely responsible for

compliance with the terms of KRS Chapter 224, and the regulations promulgated pursuant thereto, this Agreed Order and any permit and compliance schedule requirements.

31. The Responsible Party shall give notice of this Agreed Order to any purchaser, lessee, or successor in interest prior to the transfer of ownership and/or operation of any part of its now-existing facility occurring prior to termination of this Agreed Order, shall notify the Cabinet that such notice has been given, and shall follow all statutory and regulatory requirements for a transfer. Whether or not a transfer takes place, the Responsible Party shall remain fully responsible for payment of all civil penalties and response costs and for performance of all remedial measures identified in this Agreed Order.


32. The Cabinet agrees to allow the performance of the above-listed remedial measures and payment of civil penalties by the Responsible Party to satisfy the Responsible Party's obligations to the Cabinet generated by the violations described above.

33. The Cabinet and the Responsible Party agree that the remedial measures agreed to herein are facility-specific and designed to comply with the statutes and regulations cited herein. This Agreed Order applies specifically and exclusively to the unique facility referenced herein and is inapplicable to any other facility.

34. Compliance with this Agreed Order is not conditional on the receipt of any federal, state, or local funds.

35. This Agreed Order shall be of no force and effect unless and until it is entered by the Secretary, or her designee as evidenced by his signature thereon. If this Agreed Order contains any date by which the Responsible Party is to take any action or cease any activity, and the Secretary enters the Agreed Order after that date, then the Responsible Party is nonetheless obligated to have taken the action or ceased the activity by the date contained in this Agreed Order.

AGREED TO BY:


Larry Davidson, Mayor
City of Livingston

9/5/23
Date

TERMINATION

36. This Agreed Order shall terminate upon the Responsible Party's completion of all requirements described in this Agreed Order. The Responsible Party may submit a written request for termination to the Cabinet when it believes all requirements have been performed. The Cabinet reserves its right to enforce this Agreed Order, and the Responsible Party reserves its right to file a petition for hearing pursuant to KRS 224.10-420(2) contesting the Cabinet's determination.

APPROVAL RECOMMENDED BY:


Natalie P. Bruner, Director
Division of Enforcement

09/05/2023
Date

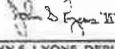

Joseph A. Newberg, General Counsel
Office of Legal Services

9/6/2023
Date

ORDER

Wherefore, the foregoing Agreed Order is entered as the final Order of the Energy and Environment Cabinet this 7th day of September, 2023.

ENERGY AND ENVIRONMENT CABINET


JOHN S. LYONS, DEPUTY SECRETARY
OF THE ENERGY AND ENVIRONMENT CABINET

CERTIFICATE OF SERVICE

I hereby certify that a true and accurate copy of the foregoing **AGREED ORDER** was mailed, postage prepaid, to the following this 7th day of September, 2023.

City of Livingston
Attn: Larry Davidson
P.O. Box 654
Livingston, Kentucky 40445

And ~~mailed messenger to~~ Electronically mailed to:




Natalie P. Bruner, Director
Division of Enforcement
300 Sower Boulevard, 3rd Floor
Frankfort, Kentucky 40601

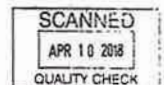
Joseph A. Newberg, General Counsel
Office of Legal Services
300 Sower Boulevard, 3rd Floor
Frankfort, Kentucky 40601


DOCKET COORDINATOR

Distribution:
DOW

Exhibit A

| | | |
|--|---|--|
|  | | |
| <p>Matthew G. Beila Governor</p> | <p>ENERGY AND ENVIRONMENT CABINET Department for Environmental Protection 300 Sower Boulevard Frankfort, Kentucky 40601 www.water.ky.gov</p> | <p>Charles G. Starnely Secretary Aaron B. Kinsley Commissioner</p> |
| March 30, 2018 | | |
| <p>CERTIFIED MAIL: 7009 1680 0000 9374 0040 RETURN RECEIPT REQUESTED</p> | | |
| <p>JAMES POINDEXTER LIVINGSTON MUNICIPAL WATER WORKS PO BOX 654 LIVINGSTON, KY 40445</p> | <p>Re: NOTICE OF VIOLATION ALID: 34056 FWSID: KY1020253 FWS NAME: LIVINGSTON MUNICIPAL WATER WORKS COUNTY: ROCKCASTLE</p> | |
| <p>Dear Mr. Poindexter:</p> <p>The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.</p> <p>Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Tiffany Ogramm at [redacted] or email at [redacted].</p> <p>Sincerely,</p> <p> Joe Ullmer Drinking Water CTAB Supervisor Compliance & Technical Assistance Branch Division of Water</p> | | |
| <p>C: Drinking Water Program Files Enclosure</p> | | |
| <p>KentuckyUnbridledSpirit.com</p> | | <p> An Equal Opportunity Employer M/F/D</p> |



COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

PWSID: KY1020253
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AI ID: 34096
County: ROCKCASTLE
Violation Number: 2018 - 9673451
Description Date: 03/06/2018
Compliance Period: 01/01/2018 - 01/31/2018
Violation Type: OR MOR, FAILURE TO SUBMIT Tier Level: 3
Contaminant: MOR, MONTHLY OPERATING REPORT

Public Water Systems are subject to the requirements of 401 KAR Chapter 8, [401 KAR 8:020 Section 1]
This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:
401 KAR 8:020 MONTHLY OPERATING REPORT The public water system failed to submit the Monthly Operating Report for the compliance period 01/01/2018 - 01/31/2018.

Comments: MOR, Failure to submit the January 2018 MOR.

The remedial measure(s) and date(s) to be completed by are as follows:
Submit the MOR, if available, to the Division of Water within thirty (30) days of receipt of this Notice of Violation.

Violations of the above cited statute and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulation violated. In addition, violations may be concurrently assessed. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dew.ky.gov/DWW/>

If you have questions or need further information regarding MOR Compliance contact Tiffany Ogumanya at [REDACTED] or email at [REDACTED]

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
350 Sower Road
Frankfort, KY 40601

Issued By:

Joe Ullian
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: March 30, 2018

How Delivered: Certified/Registered #7009 1680 0000 9374 0040



ENERGY AND ENVIRONMENT CABINET

Department for Environmental Protection
350 Sower Road
Frankfort, Kentucky 40601
www.water.ky.gov

Charles G. Sweeney
Secretary

Aaron B. Kinsley
Commissioner

March 30, 2018

CERTIFIED MAIL: 7009 1680 0000 9374 0699
RETURN RECEIPT REQUESTED

JAMES POINDEXTER
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

Re: NOTICE OF VIOLATION
AI ID: 34096
PWSID: KY1020253
PWS NAME: LIVINGSTON MUNICIPAL WATER WORKS
COUNTY: ROCKCASTLE

Dear Mr. Poindexter:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperative and attention to this matter is appreciated. If you have any questions, please contact Tiffany Ogumanya at [REDACTED] or email at [REDACTED]

Sincerely,

Joe Ullian

Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program Files
Enclosure



COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

PWSID: KY1020253
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AI ID: 34096
County: ROCKCASTLE
Violation Number: 2018 - 9673452
Description Date: 03/06/2018
Compliance Period: 01/01/2018 - 01/31/2018
Violation Type: 36 MONITORING, RTNRPT MAJOR (SWTR-FILTER) Tier Level: 3
Contaminant: 0999 CHLORINE

Public Water Systems are subject to the requirements of 401 KAR Chapter 8, [401 KAR 8:020 Section 1]
This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:
401 KAR 8:150, Sec 3 and 8:160, Sec 6 CHLORINE The public water system submitted fewer than 90% of the required number of analytical results for turbidity or failed to report results by the 10th of the month following the compliance period 01/01/2018 - 01/31/2018.

Comments: SDRD: Failed to collect and report chlorine residual samples throughout the distribution system (MOR pg. 7) for the January 2018 monitoring period.

The remedial measure(s) and date(s) to be completed by are as follows:
Submit the MOR, if available, to the Division of Water within thirty (30) days of receipt of this Notice of Violation.

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below:

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

As an alternative to the two methods listed above, the PWS may optionally provide notice to consumers by including the required language of the notice in the next CCR delivered to consumers by the PWS providing that the CCR meets the direct delivery requirements.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.state.ky.gov/DWW/>

If you have questions or need further information regarding MOR Compliance contact Tiffany Ogansuys at [REDACTED] or email at [REDACTED]

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
300 Sower Boulevard
Frankfort, KY 40601

Issued By:

Joe Ullasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: March 30, 2018

How Delivered: Certified/Registered #7009 1870 0000 9173 0699



ENERGY AND ENVIRONMENT CABINET

Department for Environmental Protection
Division of Water
300 Sower Boulevard
Frankfort, Kentucky 40601
www.water.ky.gov

Charles G. Seay
Secretary

Andrew R. Hatten
Commissioner

August 15, 2018

CERTIFIED MAIL: 7010 1870 0000 9173 1533
RETURN RECEIPT REQUESTED

JAMES POINDEXTER
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

Re: NOTICE OF VIOLATION

AJ ID: 34096

PWSID: KY1020253

PWS NAME: LIVINGSTON MUNICIPAL WATER WORKS

COUNTY: ROCKCASTLE

Dear Mr. Poindexter:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Maggie Mahan at [REDACTED] or email at [REDACTED]

Sincerely,

Joseph Ullasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure

www.ky.gov/energyandenvironment



An Equal Opportunity Employer M/F/D

COMMONWEALTH OF KENTUCKY ENERGY & ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

PWSID: KY1020253
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AJ ID: 34096
County: ROCKCASTLE
Violation Number: 2018 - 9672-156
Determination Date: 08-26-2018
Violation Type: 75 PUBLIC NOTICE RULE LINKED TO VIOLATION
Contaminant: 7500 PUBLIC NOTICE

Public Water Systems are subject to the requirements of 401 KAR Chapter 8, (401 KAR 8.020 Section 1)
This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:
401 KAR 8.073 Section 2 PUBLIC NOTICE. Public water system failed to perform public notification in accordance with 401 KAR 8.073 Section 2. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. See "Comments" below for details specifying the nature of the violation.

Comments: Failure to submit a Public Notice for group violation 2016-713. Complete, distribute, and submit a copy of the Public Notice for the originating violation and detail this violation in the calendar year 2018 CCR, to be distributed in 2019.

The remedial measure(s) and date(s) to be completed by are as follows:
Submit proof of public notification and its certification.

If the original violation is a Tier 1, public water system has 1 year from the receipt of Notice of Violation to perform the public notice and must submit proof of public notification and certification within 10 days of executing public notice to the Division of Water.

If the original violation is a Tier 2, public water system has 30 days from receipt of Notice of Violation to perform the public notice and must submit proof of public notification and certification within 10 days of executing public notice to the Division of Water.

In addition, the Notice of Violation must be discussed, detailing the nature of the violation, in next year's CCR that is due to the customers and the Department of Environmental Protection, Division of Water by July 1st, annually.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.state.ky.gov/DWW/>

If you have questions or need further information, write or call Maggie Mahan at [REDACTED] or email at [REDACTED]

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
300 Sower Boulevard
Frankfort, KY 40601

Issued By:

Joseph Ullasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: August 15, 2018

How Delivered: Certified Registered #7010 1870 0000 9173 1533



Matthew G. Beis
Director

ENERGY AND ENVIRONMENT CABINET

Department for Environmental Protection
Division of Water
300 Sower Boulevard
Frankfort, Kentucky 40601
www.water.ky.gov

Charles G. Seavely
Secretary

Anthony R. Hutton
Comptroller

August 15, 2018

CERTIFIED MAIL: 7010 1870 0000 9173 1535
RETURN RECEIPT REQUESTED

JAMES POINDEXTER
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

Re: NOTICE OF VIOLATION
AI ID: 34096
PWSID: KY1020253
PWS NAME: LIVINGSTON MUNICIPAL WATER
WORKS
COUNTY: ROCKCASTLE

Dear Mr. Poindexter:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Maggie Mahan at [redacted] or email at [redacted].

Sincerely,

Joseph Uliasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure

KentuckyEnvironmental.com



An Equal Opportunity Employer M/F/D

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.state.ky.us/dww>.

If you have questions or need further information, write or call Maggie Mahan at [redacted] or email at [redacted].

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
300 Sower Boulevard
Frankfort, KY 40601

Issued By:

Joseph Uliasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: August 15, 2018

How Delivered: Certified Registered #7010 1870 0000 9173 1535

COMMONWEALTH OF KENTUCKY ENERGY & ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

PWSID: KY1020253
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AI ID: 34096
County: ROCKCASTLE
Violation Number: 2018-0673457
Determination Date: 06/26/2018
Violation Type: 19 PUBLIC NOTICE SHALL LINKED TO VIOLATION
Contaminant: 7500 PUBLIC NOTICE

Public Water Systems are subject to the requirements of 401 KAR Chapter 8, [401 KAR 8:020 Section 1]. This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:
401 KAR 8:075 Section 2 PUBLIC NOTICE Public water system failed to perform public notification in accordance with 401 KAR 8:075 Section 2. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. See "Comments" below for details specifying the nature of the violation.

Comments: Failure to submit a Public Notice for group violation 2016-723. Complete, distribute, and submit a copy of the Public Notice for the originating violation and detail this violation in the calendar year 2018 CCR, to be distributed in 2019.

The remedial measure(s) and date(s) to be completed by are as follows:
Submit proof of public notification and its certification.

If the original violation is a Tier 3, public water system has 1 year from the receipt of Notice of Violation to perform the public notice and must submit proof of public notification and certification within 180 days of executing public notice to the Division of Water.

If the original violation is a Tier 2, public water system has 30 days from receipt of Notice of Violation to perform the public notice and must submit proof of public notification and certification within 10 days of executing public notice to the Division of Water.

In addition, the Notice of Violation must be discussed, detailing the nature of the violation, in next year's CCR that is due to the customers and the Department of Environmental Protection, Division of Water by July 1st, annually.



Matthew G. Beis
Director

ENERGY AND ENVIRONMENT CABINET

Department for Environmental Protection
300 Sower Boulevard
Frankfort, Kentucky 40601
www.water.ky.gov

Charles G. Seavely
Secretary

Anthony R. Hutton
Comptroller

August 15, 2018

CERTIFIED MAIL: 7010 1870 0000 9173 1346
RETURN RECEIPT REQUESTED

JAMES POINDEXTER
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

Re: NOTICE OF VIOLATION
AI ID: 34096
PWSID: KY1020253
PWS NAME: LIVINGSTON MUNICIPAL WATER
WORKS
COUNTY: ROCKCASTLE

Dear Mr. Poindexter:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Joseph Uliasz at [redacted] or email at [redacted].

Sincerely,

Joe Uliasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure

KentuckyEnvironmental.com



An Equal Opportunity Employer M/F/D

COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40345

PWSID: KY1020253
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AI ID: 34096
County: ROCKCASTLE
Violation Number: 2018 - 9673458
Determination Date: 07/10/2018
Compliance Period: 05/01/2018 - 05/31/2018
Violation Type: OR MOR, FAILURE TO SUBMIT
Contaminant: MOR MONTHLY OPERATING REPORT

Public Water Systems are subject to the requirements of 401 KAR Chapter 8, [401 KAR 8:020 Section 1]
This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:
401 KAR 8:020 MONTHLY OPERATING REPORT The public water system failed to submit the Monthly Operating Report for the compliance period 05/01/2018 - 05/31/2018.

Comments: MOR: Failure to submit the May 2018 MOR.

The remedial measure(s) and date(s) to be completed by are as follows:
Submit the MOR, if available, to the Division of Water within thirty (30) days of receipt of this Notice of Violation.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.state.ky.gov/DWW>.

If you have questions or need further information regarding MOR Compliance contact Joseph Ullasz at [REDACTED] or email at [REDACTED]

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
300 South Boulevard
Franklin, KY 40601

Issued By:

Joe Ullasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: August 15, 2018

How Delivered: Certified Registered #7010 1870 0000 9173 1426



ENERGY AND ENVIRONMENT CABINET

Department for Environmental Protection
300 South Boulevard
Franklin, Kentucky 40601
www.kentucky.gov

Charles G. Seavey
Secretary

Anthony R. Hutton
Commissioner

August 15, 2018

CERTIFIED MAIL: 7010 1870 0000 9173 1153
RETURN RECEIPT REQUESTED

JAMES POINDEXTER
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40345

Re: NOTICE OF VIOLATION
AI ID: 34096
PWSID: KY1020253
PWS NAME: LIVINGSTON MUNICIPAL WATER WORKS
COUNTY: ROCKCASTLE

Dear Mr. Poindexter:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Joseph Ullasz at [REDACTED] or email at [REDACTED]

Sincerely,

Joe Ullasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure

COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40345

PWSID: KY1020253
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AI ID: 34096
County: ROCKCASTLE
Violation Number: 2018 - 9673459
Determination Date: 07/10/2018
Compliance Period: 05/01/2018 - 05/31/2018
Violation Type: 36 MONITORING, RTN RPT MAJOR (SWTR-FILTER) Tier Level: 3
Contaminant: 0999 CHLORINE

Public Water Systems are subject to the requirements of 401 KAR Chapter 8, [401 KAR 8:020 Section 1]
This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:
401 KAR 8:075 Section 2] The specific public notification activities to be performed are listed below. If you need assistance with Public Notice contact Maggie Mahan at (502)782-6136 or email at Maggie.mahan@ky.gov.

Comments: SDRD: Failed to collect and report minimum daily chlorine residual samples throughout the distribution system (MOR pg. 7) for the May 2018 monitoring period.

The remedial measure(s) and date(s) to be completed by are as follows:
Submit the MOR, if available, to the Division of Water within thirty (30) days of receipt of this Notice of Violation.

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:075 Section 2. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:075 Section 2] The specific public notification activities to be performed are listed below. If you need assistance with Public Notice contact Maggie Mahan at (502)782-6136 or email at Maggie.mahan@ky.gov.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by (1) publication in a newspaper of general circulation in the area served by the PWS or (2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

As an alternative to the two methods listed above, the PWS may optionally provide notice to consumers by including the required language of the notice in the next CCR delivered to consumers by the PWS providing that the CCR meets the direct delivery requirements. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

Submit proof of public notification and its certification within ten (10) days of executing public notification.


Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$5,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.state.ky.gov/DWW/>.

If you have questions or need further information regarding MOR Compliance contact Joseph Ullasz at [REDACTED] or email at [REDACTED].

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
300 Sower Boulevard
Frankfort, KY 40601

Issued By: 

Joe Ullasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water
Date: August 15, 2018

How Delivered: Certified/Registered #7010 1870 0000 9173 2136



ENERGY AND ENVIRONMENT CABINET

Matthew G. Reits
Governor

Department for Environmental Protection
300 Sower Boulevard
Frankfort, Kentucky 40601
www.dep.state.ky.gov

Charles C. Seavey
Secretary

Anthony R. Heston
Commissioner

September 6, 2018

CERTIFIED MAIL: 7010 1870 0000 9173 2136
RETURN RECEIPT REQUESTED

JAMES POINDEXTER
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

Re: NOTICE OF VIOLATION
AID: 34096
PWSID: KY1020253
PWS NAME: LIVINGSTON MUNICIPAL WATER
WORKS
COUNTY: ROCKCASTLE

Dear Mr. Poindexter:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadline.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellie Husband at [REDACTED] or email at [REDACTED].

Sincerely,



Joe Ullasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program Files
Enclosure:

COMMONWEALTH OF KENTUCKY ENERGY & ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

PWSID: KY1020253
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AID: 34096
County: ROCKCASTLE
Violation Number: 2018 - 793
Determination Date: 08/07/2018
Compliance Period: 04/01/2018 - 06/30/2018
Violation Type: 27 MONITORING, ROUTINE (DBP), MAJOR Tier Level: 3
PWS Facility: 10550033 IDSE - LIVINGSTON MUNICIPAL WATER WORKS
Contaminant: DBP5 TTHM THAA

Public Water Systems are subject to the requirements of 401 KAR Chapter 8, [401 KAR 8:020 Section 1].
This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:
401 KAR 8:510, Section 1 TTHM THAA The public water system failed to submit an adequate number of DBP samples for the compliance period 04/01/2018 - 06/30/2018. Your system is required to collect 2 Routine Samples per Quarter. No samples were received by DOW.

Comments: Pulled 2nd qtr. DBPs in incorrect month.

The remedial measure(s) and date(s) to be completed by are as follows:
Submit any overdue or unreported sampling analytical results, if available, for the compliance period 04/01/2018 - 06/30/2018.

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:075 SECTION 2. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:075 SECTION 2] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

As an alternative to the two methods listed above, the PWS may optionally provide notice to consumers by including the required language of the notice in the next CCR delivered to consumers by the PWS providing that the CCR meets the direct delivery requirements.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$5,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.state.ky.gov/DWW/>.

If you have questions or need further information, write or call Kellie Husband at [REDACTED] or email at [REDACTED].

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
300 Sower Boulevard
Frankfort, KY 40601

Issued By: 

Joe Ullasz
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water
Date: September 6, 2018

How Delivered: Certified/Registered #7010 1870 0000 9173 2136

Matthew G. Bevis
Governor



ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
1000 KY 40741

Matthew G. Bevis
Governor

Anthony R. Hatten
Secretary

COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To: Livingston Municipal Water Works
313 Main St
Livingston, KY 40445

AI Name: Livingston Municipal Water Works AI ID: 34096 Activity ID: ENV20190001
Discovery ID: CIV20180001 County: Rockcastle
Enforcement Case ID:
Date(s) Violation(s) Observed: 12/24/2018

This is to advise that you are in violation of the provisions cited below:

1. Violation Description for Subject Item A10000000340960:
Operational procedures at water systems shall be conducted by or under the supervision of a distribution system operator certified in a class equal to or higher than the class of the distribution system [401 KAR 8.030(1)(2)(a)]

Description of Non Compliance:

Emergency line break repairs are not being performed by, or under the supervision of, a Certified Distribution Operator.
Emergency line break repairs and/or Boil Water Advisories are not being reported to the Division as required. The system does not have a documented procedure for issuing (or lifting) a Boil Water Advisory. The Division recommended the system develop a procedure following the July 2018 Sanitary Survey.

The remedial measure(s), and date(s) to be completed by are as follows:

The water distribution system shall be operated by or under the supervision of a distribution system operator certified in a class equal to or higher than the class of the distribution system.
Line repairs should be performed by, or under the supervision of, a Certified Distribution Operator.
Within thirty (30) days of receipt of this Notice, the system shall submit a written notice to the Inspector which states they are in compliance with this regulation and the actions taken to address the non-compliance.
The system should develop and implement a procedure for issuing (and lifting) a Boil Water Advisory (BWA).
Within thirty (30) days of receipt of this notice, the system should develop and submit their written BWA procedure to the Inspector for review.
Failure to comply with the above remedial actions, may result in a referral to the Division of Enforcement for the assessment of fines and penalties. [401 KAR 8.030 Section 1(2)(a)]

January 15, 2019

CERTIFIED MAIL 7018 0360 0000 5281 7349
Return Receipt Requested

Honorable Jason Medley
Mayor, City of Livingston
Livingston Municipal Water Works
313 Main St
Livingston, Kentucky 40445

Re: Notice of Violation
AI ID: 34096
AI Name: Livingston Municipal Water Works
Activity ID: ENV20190001
Permit No.: KY1020255
Rockcastle County, KY

Dear Mayor:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered within your distribution system during December 2018. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Your cooperation and attention to this matter is appreciated. If you have any questions, please contact me at [REDACTED]

Sincerely,
E-Signed by Beth Trent, DEP
I hereby authorize with sign Date

Ms. Beth Trent,
Environmental Inspector
Division of Water

Enclosure

January 15, 2019



An Equal Opportunity Employer M/F/D/V

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulation(s) violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.
If you have questions or need further information, write or call the undersigned.

Division of Water
London Regional Office
875 S Main St
London, KY 40741
8:00 AM - 4:30 PM
Ms. Beth Trent, Environmental Inspector

Issued By:

E-Signed by Beth Trent, DEP
I hereby authorize with sign Date
Ms. Beth Trent, Environmental Inspector
Date: January 15, 2019

Issued By:

E-Signed by Rob Miller, DEP
I hereby authorize with sign Date
Mr. Rob Miller, Environmental Control Supervisor
Date: January 15, 2019

How Delivered: USPS - Certified Mail with Return Receipt
Certified/Registered # 7018 0360 0000 5281 7349

Matthew G. Bevis
Governor

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
1000 KY 40741

Matthew G. Bevis
Governor

Anthony R. Hatten
Secretary

January 15, 2019

CERTIFIED MAIL 7018 0360 0000 5281 7349
RETURN RECEIPT REQUESTED

JAMES HENDON
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

Re: NOTICE OF VIOLATION
AI ID: 34096
FWSID: KY 22021
FWS NAME: LIVINGSTON MUNICIPAL WATER WORKS
COUNTY: ROCKCASTLE

Dear Mr. Hendon:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Rodney K. Oberger at [REDACTED] or email at [REDACTED].

Sincerely,
[Signature]
Joe L. Lee,
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
En: Issue

Matthew G. Bevis
Governor



An Equal Opportunity Employer M/F/D/V

COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

PWSID: KY102053
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AID: 14066
County: ROCKCASTLE
Violation Number: 2010 - 9675462
Determination Date: 12/14/2018
Compliance Period: 10/01/2018 - 10/31/2018
Violation Type: 36 MONITORING, ROUTINE MAJOR (RTCR) Tier Level: 3
Contaminant: 8000 REVISED TOTAL COLIFORM RULE (RTCR)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8 [401 KAR 8.020 Section 1]
This is to advise that you are in violation of the provisions cited below:

Description of Non Compliance:
401 KAR 8.020 REVISED TOTAL COLIFORM RULE (RTCR) The public water system failed to submit routine bacteriology test sampling results for the compliance period 10/01/2018 - 10/31/2018.

Comments: 0 of 1 samples were received

The remedial measure(s) and date(s) to be completed by are as follows:

Submit any overdue or unreported sampling analytical results, if available.
Perform public notification for the above-noted violation in accordance with 401 KAR 8.075 SECTION 2. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8.075 SECTION 2] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery, then the PWS must give notice to consumers about a violation by (1) publication in a newspaper of general circulation in the area served by the PWS or (2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

As an alternative to the two methods listed above, the PWS may optionally provide notice to consumers by including the required language of the notice in the next CCR delivered to consumers by the PWS providing that the CCR meets the direct delivery requirements.

Submit proof of public notification and its certification within ten (10) days of executing public notification.



ENERGY AND ENVIRONMENT CABINET

Matthew G. Bevin
Governor
Department for Environmental Protection
300 Sower Boulevard
Frankfort, Kentucky 40601
www.ky.gov

Charles G. Starnes
Secretary

Anthony R. Hinton
Commissioner

March 20, 2019

CERTIFIED MAIL: 7617 5626 0600 1925 5427
RETURN RECEIPT REQUESTED

JAMEN POINDINTER
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

Re: NOTICE OF VIOLATION

AID: 14066
PWSID: KY102053
PWS NAME: LIVINGSTON MUNICIPAL WATER WORKS
COUNTY: ROCKCASTLE

Dear Mr. Poindexter:

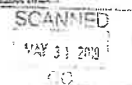
The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations determined at your facility. Please recognize this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellie Hubbard at [redacted] for email at [redacted].

Sincerely,

Joe Utzack
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program Files
Encl: none



Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry a civil penalty of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be contemptuously enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Details information about your water system's violations & monitoring requirements can be easily accessed in Kentucky Drinking Water Watch at <http://dep.ky.gov/DWW>.

If you have questions or need further information, write or call Rodney Ripberger at [redacted] or email at [redacted].

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
300 Sower Boulevard
Frankfort, KY 40601

Issued By:

Joe Utzack
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: January 16, 2019

How Delivered: Certified Registered #7009 1680 0040 9335 7745

COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

PWSID: KY102053
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AID: 14066
County: ROCKCASTLE
Violation Number: 2010 - 407
Determination Date: 01/24/2019
Compliance Period: 10/01/2018 - 12/31/2018
Violation Type: 37 MONITORING, ROUTINE (DBP) MAJOR Tier Level: 3
PWS Facility: 105F933, 105E - LIVINGSTON MUNICIPAL WATER WORKS
Contaminant: DBP8 THM THAA

Public Water Systems are subject to the requirements of 401 KAR Chapter 8 [401 KAR 8.020 Section 1]
This is to advise that you are in violation of the provisions cited below:

Description of Non Compliance:
401 KAR 8.110, Section 1 THM THAA The public water system failed to submit an adequate number of DBP samples for the compliance period 10/01/2018 - 12/31/2018. Your system is required to collect 2 Routine Samples per Quarter. No samples were received by DEW.

Comments: Failed to submit 4th qtr DBPs

The remedial measure(s) and date(s) to be completed by are as follows:
Submit any overdue or unreported sampling analytical results, if available, for the compliance period 10/01/2018 - 12/31/2018.

Perform public notification for the above-noted violation in accordance with 401 KAR 8.075 SECTION 2. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8.075 SECTION 2] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery, then the PWS must give notice to consumers about a violation by (1) publication in a newspaper of general circulation in the area served by the PWS or (2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

As an alternative to the two methods listed above, the PWS may optionally provide notice to consumers by including the required language of the notice in the next CCR delivered to consumers by the PWS providing that the CCR meets the direct delivery requirements.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulation violated. In addition, violations may be circumvented by non-compliance with remedial measures and their deadlines. A violator does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://drinkingwater.ky.gov>.

If you have questions or need further information, write or call Kellee Hubbard at [REDACTED] or email at [REDACTED].

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
300 Sower Boulevard
Franklin, KY 40501

Issued By:

Jae Ulana
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: March 23, 2019

How Delivered: Certified Registered #7917 2520 0096 1925 5437



ENERGY AND ENVIRONMENT CABINET

Department for Environmental Protection
300 Sower Boulevard
Franklin, Kentucky 40501
www.ky.gov

Charles G. Sasseville
Secretary

Anthony R. Hume
Commissioner

August 8, 2019

CERTIFIED MAIL #917 2520 0096 1925 5437
RETURN RECEIPT REQUESTED

JAMES POINDEXTER
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

Re: NOTICE OF VIOLATION
AJ ID: 34996
PWSID: KY1020253
PWS NAME: LIVINGSTON MUNICIPAL WATER WORKS
COUNTY: ROCKCASTLE

Dear Mr. Poindexter:

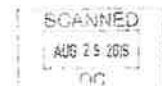
The Kentucky Department for Environmental Protection (DPEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kellee Hubbard at [REDACTED] or email at [REDACTED].

Sincerely,

Kellee Hubbard
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure



COMMONWEALTH OF KENTUCKY ENERGY & ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

PWSID: KY1020253
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AJ ID: 34996
County: ROCKCASTLE
Violation Number: 2019 - 522
Determination Date: 08/07/2019
Compliance Period: 04/01/2019 - 06/30/2019
Violation Type: 27 MONITORING ROUTINE (DBP) MAJOR Tier Level: 3
PWS Facility: DSE0003 DISE - LIVINGSTON MUNICIPAL WATER WORKS
Cause/Amount: DBP'S TTHM THAA

Public Water Systems are subject to the requirements of 401 KAR Chapter 5, [401 KAR 5:020 Section 1]. This is to advise that you are in violation of the provisions cited below:

Description of Non-Compliance:
401 KAR 5:010, Section 1 TTHM THAA The public water system failed to submit an adequate number of DBP samples for the compliance period 04/01/2019 - 06/30/2019. Your system is required to collect 2 Routine Samples per Quarter. 1 samples were received by DOW.

Comments: Site 001 marked as special sample, should have been marked as routine which caused a failure to submit violation.

The remedial measure(s) and date(s) to be completed by are as follows:

Submit any overdue or upcoming sampling analytical results, if available, for the compliance period 04/01/2019 - 06/30/2019.

Perform public notification for the above mentioned violation in accordance with 401 KAR 5:015 SECTION 2. The public notification must contain language that is similar to or derived from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 5:015 SECTION 2] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting at conspicuous places within the area served by the PWS. The notice must be executed within one (1) year following receipt by the PWS of this Notice of Violation.

As an alternative to the two methods listed above, the PWS may optionally provide notice to consumers by including the required language of the notice in the next CCR delivered to consumers by the PWS providing that the CCR meets the direct delivery requirements.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulation violated. In addition, violations may be circumvented by non-compliance with remedial measures and their deadlines. A violator does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://drinkingwater.ky.gov>.

If you have questions or need further information, write or call Kellee Hubbard at [REDACTED] or email at [REDACTED].

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
300 Sower Boulevard
Franklin, KY 40501

Issued By:

Kellee Hubbard
Drinking Water CTAB Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: August 8, 2019

How Delivered: Certified Registered #7917 2520 0096 1925 7301



ENERGY AND ENVIRONMENT CABINET

Matthew G. Bevin
Governor

Department for Environmental Protection
Division of Water
300 Sower Boulevard
Franklin, Kentucky 40501
www.water.ky.gov

Charles G. Starnely
Secretary

Anthony R. Henton
Commissioner

August 8, 2019

CERTIFIED MAIL: 701 2620 0000 1452 7047
RETURN RECEIPT REQUESTED

JAMES POINDEXTER
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

Re: NOTICE OF VIOLATION
AL ID: 54096
PWSID: KY102553
PWS NAME: LIVINGSTON MUNICIPAL WATER WORKS
COUNTY: ROCKCASTLE

Dear Mr. Poindexter:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadline.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Cynthia Singleton at [redacted] email at [redacted].

Sincerely,

Keller Hubbard
Drinking Water CTA Acting Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure



KentuckyUnderserved.com



An Equal Opportunity Employer M/F/D

COMMONWEALTH OF KENTUCKY ENERGY & ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

PWSID: KY102553
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AL ID: 54096
County: ROCKCASTLE
Violation Number: 2019 - 0673468
Determination Date: 02/11/2019
Violation Type: 71 CCR REPORT
Comments: This is a violation of the provisions cited below.

Public Water Systems are subject to the requirements of 401 KAR Chapter 8, 401 KAR 8-020 Section 1. This is to advise that you are in violation of the provisions cited below.

Description of Non-Compliance:
401 KAR 8-020, Section 1. (1) CONSUMER CONFIDENCE REPORT The public water system failed to submit the Consumer Confidence Report (CCR) to the Department for Environmental Protection. The system was required to distribute the CCR to customers and submit a copy to the Kentucky Department for Environmental Protection by July 1. See "Comments" below for details specifying the nature of the violation.

Comments: Failure to deliver to the public and submit the calendar year 2017 CCR by the annual deadline of July 1st. The CCR was not delivered to the public until late July and was not submitted to the Primary until mid October. Detail this violation in the next CCR's violation statement (if).

The remedial measure(s) and date(s) to be completed by are as follows:

This Notice of Violation must be discussed, detailing the nature of the violation, in next year's CCR that is due to the customers and the Department of Environmental Protection, Division of Water, by July 1st, annually.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violators carry civil penalties of up to \$25,000 per day per violation depending on the class of regulation violated. In addition, violations may be concurrently reported. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://www.kydrinkingwaterwatch.com>.

If you have questions or need further information, write or call Cynthia Singleton at [redacted] email at [redacted].

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
300 Sower Boulevard
Franklin, KY 40501

Issued By:
Keller Hubbard
Drinking Water CTA Acting Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: August 8, 2019

How Delivered: Certified Registered #7017 2620 0000 1452 7047



ENERGY AND ENVIRONMENT CABINET

Department for Environmental Protection
300 Sower Boulevard
Franklin, Kentucky 40501
www.water.ky.gov

Rebecca Goodman
Secretary

Anthony R. Henton
Commissioner

November 30, 2020

CERTIFIED MAIL: 701 2620 0001 9910 2041
RETURN RECEIPT REQUESTED

JAMES POINDEXTER
LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

Re: NOTICE OF VIOLATION
AL ID: 54096
PWSID: KY102553
PWS NAME: LIVINGSTON MUNICIPAL WATER WORKS
COUNTY: ROCKCASTLE

Dear Mr. Poindexter:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadline.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Cynthia Singleton at [redacted] email at [redacted].

Sincerely,

Keller Hubbard
Environmental Compliance Supervisor
Drinking Water Branch
Division of Water

C: Drinking Water Program files
Enclosure

KentuckyUnderserved.com



An Equal Opportunity Employer M/F/D

COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To: LIVINGSTON MUNICIPAL WATER WORKS
PO BOX 654
LIVINGSTON, KY 40445

PWSID: KY102023
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AI ID: 34096
County: ROCKCASTLE
Violation Number: 2021-0073469
Detection Date: 10/06/2020
Compliance Period: 06/01/2020 to 07/31/2020
Violation Type: MD MINIMUM DS RESIDUAL
PWS Facility: 102033DB501 DISTRIBUTION - LIVINGSTON MUN WATER WORK
Compliance: 9999 CHLORINE

Public Water Systems are subject to the requirements of 401 KAR Chapter 8 [401 KAR 8:020 Section 1].
This is to advise that you are in violation of the provision(s) cited below.

Description of Non Compliance:

401 KAR 8:020 & 8:150 CHLORINE The public water system failed to report on the MOR an adequate number of results for disinfectant residual in the distribution system for the compliance period 06/01/2020 to 07/31/2020.

Comments: Failed to collect and report minimum daily chlorine residual samples throughout the distribution system (MOR p.7) on the day 31 for August 2020.

The remedial measure(s) and date(s) to be completed by are as follows:

Submit the data, if available, to the Division of Water within thirty (30) days of receipt of this Notice of Violation. If data isn't available, Collect and report all required samples for the next compliance period, and submit within 10 days after the compliance period ends.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulation violated. In addition, violations may be deemed to be willful. Compliance with remedial measures and their deadlines does not provide a measure of civil liability for violations during the period of remediation nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://drinkingwater.ky.gov/DWWA/>.

If you have questions or need further information regarding MOR Compliance contact Tekuya Brown at tekuya.brown@ky.gov or email at tekuya.brown@ky.gov.

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
300 Newer Boulevard
Frankfort, KY 40601

Issued By:

Keller M. Hubbard
Environmental Control Supervisor
Drinking Water Branch
Division of Water

Date: November 30, 2023

How Delivered: Certified Registered #10497820 0001 0410 1063

AMANDA THOMAS
City Clerk



ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER
875 N. U.S. HIGHWAY
LOUISVILLE, KY 40204

July 14, 2021

Email to Amanda Thomas, City Clerk
Return Receipt Requested

Dwane King, Mayor
City of Livingston
Livingston Municipal Water Works
313 Main St
Livingston, KY 40445

Re: Notice of Violation
AI ID: 34096
AI Name: Livingston Municipal Water Works
Activity ID: ENV20210001
PWSID No. KY1020233
Rockcastle County, KY

Dear Mayor:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Your cooperation and attention to this matter is appreciated. If you have any questions, please contact myself or Rob Miller at rob.miller@ky.gov.

Sincerely,

Rob Miller

Ms. Rob Miller,
Inspector
Division of Water

Enclosure

COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To: Dwane King, Mayor
City of Livingston
Livingston Municipal Water Works
313 Main St
Livingston, KY 40445

AI Name: Livingston Municipal Water Works
Discovery ID: CIN20210003
Enforcement Case ID:
Date(s) Violation(s) Observed: 07/14/2021

AI ID: 34096 Activity ID: ENV20210001
County: Rockcastle

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item A10000000340960:

A public or semipublic water system shall be subject in the requirements of 401 KAR Chapter 8, except those exempted in 40 CFR 141.3, effective July 1, 2007. [401 KAR 8:020 Section 1]

Description of Non Compliance:

The chlorine residual in the distribution system has not been monitored daily during June and July 2021, as required.

The system has not maintained a daily chlorine residual log.

The remedial measure(s), and date(s) to be completed by are as follows:

The chlorine residual level within the public water system shall be monitored daily.

Monitoring records shall be completed at the time of sample collection and analysis and they must be maintained for review.

Within 7 days of receipt of this notice, please provide a written corrective action plan to the Inspector for review.

Failure to do so, or continued violation of this requirement, may subject you to the Division of Enforcement for the assessment of penalties [401 KAR 8:020 Section 1].

2 Violation Description for Subject Item A10000000340960:

Operational procedures at (Class I/A-D, I/B-D, or I/B-D) water systems shall be conducted by or under the supervision of a certified water system operator who holds a valid combination or separate water treatment and distribution system operator certificate of the appropriate class and who is in direct responsible charge of the system. [401 KAR 8:030 Section 401 KAR 8:030(1)(2)(b)]

Description of Non Compliance:

The system has been without a Certified Operator since June 29, 2021. As of the time of this report, that equals 16 operational days.

The remedial measure(s), and date(s) to be completed by are as follows:

The water distribution system shall be operated by or under the supervision of a distribution system operator certified in a class equal to or higher than the class of the distribution system.

Within 7 days of receipt of this notice, please provide a written corrective action plan to the Inspector for review.

Failure to do so, or continued violation of this requirement, may subject you to the Division of Enforcement for the assessment of penalties. [401 KAR 8:020 Section 1(3)(a)]

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulation violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Division of Water
London Regional Office
875 S Main St
London, KY 40311
(8:30 AM - 4:30 PM)
Ms. Beth Trent, Environmental Inspector

Received from Signature of:

Beth Trent

Issued By:

Ms. Beth Trent, Environmental Inspector
Date: July 24, 2021

Received from Signature of:

Rob Miller

Issued By:

Mr. Rob Miller, Environmental Control Supervisor
Date: July 24, 2021

How Delivered: email to Amanda Thomas, amanda.thomas@kentucky.gov



ENERGY AND ENVIRONMENT CABINET

Department for Environmental Protection
100 S. Limestone
Frankfort, Kentucky 40601
www.ky.gov

Rebecca Goodman
Secretary

Andrew R. Hader
Commissioner

September 3, 2021

CERTIFIED MAIL: 7020 0640 0000 2406 8319
RETURN RECEIPT REQUESTED

AMANDA THOMAS
LIVINGSTON MUNICIPAL WATER WORKS
P.O. BOX 654
LIVINGSTON, KY 40445

Re: NOTICE OF VIOLATION

AI ID: 34096
PWSID: KY1020253
PWS NAME: LIVINGSTON MUNICIPAL WATER
WORKS
COUNTY: ROCKCASTLE

Dear Ms. Thomas:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

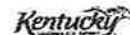
Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Tereyia Brown at [redacted] or email at [redacted].

Sincerely,
[Signature]

Alicia Jacobs
Branch Manager
Drinking Water Branch
Division of Water

C: Drinking Water Program Files
Enclosure

KentuckyUnlimitedSpeed.com



An Equal Opportunity Employer M/F/D

COMMONWEALTH OF KENTUCKY ENERGY & ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
P.O. BOX 654
LIVINGSTON, KY 40445

PWSID: KY1020253
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AI ID: 34096
County: ROCKCASTLE
Violation Number: 2021-0675472
Determination Date: 08/03/2021
Compliance Period: 08/03/2021 - 06/09/2022
Violation Type: OK MOR, FAILURE TO SUBMIT PWS Facility: 02025305061 DISTRIBUTION - LIVINGSTON
MUN WATER WORKS
Contaminant: MOR MONTHLY OPERATING REPORT

Public Water Systems are subject to the requirements of 401 KAR Chapter 8 [401 KAR 8:020 Section 1].
This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:
401 KAR 8:020 MONTHLY OPERATING REPORT. The public water system failed to submit the Monthly Operating Report for the compliance period 08/03/2021 - 06/09/2022.

Comments: System failed to submit MOR for June 2021 monitoring period.

The remedial measure(s) and date(s) to be completed by are as follows:
Submit the data, if available, to the Division of Water within fifteen (15) days of receipt of this Notice of Violation. If data is not available, collect and report all required samples for the next compliance period, and submit within 10 days after the next compliance period.

Violations of the above cited statute and/or regulation are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulation violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://kdpw.kentucky.gov/kdpw/>

If you have questions or need further information regarding MOR Compliance contact Tereyia Brown at [redacted] or email at [redacted].

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Branch
Division of Water, Department for Environmental Protection
100 S. Limestone
Frankfort, KY 40601

Received from Signature of:

Alicia Jacobs

Issued By:

Alicia Jacobs
Branch Manager
Drinking Water Branch
Division of Water

Date: September 3, 2021

How Delivered: Certified/Registered #7020 0640 0000 2406 8319



ENERGY AND ENVIRONMENT CABINET
Department for Environmental Protection
800 Sower Boulevard
Frankfort, Kentucky 40601
www.ky.gov

Andy Rehear
Director

Rebecca Goodman
Secretary
Anthony R. Hatten
Compliance Section

September 3, 2021

CERTIFIED MAIL 7020 0640 0000 2406 8296
RETURN RECEIPT REQUESTED

AMANDA THOMAS
LIVINGSTON MUNICIPAL WATER WORKS
P.O. BOX 654
LIVINGSTON, KY 40445

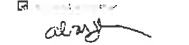
RE: NOTICE OF VIOLATION
AID: 34096
PWSID: KY1020251
PWS NAME: LIVINGSTON MUNICIPAL WATER
WORKS
COUNTY: ROCKCASTLE

Dear Ms. Thomas:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Tekiya Brown at [redacted] or email at [redacted].

Sincerely,



Alex Jacobs
Branch Manager
Drinking Water Branch
Division of Water

C: Drinking Water Program files
Enclosure

File # KY000000000000



An Equal Opportunity Employer M/F/D/V

COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
P.O. BOX 654
LIVINGSTON, KY 40445

PWSID: KY1020251
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AID: 34096
County: ROCKCASTLE
Violation Number: 2021-0673473
Determination Date: 08/31/2021
Compliance Period: 06/01/2021 - 06/30/2021
Violation Type: MD MINIMUM DS RESIDUAL
PWS Facility: LIVINGSTON MUNICIPAL WATER WORKS
Contaminant: 0999 CHLORINE

Public Water Systems are subject to the requirements of 401 KAR Chapter 8, (401 KAR 8-020 Section 1). This is to advise that you are in violation of the provision(s) cited below:

Description of Non-Compliance:
401 KAR 8-020 & 8-150 CHLORINE The public water system failed to report on the MOR an accurate number of results for disinfectant residual in the distribution system for the compliance period 06/01/2021 - 06/30/2021.

Comments: SRKD: Failed to collect and report minimum daily chlorine residual samples throughout the distribution system (MOR page 7) for the June 2021 monitoring period.

The remedial measure(s) and date(s) to be completed by are as follows:
Submit the data, if available, to the Division of Water within thirty (30) days of receipt of this Notice of Violation. If data isn't available, collect and report all required samples for the next compliance period, and submit within 10 days after the next compliance period.



ENERGY AND ENVIRONMENT CABINET
Department for Environmental Protection
800 Sower Boulevard
Frankfort, Kentucky 40601
www.ky.gov

Andy Rehear
Director

Rebecca Goodman
Secretary
Anthony R. Hatten
Compliance Section

September 30, 2021

CERTIFIED MAIL 7020 0640 0000 2406 8296
RETURN RECEIPT REQUESTED

AMANDA THOMAS
LIVINGSTON MUNICIPAL WATER WORKS
P.O. BOX 654
LIVINGSTON, KY 40445

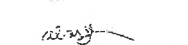
RE: NOTICE OF VIOLATION
AID: 34096
PWSID: KY1020251
PWS NAME: LIVINGSTON MUNICIPAL WATER
WORKS
COUNTY: ROCKCASTLE

Dear Ms. Thomas:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Tekiya Brown at [redacted] or email at [redacted].

Sincerely,



Alex Jacobs
Branch Manager
Compliance Section
Drinking Water Branch
Division of Water

C: Drinking Water Program files
Enclosure

File # KY000000000000



An Equal Opportunity Employer M/F/D/V

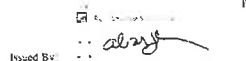
Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulations violated. In addition, violations may be concurrently criminal. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://drinkingwater.ky.gov/DWW2/>.

If you have questions or need further information regarding MOR Compliance contact Tekiya Brown at [redacted] or email at [redacted].

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Branch, Compliance Section
Division of Water, Department for Environmental Protection
800 Sower Boulevard
Frankfort, KY 40601

Issued By: 

Alex Jacobs
Branch Manager
Drinking Water Branch
Division of Water

Date: September 3, 2021

How Delivered: Certified/Registered #7020 0640 0000 2406 8296

COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENTAL CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To: LIVINGSTON MUNICIPAL WATER WORKS
P.O. BOX 654
LIVINGSTON, KY 40445

PWSID: KY103051
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS AI ID: 34096
County: ROCKCASTLE
Violation Number: 2021-0775474
Determination Date: 09/27/2021
Compliance Period: 07/01/2021-07/31/2021
Violation Type: MD MINIMUM PRESSURE
PWS Facility: LIVINGSTON, 1205 TRAIL, LIVINGSTON, KY 40445
Contaminant: 0900 CHLORINE

Public Water Systems are subject to the requirements of 401 KAR Chapter 8, [401 KAR 8-020 Section 1].
This is to advise that you are in violation of the provisions cited below.

Description of Non Compliance:
401 KAR 8-020, 1.03 CHLORINE The public water system failed to report on the MOR an adequate number of residuals for disinfectant residual in the distribution system for the compliance period 07/01/2021-07/31/2021.

Comment: 1. DRD: Failed to collect and report minimum disinfectant residual samples throughout the distribution system (5/9/21, 6/7/21, 6/11/21, & 6/15/21) for July 2021.

The remedial measure(s) and date(s) to be completed by are as follows:
Submit the data, if possible, to the Division of Water within thirty (30) days of receipt of this Notice of Violation. If data isn't available, submit an explanation and collect and report all required samples for the next compliance period, and submit within 10 days after the next compliance period.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulation violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & minimum requirements can be easily accessed on Kentucky Drinking Water Watch at <http://drinkingwater.ky.gov>.

If you have questions or need further information regarding MOR Compliance contact Lillian Brown at [REDACTED] email at [REDACTED].

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Branch
Division of Water, Department for Environmental Protection
200 Sower Boulevard
Frankfort, KY 40601

Issued By:

Alicia Jacobs
Branch Manager
Compliance Section
Drinking Water Branch
Division of Water

Date: September 30, 2021

How Delivered: Certified Registered 07/27/2021 09:04:24 AM +74

ANSPS RECEIVED
September 30, 2021



ENERGY AND ENVIRONMENTAL CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
275 N. MAIN ST.
FRANKFORT, KY 40601
(502) 562-5700

October 11, 2021

Certified No. 7020 0640 0000 | 685 0366
Return Receipt Requested

Livingston Municipal Water Works
PO Box 654
Livingston, KY 40445

Re: Notice of Violation
AI ID: 34096
AI Name: Livingston Municipal Water Works
Activity ID: ENV20210005
Rockcastle County, KY

Dear City of Livingston,

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Your cooperation and attention to this matter is appreciated. If you have any questions, please contact me at [REDACTED].

Sincerely,

[Signature]

Mr. Rob Miller,
Environmental Control Supervisor
Division of Water

Enclosure

COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENTAL CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To: Livingston Municipal Water Works
PO Box 654
Livingston, KY 40445

AI Name: Livingston Municipal Water Works AI ID: 34096 Activity ID: ENV20210005
Discovery ID: CIV20210001 County: Rockcastle
Date(s) Violation(s) Observed: 10/08/2021

This is to advise that you are in violation of the provisions cited below:

1. Violation Description for Subject Item AIOO00000340960:
A public or semipublic water system shall be subject to the requirements of 401 KAR Chapter 8, except those exempted in 40 CFR 141.3, effective July 1, 2007. [401 KAR 8-020 Section 1]

Description of Non Compliance:

Livingston Municipal Water Works is not providing adequate pressure to multiple customers on the far north end of the distribution system. Recommended Standards for Water Works (AKA 10 State Standards) Section 8.2.1 states "The system shall be designed to maintain a minimum pressure of 20 PSI at ground level at all points in the distribution system under all condition of flow." These standards are incorporated by reference in 401 KAR 8-020. The system is not able to maintain a minimum pressure of 20 PSI at multiple locations in the north end of the distribution system.

The remedial measure(s), and date(s) to be completed by are as follows:

Livingston Municipal Water Works shall provide the minimum required pressure (20 PSI) to all customer meters at all times. Within 14 days of the receipt of this notice they system shall restore the minimum pressure to all affected customers. Failure to do so will result in a referral to the Division of Enforcement.

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

If you have questions or need further information, write or call the undersigned:

Division of Water
London Regional Office
875 S Main St
London, KY 40341-1902
(502) 562-5700
8:00 AM - 4:30 PM
Mr. Rob Miller, Environmental Control Supervisor

Issued By:

[Signature]
Mr. Rob Miller, Environmental Control Supervisor
Date: October 11, 2021

How Delivered: Certified Mail Certified/Registered # 7020 0640 0000 | 685 0366



ENERGY AND ENVIRONMENT CABINET

Andy Beshear
Governor

Department for Environmental Protection
300 Sower Boulevard
Frankfort, Kentucky 40601
www.waterky.gov

Michelle Goodrich
Secretary
Anthony M. Hinton
Executive Director

November 1, 2021

CERTIFIED MAIL: 7030 0640 2900 2406 5926
RETURN RECEIPT REQUESTED

AMANDA THOMAS
LIVINGSTON MUNICIPAL WATER WORKS
P.O. BOX 654
LIVINGSTON, KY 40445

RE: NOTICE OF VIOLATION
ATIP: 34096
PWSID: KY1020253
PWS NAME: LIVINGSTON MUNICIPAL WATER
WORKS
COUNTY: ROCKCASTLE

Dear Ms. Thomas:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadline.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Tekoyia Brown at [REDACTED].

Sincerely,

Alan Jacoby
Branch Manager
Drinking Water Branch
Division of Water

C: Drinking Water Program Files
Enclosure

www.kywater.gov



At Equal Opportunity Employer M/F/V

COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To:
LIVINGSTON MUNICIPAL WATER WORKS
P.O. BOX 654
LIVINGSTON, KY 40445

PWSID: KY1020253
PWS Name: LIVINGSTON MUNICIPAL WATER WORKS ATID: 34096
County: ROCKCASTLE
Violation Number: 2022-0671475
Determination Date: 10/06/2021
Compliance Period: 08/01/2021 - 08/31/2021
Violation Type: MTS INFRASTRUCTURE DEFECTS
PWS Facility: 1020253PA, ROUNDSTONE CREEK WTP
Contaminant: 0596 CHLORINE

Public Water Systems are subject to the requirements of 401 KAR Chapter 8 (401 KAR 8-020 Section 1).
This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:

401 KAR 8-020 & 8-150 CHLORINE The public water system failed to report on the MOR an adequate number of results for disinfectant residual in the distribution system for the compliance period 08/01/2021 - 08/31/2021.

Comments: MDRD failed to collect and report minimum daily chlorine residual samples throughout the distribution system (MOR p.7) on the day 01-08 for August 2021.

The remedial measure(s) and date(s) to be completed by are as follows:

Submit the data, if available, to the Division of Water within thirty (30) days of receipt of this Notice of Violation. If data isn't available, collect and report all required samples for the next compliance period, and submit within 10 days after the next compliance period.

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulation violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gov/ky-regs-DWW>.

If you have questions or need further information regarding MOR Compliance contact Tekoyia Brown at [REDACTED] or email at [REDACTED].

ALL DOCUMENTATION MUST BE SUBMITTED TO:

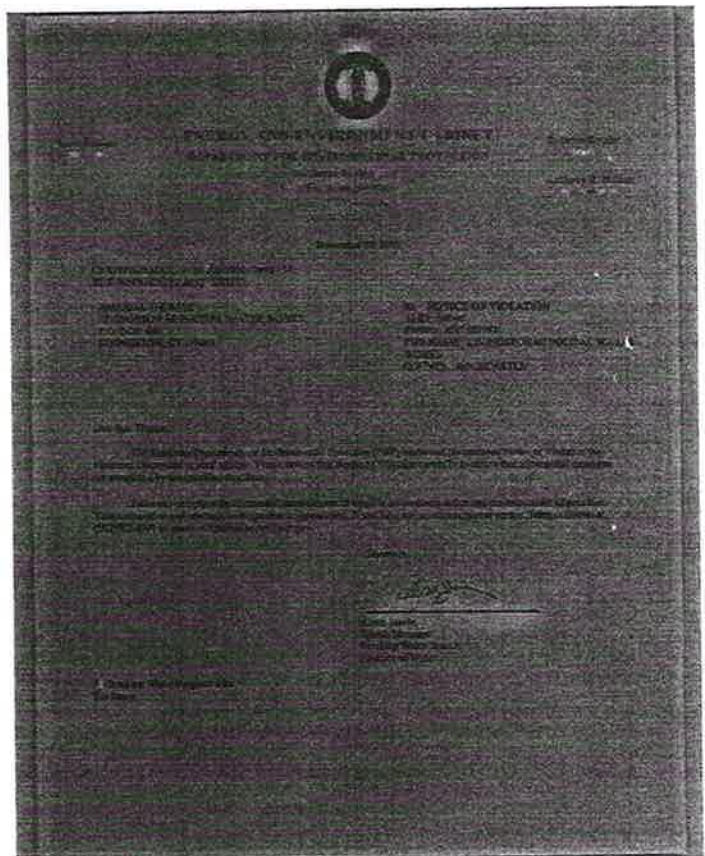
Drinking Water Branch
Division of Water, Department for Environmental Protection
300 Sower Boulevard
Frankfort, KY 40601

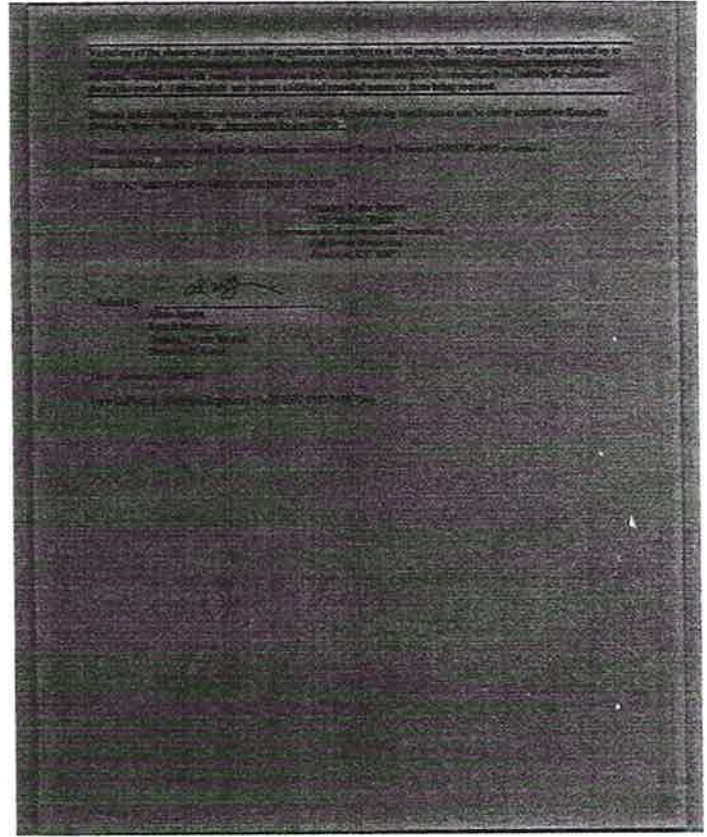
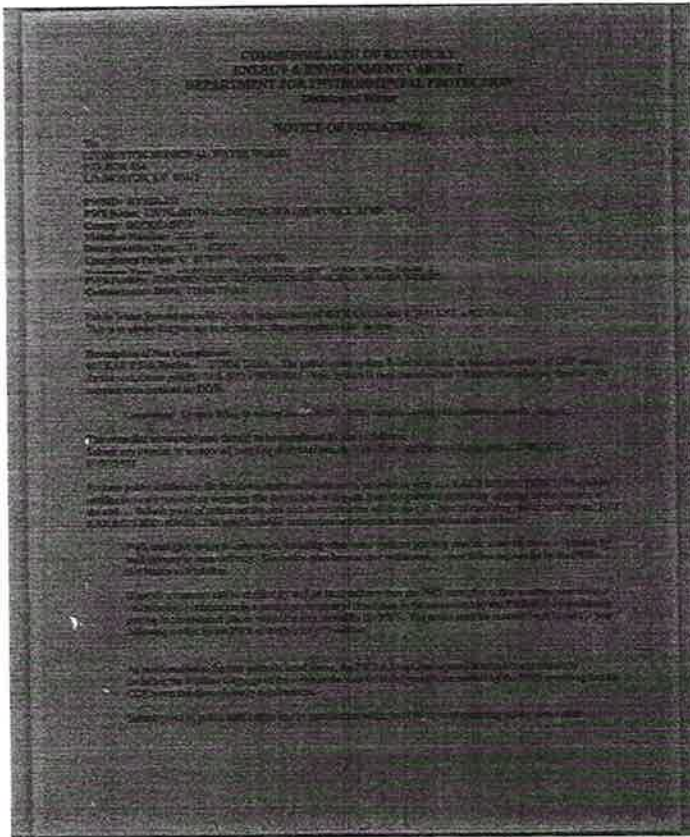
Signed By:

Alan Jacoby
Branch Manager
Drinking Water Branch
Division of Water

Date: November 1, 2021

How Delivered: Certified Registered 7030 0640 0940 2406 5909





ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER
LONDON REGIONAL OFFICE
875 S. MAIN ST.
LONDON, KY 40741

January 20, 2023

Certified No: 7022 0410 0003 4878 4468
Return Receipt Requested

Mayor Larry Davidson
Livingston Municipal Water Works
PO Box 654
Livingston, KY 40445

Re: Notice of Violation
AI ID: 34096
AI Name: Livingston Municipal Water Works
Activity ID: ENV20230001
Permit No: KY1020253
Rockcastle County, KY

Dear Mayor Davidson:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered within the City's Drinking Water system. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Your cooperation and attention to this matter is appreciated. If you have any questions, please contact me at [REDACTED].

Sincerely,

Beth Trent

Ms. Beth Trent,
Environmental Inspector
Division of Water

Enclosure

COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To: Livingston Municipal Water Works
PO Box 654
Livingston, KY 40445

AI Name: Livingston Municipal Water Works AI ID: 34096 Activity ID: ENV20230001
Discovery ID: CIV20230001 County: Rockcastle
Enforcement Case ID:
Date(s) Violation(s) Observed: 01/18/2023

This is to advise that you are in violation of the provisions cited below:

- 1 Violation Description for Subject Item AIO000000340960:
Operational procedures at (Class ID) water systems shall be conducted by or under the supervision of a certified water system operator who holds a valid distribution system operator certificate of the appropriate class and who is in direct responsible charge of the system. [401 KAR 8:030 (1)(3)(a)]

Description of Non Compliance:

Since December 29, 2022, the Class 1 distribution system has not been operated by a Certified Operator.

The remedial measure(s), and date(s) to be completed by are as follows:
Immediately begin operating the distribution system under the supervision of a Class ID (or higher) Certified Operator.

Within 14 days of receipt of this notice, notify the Inspector in writing of the actions taken to achieve compliance.

Other actions as determined by the Division of Enforcement. [401 KAR 8:030 Section 1(3)(a)]

- 2 Violation Description for Subject Item AIO000000340960:
A public or semipublic water system shall be subject to the requirements of 401 KAR Chapter 8, except those exempted in 40 CFR 141.3, effective July 1, 2007. [401 KAR 8:020 Section 1]

Description of Non Compliance:

Since December 29, 2022, no daily chlorine monitoring has been conducted by the Class 1 distribution system.

The remedial measure(s), and date(s) to be completed by are as follows:
Immediately begin monitoring the chlorine residual daily within the distribution system.

Within 14 days of receipt of this notice, notify the Inspector in writing of the actions taken to achieve compliance.

Other actions as determined by the Division of Enforcement. [401 KAR 8:020 Section 1]

COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulation violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required. If you have questions or need further information, write, call or email the undersigned.

Division of Water
London Regional Office
875 S Main St
London, KY 40341
(8:00 AM - 4:30 PM)

Ms. Beth Trent, Environmental Inspector

Issued By: Beth Trent
Ms. Beth Trent, Environmental Inspector
Date: February 20, 2023

Issued By: Rob Miller
Mr. Rob Miller, Environmental Control Supervisor
Date: February 20, 2023

How Delivered: USPS - Certified Mail with return receipt
Certified/Registered # 7022 0410 0003 4878 4468



ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
LONDON REGIONAL OFFICE
875 SOUTH MAIN STREET
LONDON, KY 40341

Rebecca W. Goodman
Anthony R. Hutton

February 27, 2023

Email delivery
Return Receipt Requested

Mayor Larry Davidson
Livingston Municipal Water Works
Livingston, KY 40445

Re: Notice of Violation
AI ID: 34096
AI Name: Livingston Municipal Water Works
Activity ID: ENV20230002
Permit No: KY1020253
Rockcastle County, KY

Dear Mayor Davidson:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed SECOND Notice of Violation for violations discovered within the City's Drinking Water system. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Your cooperation and immediate attention to this matter is appreciated. If you have any questions, please contact me by email or at [REDACTED].

Sincerely,

Beth Trent

Ms. Beth Trent,
Environmental Inspector
Division of Water

Enclosure

KentuckyEEC | EEC KY | V

TEAM
KENTUCKY.

An Equal Opportunity Employer M/F/D

COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

SECOND NOTICE OF VIOLATION

To: Livingston Municipal Water Works
313 Main St / PO Box 654
Livingston, KY 40445

AI Name: Livingston Municipal Water Works AI ID: 34096 Activity ID: ENV20230002
Discovery ID: CIV20230002 County: Rockcastle
Enforcement Case ID:
Date(s) Violation(s) Observed: 02/27/2023

This is to advise that you are in violation of the provisions cited below:

I. Violation Description for Subject Item AIO00000340960:

Operational procedures at [Class 1A-D, 1B-D, or 1B-D] water systems shall be conducted by or under the supervision of a certified water system operator who holds a valid combination or separate water treatment and distribution system operator certificate of the appropriate class and who is in direct responsible charge of the system. [401 KAR 8:030 Section 401 KAR 8:030(1)(2)(b)]

Description of Non Compliance:

Since December 29, 2022, the Class I distribution system has not been operated by a Certified Operator. A Notice of Violation (NOV) was issued on January 20, 2023 (ENV20230001) for not having a Certified Operator to operate the system and for not performing daily chlorine monitoring within the distribution system. The NOV required a written response within 14 days of receipt of the NOV. The City submitted a late response dated February 17, 2023 that was insufficient (see the attachment). The system remains in violation of 401 KAR 8:030 Section 1(3)(a). The matter has been referred to the Division of Enforcement and should be immediately addressed.

The remedial measure(s), and date(s) to be completed by are as follows:

Immediately begin operating the distribution system under the supervision of a Class ID (or higher) Certified Operator.

Within 14 days of receipt of this notice, notify the Inspector in writing of the actions taken to achieve compliance.

Other actions as determined by the Division of Enforcement. [401 KAR 8:030 Section 1(3)(a)]

COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulation violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required. If you have questions or need further information, write, call or email the undersigned.

Division of Water
London Regional Office
875 S Main St
London, KY 40341
(8:00 AM - 4:30 PM)

Ms. Beth Trent, Environmental Inspector

Issued By: Beth Trent
Ms. Beth Trent, Environmental Inspector
Date: February 22, 2023

Issued By: Rob Miller
Mr. Rob Miller, Environmental Control Supervisor
Date: February 22, 2023

How Delivered: email to Samantha Stoker, City Clerk

Andy the Dwarf
 1992-1993

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

3rd Street, Newark, NJ
Franklin, Kentucky 40501
Phone 1-512-504-2164
Fax 512-504-4245
March 7, 2023

Hydrogen Conditions

Anthony R. Flation

CERTIFIED MAIL: 7020 0640 0000 2406 5370
RETURN RECEIPT REQUESTED

AMANDA THOMAS
LIVINGSTON MUNICIPAL WATER WORKS
P.O. BOX 654
LIVINGSTON, KY 40415

Re: NOTICE OF VIOLATION
AID: 34096
PWSID: KY1020253
PWS NAME: LIVINGSTON MUNICIPAL WATER
WORKS
COUNTY: ROCKCASTLE

Dear Ms. Thomas:

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Notice of Violation for violations discovered at your facility. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Tekoyia Brown at [REDACTED] or email at [REDACTED].

Sincerely,

 [Download the app](#)

Alicia Jacobs
Branch Manager
Drinking Water Branch
Division of Water

C: Drinking Water Program files
Enclosure

TEAM  KENTUCKY.

* Equal Opportunity Employer M/F/V/H

Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detuned information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dm.kentucky.gov/DWW>.

If you have questions or need further information regarding MOR Compliance contact Tekoyia Brown at [REDACTED] or email at [REDACTED]

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Branch
Division of Water, Department for Environmental Protection
300 Sower Boulevard
Frankfort, KY 40601

 Receber: 2012-07-20

Issued By:

Alicia Jacobs
Branch Manager
Drinking Water Branch
Division of Water

Date: March 7, 2023

How Delivered: Certified-Registered #7020 0640 0000 2406 5370



ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

LONDON REGIONAL OFFICE
875 SOUTH MAIN STREET
LOUISVILLE, KY. 40241

Rebecca W. Goodman

Anthony R. Hutton

March 23, 2023

Email delivery to City Hall at cityofficings@cityand-county.net
Return Receipt Requested

Mayor Larry Davidson
Livingston Municipal Water Works
PO Box 654
Livingston, KY 40445

Re: Notice of Violation
 AI ID: 34096
 AI Name: Livingston Municipal Water Works
 Activity ID: ENV20230003
 Permit No.: KY1020253
 Rockcastle County, KY

Dear Mayor Davidson

The Kentucky Department for Environmental Protection (DEP) has issued the enclosed (third) Notice of Violation for violations discovered within the City's Drinking Water system. Please review this Notice of Violation carefully to ensure that all remedial measures are completed by the specified deadlines.

Your cooperation and attention to this matter is appreciated. If you have any questions, please contact me by email at [REDACTED] or at [REDACTED]

Sincerely,

Beth Luent

Ms. Beth Trent,
Environmental Inspector
Division of Water

Enclosure

COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

NOTICE OF VIOLATION

To: Livingston Municipal Water Works
313 Main St / PO Box 654
Livingston, KY 40445

AI Name: Livingston Municipal Water Works
Discovery ID: CYN20230001
Enforcement Case ID:
Date(s) Violation(s) Observed: 03/08/2023

AI ID: 34096 Activity ID: ENV20230003
County: Rockcastle

This is to advise that you are in violation of the provisions cited below:

1 Violation Description for Subject Item A1000000340960:

A public or semi-public water system shall be subject to the requirements of 401 KAR Chapter 8, except those exempted in 401 KAR 141.3, effective July 1, 2007. [401 KAR 8:020 Section 1]

Description of Non Compliance:

MORs are not submitted on time with a valid, authorized signature.

The system is not operated effectively.

The Wood Creek Water master meter pit is located beside of Hwy 25. Upon arrival a lock was present but the lid was open and the pit was accessible to the public. Upon arrival, the tank was overflowing at a high rate. The 111" overflow pipe was leaking water at every seam. The tank's concrete foundation was wet. The ground around the tank was wet. Ice was present on the fence and ground indicating the overflow had been occurring since the pre-dawn hours that had below freezing temperatures.

The inspection was prompted due to the report of a low chlorine residual near the end of the consecutive system on 3/8/23. The consecutive system began flushing to try to get the chlorine residual up. No chlorine monitoring occurred in Livingston in the 4 days preceding the report. Free chlorine on 2/3/23 was 0.48 mg/l. During the inspection, Livingston's tank overflow had a residual of 0.78 mg/l and water going in to the tank was 1.36 mg/l free indicating stratification of the tank.

System monitoring is not performed accurately or as required. The January 2023 MOR indicates that the system monitored the chlorine residual 6 of the 31 days. For those 6 monitoring events, major gaps exist between the free and the total chlorine readings: 1.26, 1.19, 1.18, 1.35, 0.82 & 0.53. The February 2023 MOR indicates that the system monitored the chlorine residual 23 of the 28 days. A comment was attached to the MOR that stated "March 4th through 8th, an error with the chlorine tester was occurring resulting in inaccurate readings. The issue was resolved on the 9th and accurate readings are provided." Major gaps exist between the free and total readings again in February, the largest gap was 1.19 on 2/2/23. Mr. Modley needs more training in chlorine test methods. Zero routine bacteriological samples were collected in January 2023. (Two were collected in February 2023)

The remedial measure(s), and date(s) to be completed by are as follows:

Submit monitoring records as required. MORs must be signed by the principal executive authority and received by the 10th of the month following the end of the monitoring period.

COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

Secure the master meter pit to prevent public access.

Operate the tank level to prevent overflow.

Maintain the tank level to have an adequate chlorine residual to ensure the minimum chlorine residual is maintained throughout the system.

Monitor the chlorine residual in the distribution daily.

Accurately monitor the chlorine residual in the system.

Collect one, routine bacteriological sample per month.

Within 14 days of receipt of this notice, notify the Inspector in writing of the actions taken to achieve compliance.

Other actions as determined by the Division of Enforcement. [401 KAR 8:020 Section 1]

2 Violation Description for Subject Item A1000000340960:

Operational procedures at [Class LA-D, IB-D, or IIB-D] water systems shall be conducted by or under the supervision of a certified water system operator who holds a valid combination or separate water treatment and distribution system operator certificate of the appropriate class and who is in direct responsible charge of the system. [401 KAR 8:030 Section 1(3)(a)]

Description of Non Compliance:

Since December 29, 2022, the Class I distribution system has not been operated by a Certified Operator. Aaron Douglas Modley began working in the distribution system on 1/23/23. ENV20230001 was issued for the Violation on 1/18/23. ENV20230002 was issued for the Violation on 2/27/23. The issue was referred to the Division of Enforcement, case # DOW 23-3-0071, on 3/22/23.

The remedial measure(s), and date(s) to be completed by are as follows:

Immediately begin operating the distribution system under the supervision of a Class ID (or higher) Certified Operator.

Within 14 days of receipt of this notice, notify the Inspector in writing of the actions taken to achieve compliance.

Other actions as determined by the Division of Enforcement. [401 KAR 8:030 Section 1(3)(a)]

COMMONWEALTH OF KENTUCKY
ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water

Violations of the above cited statute(s) and/or regulation(s) are subject to a civil penalty per day per violation. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statute/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required. If you have questions or need further information, write, email or call the undersigned:

Division of Water
London Regional Office
875 S Main St
London, KY 40741
8:00 AM - 4:30 PM)
Ms. Beth Trent, Environmental Inspector

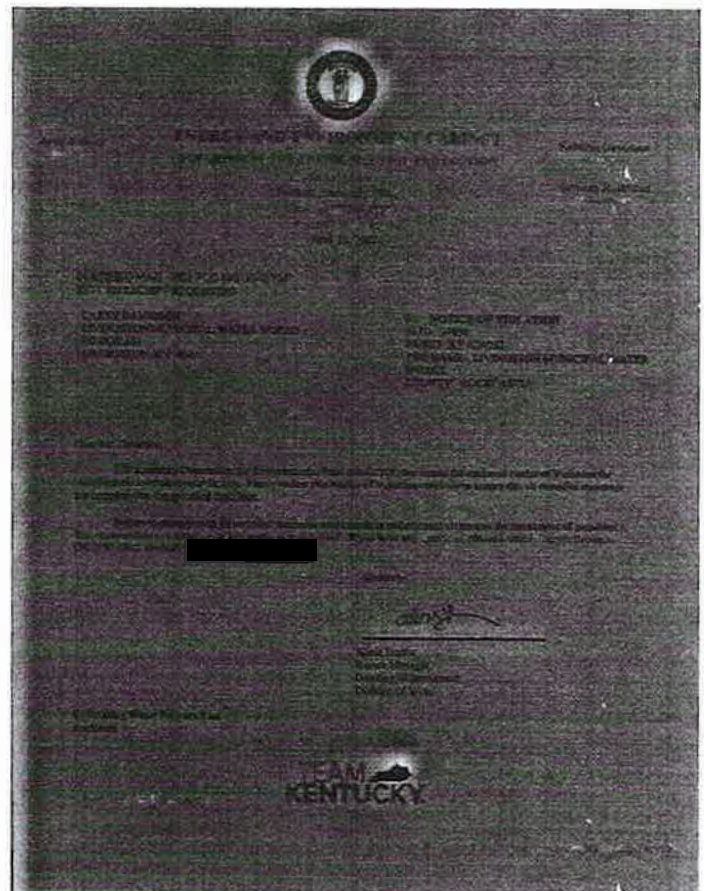
Issued By:

Beth Trent
Ms. Beth Trent, Environmental Inspector
Date: March 23, 2023

Issued By:

Rob Miller
Mr. Rob Miller, Environmental Control Supervisor
Date: March 23, 2023

How Delivered: E-mail delivery to City Hall to cityhall@livingstonkentucky.net




NOTICE OF 1738-87429

24. *Journal of the American Medical Association*, 277:1033-1034, 1997

1. **Identify the main idea of the passage.**
 2. **Identify the supporting details.**
 3. **Identify the author's purpose.**
 4. **Identify the author's tone.**
 5. **Identify the author's bias.**
 6. **Identify the author's point of view.**
 7. **Identify the author's audience.**
 8. **Identify the author's style.**
 9. **Identify the author's structure.**
 10. **Identify the author's language.**

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Thermally treated wood has been used for over 100 years to produce a durable, weather-resistant material. The process involves heating wood to temperatures between 180°C and 280°C, which causes chemical changes that improve its stability and strength. This treatment is commonly used for outdoor furniture, decking, and structural elements in construction.

| | | |
|--|--|--|
| Form 1 | KENTUCKY POLLUTION DISCHARGE ELIMINATION SYSTEM Permit Application |  Division of Water |
| NAME OF FACILITY: Livingston Wastewater Treatment Plant | | AGENCY USE ONLY |
| PERMIT NO.: KY0040703 | | COUNTY: ROCKCASTLE |
| This is an application to: (check one) <input checked="" type="checkbox"/> Apply for a new permit. <input type="checkbox"/> Apply for reissuance of expiring permit. <input type="checkbox"/> Modify an existing permit.* (Give reason for modification under Section III) A complete application consists of this form (Form 1), and one or more of the following: Form A, Form B, Form C, Form F, or Form SC. | | |
| I. FACILITY AND CONTACT INFORMATION | | |
| Name of business, municipality, company, etc. requesting permit: City of Livingston | | |
| Owner Name (and Title if applicable): City of Livingston | | |
| Owner Mailing Address (Street, etc.): P.O. Box 654 | | |
| Owner City, State, Zip: Livingston, Kentucky 40445 | | |
| Owner Telephone Number: 606-453-2061 | | |
| Owner Email Address: [REDACTED] | | |
| Type of Ownership: | <input checked="" type="checkbox"/> Publicly Owned <input type="checkbox"/> Privately Owned <input type="checkbox"/> State Owned <input type="checkbox"/> Both Publicly and Privately Owned <input type="checkbox"/> Federally Owned | |
| Contact Name and Title (if different): John Bray | | |
| Contact Mailing Address (if different): P.O. Box 654 | | |
| Contact City, State, Zip (if different): Livingston, Kentucky 40445 | | |
| Contact Telephone Number (if different): 606-453-2061 | | |
| Contact Email Address (if different): [REDACTED] | | |
| NetDMR Official Contact for Facility: Sandra Singleton and John Bray | | |
| NetDMR Official Contact Telephone Number: 606-453-2061 | | |
| NetDMR Official Contact Email Address: [REDACTED] | | |
| II. FACILITY LOCATION | | |
| Facility Location (street, road, highway, etc.): South Wilderness Road | | |
| Facility City, State, Zip: Livingston, Kentucky 40445 | | |
| Facility Latitude (Decimal Degrees): 37.294007 N | | |
| Facility Longitude (Decimal Degrees): 84.216255 W | | |
| <input type="checkbox"/> Attach a site location map with the facility and outfalls clearly marked. Provide either an aerial map, topographic map, or other map that identifies the site location and significant features. | | |

III. FACILITY DESCRIPTION

Provide a brief description of activities, products, etc.: Domestic wastewater from the citizens of the City of Livingston

* Reason for modifying existing permit, if applicable: N/A

Principal SIC Code and description: 4952

Other SIC Codes: N/A

IV. OPERATOR INFORMATION

Treatment Plant Operator Name: John Bray

Operator Mailing Address (Street, etc.): City of Livingston, P.O. Box 654

Operator City, State, Zip: Livingston, Kentucky 40445

Operator Telephone Number: 606-453-2061

Operator Email Address:

Operator Certification Class: II

Operator Certification Number:

V. ENVIRONMENTAL PERMITS/REGISTRATIONS FOR THIS FACILITY

KPDES Permit Number: KY0040703

Issue Date of Current Permit: February 1, 2019

Expiration Date of Current Permit: January 31, 2024

Date of Original Permit Issuance: unknown

☐ Other DOW Permits (list): N/A

☐ Sludge Disposal Permit Number: N/A

☐ Air Emission Source Control Permit Number: N/A

☐ Solid Waste or Special Waste Permit Number: N/A

☐ Hazardous Waste Registration or Permit Number: N/A

☐ Surface Mine or Underground Mine Permit Number: N/A

☐ Other (specify):

VI. PERMIT FEE (See instructions)

Select the type of permit being requested. See instructions for applicable fees and methods of payment. Additional information can be found in "General Instructions" at Water.Ky.Gov/Permitting/WastewaterDischarge

☐ Major Industry

☐ Large Non-POTW

☐ Minor Industry

☐ Intermediate Non-POTW

☐ Non-Process Industry

☐ Small Non-POTW

☐ Surface Mining Operation

☐ 501(c)(3)

☐ Agriculture

☒ Exempt Publicly Owned Facility

☐ Total Amount Enclosed \$

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

PRINTED NAME AND TITLE: Sandra Singleton, Mayor

SIGNATURE:

Sandra Singleton

DATE:

6-28-2024

TELEPHONE NO. 606-453-2061

EMAIL:

Return completed application form and attachments to:

Division of Water

Surface Water Permits Branch

300 Sower Boulevard, 3rd Floor

Frankfort, KY 40601

Direct questions to: Surface Water Permits Branch at

KPDES FORM 1 – INSTRUCTIONS

Section A: GENERAL INSTRUCTIONS

The facility name should be the official or legal name by which the facility is commonly known and/or uniquely identified. Do not use a colloquial name. List the county where the facility is located.

With the exceptions described in Section C of these instructions, Federal and State laws prohibit you from the discharge of pollutants into the waters of the United States or waters of the Commonwealth.


Where to File: Return completed application form and attachments to:
Division of Water
Surface Water Permits Branch
300 Sower Boulevard, 3rd Floor
Frankfort, KY 40601

When to File: File the application at least 180 days prior to expiration of your current KPDES permit or at least 180 days prior to startup of a new facility.

Fees: Permit Fees are listed in Section B of these instructions.

Completion of Form: Unless otherwise specified in the detailed instructions, you must answer each item in the form. To indicate that you have considered each item, enter "NA," for not applicable, if a particular item does not fit the circumstances of your facility or activity. If more space is necessary to answer a question, attach a separate sheet entitled "Additional Information."

Section B: COMPLETING FORM 1

Listed below are explanations of select Form 1 questions. If further information is needed concerning any section, please contact Division of Water, Surface Water Permits Branch at 

I. Facility and Contact Information

Use the official or legal name of the business, company, municipality, etc. requesting permit. Do not use a colloquial name. Give the name, as it is legally referred to, of the person, firm, public organization, or any other entity that operates the facility described in this application. This may or may not be the same name as the facility. The operator of the facility is the legal entity which controls the facility's operation rather than the plant or site manager. This use of "operator" in many cases is not the same as the treatment plant Certified Operator.

The owner mailing address should be the legal permittee of record and is the address where correspondence regarding the application, permit, etc. for the facility will be sent unless otherwise indicated. This often is not the address used to designate the location of the facility or activity. Give the name, title, and work telephone number of a person who is thoroughly familiar with the operation of the facility and with the facts reported in this application and who can be contacted by reviewing offices if necessary. The contact mailing address is to be provided if different from the owner mailing address. The name, telephone number, and email address of the facility's official contact for netDMR (Discharge Monitoring Reports) is to be provided.

II. Facility Location

The facility location should be for the actual location of the facility (i.e. road name, highway number, not the P.O. Box address). If there is no street address, identify the facility by the most accurate alternative geographic information such as direction and distance to the nearest intersection or permanent landmark (e.g., ½ mile east of intersection of KY 70 and US 127).

List the latitude and longitude for the facility site. The latitude/longitude reading for the site should be taken at the influent to the wastewater treatment plant, if applicable.

Attach a site location map with the facility and outfalls clearly marked. Provide either an aerial map, topographic map, or other map that identifies the site location and significant features including the facility's intake and discharge structures. Also mark the locations of those wells, springs, surface water bodies, and drinking water wells listed in public records or otherwise known to the applicant within one-quarter mile of the facility property boundary.

III. Facility Description

Briefly describe the nature of the business and the activities being conducted that require a KPDES permit.

Identify the principal 4-digit standard industrial classification (SIC) code and other applicable SIC codes that best describe your facility in terms of the principal products or services you produce or provide. Also, specify each classification in words. These classifications may differ from the SIC codes describing the operation generating the discharge. The SIC codes are numbers and descriptions of activities classified by the Executive Office of the President, Office of Management and Budget. These are found in the latest edition of the Standard Industrial Classification (SIC) Manual.

If the application is for the modification of an existing permit, please provide the specific reason(s) for modifying the existing permit.

IV. Operator Information

For those facilities that require a Certified Operator, enter the name of a Certified Operator who will operate the treatment plant, or enter the name of an operator who will be certified before commencement of discharge. The operator of the treatment plant is often someone other than the operator of the facility identified in Section I.

List the Certified Operator's mailing address, telephone number, and email address. Also, provide the Certified Operator's Certification Class and Certification Number.

The operator must be currently certified with the Division of Water. For information concerning those requirements, please contact the Division of Compliance Assistance at [REDACTED]

V. Environmental Permits/Registrations for This Facility

List any existing environmental permits for this facility and identify any permits for which the facility will apply. KPDES permits use an NPDES generated number.

VI. Permit Fee

The payment of the permit fee, as listed below, must accompany the application for a new KPDES Permit or for reissuance of an expiring KPDES Permit in order for the permit application to be processed. For an application to modify an existing permit, the Division of Water will notify the applicant of the required permit fee to be paid prior to issuance of the permit modification. Your check must be made payable to "Kentucky State Treasurer." For permit renewals, to ensure proper credit to your account, please include the KPDES permit number on the check. The permit fee is not refundable if the application is withdrawn or the permit is denied. Listed below are the facility categories and associated base five-year permit fees. (See the separate "General Instructions" for definitions of facility categories.)

| <u>Facility Category</u> | <u>Five-Year Permit Fee</u> |
|--------------------------|-----------------------------|
| Major Industry | \$7,000 |
| Minor Industry | \$4,500 |
| Non-Process Industry | \$2,200 |
| Large Non-POTW | \$3,700 |
| Intermediate Non-POTW | \$3,200 |
| Small Non-POTW | \$2,200 |
| Agriculture | \$1,200 |
| Surface Mining Operation | \$3,300 |
| 501(c)(3) | \$100 |

If this application is for a new project, see separate General Instructions for the applicable Construction Permit fee.

VII. Certification


The permit application must be signed as follows:

- **Corporation:** by a principal executive officer of at least the level of vice president.
- **Partnership or sole proprietorship:** by a general partner or the proprietor respectively.
- **Municipality, state, federal, or other public agency:** by either a principal executive officer or ranking elected official.

Section C: ACTIVITIES WHICH DO NOT REQUIRE KPDES PERMITS

You are not required to obtain a KPDES permit if your discharge is one of the following categories, as provided by the Clean Water Act (CWA) and KPDES regulations (401 KAR Chapter 5).

1. **Dredged or Fill Material:** Discharges of dredged or fill material as defined at 33 CFR 323.2 into waters of the Commonwealth do not need KPDES permits if the dredging or filling is authorized by a permit issued by the U.S. Army Corp of Engineers.
2. **Discharges into Publicly Owned Treatment Works (POTW):** The introduction of sewage, industrial wastes, or other pollutants into a POTW does not need a KPDES permit. You must comply with all applicable pretreatment standards promulgated under Section 307 (b) of the CWA, which may be included in the permit issued to the POTW. If you have a plan or an agreement to switch to a POTW in the future, this does not relieve you of the obligation to apply for and receive a KPDES permit until you have stopped discharging pollutants into waters of the Commonwealth.
3. **Dischargers into Privately Owned Treatment Works:** Dischargers into privately owned treatment works do not have to apply for or obtain KPDES permits except as otherwise required by the Cabinet. The owner or operator of the treatment works itself, however, must apply for a permit and identify all users in its application.
4. **Discharges from Agricultural and Silvicultural Activities:** Most discharges from agricultural and silvicultural activities to waters of the Commonwealth do not require KPDES permits. These include runoff from orchards, cultivated crops, pastures, range lands, and forest lands. However, the discharge listed below DO require KPDES permits.
 - a. Discharges from Concentrated Animal Feeding Operations.
 - b. Discharges from Concentrated Aquatic Animal Production Facilities.
 - c. Discharges associated with approved Aquaculture Projects.
 - d. Discharges from Silvicultural Point Sources. Nonpoint source silvicultural activities are excluded from KPDES permit requirements. However, some of these activities, such as stream crossings for roads, may involve point source discharge of dredged or fill material which may require a Section 404 permit. See 33 CFR 209.120.
5. **Underground Injection Control Permits Under the Safe Drinking Water Act**

| | | |
|--|--|--|
| Form A | KENTUCKY POLLUTION DISCHARGE ELIMINATION SYSTEM Permit Application |  Division of Water |
| NAME OF FACILITY: Livingston Wastewater Treatment Plant | | AGENCY USE ONLY |
| PERMIT NO.: KY0040703 | | COUNTY: ROCKCASTLE |
| <p>Form A consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet.</p> <p>The Basic Application Information packet is divided into three parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 100,000 gallons per day (0.10 million gallons per day or MGD) must also complete Part B.</p> <p>The Supplemental Application Information packet is divided into four parts and applicants may also need to complete these if they meet the criteria.</p> | | |
| BASIC APPLICATION INFORMATION Part A. Information for All Applicants. All applicants must complete questions A.1 through A.4. A treatment works that discharges effluent to waters of the Commonwealth must also answer questions A.5 through A.7. Part B. Additional Information for Applicants with a Design Flow \geq 100,000 gallons per day (0.10 MGD). All treatment works that have design flows greater than or equal to 100,000 gallons per day (0.10 MGD) must complete questions B.1 through B.5. Part C. Certification for All Applicants. All applicants must complete <i>Part C. Certification for All Applicants.</i> | | |
| SUPPLEMENTAL APPLICATION INFORMATION Part D. Expanded Effluent Testing Data. A treatment works that discharges effluent to waters of the Commonwealth and meets one or more of the following criteria must complete <i>Part D. Expanded Effluent Testing Data</i> : <ol style="list-style-type: none"> 1. Has a design flow rate greater than or equal to 1 MGD, 2. Is required to have a pretreatment program (or has one in place), or 3. Is otherwise required by the permitting authority to provide the information. Part E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete <i>Part E. Toxicity Testing Data</i> : <ol style="list-style-type: none"> 1. Has a design flow rate greater than or equal to 1 MGD, 2. Is required to have a pretreatment program (or has one in place), or 3. Is otherwise required by the permitting authority to submit results of toxicity testing. Part F. Industrial User Discharges. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete <i>Part F. Industrial User Discharges</i> . SIUs are defined as: <ol style="list-style-type: none"> 1. All industrial users subject to Categorical Pretreatment Standards under the Code of Federal Regulations, 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and 2. Any other industrial user that: <ol style="list-style-type: none"> a. Discharges an average of 25,000 gallons per day (0.025 MGD) or more of process wastewater to the treatment works (with certain exclusions); or b. Contributes a process wastewater that makes up 5% or more of the average dry weather hydraulic or organic capacity of the treatment plant; or c. Is designated as an SIU by the control authority. Part G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete <i>Part G. Combined Sewer Systems</i> . | | |

PART A
BASIC APPLICATION INFORMATION PACKET

INFORMATION FOR ALL APPLICANTS. All applicants must complete questions A.1 through A.4

A.1. FACILITY INFORMATION

Name of Facility: Livingston Wastewater Treatment Plant

Permit No.: KY004703

County: Rockcastle

A.2. COLLECTION SYSTEM INFORMATION

Provide information on municipalities and areas served by the facility.

| Name of Municipality or Area Served | Type of Collection System and Percent Contributed by Miles | Ownership (Municipal or Private) | Population Served |
|-------------------------------------|---|----------------------------------|-------------------|
| City of Livingston | <input checked="" type="checkbox"/> Combined Sanitary & Sewer 100 % | Municipal | 87 |
| | <input type="checkbox"/> Separate Sanitary % | | |
| | <input type="checkbox"/> Combined Sanitary & Sewer % | | |
| | <input type="checkbox"/> Separate Sanitary % | | |
| | <input type="checkbox"/> Combined Sanitary & Sewer % | | |
| | <input type="checkbox"/> Separate Sanitary % | | |
| | <input type="checkbox"/> Combined Sanitary & Sewer % | | |
| | <input type="checkbox"/> Separate Sanitary % | | |
| Total population served: | | | 87 |

A.3. FLOW

Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal.

Design flow rate 0.040 MGD

| | Two Years Ago | Last year | This Year |
|--------------------------------|---------------|-------------|-------------|
| Annual average daily flow rate | 0.03998 MGD | 0.02528 MGD | 0.02528 MGD |
| | Two Years Ago | Last year | This Year |
| Maximum daily flow rate | 0.2424 MGD | 0.1815 MGD | 0.118 MGD |

A.4. DISCHARGES AND OTHER DISPOSAL METHODS

a. Does the treatment works discharge effluent to waters of the Commonwealth? Yes ☒ No ☐

If yes, list how many of each of the following types of discharge points the treatment works uses:

| | | |
|------|--|-----|
| i. | Discharges of treated effluent | 1 |
| ii. | Discharges of untreated or partially treated effluent | N/A |
| iii. | Combined sewer overflow points | N/A |
| iv. | Constructed emergency overflows (prior to the headworks) | N/A |
| v. | Other (specify) | 0 |

Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for

b. discharge to waters of the Commonwealth? Yes ☐ No ☒

If yes, provide the following for each surface impoundment:

| Location | Annual Average Daily Volume Discharged to Surface Impoundment (MGD) | Type of Discharge |
|----------|---|--|
| N/A | N/A | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |
| N/A | N/A | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |
| N/A | N/A | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |
| N/A | N/A | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |

Does the treatment works land-apply treated wastewater? Yes ☐ No ☒

c. If yes, provide the following for each land application site:

| Location | Number of Acres | Annual Average Daily Volume Discharged to Surface Impoundment (MGD) | Type of Discharge |
|----------|-----------------|---|--|
| N/A | N/A | N/A | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |
| N/A | N/A | N/A | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |
| N/A | N/A | N/A | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |
| N/A | N/A | N/A | <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |

Does the treatment works discharge or transport treated or untreated wastewater to another treatment works?

d. Yes ☐ No ☒

If yes, provide the name and location of the treatment works receiving the wastewater:

WASTEWATER DISCHARGES

If you answered yes to question A.4.a, then complete questions A.5 through A.7 for each outfall through which effluent is discharged.

Do not include information on combined sewer overflows in this section.

If you answered **no** to question A.4.a, then go to *Part B. Additional Information for Applicants with a Design Flow $\geq 100,000$ gallons per day (0.10 MGD)*

A.5. DESCRIPTION OF OUTFALL

| | |
|---|--|
| a. Outfall Number: 001 | |
| b. Outfall Latitude (Decimal Degrees): 37.294007 N | Outfall Longitude (Decimal Degrees): 84.216255 W |
| c. Average Daily Flow Rate: .0253 MGD | |
| d. Does this outfall have either an intermittent or a periodic discharge? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |
| If yes, provide the following information: | |
| i. Number of times per year discharge occurs: | |
| ii. Average duration of each discharge: | |
| iii. Average flow per discharge in million gallons per day: | MGD |
| iv. Month in which discharge occurs: | |
| e. Is outfall equipped with a diffuser? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |
| f. Name of receiving water: Rockcastle River | |

A.6. DESCRIPTION OF TREATMENT

| | |
|--|---|
| a. What levels of treatment are provided? Check all that apply. | |
| <input checked="" type="checkbox"/> Primary | <input type="checkbox"/> Secondary |
| <input type="checkbox"/> Advanced | <input type="checkbox"/> Other (specify): |
| b. Indicate the following percent removal rates (as applicable): | |
| Design BOD ₅ removal <u>or</u> Design CBOD ₅ removal | 85 % |
| Design Suspended Solids removal | 85 % |
| Design Phosphorus removal | 0 % |
| Design Nitrogen removal | 0 % |
| c. What type of disinfection is used for the effluent from this outfall? : Liquid Chlorine | |
| If disinfection varies by season, please describe: N/A | |
| If disinfection is by chlorination, is dechlorination used for this outfall? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | |

A.7. EFFLUENT TESTING INFORMATION

All applicants that discharge to waters of the Commonwealth must provide effluent testing data for the parameters shown in the table below. Complete once for each outfall discharging effluent to waters of the Commonwealth

Provide the indicated effluent testing results for each outfall through which effluent is discharged.

At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart.

All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.

Do not include information on combined sewer overflows in this section.

OUTFALL NUMBER 001

| PARAMETER | MAXIMUM DAILY VALUE | | AVERAGE DAILY VALUE | | |
|----------------------|---------------------|-----------|---------------------|-----------|-------------------|
| | Value | Units | Value | Units | Number of Samples |
| pH (Minimum)* | 6.94 | S.U. | | | |
| pH (Maximum)* | 7.93 | S.U. | | | |
| Flow Rate | .118 | Mgd | 0.0253 | Mgd | 12 |
| Temperature (Winter) | 11 | Degrees C | 8.46 | Degrees C | 5 |
| Temperature (Summer) | 27.8 | Degrees C | 24.4 | Degrees C | 5 |

* For pH, report a minimum and a maximum daily value

| Pollutant | MAXIMUM DAILY DISCHARGE | | AVERAGE DAILY DISCHARGE | | | Analytical Method | ML / MDL |
|--|-------------------------|----------|-------------------------|----------|-------------------|-------------------|----------|
| | Concentration | Units | Concentration | Units | Number of Samples | | |
| Biochemical Oxygen Demand (BOD ₅)* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| or | | | | | | | |
| Carbonaceous Biochemical Oxygen Demand* (CBOD ₅) | 23 | MG/1 | 5.8 | MG/1 | 10 | SM 5210 B | 3 |
| Escherichia coli (E. coli) | 2420 | MPN/100M | 249.3 | MPN/100M | 10 | SM 9223 B | 1 |
| Total Suspended Solids (TSS) | 43 | Mg/L | 8.01 | Mg/L | 10 | SM 2540 D | 2 |

* Report only one: either BOD₅ or CBOD₅

END OF PART A.

Refer to the general overview on Page 1 or the instructions to determine which other parts of this form you must complete.

PART B

APPLICATION INFORMATION FOR DESIGN FLOW $\geq 100,000$ GPD (0.10 MGD)

ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREAT THAN OR EQUAL TO 100,000 GALLONS PER DAY (0.10 MGD):

Applicants with a facility design flow $\geq 100,000$ gallons per day (0.10 MGD) must complete questions B.1 through B.5. All others go to Part C.

B.1. INFLOW AND INFILTRATION.

Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration. gpd

Briefly explain any steps underway or planned to minimize inflow and infiltration.

B.2. TOPOGRAPHIC MAP

Attach to this application a site location map of the area extending at least one mile beyond facility property boundaries. Provide a topographic map, aerial map, or other map that identifies the site location, and shows the outline of the facility, significant features, and the following information.

You may submit more than one map if one map does not show the entire area.

- a. The area surrounding the treatment plant, including all unit processes.
- b. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
- c. Each well where wastewater from the treatment plant is injected underground.
- d. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
- e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed
- f. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.

B.3. PROCESS FLOW DIAGRAM OR SCHEMATIC.

- a. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system.
- b. Provide a water balance showing all treatment units, including disinfection (e.g., chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units.
- c. Include a brief narrative description of the diagram. _____

B.4. SCHEDULED IMPROVEMENTS AND SCHEDULES OF IMPLEMENTATION.

Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses for each.

If none, go to question B.5.

- a. List the number that was assigned in question A.7 for each outfall that is covered by this implementation schedule.

OUTFALL NUMBER 001

OUTFALL NUMBER _____

OUTFALL NUMBER _____

OUTFALL NUMBER _____

Are the planned improvements or implementation schedule required by local, State or Federal agencies? Yes ☐ No ☒

- b. If Yes, briefly describe, including new maximum daily inflow rate (if applicable).

- c. Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.

| Implementation Stage | Required by Local, State, or Federal agency, or Independent | Schedule MM/DD/YYYY | Actual Completion Date MM/DD/YYYY |
|--------------------------|---|---------------------|-----------------------------------|
| Begin construction | N/A | | |
| End construction | N/A | | |
| Begin discharge | N/A | | |
| Attain operational level | N/A | | |

Have appropriate permits/clearances concerning other Federal/State requirements been obtained? Yes ☐ No ☐

- d. If Yes, briefly describe. N/A

B.5. EFFLUENT TESTING DATA (For applicants with design flow greater than or equal to 100,000 gallons per day (0.10 mgd) only.)

Applicants that discharge to waters of the Commonwealth must provide effluent testing data for the parameters shown in the table below.

Provide the indicated effluent testing for each outfall through which effluent is discharged. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.

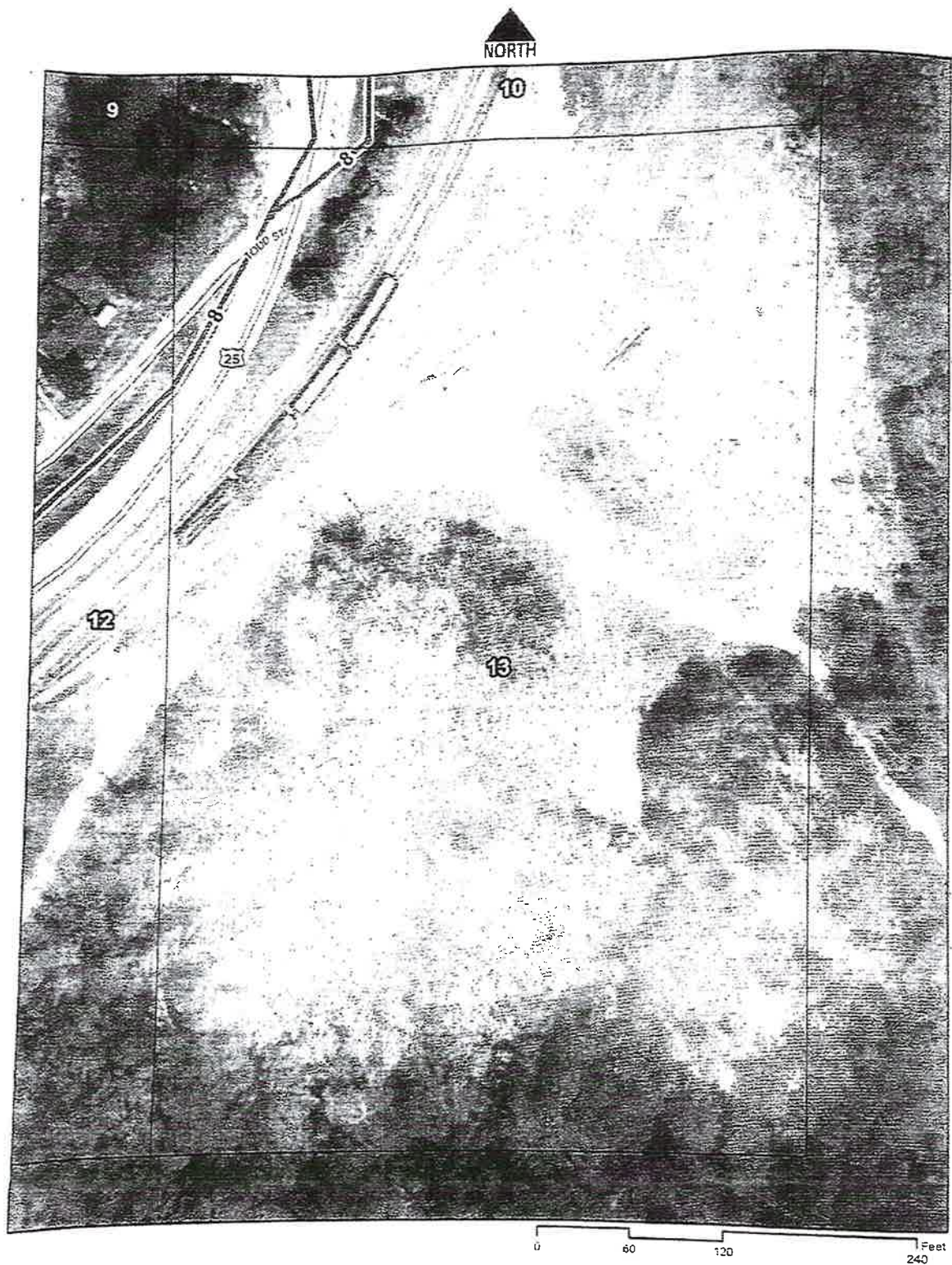
Do not include information on combined sewer overflows in this section.

OUTFALL NUMBER 001

| Pollutant | MAXIMUM DAILY DISCHARGE | | AVERAGE DAILY DISCHARGE | | | Analytical Method | ML / MDL |
|--------------------------------|-------------------------|----------|-------------------------|----------|-------------------|-------------------|----------|
| | Concentration | Units | Concentration | Units | Number of Samples | | |
| Ammonia (as N) | 19 | Mg/L | 8.01 | Mg/L | 10 | Hach 10205 | 0.25 |
| Chlorine (Total Residual, TRC) | 2420 | MPN/100m | 249.3 | MPN/100m | 10 | SM 9223 B | 1 |
| Dissolved Oxygen (DO) | 8.02 | Mg/L | 6.368 | Mg/L | 10 | SM 4500 CL G | 0 |
| Total Kjeldahl Nitrogen (TKN) | 22 | Mg/L | 11.7 | Mg/L | 10 | Hach 10242 | 1.78 |
| Nitrate Plus Nitrite Nitrogen | 8 | Mg/L | 1.94 | Mg/L | 10 | Hach 10206 | 2 |
| Oil and Grease (O&G) | 3 | Mg/L | 2.3333 | Mg/L | 3 | EPA 1664 A | 2 |
| Phosphorus (Total P) | 4.04 | Mg/L | 2.399 | Mg/L | 10 | SM 4500 PE | 0.625 |
| Total Dissolved Solids (TDS) | 434 | Mg/L | 340 | Mg/L | 10 | SM 2540 C | 40 |
| Other | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

END OF PART B.

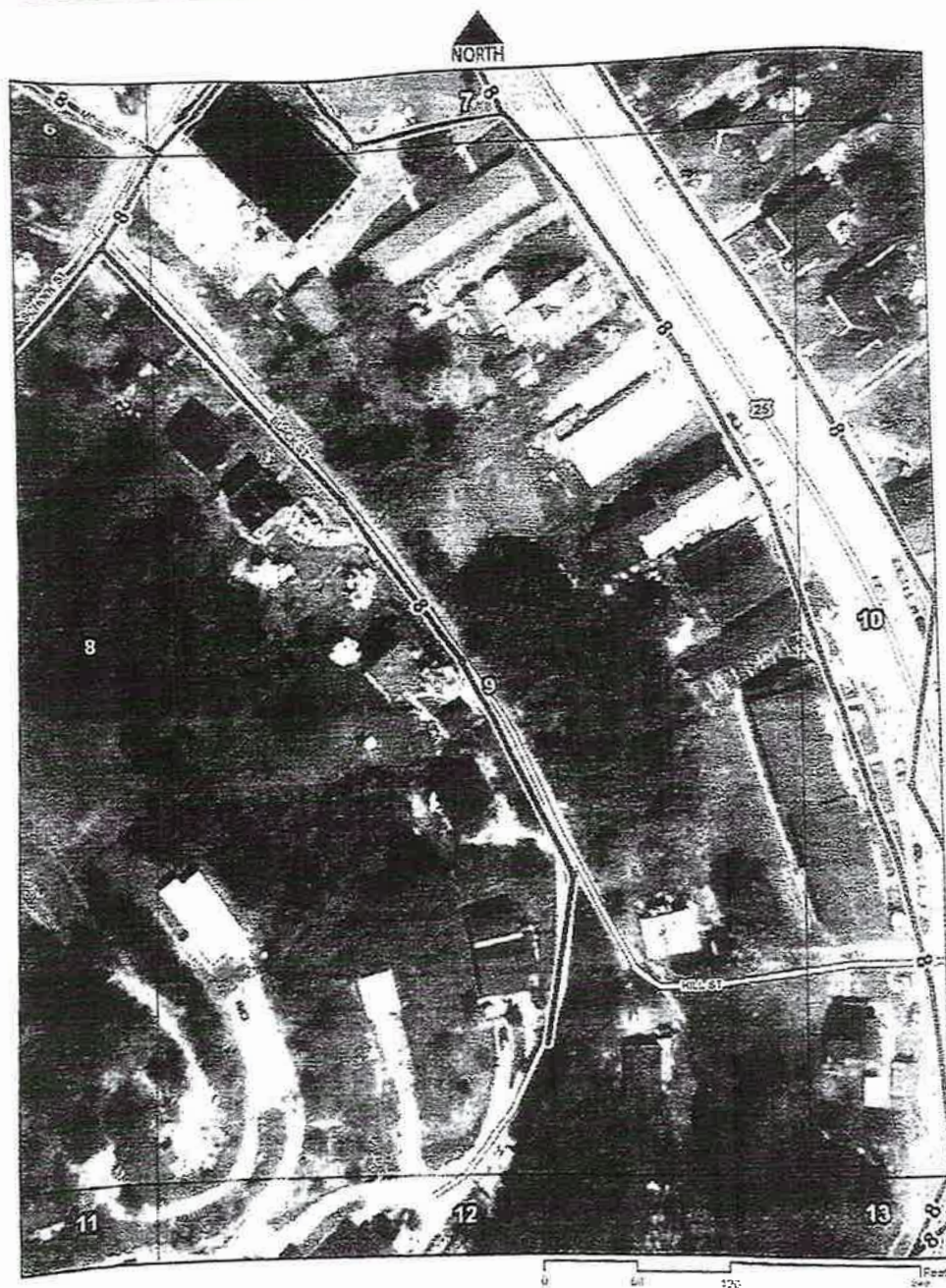
Refer to the general overview on Page 1 or the instructions to determine which other parts of this form you must complete.



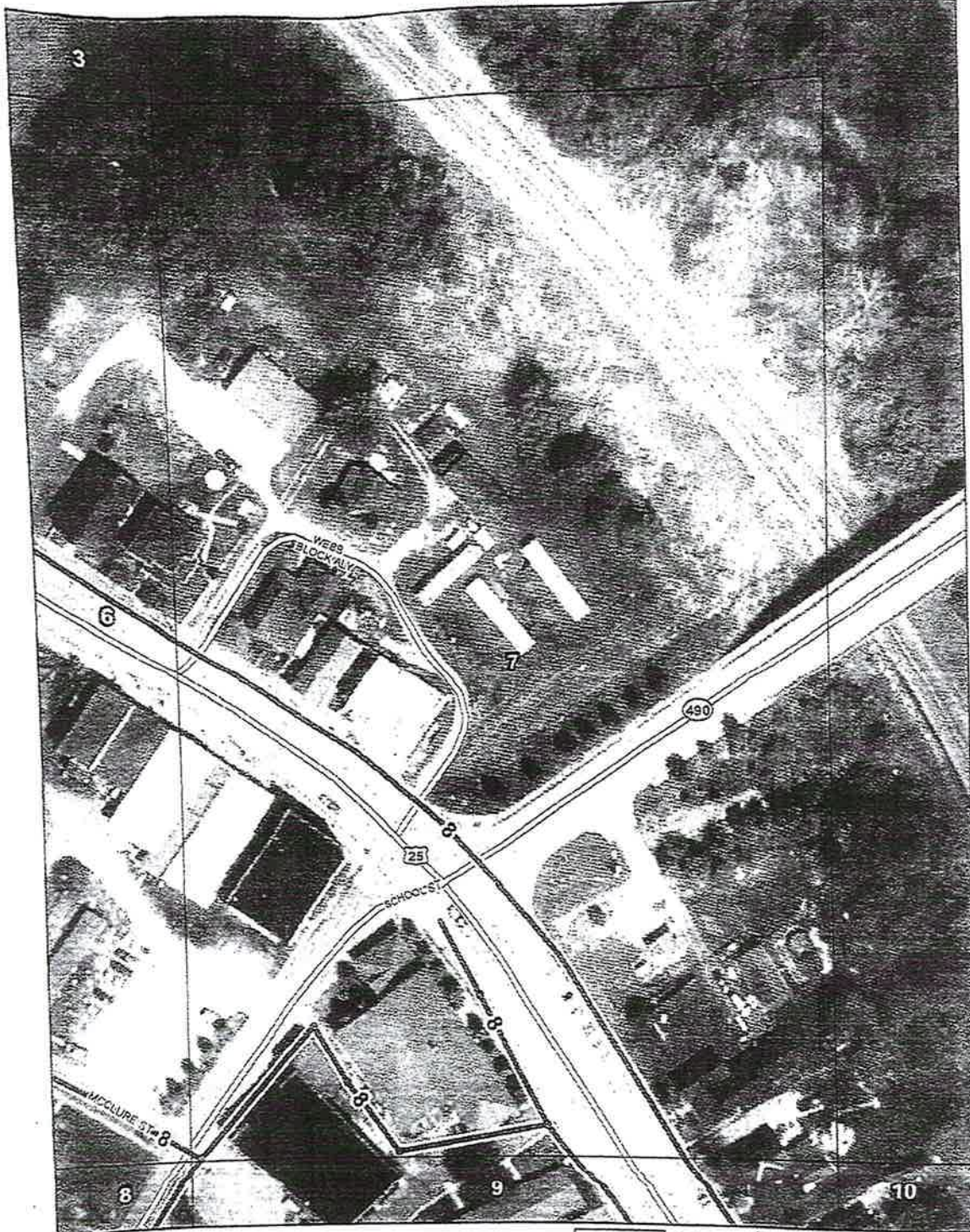
▲ KPDES Outfall ■ KISOP ■ Lift Station ■ Sewage Treatment Plant
 ■ CSO Regulator ● Sewer Manhole



▲ KPDES Outfall ○ KISOP ✕ Lift Station ■ Sewage Treatment Plant
 ○ CSO Regulator ○ Sewer Manhole

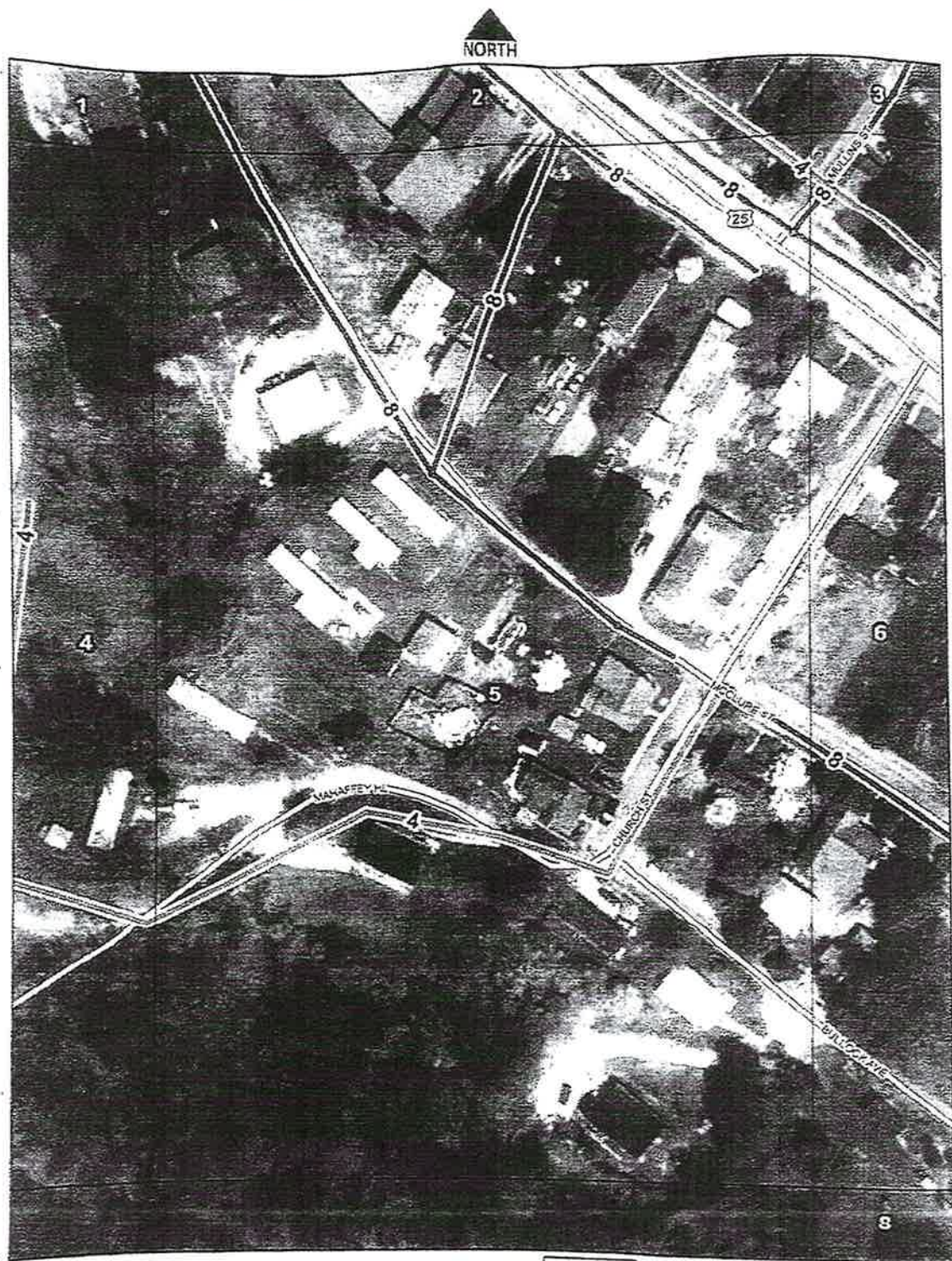


NORTH



0 60 120 180 240 Feet

- △ KPDES Outfall □ KISOP ✕ Lift Station ■ Sewage Treatment Plant
- ◁ CSO Regulator ● Sewer Manhole



▲ KPDES Outfall ▲ KISOP * Lift Station ■ Sewage Treatment Plant
 * CSO Regulator * Sewer Manhole

August 15, 2025

City of Livingston
9226 Main Street, Suite 3
Livingston, KY 40445

RE: City of Livingston Municipal Water Works System Bid Announcement – Purchase Proposal

Kentucky American Water is pleased to submit the enclosed bid offer to purchase the City of Livingston's water system in response to the Bid Package issued by Livingston on August 6, 2025. As the largest water provider in the state, Kentucky American Water is uniquely positioned to provide customers of Livingston with safe, clean, reliable and affordable water service as we have done in the state of Kentucky for 140 years.

As more fully discussed in our enclosed bid, several of the benefits the City of Livingston would see from the sale of its public water system assets to Kentucky American Water include:

- **CASH PAYMENT UPON CLOSING** – Kentucky American Water is offering to purchase the City of Livingston's unencumbered water utility assets for \$400,000. Assuming all debt on the water utility assets is satisfied, sale proceeds are unrestricted and can be used by Livingston to advance community priorities or invest in the future.
- **CAPITAL INVESTMENT** – Kentucky American Water is committed to investing approximately \$600,000 in infrastructure improvements to the water system within the first five years of ownership. Our team would work with city officials in Livingston to coordinate investment projects such as pipeline replacement projects with municipal paving plans.
- **LOCAL OPERATIONAL AND FINANCIAL RELIEF** – Relief from the day-to-day operational responsibilities, regulatory compliance liabilities and ongoing financial burden will allow the City of Livingston to focus on other priorities.

Thank you for the opportunity to submit our purchase offer. If you have any questions about our proposal, please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Robert Burton".

Robert Burton
President, Kentucky American Water

RESPONSIBLE BIDDER INFORMATION FORM

Attach additional sheets as needed

Company Name: Kentucky American Water

Company Address: 2300 Richmond Road, Lexington, KY 40502

Company Telephone Number: (859) 537-0759

Company E-Mail Address: charles.boland@amwater.com

Number of Years in Business: 140 years

Federal Tax ID No: [REDACTED]

Contact Person's Name & Title: Charlie Boland, Sr. Manager Business Development

Indicate all occurrences of the following in the last 4 years (if none, so state). For verification, attach documentation, and/or provide sufficient and appropriate detailed information such as:

- A. Contract abandonment or contract termination: None
- B. Debarment by state, federal or local jurisdiction: None

I hereby certify that the information above is factual and complete.

Company Name: Kentucky American Water

Authorized Official (please print or type): Robert Burton, President


Signature of Authorized Official Date:

BIDDER ACKNOWLEDGMENT FORM

The undersigned hereby attests that the information provided to the CITY OF LIVINGSTON COMMISSION pertaining to the bid for the purchase of Livingston Municipal Water Works and Livingston Wastewater Treatment Plant is true and accurate to the best of his/her knowledge. that he/she has read and understands the conditions of bidding and the equipment, material, and specifications provided, and has complied with those conditions and tailored his/her bids to the specifications provided. The undersigned further understands that he/she may not change, alter, modify, or withdraw his/her bid, except as expressly permitted by law, pursuant to KRS 45A.365 section six.

Signature:



Printed or Typed Name : Robert Burton

Company Name: Kentucky American Water

Title of Individual Signing: President

Date: April 11, 2025

CERTIFICATE OF AVAILABILITY OF FUNDS

Based on the nature of the sale of Livingston Municipal Water Works and Livingston Wastewater Treatment Plant, I understand that payment for the acquisition of the businesses and all related materials is due in a prompt manner. By signing this Certificate of Availability of Funds, I attest that the bid amount of Four hundred thousand dollars and 00 cents is available or will be available to me within thirty days of execution of the contract between the City of Livingston and Kentucky American Water

Signature:

A handwritten signature in blue ink, appearing to be 'J. A. H.', is written over the 'Signature:' label.

Title: President



KENTUCKY
AMERICAN WATER

BID PROPOSAL

**WITH THE INTENT TO PURCHASE CITY OF LIVINGSTON'S WATER
UTILITY SYSTEM ASSETS**

August 14, 2025

OFFER TO PURCHASE THE CITY OF LIVINGSTON'S WATER UTILITY ASSETS

Kentucky-American Water Company ("Kentucky American Water"), a Kentucky corporation and wholly owned subsidiary of American Water Works Company, Inc. ("American Water"), is pleased to offer the City of Livingston ("City" or "Livingston") \$400,000 to purchase the City's public water utility system assets. In addition, Kentucky American Water commits to investing approximately \$600,000 in water infrastructure improvements within the first five years of ownership. This offer is contingent upon approval from the Kentucky Public Service Commission and does not include the transfer of Livingston's responsibilities or liabilities associated with its water assets or any of Livingston's wastewater assets.

As the largest investor-owned water service provider in the state, Kentucky American Water has both the staffing and financial resources to invest in the capital needs of the City of Livingston's water system and efficiently operate and maintain the system in perpetuity.

SUMMARY OF OUR QUALIFICATIONS & EXPERIENCE

Kentucky American Water has been providing water services to customers in Kentucky for 140 years and currently serves approximately 527,000 residents in the state. We understand that communities face challenges with their water systems due to aging infrastructure, expanding regulatory and water quality requirements coupled with competing community priorities. Kentucky American Water is proud to provide solutions to address these challenges for local communities across the state. Our solutions are customized to fit the unique needs of a community, and we are confident that a partnership with Kentucky American Water will provide the residents of Livingston with access to clean, safe, reliable and affordable water service.

Our commitment to water quality, customer service, and environmental stewardship makes Kentucky American Water a clear choice for the City of Livingston. Whether it be meeting or surpassing drinking water standards, protecting our precious water resources, or investing in system upgrades, we constantly push ourselves to improve. We never forget that at the end of every water pipe there's a family looking to us to provide life's most critical need and that every community should be stronger because we are there.

Kentucky American Water is confident in our ability to own, operate and maintain the City of Livingston's water utility system. The many benefits that would be recognized from a partnership with Kentucky American Water include:

- **CASH PAYMENT AND FINANCIAL GAINS** – Kentucky American Water is offering to purchase the City's water system assets for \$400,000 subject to approval from the Kentucky Public Service Commission. After debt obligations on the water system are satisfied, sale proceeds are unrestricted and can be used by the City to fund community-driven priorities or invest in the future.

In addition to the cash offer, other financial gains the City of Livingston would receive include:

- Approximately \$600,000 in capital investments to the water system within the first five years of ownership. Immediate and long-term investments made in the water system will enhance water quality, system reliability and support the community.
 - A new tax revenue stream through property taxes paid by Kentucky American Water, which would benefit the City's schools, fire and police departments and other government entities.
- **INFRASTRUCTURE INVESTMENTS** –The approximately \$600,000 in capital improvements we are proposing to make will provide strong, sustainable and resilient infrastructure which support economic development, community and environmental health and sustainability. We are prepared to address critical issues facing the water industry such as forever chemicals, lead service lines, aging infrastructure and resiliency, climate variability and cyber-threats.

Since 2014, Kentucky American Water has invested more than \$350 million in infrastructure projects and capital upgrades across the Bluegrass State to address aging infrastructure, improve safety and meet regulatory standards.

- **WATER QUALITY EXPERTISE** – Kentucky American Water routinely meets and exceeds state and federal water compliance requirements. Our team of experts monitor and test the water at multiple points throughout our process of drawing it from its source, treating it to meet drinking water standards, and distributing it through our pipeline systems. Statewide, we perform thousands of tests each year on the water before it leaves our treatment plants, plus a significant number of tests through the distribution system.

All three of Kentucky American Water's water treatment plants, Kentucky River Station, Richmond Road Station and Kentucky River Station II, have been nationally recognized with Directors Awards from the EPA's Partnership for Safe Water program for our long-term commitment to optimizing operations, achieving outstanding performance and protecting public health and the environment.

- **FINANCIAL STRENGTH** – Kentucky American Water has the financial capabilities to execute the necessary capital investments for Livingston's water system to remain in compliance with state and federal regulations. In 2024, Kentucky American Water reported total system assets of \$883.7 million and annual revenues of \$125.6 million. In addition to its own financial resources, Kentucky American Water has access to capital through its parent company, American Water, the largest publicly traded water company in the U.S. with a market capitalization of greater than \$28.27 billion.

Kentucky American Water and American Water carry strong corporate credit ratings and have access to the following sources of capital funding:

- American Water carries a credit rating of "Baa1" from Moody's Investors Services and an "A" rating from Standard & Poor's Rating Services.

- Kentucky American Water has sufficient liquidity through a line of credit with American Water. American Water has access to a \$2.75 billion revolving credit facility.
- American Water can access the debt capital markets, including the commercial paper market, primarily through American Water Capital Corp., a wholly owned subsidiary of American Water. American Water has a \$2.75 billion commercial paper program and regularly accesses the debt capital markets, most recently raising \$1.4 billion of senior unsecured notes in 2024, \$1.04 billion of exchangeable senior notes in 2023, \$800 million of senior unsecured notes in 2022 and \$1.1 billion of senior unsecured notes in 2021.
- American Water accessed the equity capital markets in 2023, completing an underwritten public offering of an aggregate of 12,650,000 shares of parent company common stock raising \$1.69 billion of net proceeds.
- In 2024, American Water's total operating revenues were approximately \$4.29 million in its regulated businesses.

Kentucky American Water is licensed, bonded and insured in Kentucky.

- **LONG-TERM RATE STABILITY AND ECONOMIES OF SCALE** – Operational efficiency optimization, prudent investment planning and preventive maintenance comes with being part of Kentucky American Water's system. American Water leverages its size to take advantage of economies of scale by implementing strategic sourcing and other total cost reduction processes that help us keep our customer rates affordable. In addition, third-party regulatory oversight from the Kentucky Public Service Commission supports transparency with Kentucky American Water's customers and ensures rate stability through a transparent ratemaking process that allows for community involvement.

As an example, American Water purchases approximately \$50 million worth of pipe every year and has been able to secure national pricing agreements with manufacturers that are 30% lower than current market rates. These cost benefits are passed on directly to our customers.

- **CUSTOMER SERVICE & FINANCIAL ASSISTANCE** - Our customers are our number one priority, and they are at the center of everything we do. The company's goal is to make it easier for customers to contact us in a manner they prefer. We offer customers the ability to manage their account(s) online, speak to a live customer care agent, or utilize our voice-activated phone system. We also provide the flexibility of multiple payment options and paperless communication. Kentucky American Water wants our customers to enjoy doing business with us.

We are proud to offer financial assistance programs to customers experiencing financial hardship. Customers whose annual income is at or below 225 percent of the 2025 Federal Poverty guidelines are eligible for bill-pay assistance through Kentucky American Water's H2O Help to Others Program™, administered by Community Action Council.

- **COMMUNITY COMMITMENT** – Kentucky American Water takes an active role in the communities we serve by supporting environmental and educational initiatives related to environmental stewardship and watershed protection. Our community involvement draws on the unique talents of our employees and our business resources. We partner with local governments, community organizations, and schools to help educate our customers on the important environmental stewardship and watershed protection roles we can all play.

In 2024, Kentucky American Water and the American Water Charitable Foundation contributed more than \$413,000 to non-profit organizations within our Kentucky service territory.

OUR TEAM OF DEDICATED PROFESSIONALS

One of the greatest assets at Kentucky American Water is our team of highly skilled employees who work around the clock to provide clean, safe, reliable and affordable service to our customers. The team below will lead the water utility operations in Livingston with the support of local operations personnel in our Eastern Rockcastle service area.

ROBERT BURTON, PRESIDENT



Prior to being named President of Kentucky American Water in January of 2025, Rob Burton was the President of West Virginia American Water, another American Water subsidiary. Rob has over 28 years of utility experience and joined American water in 2010 and has held multiple positions throughout the company including Senior Director of Operations for Pennsylvania American Water, where he was responsible for overseeing more than 50 water systems, 10 wastewater systems, and 500 employees in over 200 municipalities.

Burton is a native of Kentucky and currently serves on the board of directors for Commerce Lexington, Kentucky Chamber of Commerce and the Board of Visitors for West Virginia State University. He is a member of the Water Environment Federation, and the American Water Works Association where he previously served on the inaugural steering committee which started the organization's Partnership for Clean Water program.

ANDY LEWIS, VICE PRESIDENT OF OPERATIONS



Andy Lewis started in the water utility industry more than 25 years ago as a utility worker for the City of Loveland, Ohio, and has since held roles of increasing responsibility within the industry. Andy joined American Water in 2006 as Utility Manager for American Water Military Services Group's water and wastewater operations at Fort Leavenworth, Kansas. In 2018, Andy was named Senior Director of Operations for the North Region of New Jersey American Water and in 2019 his role was expanded to oversee New Jersey American Water's Central Operations. Andy has been the Vice President of Operations for Kentucky American Water

since 2022.

Andy earned a Bachelor of Science degree in education from Miami University in Oxford, Ohio and holds a Class III Operator-Water Supply certification from the Kansas Department of Health and Environment. Andy is a native of Cincinnati, Ohio and currently resides in Lexington with his wife.



JOHN MAGNER, DIRECTOR OF ENGINEERING

John Magner has more than 10 years of experience managing and designing water and wastewater projects. He joined Kentucky American Water in 2022 and is responsible for statewide planning, capital program investments, project delivery. Prior to joining Kentucky American Water, John worked as a Water Resources Engineer at an international engineering consulting firm. John earned his Master of Business Administration and Bachelor of Science in Civil Engineering from the University of Kentucky.



DOMINIC DEGRAZIA, SR. MANAGER OF RATES AND REGULATORY

Dominic DeGrazia is the senior manager for rates and regulatory supporting Kentucky American Water, the largest investor-owned water utility in Kentucky and a wholly owned subsidiary of American Water. Dominic has also held variety of roles in the regulatory services and finance departments supporting multiple subsidiaries including Kentucky American Water over about 14 years at American Water. Dominic holds a Bachelor of Science degree in Finance and Economics from Drexel University and a Master of Business Administration from Arizona State University. Dominic is also a CFA Charterholder.



CHARLIE BOLAND, SR. MANAGER OF BUSINESS DEVELOPMENT

Charlie Boland joined Kentucky American Water in 2009 and has held a variety of roles in customer advocacy, major accounts and business development. Prior to joining Kentucky American Water, Charlie had an extensive career as a local government administrator in Lexington-Fayette County, KY. Charlie holds a B.A. in Business Administration from the University of Kentucky in addition to several professional certifications. Charlie is a native of Mississippi but has lived most of his life in Kentucky.



SUSAN LANCHO, SR. MANAGER OF EXTERNAL AND GOVERNMENT AFFAIRS

Susan Lancho has been with Kentucky American Water for 25 years and is responsible for strategic communication and community engagement – including media relations, community relations, public information and corporate philanthropy – as well as government relations

Born in Louisville and raised in Lexington, Susan is a graduate of the University of Kentucky, where she earned a bachelor's degree in communications/public relations. She currently serves on the boards of the University of Kentucky Libraries National Advisory Council and The Nest – Center for Women, Children and Families, is a member of the Communications and Outreach

Committee of the Kentucky/Tennessee Section of the American Water Works Association.

NEXT STEPS

If the City of Livingston accepts and awards the bid to purchase the Livingston water assets, the next step would be to enter into negotiation of an Asset Purchase Agreement (APA) and associated documentation whereby Kentucky American would acquire the water assets. The APA would contain such representations, warranties, covenants, conditions and indemnities that are usual and customary in transactions similar to others entered into by Kentucky American in connection with other asset acquisitions, including with respect to: the conveyance of all right, title and interest in and to the assets free and clear of all encumbrances; the acknowledgment that Kentucky American Water would not assume any liabilities in connection with the transaction other than those that may be specifically identified in the definite APA.

Acquisition of the Livingston water assets (including customer rates and purchase price) is conditioned upon, approval by the Kentucky Public Service Commission (PSC). Kentucky American will require Livingston's cooperation and assistance in presenting the acquisition for approval before the PSC.

Kentucky American is submitting this bid to purchase the water assets of the City of Livingston, but is not submitting a bid to purchase the wastewater assets of the City of Livingston. This bid excludes and Kentucky American is not offering to purchase the wastewater assets of Livingston. Other than the water system assets explicitly being sold, the City of Livingston retains all other assets associated with the water and wastewater systems, including any cash reserves, and accounts receivable existing at closing of the transaction. Further, Kentucky American's offer to purchase is based on Kentucky American's due diligence on the real estate, environmental and operational aspects of the Livingston water assets.

Kentucky American is not agreeing to acquire any debt owed by Livingston on the water assets and Livingston will need to repay and remove any obligations associated with the water assets before or simultaneous to Kentucky American acquiring the assets.

Kentucky American's offer contained herein will remain in effect until October 1, 2025. If the City does not accept Kentucky's American bid in writing and enter into negotiation of an APA on or before October 1, 2025, this offer shall be void and of no further force or effect.

CONTACT US AT ANY TIME

ROBERT BURTON

President
Kentucky American Water
304.542.1200
Robert.Burton@amwater.com

CHARLIE BOLAND

Senior Manager, Business Development
Kentucky American Water
859.537.0759
Charles.Boland@amwater.com



Outlook

Touchpoint with Kentucky American Water

From Charles E Boland <Charles.Boland@amwater.com>

Date Mon 12/9/2024 2:48 PM

To [REDACTED] <[REDACTED]>

Good afternoon, Mayor Singleton and Clerk Smoker.

I spoke with Samantha Smoker briefly on Friday and verified that I would be your contact person with Kentucky American Water regarding the recently passed resolution about the City of Livingston water and sewer systems. We are meeting internally to discuss the situation, and will follow up with a meeting request shortly afterward to discuss any issues and questions. I anticipate getting back to you within the next week or so. In the meantime, if you have any questions please feel free to contact me via my contact information below.

Thank you and have a good week ahead!

Charlie Boland

Sr. Mgr. Business Development

Kentucky American Water

(859) 537-0759

charles.boland@amwater.com



Outlook

City of Livingston Water Information

From Samantha Smoker [REDACTED]

Date Thu 1/2/2025 11:19 AM

To Charles E Boland <Charles.Boland@amwater.com>

 5 attachments (1 MB)

2024 Water Rate Ordinance Revised - Livingston.docx; OPERATING COSTS.docx; KY WWATERS Application.pdf; 2024 Water Loss Report.xls; 2024 UFIR.docx;

EXTERNAL EMAIL: The Actual Sender of this email is [REDACTED] **"Think before you click!"**.

--

Samantha Smoker
City of Livingston
606-386-9502



Outlook

RE: Agreed Order for Waste Water - Livingston

From Sulfridge, Alexis (EEC) [REDACTED]

Date Thu 1/2/2025 11:41 AM

To Samantha Smoker [REDACTED]; Charles E Boland <Charles.Boland@amwater.com>

 2 attachments (2 MB)

3865 Livingston WWTP DOW 20-3-0099 Executed AO.pdf; CAP Livingston WWTP 062023.docx;

EXTERNAL EMAIL: The Actual Sender of this email is [REDACTED] "Think before you click!".

Hi Samantha,

My holidays were great and I hope yours were too. I have attached a copy of the Agreed Order for the WWTP as well as the most recent CAP, which is now out of date, but fine as we transition through this period.

We will be pursuing new Agreed Orders with the purchaser of Livingston's systems after the sale is finalized. They will be very similar to this, minus the civil penalty portion as that has already been resolved. So hopefully they can get an idea of what those Agreed Orders will look like as we monitor return to compliance for the systems.

Charles, feel free to reach out to me with any questions regarding friendly Orders through Enforcement.

Thank you!

Alexis Sulfridge (she/her)
Environmental Enforcement Specialist
Department for Environmental Protection
Division of Enforcement
300 Sower Blvd. 3rd Floor
Frankfort, Kentucky 40601



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Outlook

Agreed Order for Waste Water - Livingston

From Samantha Smoker <[REDACTED]>

Date Thu 1/2/2025 11:21 AM

To alexis.sulfridge <[REDACTED]> Charles E Boland <Charles.Boland@amwater.com>

EXTERNAL EMAIL: The Actual Sender of this email is [REDACTED] "Think before you click!"

Good morning,

I hope your holidays went well! We have been in discussion with Kentucky American about selling the water and waste water systems. I have sent them a copy of the drinking water agreed order, but I do not have a copy of the waste water agreed order/corrective action plan.

I included Charles on this email if you would be able to forward that to him, I would greatly appreciate that!

Thank you so much,

--

Samantha Smoker
City of Livingston
606-386-9502

Re: City of Livingston Water Information

From Samantha Smoker [REDACTED]
Date Thu 1/2/2025 2:52 PM
To Charles E Boland <Charles.Boland@amwater.com>

EXTERNAL EMAIL: The Actual Sender of this email is [REDACTED] "Think before you click!"

Good afternoon,

1. Those balances are on the WWATERS application, and most of the system information is on that application: largest customers, customer type, average usage, etc.
2. I will forward the water tower info as well.
3. I do not have that information yet from KRWA.

Samantha Smoker
606-386-9502

On Thu, Jan 2, 2025 at 12:07 PM Charles E Boland <Charles.Boland@amwater.com> wrote:
Hi Samantha, thanks for these docs, I received them with no issues. You also mentioned some other things at our meeting that I wanted to follow up on to see if you could share those, also?

- Financial current balances / breakdowns on the indebtedness for the Livingston water and sewer systems, particularly the USDA loan, Woods Creek balance owed, and any other debts associated with water / sewer systems?
- You mentioned a KIA grant associated with rehab of the water tower - any docs that you can share for that?
- You also mentioned a study being done by KRWA for Livingston - is there anything you could share related to that?

Thanks again, and please let me know if any questions.

Charlie Boland

From: Samantha Smoker [REDACTED]
Sent: Thursday, January 2, 2025 11:15 AM
To: Charles E Boland <Charles.Boland@amwater.com>
Subject: City of Livingston Water Information

EXTERNAL EMAIL: The Actual Sender of this email is [REDACTED] "Think before you click!".

--
Samantha Smoker
City of Livingston
606-386-9502

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Outlook

Fwd: FW: Tank Inspection report and repair quote 2020

From Samantha Smoker [REDACTED]

Date Thu 1/2/2025 2:56 PM

To Charles E Boland <Charles.Boland@amwater.com>

 2 attachments (910 KB)

Livingston Tank Repair Quote 2020.pdf; Livingston Tank Inspection Report 2020.pdf;

EXTERNAL EMAIL: The Actual Sender of this email is [REDACTED]
"Think before you click!"

From: James [REDACTED]

To: Livingston [REDACTED]

Date: Friday, 21 July 2023 11:01 AM EDT

Subject: FW: Tank Inspection report and repair quote 2020

Good Morning Samantha,

What's the status of the tank project approval?

James Franks

President & CEO

Complete Restoration, LLC

P.O. BOX 282 Henderson, KY 42419

Office [REDACTED]

Mobile [REDACTED]

Fax [REDACTED]

www.kyrestoration.com

From: James Franks
Sent: Tuesday, January 24, 2023 1:22 PM
To: Livingston Water - Trish [REDACTED]
Subject: FW: Tank Inspection report and repair quote 2020

Samantha,

Please find attached the quote and report for the tank.

James Franks

President & CEO

Complete Restoration, LLC

P.O. BOX 282 Henderson, KY 42419

Office [REDACTED]

Mobile: [REDACTED]

Fax: [REDACTED]

www.kyrestoration.com

From: James Franks
Sent: Friday, December 11, 2020 12:06 PM
To: [REDACTED]
Subject: Tank Inspection report and repair quote 2020

Good Afternoon Bryan,

Attached is the inspection report and repair quote for the items found to need attention on the water tank. Once you review our findings please reach out so we can discuss.

Sincerely,

James Franks

President & CEO

Complete Restoration, LLC

P.O. BOX 282 Henderson, KY 42419

Office: [REDACTED]

Mobile: [REDACTED]

Fax: [REDACTED]

Re: Tank Inspection report and repair quote 2020

From Charles E Boland <Charles.Boland@amwater.com>

Date Tue 2/4/2025 10:51 AM

To Samantha Smoker [REDACTED]

Thanks Samantha, appreciate the information and will see you next Tuesday, Feb 11 and 9 am for the due diligence visit.

Charlie Boland

From: Samantha Smoker [REDACTED]

Sent: Tuesday, February 4, 2025 10:12 AM

To: Charles E Boland <Charles.Boland@amwater.com>

Subject: Re: Tank Inspection report and repair quote 2020

EXTERNAL EMAIL: The Actual Sender of this email is
[REDACTED] "Think before you click!".

Good morning Charles,

I contacted USDA and was informed the City of Livingston is currently under a special payoff agreement with them. From my understanding, this is due to the fact that the loan was supposed to have already been paid off. The individual I spoke with said at this point, there is no penalty for paying the loan off early.

Thank you,

Samantha Smoker

From: "Charles E Boland" <Charles.Boland@amwater.com>

To: "Samantha Smoker" [REDACTED]

Sent: Monday, January 27, 2025 2:26:28 PM

Subject: Re: FW: Tank Inspection report and repair quote 2020

Hi Samantha, I wanted to request, if available, that the City of Livingston share the outstanding USDA loan agreement with us, if available? Thank you and please let me know if any questions.

Charlie Boland

From: Samantha Smoker [REDACTED]

Sent: Thursday, January 2, 2025 2:53 PM

To: Charles E Boland <Charles.Boland@amwater.com>

Subject: Fwd: FW: Tank Inspection report and repair quote 2020

EXTERNAL EMAIL: The Actual Sender of this email is

[REDACTED] "Think before you click!"

From: James [REDACTED]

To: Livingston [REDACTED]

Date: Friday, 21 July 2023 11:01 AM EDT

Subject: FW: Tank Inspection report and repair quote 2020

Good Morning Samantha,

What's the status of the tank project approval?

James Franks

President & CEO

Complete Restoration, LLC

P.O. BOX 282 Henderson, KY 42419

Office [REDACTED] EXT 301

Mobile: [REDACTED]

Fax: [REDACTED]

www.kyrestoration.com

Sale of Water & Sewer System Intention - City of Livingston

From Samantha Smoker [REDACTED]
Date Mon 6/2/2025 12:50 PM
To Charles E Boland <Charles.Boland@amwater.com>

EXTERNAL EMAIL: The Actual Sender of this email is [REDACTED] "Think before you click!"

Good afternoon,

After speaking with the attorney, it was expressed that even though a contract was signed between Woods Creek & Livingston to only negotiate with KY American & Woods Creek, it is in the best interest of the City of Livingston to follow the KRS. This Friday at the regular monthly meeting (06/06/25 @ 4:30), the attorney will be present for the commission to establish the terms of the bidding.

The intention is for:

- sealed bids
- a minimum will be set
- advertisement that bids will open on the 18th will run in the newspaper and/or social media beginning on the 11th
- establish how to place a bid
- what the bidder will be bidding on

All other terms will follow the KRS' set forth for cities with a commission based government, and those will be presented in the "bid package" as well for the potential buyers to view.


If you have any questions, please feel free to call or text me at any time if I do not answer. I am currently the POA of a family member who will be entering hospice this week, so I may not always answer right away. But I will get back to you as soon as possible. Thank you for your patience as we have navigated this process of selling the water and sewer system.

--

Samantha Smoker
City of Livingston
606-386-9502

Bid

From Samantha Smoker [REDACTED]
Date Thu 8/21/2025 10:01 AM
To Charles E Boland <Charles.Boland@amwater.com>

 1 attachment (16 KB)
August Meeting Minutes.docx;

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Good morning,

The August meeting minutes are attached. A resolution has not been passed for a couple reasons.

1. We would have to pass another with the final details being the main reason.
2. We already passed a resolution allowing Mayor Singleton to negotiate the sale of the system without commission, but she prefers to include them to prevent disagreements.

Once we have the final contract, she can accept, our attorney or I can draft the resolution, and we will have a special called meeting if not close to our regular monthly meeting which is the first Friday at 4:30 of every month.

Please let me know when you have availability, and I will work to schedule a meeting with Jeremy. Mondays and Tuesdays are usually pretty full for him with court, but we are usually able to get in pretty easily on Wednesday afternoons or Fridays.

Talk to you soon,
Samantha



Outlook

Grant

From Samantha Smoker [REDACTED]
Date Mon 9/15/2025 4:38 PM
To Charles E Boland <Charles.Boland@amwater.com>

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Good afternoon,

As we discussed earlier today, I am currently working on organization of the water tower grant. We currently do not have a date but are working to schedule as soon as possible for both companies to work on the same day.

Details are as follows:

Tank Rehab - Complete Restoration

Altitude Valve - King Enterprises

Water Distribution - KY Emergency Management

Funding: KIA

Our request from KY American is to provide a certified distribution operator in order for the City of Livingston to be in compliance. We are willing to contract this worker if necessary. Please respond as soon as possible.

Thank you,

--

Samantha Smoker
City of Livingston
606-386-9502



Outlook

City of Livingston - Purchase Agreement for Water System

From Charles E Boland <Charles.Boland@amwater.com>

Date Tue 10/14/2025 3:43 PM

To [REDACTED] [REDACTED]

Good afternoon, Mr. Rowe, I hope all is well in Rockcastle County! By way of introduction, I am Charlie Boland with Kentucky American Water, and I have worked with the City of Livingston on their desire to sell their water system, and we submitted a successful bid for that system in September.

I am aware that you have been assisting the City of Livingston with the sale of their water system and appreciate your efforts in that regard. I know you must be very busy as County Attorney, and it is good of you to support their city government in the absence of a City Attorney of their own. Having submitted the successful bid, the next step is for each party to sign an Asset Purchase Agreement for the sale, and then file a joint request to the KY Public Service Commission for approval.

I believe an attorney for American Water, Mr. Stanger or Mr. Mersky, has provided a draft Asset Purchase Agreement for you to review. Would you please confirm that you received that document for review, and provide an update on finalizing it from Livingston's review? Any attention you can give will be appreciated, and please let me know if any questions.

Thank you!

Charlie Boland

Sr. Mgr. Business Development

Kentucky American Water

(859) 537-0759

charles.boland@amwater.com



Outlook

Fwd: signed agreement, bill of sale, and easements

From Samantha Smoker [REDACTED]

Date Wed 10/22/2025 3:58 PM

To Charles E Boland <Charles.Boland@amwater.com>; RoweLawKY [REDACTED]

 1 attachment (14 MB)

CCF_000190.pdf;

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Samantha Smoker
606-386-9502



Outlook

Re: signed agreement, bill of sale, and easements

From Charles E Boland <Charles.Boland@amwater.com>

Date Thu 10/23/2025 9:46 AM

To Samantha Smoker [REDACTED]; RoweLawKY [REDACTED]

Thanks Samantha, got the documents this morning.

From: Samantha Smoker [REDACTED]

Sent: Wednesday, October 22, 2025 3:53:55 PM

To: Charles E Boland <Charles.Boland@amwater.com>; RoweLawKY [REDACTED]

Subject: Fwd: signed agreement, bill of sale, and easements

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Samantha Smoker
606-386-9502

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2025-00364
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

Witness: John Magner

12. Explain whether Kentucky-American has had any appraisals performed of Livingston's water utility assets.
- a. If none have been performed, explain whether it has been discussed and, if so, when Kentucky-American plans to have the property appraised.
 - b. If Kentucky-American does not intend to perform an appraisal, explain why not.
 - c. If Kentucky-American does not intend to perform an appraisal, explain how Kentucky-American appraised Livingston's assets prior to and at the time it entered into the Agreement.

Response:

- a. Please see response to Part c.
- b. Please see response to Part c.
- c. See the response to PSC 1-10. KAWC performed an internal appraisal based on the estimated original cost less depreciation ("OCLD") of Livingston's assets. KAW selected this approach to reduce transaction costs associated with hiring a third-party to perform an appraisal. Additionally, KAW took into account the limited availability of detailed information regarding Livingston's assets, which would make it difficult for a third-party to develop a detailed and accurate appraisal.

KAW's OCLD appraisal is provided in KAW_R_PSCDR1_NUM012_120825_Attachment 1. Given the limited available information regarding Livingston's assets, KAW had to make various simplifying assumptions to perform the analysis. These assumptions are noted in column Q of the attachment.

In order to estimate original costs for Livingston's assets, KAW first estimated costs for these assets assuming they were to be installed in 2024 (Column G), and then applied conversion factors to estimate the costs at the actual time of the asset's installation. These conversion factors (calculations in columns F-L) were developed using the "Handy-Whitman Index of Public Utility Construction Costs, Trends of Construction Costs" bulletin, select relevant pages of which are provided in KAW_R_PSCDR1_NUM012_120825_Attachment 2. This bulletin is widely accepted and utilized in the water utility industry.

KAW does not intend to have an additional appraisal performed for the Livingston system.

Livingston Municipal Water Works
Water Transmission & Distribution System

Date: 3/31/2025

Estimated Original Cost Less Depreciation (OCLD) at December 31, 2024

| A | B | C | D | E | F | G | H | | | I | J | K | L | M | N | O | P | Q | R |
|--|---------------------------------|------|--------|-----------------|----------|-------------------|-----------------------------------|----------------|--------|-----------------------|-------------------------|---------------------|------------|---------------------------|--------------------------|---------------------|---|---|---|
| | | | | | | | Index Unit Cost to Year Installed | | | | | | | | | | | | |
| NARUC | | | | | | | | | | | | | | | | | | | |
| Acct # | Description | Unit | QTY | Date In Service | Use | Current Unit Cost | HW Index | Year Installed | 2024 | OC Index Factor (H/I) | Indexed Unit Cost (F*J) | Original Cost (C*K) | Depr. Life | Annual Depreciation (L/M) | Accumulated Depreciation | OCLD 12/31/24 (L-O) | Notes/Assumptions | | |
| <u>Account 303.40 - Land & Land Rights:</u> | | | | | | | | | | | | | | | | | | | |
| 303.40 | Storage Tank Land | LS | 1 | 2008 | 1/1/2008 | | | | | | | | | | | | | 1/4 acre at assumed value of \$5,000/acre | |
| Total Account 303.40 | | | | | | | | | | | | \$ - | | \$ - | \$ - | \$ 1,250.00 | | | |
| <u>Account 330.40 - Distribution Reservoirs & Standpipes:</u> | | | | | | | | | | | | | | | | | | | |
| 330.40 | Steel Standpipe, 120,000-gallon | EA | 1 | 2008 | 1/1/2008 | \$275,000.00 | W-2-line 23 | 675.8 | 1256.5 | 0.5378 | \$147,895.00 | \$ 147,895.00 | 60 | \$ 2,464.92 | \$ 42,314.40 | \$ 105,580.60 | Current cost based on similar KAW tank installed in 2017. | | |
| Total Account 330.40 | | | | | | | | | | | | \$ 147,895.00 | | \$ 2,464.92 | \$ 42,314.40 | \$ 105,580.60 | | | |
| <u>Account 331.40 - Transmission & Distribution Mains:</u> | | | | | | | | | | | | | | | | | | | |
| 331.41 | 3" PVC | LF | 5,468 | 1990 | 7/1/1990 | \$100 | W-2-line 38 | 198.0 | 524.5 | 0.3775 | \$37.75 | \$ 206,417.00 | 65 | \$ 3,175.65 | \$ 110,089.07 | \$ 96,327.93 | Water main size, material, length, and installation date obtained from the KIA WRIS portal. Information regarding the number and size of valves was not provided, therefore valve costs are assumed to be included in the water main costs. | | |
| 331.41 | 3" PVC | LF | 688 | 2000 | 7/1/2000 | \$100 | W-2-line 38 | 205.0 | 524.5 | 0.3908 | \$39.08 | 26,887.04 | 65 | 413.65 | 10,203.29 | 16,683.75 | | | |
| 331.41 | 4" PVC | LF | 11,310 | 1990 | 7/1/1990 | \$100 | W-2-line 38 | 198.0 | 524.5 | 0.3775 | \$37.75 | 426,952.50 | 65 | 6,568.50 | 227,708.00 | 199,244.50 | | | |
| 331.41 | 5" PVC | LF | 7 | 1990 | 7/1/1990 | \$110 | W-2-line 38 | 198.0 | 524.5 | 0.3775 | \$41.53 | 290.71 | 65 | 4.47 | 155.05 | 135.66 | | | |
| 331.41 | 6" PVC | LF | 49,215 | 1990 | 7/1/1990 | \$110 | W-2-line 38 | 198.0 | 524.5 | 0.3775 | \$41.53 | 2,043,898.95 | 65 | 31,444.60 | 1,090,079.44 | 953,819.51 | | | |
| 331.42 | 6" Unknown | LF | 3,754 | 1960 | 7/1/1960 | \$125 | W-2-line 34 | 68.0 | 1170.5 | 0.0581 | \$7.26 | 27,254.04 | 65 | 419.29 | 27,114.28 | 139.76 | | | |
| Total Account 331.40 | | | | | | | | | | | | \$ 2,704,446.20 | | \$ 41,606.86 | \$ 1,438,234.84 | \$ 1,266,211.36 | | | |
| <u>Account 333.40 - Services:</u> | | | | | | | | | | | | | | | | | | | |
| 333.40 | Services (Company Service Line) | EA | 9 | 1960 | 7/1/1960 | \$ 3,500.00 | W-2-line 39 | 45.0 | 749.5 | 0.0600 | \$ 210.00 | \$ 1,890.00 | 55 | \$ 34.36 | \$ 1,890.00 | \$ - | Allocated 162 service installation dates relative to pipe installation dates. | | |
| 333.40 | Services (Company Service Line) | EA | 152 | 1990 | 7/1/1990 | \$ 3,500.00 | W-2-line 39 | 227.0 | 749.5 | 0.3029 | \$ 1,060.15 | \$ 161,142.80 | 55 | 2,929.87 | 101,568.80 | 59,574.00 | | | |
| 333.40 | Services (Company Service Line) | EA | 1 | 2000 | 7/1/2000 | \$ 3,500.00 | W-2-line 39 | 272.0 | 749.5 | 0.3629 | \$ 1,270.15 | \$ 1,270.15 | 55 | 23.09 | 569.64 | 700.51 | | | |
| Total Account 333.40 | | | | | | | | | | | | \$ 164,302.95 | | \$ 2,987.33 | \$ 104,028.44 | \$ 60,274.51 | | | |
| <u>Account 334.40 - Meters & Meter Installations:</u> | | | | | | | | | | | | | | | | | | | |
| 334.40 | Meters | EA | 162 | 2000 | 7/1/2000 | \$ 450.00 | W-2-line 40 | 205.0 | 1074.0 | 0.1909 | 85.91 | 13,917.42 | 10 | 1,391.74 | 13,917.42 | - | 162 Meters with assumed install date of 2000. | | |
| Total Account 334.40 | | | | | | | | | | | | \$ 13,917.42 | | \$ 1,391.74 | \$ 13,917.42 | \$ - | | | |
| <u>Account 335.40 - Fire Hydrants:</u> | | | | | | | | | | | | | | | | | | | |
| 335.40 | Fire Hydrants | EA | 1 | 1960 | 7/1/1960 | \$ 5,000.00 | W-2-line 42 | 55.0 | 1428.0 | 0.0385 | \$ 192.50 | \$ 192.50 | 65 | \$ 2.96 | \$ 191.51 | \$ 0.99 | 16 Hydrants based on mapping provided by Livingston. Assumed all hydrants are on 6" mains. Hydrant install dates were assumed relative to install dates for 6" mains. | | |
| 335.40 | Fire Hydrants | EA | 15 | 1990 | 7/1/1990 | \$ 5,000.00 | W-2-line 42 | 346.0 | 1428.0 | 0.2423 | \$ 1,211.50 | \$ 18,172.50 | 65 | 279.58 | 9,692.00 | 8,480.50 | | | |
| Total Account 335.40 | | | | | | | | | | | | \$ 18,365.00 | | \$ 282.54 | \$ 9,883.51 | \$ 8,481.49 | | | |
| Total | | | | | | | | | | | | \$ 3,048,926.57 | | \$ 48,733.39 | \$ 1,608,378.61 | \$ 1,441,797.96 | | | |

Bulletin No. 200

1912 to July 1, 2024

The
Handy-Whitman Index®
of
Public Utility
Construction Costs™



Trends of Construction Costs

COMPILED & PUBLISHED BY

Whitman, Requardt & Associates, LLP

Engineers, Architects and Planners

801 South Caroline Street

Baltimore, Maryland 21231

410-235-3450

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| Pacific Region | B-6 | B-6-1 |
| Utility Materials | M-1 | B-M-1 |

COST TRENDS OF ELECTRIC UTILITY CONSTRUCTION

| | | |
|--|-----|-------|
| Cost Trend Tables - 1912 to July 1, 2024 | | |
| North Atlantic Region | E-1 | E-1-1 |
| South Atlantic Region | E-2 | E-2-1 |
| North Central Region | E-3 | E-3-1 |
| South Central Region | E-4 | E-4-1 |
| Plateau Region | E-5 | E-5-1 |
| Pacific Region | E-6 | E-6-1 |

COST TRENDS OF GAS UTILITY CONSTRUCTION

| | | |
|--|-----|-------|
| Cost Trend Tables - 1912 to July 1, 2024 | | |
| North Atlantic Region | G-1 | G-1-1 |
| South Atlantic Region | G-2 | G-2-1 |
| North Central Region | G-3 | G-3-1 |
| South Central Region | G-4 | G-4-1 |
| Plateau Region | G-5 | G-5-1 |
| Pacific Region | G-6 | G-6-1 |

COST TRENDS OF WATER UTILITY CONSTRUCTION

| | | |
|--|-----|-------|
| Cost Trend Tables - 1912 to July 1, 2024 | | |
| North Atlantic Region | W-1 | W-1-1 |
| South Atlantic Region | W-2 | W-2-1 |
| North Central Region | W-3 | W-3-1 |
| South Central Region | W-4 | W-4-1 |
| Plateau Region | W-5 | W-5-1 |
| Pacific Region | W-6 | W-6-1 |

TRENDS OF PUBLIC UTILITY CONSTRUCTION COSTS

GEOGRAPHIC REGIONS



FOREWORD

Tradition of Quality

The Handy-Whitman Index of Public Utility Construction Costs has been published continuously since 1924. Formerly the Handy Index, Bulletin Nos. 1 through 15 were developed by William W. Handy of Baltimore who had wide valuation experience in public utilities. *He believed that valuation studies should not be confined to rate cases but should be kept alive to the benefit of the utility industry.* He began publishing index numbers for electric and gas construction cost trends. Carrying on with the *tradition of quality*, after Mr. Handy's death, we continued publication for his estate beginning with Bulletin 16. Then, January 1, 1950, Whitman, Requardt and Associates, LLP purchased rights to the publication and have since been the sole publishers.

The name Handy-Whitman Index was adopted for Bulletin No. 53 and succeeding issues to combine the names of Mr. Handy and Ezra B. Whitman, a well-known valuation engineer. In 1957 an index of water utility construction costs was added. Mr. Whitman was a consultant on the publication of the Index until his death in 1963.

Whitman, Requardt and Associates, LLP

Ezra B. Whitman, a well-known valuation engineer was one of the founders of our firm. Major Whitman, as he was known from his World War I service, had already made a name for himself. Prior to the founding of the firm in 1915, Major Whitman had been President and Chief Engineer of the Water Board of the City of Baltimore. He designed the first rapid sand filtration plant serving a major city while he was the Baltimore Water Engineer. He was also president of the American Society of Civil Engineers and of the American Institute of Consulting Engineers and a chairman of the Public Service Commission of Maryland.

The Handy-Whitman Index is prepared especially for electric, gas and water utilities and is the only known publication of its kind available to the public. The list of subscribers is international and includes operating utilities, regulatory bodies, valuation engineers, equipment industries, insurance companies and reference libraries.

Tradition of Quality Continued

Since 1915, Whitman, Requardt and Associates, LLP, has been an independent consulting engineering firm organized to serve government, industry and private enterprise.

The firm has steadily expanded its engineering capabilities, providing complete services for civil, sanitary, structural, mechanical and electrical engineering and architectural projects from job inception through construction management.

Construction cost data from utility projects of all types are available from design and valuation assignments. The staff is composed of specialists in these and related disciplines who bring a diverse professional and academic expertise to each assignment. A full-time staff is maintained specifically for preparing the Handy-Whitman Index.

Methods of Preparation of Indexes

An index number is a percentage ratio between the cost of an item at any stated time and its cost at a base period, or:

$$\text{Index Number} = \frac{\text{cost at stated time}}{\text{cost at base period}} \times 100$$

Index numbers have been prepared for many items, including wage rates, cost-of-living, material and equipment costs, and financial transactions. In the Handy-Whitman Index, index numbers have been developed for Building Construction, Electric Utility Construction, Gas Utility Construction and Water Utility Construction. Prices of basic materials such as cement, sand, gravel, cast iron pipe, wire, etc., are obtained from publications such as Engineering News-Record and checked against prices actually being paid for such materials. Labor cost trends are computed from labor rates obtained from sources such as the Construction Labor Research Council. Prices and cost trends of equipment are obtained from nationally recognized manufacturers, and operating utilities.

Handy-Whitman Index numbers are developed from wage rates and prices prevailing on January 1 and July 1 each year. The index numbers are generally based on 1973 = 100, although those items of recent origin are based on a later year.

The proportions of basic materials, labor, equipment and other cost components used in the Handy-Whitman Index are based on analyses developed during valuation and design assignments and on data furnished by utilities and industrial sources willing to assist with the Index. These data are reviewed continuously, and weightings and components are revised as required. This review assures that the indexes published reflect current construction practice.

Geographic Regions

To reflect differing cost trends throughout the 48 contiguous states, the index has been divided into six geographical regions of similar characteristics. They are shown on the accompanying map.

Use of Index Numbers

Handy-Whitman Index numbers have been widely used to trend earlier valuations and original cost records to estimate reproduction cost at prices prevailing at a certain date. The use of indexes for an appropriate property item or group will provide a reliable guide to changes in cost. Cost trends are given for all the important items of property. The electric and gas groups are arranged by the Federal Energy Regulatory Commission Uniform System of Accounts.

The water property accounts are arranged to follow the classification of the National Association of Regulatory Utility Commissioners and the American Water Works Association.

The Handy-Whitman Index will furnish a yardstick for the fluctuations in value of property which will be satisfactory for many purposes. In rate cases, when a more exact determination of value is desired, however, the Index must be used carefully. Average prices and cost trends are used to develop the Index, and any direct application of cost trends without checking with actual local experience may not be accepted without controversy. When local experience is compared with the index and the correlation between the two trends is determined, the result is satisfactory. Costs trended by such a method are used to assist in establishing a rate base.

Indexes in these bulletins are used to trend earlier valuations or original cost records for insurance purposes.

The Handy-Whitman Index has a general application in valuations of all types of property. The building construction cost trends may be used wherever similar items of property are to be compared. Many of the other trends may be used for related items in other industries because of their similarity.

State-of-the-art changes often affect costs independently of inflation. New regulatory and environmental requirements, changes in work rules and improved design standards, for instance, increase construction costs even though the price of wages, materials and equipment may be static. Trended construction costs will not reflect such changes. However, trended costs are a reasonably accurate measure of the cost of reproducing actual plant.

Although every effort is made to maintain accuracy, Whitman, Requardt and Associates, LLP disclaim any

responsibility for the use of these indexes, because local conditions may vary.

No guarantee or warranty of any kind is made in the sale of the Handy-Whitman Index. Published numbers are occasionally subject to change based upon receipt of new or different information. These numbers will be bolded.

Further inquiries on electric, gas and water indexes should be addressed to Whitman, Requardt and Associates, LLP.

Total Electric Plant and Function

Three indexes are provided for total plant. The first is for all steam generation and the other two for weighted combinations of steam and nuclear, and steam and hydro generation. Indexes are also provided for each function.

Indexes are not maintained for plant accounts 323,324,325,341,345 and 346. We believe that indexes for comparable accounts in other functions are sufficiently accurate for these accounts.

The indexes for total nuclear production and total other production incorporate comparable indexes from the steam production function for the accounts not listed.

Value of Index Numbers

We believe that present-day reproduction cost of any property can be calculated more accurately using index numbers than by repricing a complete inventory.

Trending the controlling items of property in any utility by the index method saves time and effort in arriving at a valuation. Analyzing and determining cost trends for all of the great numbers of articles of plant that represent only a very small proportion of the value of the utility is not necessary. They may be assumed to follow in general the trend of the controlling items, and the fluctuations in value above or below the trends of the controlling items will tend to offset each other and have a very slight effect on the total value.

Comments on Bulletin No. 200

During the twelve-month period ending January 1, 2024, the average index of all geographical regions for Total Gas Plant increased 1.1%, and the comparable index for Electric Plant-All Steam Generation increased 7.1%.

November 2024
Whitman, Requardt and Associates, LLP

| L i n e | CONSTRUCTION AND EQUIPMENT | N A R U C | COST INDEX NUMBERS | | | | | | | | | | | | | |
|------------------|----------------------------------|-----------------------|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| 1 | Source of Supply Plant | | | | | | | | | | | | | | | |
| 2 | Collecting & Impounding Res. | 305 | 7 | 7 | 7 | 8 | 9 | 12 | 15 | 16 | 17 | 15 | 15 | 15 | 16 | 16 |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | Pumping Plant | | | | | | | | | | | | | | | |
| 8 | Structures & Improvements | 304 | 8 | 8 | 8 | 9 | 11 | 15 | 16 | 17 | 19 | 17 | 16 | 17 | 17 | 17 |
| 9 | Electric Pumping Equipment | 311 | - | - | 15 | 15 | 17 | 20 | 22 | 24 | 24 | 23 | 21 | 22 | 23 | 23 |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | Water Treatment Plant | | | | | | | | | | | | | | | |
| 15 | Structures & Improvements | 304 | 8 | 8 | 8 | 9 | 11 | 15 | 16 | 17 | 19 | 17 | 16 | 17 | 17 | 17 |
| 16 | Large Treatment Plant Equip. | 320 | 8 | 8 | 8 | 8 | 10 | 12 | 14 | 16 | 18 | 16 | 15 | 16 | 17 | 17 |
| 17 | Small Treatment Plant Equip. | 320 | 9 | 10 | 9 | 10 | 12 | 16 | 17 | 18 | 20 | 18 | 17 | 18 | 19 | 19 |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | Transmission Plant | | | | | | | | | | | | | | | |
| 23 | Steel Reservoirs | 330 | 4 | 4 | 4 | 12 | 15 | 17 | 19 | 20 | 15 | 13 | 12 | 13 | 13 | 13 |
| 24 | Elevated Steel Tanks | 330 | 4 | 4 | 4 | 11 | 14 | 16 | 18 | 19 | 16 | 13 | 11 | 12 | 11 | 10 |
| 25 | Concrete Reservoirs | 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | | | | | | | | | | | | | | | | |
| 27 | Cast Iron Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 28 | Steel Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | Concrete Cylinder Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | |
| 33 | Distribution Plant | | | | | | | | | | | | | | | |
| 34 | Mains-Average All Types | 331 | 9 | 10 | 9 | 10 | 11 | 16 | 19 | 20 | 23 | 20 | 18 | 19 | 20 | 20 |
| 35 | Cast Iron Mains | 331 | 9 | 10 | 10 | 10 | 12 | 18 | 20 | 22 | 25 | 21 | 19 | 21 | 22 | 22 |
| 36 | Cement-Asbestos Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 37 | Steel Mains | 331 | 6 | 7 | 7 | 8 | 8 | 11 | 13 | 14 | 14 | 14 | 12 | 13 | 13 | 14 |
| 38 | PVC Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 39 | Services Installed | 333 | 5 | 6 | 6 | 6 | 6 | 8 | 10 | 11 | 11 | 11 | 10 | 10 | 10 | 11 |
| 40 | Meters | 334 | 23 | 23 | 23 | 23 | 26 | 29 | 35 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| 41 | Meter Installations | 334 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 42 | Hydrants Installed | 335 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 43 | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | |
| 45 | Miscellaneous Items | | | | | | | | | | | | | | | |
| 46 | Flocculating Equipment-Installed | | 14 | 16 | 12 | 14 | 25 | 36 | 30 | 27 | 27 | 22 | 24 | 24 | 23 | 22 |
| 47 | Clarifier Equipment-Installed | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 48 | Filter Gallery Piping-Installed | | 8 | 9 | 8 | 9 | 10 | 13 | 17 | 19 | 21 | 19 | 17 | 19 | 20 | 19 |
| 49 | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | |
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| 56 | | | | | | | | | | | | | | | | |

SOUTH ATLANTIC REGION (1973=100)

| L i n e | CONSTRUCTION AND EQUIPMENT | N A R U C | COST INDEX NUMBERS | | | | | | | | | | | | | |
|------------------|----------------------------------|-----------------------|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | Source of Supply Plant | | | | | | | | | | | | | | | |
| 2 | Collecting & Impounding Res. | 305 | 16 | 15 | 15 | 15 | 15 | 14 | 13 | 13 | 15 | 15 | 14 | 15 | 15 | 16 |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | Pumping Plant | | | | | | | | | | | | | | | |
| 8 | Structures & Improvements | 304 | 17 | 17 | 16 | 16 | 15 | 14 | 13 | 13 | 15 | 15 | 15 | 16 | 16 | 16 |
| 9 | Electric Pumping Equipment | 311 | 23 | 23 | 23 | 22 | 22 | 22 | 22 | 23 | 24 | 24 | 25 | 26 | 26 | 26 |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | Water Treatment Plant | | | | | | | | | | | | | | | |
| 15 | Structures & Improvements | 304 | 17 | 17 | 16 | 16 | 15 | 14 | 13 | 13 | 15 | 15 | 15 | 16 | 16 | 16 |
| 16 | Large Treatment Plant Equip. | 320 | 17 | 16 | 16 | 17 | 16 | 15 | 14 | 14 | 15 | 15 | 15 | 17 | 17 | 17 |
| 17 | Small Treatment Plant Equip. | 320 | 18 | 17 | 17 | 17 | 17 | 15 | 14 | 15 | 16 | 16 | 16 | 18 | 18 | 18 |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | Transmission Plant | | | | | | | | | | | | | | | |
| 23 | Steel Reservoirs | 330 | 12 | 12 | 12 | 12 | 11 | 10 | 9 | 9 | 12 | 11 | 12 | 14 | 14 | 14 |
| 24 | Elevated Steel Tanks | 330 | 11 | 10 | 10 | 10 | 10 | 9 | 8 | 8 | 10 | 10 | 11 | 12 | 13 | 13 |
| 25 | Concrete Reservoirs | 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | | | | | | | | | | | | | | | | |
| 27 | Cast Iron Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 28 | Steel Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | Concrete Cylinder Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | |
| 33 | Distribution Plant | | | | | | | | | | | | | | | |
| 34 | Mains-Average All Types | 331 | 20 | 18 | 17 | 17 | 17 | 17 | 15 | 16 | 18 | 18 | 17 | 19 | 20 | 20 |
| 35 | Cast Iron Mains | 331 | 22 | 19 | 18 | 18 | 18 | 17 | 15 | 16 | 19 | 19 | 19 | 20 | 21 | 21 |
| 36 | Cement-Asbestos Mains | 331 | - | - | - | - | - | - | - | - | - | - | 26 | 28 | 29 | 29 |
| 37 | Steel Mains | 331 | 15 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 13 | 13 | 12 | 13 | 14 | 14 |
| 38 | PVC Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 39 | Services Installed | 333 | 12 | 10 | 10 | 11 | 10 | 11 | 10 | 9 | 10 | 11 | 10 | 11 | 11 | 11 |
| 40 | Meters | 334 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 35 | 26 | 26 | 26 | 31 | 32 | 32 |
| 41 | Meter Installations | 334 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 42 | Hydrants Installed | 335 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 43 | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | |
| 45 | Miscellaneous Items | | | | | | | | | | | | | | | |
| 46 | Flocculating Equipment-Installed | | 21 | 21 | 21 | 21 | 19 | 18 | 18 | 18 | 20 | 20 | 21 | 24 | 24 | 23 |
| 47 | Clarifier Equipment-Installed | | - | - | - | - | - | - | - | - | - | - | - | 16 | 22 | 22 |
| 48 | Filter Gallery Piping-Installed | | 20 | 18 | 17 | 17 | 17 | 16 | 15 | 16 | 17 | 17 | 17 | 19 | 19 | 19 |
| 49 | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | |
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| L i n e | CONSTRUCTION AND EQUIPMENT | N A R U C | COST INDEX NUMBERS | | | | | | | | | | | | | |
|------------------|----------------------------------|-----------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | | 1 9 4 0 | 1 9 4 1 | 1 9 4 2 | 1 9 4 3 | 1 9 4 4 | 1 9 4 5 | 1 9 4 6 | 1 9 4 7 | 1 9 4 8 | 1 9 4 9 | 1 9 5 0 | 1 9 5 1 | 1 9 5 2 | 1 9 5 3 |
| 1 | Source of Supply Plant | | | | | | | | | | | | | | | |
| 2 | Collecting & Impounding Res. | 305 | 16 | 17 | 19 | 20 | 20 | 21 | 24 | 28 | 31 | 32 | 33 | 35 | 37 | 39 |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | Pumping Plant | | | | | | | | | | | | | | | |
| 8 | Structures & Improvements | 304 | 16 | 18 | 20 | 20 | 20 | 21 | 24 | 28 | 32 | 33 | 34 | 36 | 37 | 39 |
| 9 | Electric Pumping Equipment | 311 | 26 | 27 | 27 | 27 | 27 | 27 | 31 | 39 | 43 | 45 | 49 | 55 | 55 | 55 |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | Water Treatment Plant | | | | | | | | | | | | | | | |
| 15 | Structures & Improvements | 304 | 16 | 18 | 20 | 20 | 20 | 21 | 24 | 28 | 32 | 33 | 34 | 36 | 37 | 39 |
| 16 | Large Treatment Plant Equip. | 320 | 18 | 20 | 21 | 21 | 22 | 23 | 26 | 32 | 35 | 35 | 36 | 39 | 40 | 42 |
| 17 | Small Treatment Plant Equip. | 320 | 18 | 20 | 22 | 22 | 22 | 23 | 27 | 33 | 37 | 37 | 38 | 41 | 42 | 43 |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | Transmission Plant | | | | | | | | | | | | | | | |
| 23 | Steel Reservoirs | 330 | 14 | 16 | 16 | 13 | 14 | 16 | 20 | 26 | 29 | 27 | 28 | 30 | 31 | 32 |
| 24 | Elevated Steel Tanks | 330 | 12 | 15 | 15 | 14 | 15 | 14 | 17 | 23 | 26 | 25 | 26 | 28 | 29 | 31 |
| 25 | Concrete Reservoirs | 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | | | | | | | | | | | | | | | | |
| 27 | Cast Iron Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | 44 | 45 | 46 |
| 28 | Steel Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | 40 | 41 | 44 |
| 29 | Concrete Cylinder Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | 46 | 47 | 49 |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | |
| 33 | Distribution Plant | | | | | | | | | | | | | | | |
| 34 | Mains-Average All Types | 331 | 20 | 22 | 24 | 24 | 25 | 26 | 30 | 35 | 41 | 43 | 43 | 46 | 47 | 49 |
| 35 | Cast Iron Mains | 331 | 21 | 23 | 25 | 26 | 27 | 28 | 32 | 40 | 46 | 46 | 46 | 50 | 51 | 53 |
| 36 | Cement-Asbestos Mains | 331 | 29 | 32 | 34 | 35 | 35 | 36 | 44 | 49 | 57 | 60 | 60 | 62 | 64 | 67 |
| 37 | Steel Mains | 331 | 14 | 15 | 17 | 17 | 18 | 19 | 21 | 24 | 28 | 31 | 30 | 32 | 34 | 37 |
| 38 | PVC Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 39 | Services Installed | 333 | 11 | 13 | 14 | 15 | 15 | 16 | 18 | 21 | 24 | 25 | 26 | 27 | 29 | 31 |
| 40 | Meters | 334 | 33 | 35 | 37 | 37 | 37 | 37 | 40 | 42 | 48 | 52 | 59 | 61 | 61 | 65 |
| 41 | Meter Installations | 334 | - | - | - | - | - | - | - | - | - | 33 | 34 | 37 | 38 | 40 |
| 42 | Hydrants Installed | 335 | - | - | - | - | - | - | - | - | - | 36 | 38 | 42 | 43 | 44 |
| 43 | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | |
| 45 | Miscellaneous Items | | | | | | | | | | | | | | | |
| 46 | Flocculating Equipment-Installed | | 24 | 25 | 26 | 26 | 26 | 29 | 32 | 37 | 42 | 43 | 43 | 46 | 47 | 49 |
| 47 | Clarifier Equipment-Installed | | 23 | 25 | 26 | 26 | 26 | 28 | 31 | 36 | 41 | 42 | 42 | 45 | 45 | 47 |
| 48 | Filter Gallery Piping-Installed | | 19 | 20 | 22 | 22 | 22 | 23 | 26 | 30 | 36 | 37 | 37 | 40 | 41 | 42 |
| 49 | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | |
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| 56 | | | | | | | | | | | | | | | | |

SOUTH ATLANTIC REGION (1973=100)

| L i n e | CONSTRUCTION AND EQUIPMENT | N A R U C | COST INDEX NUMBERS | | | | | | | | | | | | | |
|------------------|----------------------------------|-----------------------|--------------------|----|----|----|----|----|----|----|----|----|----|----|-----|-----|
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Source of Supply Plant | | | | | | | | | | | | | | | |
| 2 | Collecting & Impounding Res. | 305 | 40 | 42 | 45 | 48 | 49 | 52 | 53 | 54 | 56 | 58 | 59 | 60 | 63 | 65 |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | Pumping Plant | | | | | | | | | | | | | | | |
| 8 | Structures & Improvements | 304 | 41 | 42 | 46 | 48 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 59 | 60 |
| 9 | Electric Pumping Equipment | 311 | 55 | 56 | 63 | 69 | 73 | 74 | 74 | 71 | 71 | 71 | 73 | 74 | 78 | 81 |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | Water Treatment Plant | | | | | | | | | | | | | | | |
| 15 | Structures & Improvements | 304 | 41 | 42 | 46 | 48 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 59 | 60 |
| 16 | Large Treatment Plant Equip. | 320 | 43 | 45 | 47 | 49 | 51 | 53 | 55 | 56 | 58 | 60 | 61 | 63 | 65 | 67 |
| 17 | Small Treatment Plant Equip. | 320 | 45 | 46 | 49 | 51 | 52 | 54 | 56 | 58 | 60 | 61 | 62 | 64 | 66 | 69 |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | Transmission Plant | | | | | | | | | | | | | | | |
| 23 | Steel Reservoirs | 330 | 32 | 33 | 38 | 42 | 37 | 36 | 35 | 35 | 35 | 41 | 44 | 45 | 46 | 47 |
| 24 | Elevated Steel Tanks | 330 | 31 | 33 | 35 | 38 | 38 | 38 | 38 | 37 | 36 | 37 | 38 | 38 | 41 | 44 |
| 25 | Concrete Reservoirs | 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | | | | | | | | | | | | | | | | |
| 27 | Cast Iron Mains | 331 | 49 | 52 | 55 | 58 | 60 | 62 | 64 | 66 | 67 | 67 | 68 | 69 | 71 | 73 |
| 28 | Steel Mains | 331 | 46 | 48 | 50 | 54 | 56 | 58 | 59 | 59 | 60 | 60 | 61 | 62 | 65 | 67 |
| 29 | Concrete Cylinder Mains | 331 | 51 | 52 | 55 | 57 | 59 | 61 | 62 | 63 | 63 | 63 | 63 | 65 | 67 | 71 |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | |
| 33 | Distribution Plant | | | | | | | | | | | | | | | |
| 34 | Mains-Average All Types | 331 | 52 | 54 | 58 | 60 | 63 | 66 | 68 | 70 | 72 | 74 | 75 | 75 | 76 | 76 |
| 35 | Cast Iron Mains | 331 | 56 | 59 | 63 | 66 | 69 | 71 | 73 | 76 | 78 | 80 | 80 | 81 | 81 | 82 |
| 36 | Cement-Asbestos Mains | 331 | 68 | 70 | 74 | 78 | 81 | 85 | 87 | 88 | 90 | 92 | 91 | 84 | 85 | 84 |
| 37 | Steel Mains | 331 | 39 | 41 | 44 | 47 | 49 | 52 | 53 | 56 | 58 | 60 | 61 | 63 | 64 | 66 |
| 38 | PVC Mains | 331 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 39 | Services Installed | 333 | 33 | 34 | 37 | 39 | 41 | 43 | 45 | 47 | 49 | 51 | 53 | 54 | 56 | 59 |
| 40 | Meters | 334 | 67 | 70 | 77 | 78 | 78 | 78 | 78 | 78 | 84 | 87 | 87 | 93 | 101 | 101 |
| 41 | Meter Installations | 334 | 41 | 43 | 46 | 48 | 49 | 51 | 53 | 50 | 54 | 55 | 55 | 59 | 63 | 65 |
| 42 | Hydrants Installed | 335 | 45 | 45 | 49 | 50 | 52 | 54 | 55 | 56 | 56 | 57 | 57 | 58 | 61 | 64 |
| 43 | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | |
| 45 | Miscellaneous Items | | | | | | | | | | | | | | | |
| 46 | Flocculating Equipment-Installed | | 50 | 51 | 55 | 56 | 57 | 58 | 58 | 59 | 60 | 61 | 63 | 64 | 65 | 66 |
| 47 | Clarifier Equipment-Installed | | 48 | 48 | 52 | 53 | 55 | 56 | 57 | 57 | 58 | 59 | 61 | 62 | 63 | 64 |
| 48 | Filter Gallery Piping-Installed | | 45 | 46 | 48 | 51 | 53 | 55 | 56 | 57 | 58 | 59 | 59 | 61 | 63 | 65 |
| 49 | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | |
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| 56 | | | | | | | | | | | | | | | | |

COST TRENDS OF WATER UTILITY CONSTRUCTION

SOUTH ATLANTIC REGION (1973=100)

| L i n e | CONSTRUCTION AND EQUIPMENT | N A R U C | COST INDEX NUMBERS | | | | | | | | | | | | | | |
|------------------|----------------------------------|-----------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 |
| | | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 |
| 1 | Source of Supply Plant | | | | | | | | | | | | | | | | |
| 2 | Collecting & Impounding Res. | 305 | 68 | 72 | 76 | 83 | 92 | 100 | 116 | 129 | 132 | 141 | 152 | 167 | 182 | 198 | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | Pumping Plant | | | | | | | | | | | | | | | | |
| 8 | Structures & Improvements | 304 | 64 | 70 | 73 | 81 | 93 | 100 | 115 | 127 | 131 | 139 | 152 | 164 | 179 | 191 | |
| 9 | Electric Pumping Equipment | 311 | 81 | 84 | 89 | 93 | 96 | 100 | 122 | 155 | 174 | 184 | 192 | 205 | 222 | 245 | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | Water Treatment Plant | | | | | | | | | | | | | | | | |
| 15 | Structures & Improvements | 304 | 64 | 70 | 73 | 81 | 93 | 100 | 115 | 127 | 131 | 139 | 152 | 164 | 179 | 191 | |
| 16 | Large Treatment Plant Equip. | 320 | 69 | 74 | 80 | 88 | 95 | 100 | 119 | 138 | 149 | 157 | 168 | 181 | 198 | 217 | |
| 17 | Small Treatment Plant Equip. | 320 | 71 | 75 | 80 | 89 | 95 | 100 | 121 | 142 | 154 | 164 | 177 | 191 | 211 | 232 | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | Transmission Plant | | | | | | | | | | | | | | | | |
| 23 | Steel Reservoirs | 330 | 49 | 53 | 75 | 82 | 85 | 100 | 140 | 159 | 171 | 172 | 173 | 178 | 191 | 208 | |
| 24 | Elevated Steel Tanks | 330 | 48 | 55 | 71 | 80 | 86 | 100 | 152 | 183 | 182 | 183 | 195 | 206 | 228 | 250 | |
| 25 | Concrete Reservoirs | 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | Cast Iron Mains | 331 | 74 | 79 | 84 | 91 | 94 | 100 | 132 | 140 | 144 | 150 | 159 | 167 | 184 | 202 | |
| 28 | Steel Mains | 331 | 68 | 74 | 79 | 87 | 93 | 100 | 114 | 125 | 132 | 138 | 150 | 164 | 181 | 201 | |
| 29 | Concrete Cylinder Mains | 331 | 72 | 78 | 79 | 87 | 93 | 100 | 114 | 135 | 138 | 137 | 146 | 162 | 178 | 194 | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | | |
| 33 | Distribution Plant | | | | | | | | | | | | | | | | |
| 34 | Mains-Average All Types | 331 | 78 | 81 | 85 | 94 | 98 | 100 | 132 | 150 | 157 | 164 | 177 | 189 | 206 | 223 | |
| 35 | Cast Iron Mains | 331 | 83 | 84 | 88 | 97 | 99 | 100 | 144 | 161 | 165 | 169 | 180 | 187 | 204 | 222 | |
| 36 | Cement-Asbestos Mains | 331 | 85 | 88 | 89 | 97 | 98 | 100 | 129 | 151 | 162 | 171 | 180 | 206 | 217 | 228 | |
| 37 | Steel Mains | 331 | 68 | 73 | 79 | 88 | 96 | 100 | 116 | 132 | 144 | 155 | 170 | 186 | 205 | 223 | |
| 38 | PVC Mains | 331 | - | - | - | - | - | - | 25 | 100 | 104 | 107 | 112 | 122 | 131 | 138 | |
| 39 | Services Installed | 333 | 65 | 70 | 76 | 83 | 92 | 100 | 113 | 123 | 132 | 143 | 148 | 156 | 176 | 193 | |
| 40 | Meters | 334 | 101 | 106 | 108 | 108 | 106 | 100 | 93 | 93 | 98 | 101 | 105 | 108 | 122 | 127 | |
| 41 | Meter Installations | 334 | 68 | 74 | 80 | 87 | 94 | 100 | 115 | 126 | 134 | 144 | 151 | 162 | 180 | 196 | |
| 42 | Hydrants Installed | 335 | 68 | 73 | 80 | 89 | 95 | 100 | 125 | 147 | 162 | 172 | 188 | 199 | 214 | 232 | |
| 43 | | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | | |
| 45 | Miscellaneous Items | | | | | | | | | | | | | | | | |
| 46 | Flocculating Equipment-Installed | | 67 | 72 | 79 | 90 | 97 | 100 | 139 | 173 | 194 | 216 | 244 | 289 | 353 | 413 | |
| 47 | Clarifier Equipment-Installed | | 65 | 70 | 79 | 91 | 97 | 100 | 139 | 166 | 180 | 197 | 208 | 229 | 270 | 311 | |
| 48 | Filter Gallery Piping-Installed | | 67 | 73 | 79 | 88 | 96 | 100 | 121 | 134 | 139 | 146 | 155 | 162 | 175 | 194 | |
| 49 | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | | | | | | |
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| 54 | | | | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | | | | | | |

SOUTH ATLANTIC REGION (1973=100)

| L i n e | CONSTRUCTION AND EQUIPMENT | N A R U C | COST INDEX NUMBERS | | | | | | | | | | | | | | |
|------------------|----------------------------------|-----------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| 1 | Source of Supply Plant | | | | | | | | | | | | | | | | |
| 2 | Collecting & Impounding Res. | 305 | 205 | 208 | 213 | 220 | 222 | 222 | 233 | 236 | 239 | 229 | 231 | 240 | 251 | 258 | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | Pumping Plant | | | | | | | | | | | | | | | | |
| 8 | Structures & Improvements | 304 | 195 | 201 | 208 | 214 | 217 | 219 | 226 | 235 | 235 | 232 | 236 | 248 | 259 | 266 | |
| 9 | Electric Pumping Equipment | 311 | 260 | 271 | 277 | 282 | 284 | 299 | 311 | 330 | 349 | 355 | 368 | 386 | 428 | 442 | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | Water Treatment Plant | | | | | | | | | | | | | | | | |
| 15 | Structures & Improvements | 304 | 195 | 201 | 208 | 214 | 217 | 219 | 226 | 235 | 235 | 232 | 236 | 248 | 259 | 266 | |
| 16 | Large Treatment Plant Equip. | 320 | 232 | 244 | 248 | 255 | 258 | 263 | 271 | 284 | 288 | 290 | 297 | 303 | 305 | 311 | |
| 17 | Small Treatment Plant Equip. | 320 | 248 | 261 | 265 | 273 | 276 | 281 | 290 | 302 | 305 | 305 | 311 | 317 | 320 | 324 | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | Transmission Plant | | | | | | | | | | | | | | | | |
| 23 | Steel Reservoirs | 330 | 210 | 182 | 184 | 181 | 184 | 196 | 220 | 216 | 229 | 253 | 261 | 248 | 246 | 249 | |
| 24 | Elevated Steel Tanks | 330 | 244 | 197 | 200 | 198 | 207 | 219 | 260 | 268 | 278 | 285 | 277 | 249 | 242 | 253 | |
| 25 | Concrete Reservoirs | 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | Cast Iron Mains | 331 | 214 | 225 | 224 | 231 | 227 | 232 | 242 | 252 | 255 | 256 | 258 | 268 | 276 | 274 | |
| 28 | Steel Mains | 331 | 218 | 222 | 225 | 224 | 219 | 226 | 237 | 250 | 254 | 258 | 262 | 270 | 284 | 290 | |
| 29 | Concrete Cylinder Mains | 331 | 208 | 214 | 215 | 224 | 230 | 231 | 244 | 252 | 257 | 264 | 269 | 276 | 283 | 288 | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | | |
| 33 | Distribution Plant | | | | | | | | | | | | | | | | |
| 34 | Mains-Average All Types | 331 | 230 | 236 | 236 | 241 | 237 | 244 | 260 | 272 | 273 | 273 | 272 | 279 | 284 | 284 | |
| 35 | Cast Iron Mains | 331 | 225 | 244 | 246 | 254 | 247 | 253 | 264 | 278 | 280 | 280 | 283 | 290 | 298 | 294 | |
| 36 | Cement-Asbestos Mains | 331 | 226 | 217 | 220 | 219 | 213 | 233 | 272 | 293 | 287 | 275 | 259 | 271 | 272 | 285 | |
| 37 | Steel Mains | 331 | 241 | 230 | 227 | 229 | 230 | 233 | 247 | 255 | 257 | 259 | 260 | 266 | 267 | 269 | |
| 38 | PVC Mains | 331 | 134 | 147 | 144 | 144 | 142 | 150 | 189 | 208 | 198 | 183 | 164 | 172 | 168 | 181 | |
| 39 | Services Installed | 333 | 200 | 204 | 207 | 206 | 206 | 212 | 218 | 224 | 227 | 224 | 230 | 237 | 245 | 259 | |
| 40 | Meters | 334 | 128 | 141 | 148 | 135 | 135 | 137 | 140 | 150 | 159 | 162 | 196 | 195 | 175 | 200 | |
| 41 | Meter Installations | 334 | 208 | 222 | 229 | 230 | 234 | 238 | 246 | 251 | 256 | 263 | 270 | 277 | 283 | 292 | |
| 42 | Hydrants Installed | 335 | 252 | 270 | 271 | 281 | 290 | 299 | 312 | 332 | 346 | 350 | 352 | 355 | 356 | 362 | |
| 43 | | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | | |
| 45 | Miscellaneous Items | | | | | | | | | | | | | | | | |
| 46 | Flocculating Equipment-Installed | | 464 | 500 | 507 | 538 | 555 | 569 | 570 | 568 | 549 | 504 | 513 | 528 | 532 | 535 | |
| 47 | Clarifier Equipment-Installed | | 354 | 382 | 387 | 415 | 421 | 425 | 427 | 428 | 412 | 383 | 399 | 419 | 451 | 470 | |
| 48 | Filter Gallery Piping-Installed | | 204 | 216 | 215 | 220 | 217 | 220 | 227 | 235 | 238 | 240 | 243 | 247 | 252 | 250 | |
| 49 | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | | | | | | |
| 54 | | | | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | | | |
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COST TRENDS OF WATER UTILITY CONSTRUCTION

SOUTH ATLANTIC REGION (1973=100)

| L i n e | CONSTRUCTION AND EQUIPMENT | N A R U C | COST INDEX NUMBERS | | | | | | | | | | | | | | |
|------------------|----------------------------------|-----------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | 1 9 9 6 | 1 9 9 7 | 1 9 9 8 | 1 9 9 9 | 2 0 0 0 | 2 0 0 1 | 2 0 0 2 | 2 0 0 3 | 2 0 0 4 | 2005 | | 2006 | | 2007 | |
| | | | | | | | | | | | | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 |
| | | | | | | | | | | | | | | | | | |
| 1 | Source of Supply Plant | 305 | 267 | 274 | 277 | 282 | 289 | 294 | 297 | 302 | 323 | 330 | 338 | 345 | 353 | 368 | 381 |
| 2 | Collecting & Impounding Res. | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | Pumping Plant | | | | | | | | | | | | | | | | |
| 8 | Structures & Improvements | 304 | 271 | 278 | 283 | 290 | 307 | 318 | 324 | 328 | 355 | 370 | 375 | 382 | 393 | 407 | 417 |
| 9 | Electric Pumping Equipment | 311 | 450 | 473 | 489 | 505 | 530 | 527 | 529 | 543 | 572 | 604 | 611 | 620 | 619 | 639 | 628 |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | Water Treatment Plant | | | | | | | | | | | | | | | | |
| 15 | Structures & Improvements | 304 | 271 | 278 | 283 | 290 | 307 | 318 | 324 | 328 | 355 | 370 | 375 | 382 | 393 | 407 | 417 |
| 16 | Large Treatment Plant Equip. | 320 | 319 | 332 | 342 | 355 | 363 | 375 | 385 | 391 | 408 | 416 | 417 | 433 | 434 | 448 | 464 |
| 17 | Small Treatment Plant Equip. | 320 | 331 | 344 | 356 | 367 | 377 | 389 | 398 | 404 | 426 | 440 | 443 | 460 | 458 | 478 | 498 |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | Transmission Plant | | | | | | | | | | | | | | | | |
| 23 | Steel Reservoirs | 330 | 251 | 255 | 268 | 268 | 270 | 274 | 275 | 276 | 308 | 329 | 338 | 348 | 375 | 494 | 537 |
| 24 | Elevated Steel Tanks | 330 | 268 | 273 | 283 | 288 | 299 | 341 | 429 | 431 | 481 | 524 | 524 | 524 | 596 | 657 | 657 |
| 25 | Concrete Reservoirs | 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | Cast Iron Mains | 331 | 279 | 287 | 290 | 295 | 311 | 322 | 342 | 344 | 353 | 368 | 372 | 401 | 412 | 442 | 446 |
| 28 | Steel Mains | 331 | 294 | 301 | 305 | 313 | 335 | 345 | 354 | 359 | 406 | 461 | 460 | 483 | 493 | 484 | 482 |
| 29 | Concrete Cylinder Mains | 331 | 294 | 299 | 306 | 312 | 335 | 364 | 377 | 376 | 389 | 397 | 402 | 418 | 423 | 423 | 423 |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | | |
| 33 | Distribution Plant | | | | | | | | | | | | | | | | |
| 34 | Mains-Average All Types | 331 | 289 | 296 | 303 | 307 | 317 | 327 | 339 | 342 | 366 | 393 | 395 | 418 | 428 | 461 | 460 |
| 35 | Cast Iron Mains | 331 | 299 | 307 | 311 | 316 | 328 | 338 | 357 | 360 | 372 | 392 | 395 | 423 | 432 | 470 | 473 |
| 36 | Cement-Asbestos Mains | 331 | 293 | 299 | 301 | 305 | 323 | 336 | 356 | 355 | 372 | 388 | 391 | 444 | 451 | 502 | 500 |
| 37 | Steel Mains | 331 | 274 | 278 | 289 | 293 | 296 | 305 | 306 | 308 | 355 | 395 | 396 | 402 | 413 | 434 | 426 |
| 38 | PVC Mains | 331 | 188 | 191 | 191 | 194 | 205 | 215 | 224 | 224 | 236 | 248 | 249 | 291 | 292 | 336 | 331 |
| 39 | Services Installed | 333 | 271 | 276 | 283 | 270 | 272 | 278 | 291 | 295 | 323 | 338 | 342 | 384 | 397 | 413 | 415 |
| 40 | Meters | 334 | 207 | 197 | 197 | 198 | 205 | 206 | 207 | 207 | 207 | 207 | 207 | 235 | 248 | 260 | 262 |
| 41 | Meter Installations | 334 | 302 | 307 | 314 | 316 | 324 | 332 | 340 | 347 | 367 | 373 | 383 | 401 | 419 | 432 | 451 |
| 42 | Hydrants Installed | 335 | 381 | 442 | 461 | 477 | 493 | 515 | 527 | 530 | 550 | 559 | 560 | 572 | 609 | 623 | 629 |
| 43 | | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | | |
| 45 | Miscellaneous Items | | | | | | | | | | | | | | | | |
| 46 | Flocculating Equipment-Installed | | 547 | 568 | 587 | 605 | 612 | 628 | 642 | 653 | 720 | 762 | 762 | 815 | 815 | 832 | 951 |
| 47 | Clarifier Equipment-Installed | | 494 | 513 | 523 | 527 | 539 | 547 | 563 | 573 | 612 | 654 | 654 | 675 | 675 | 708 | 836 |
| 48 | Filter Gallery Piping-Installed | | 254 | 261 | 268 | 278 | 286 | 295 | 310 | 317 | 337 | 347 | 347 | 371 | 373 | 402 | 404 |
| 49 | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | | |
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| 54 | | | | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | | | | | | |

SOUTH ATLANTIC REGION (1973=100)

| L i n e | CONSTRUCTION AND EQUIPMENT | N A R U C | COST INDEX NUMBERS | | | | | | | | | | | | | |
|------------------|----------------------------------|-----------------------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | | 2013 | | 2014 | |
| | | | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 |
| 1 | Source of Supply Plant | | | | | | | | | | | | | | | |
| 2 | Collecting & Impounding Res. | 305 | 385 | 394 | 394 | 387 | 396 | 400 | 407 | 409 | 413 | 417 | 425 | 425 | 432 | 437 |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | Pumping Plant | | | | | | | | | | | | | | | |
| 8 | Structures & Improvements | 304 | 427 | 456 | 460 | 444 | 452 | 460 | 466 | 483 | 492 | 496 | 514 | 503 | 512 | 524 |
| 9 | Electric Pumping Equipment | 311 | 640 | 666 | 679 | 688 | 707 | 701 | 708 | 760 | 780 | 785 | 800 | 844 | 856 | 900 |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | Water Treatment Plant | | | | | | | | | | | | | | | |
| 15 | Structures & Improvements | 304 | 427 | 456 | 460 | 444 | 452 | 460 | 466 | 483 | 492 | 496 | 514 | 503 | 512 | 524 |
| 16 | Large Treatment Plant Equip. | 320 | 487 | 504 | 533 | 535 | 547 | 554 | 551 | 563 | 581 | 595 | 601 | 610 | 627 | 640 |
| 17 | Small Treatment Plant Equip. | 320 | 531 | 555 | 596 | 599 | 612 | 620 | 626 | 634 | 664 | 681 | 689 | 706 | 728 | 744 |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | Transmission Plant | | | | | | | | | | | | | | | |
| 23 | Steel Reservoirs | 330 | 537 | 722 | 722 | 722 | 722 | 722 | 771 | 771 | 795 | 810 | 778 | 780 | 715 | 742 |
| 24 | Elevated Steel Tanks | 330 | 680 | 866 | 866 | 866 | 866 | 867 | 1079 | 1079 | 1059 | 1082 | 1089 | 1099 | 1131 | 1131 |
| 25 | Concrete Reservoirs | 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | | | | | | | | | | | | | | | | |
| 27 | Cast Iron Mains | 331 | 464 | 491 | 533 | 531 | 553 | 556 | 551 | 563 | 589 | 627 | 652 | 644 | 673 | 709 |
| 28 | Steel Mains | 331 | 487 | 550 | 545 | 526 | 531 | 549 | 577 | 597 | 649 | 645 | 664 | 643 | 628 | 643 |
| 29 | Concrete Cylinder Mains | 331 | 419 | 426 | 450 | 450 | 436 | 439 | 450 | 462 | 467 | 470 | 493 | 479 | 477 | 490 |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | |
| 33 | Distribution Plant | | | | | | | | | | | | | | | |
| 34 | Mains-Average All Types | 331 | 475 | 519 | 554 | 538 | 547 | 553 | 552 | 565 | 593 | 622 | 630 | 627 | 658 | 675 |
| 35 | Cast Iron Mains | 331 | 491 | 522 | 570 | 569 | 593 | 595 | 588 | 596 | 622 | 673 | 690 | 690 | 729 | 759 |
| 36 | Cement-Asbestos Mains | 331 | 512 | 523 | 572 | 560 | 517 | 528 | 530 | 556 | 587 | 593 | 584 | 579 | 574 | 591 |
| 37 | Steel Mains | 331 | 437 | 512 | 523 | 482 | 486 | 498 | 504 | 519 | 549 | 553 | 553 | 545 | 576 | 576 |
| 38 | PVC Mains | 331 | 337 | 339 | 381 | 369 | 311 | 321 | 324 | 345 | 368 | 369 | 347 | 347 | 337 | 338 |
| 39 | Services Installed | 333 | 416 | 426 | 439 | 437 | 444 | 450 | 453 | 459 | 486 | 491 | 494 | 491 | 492 | 479 |
| 40 | Meters | 334 | 373 | 373 | 373 | 373 | 374 | 376 | 379 | 379 | 379 | 379 | 380 | 381 | 381 | 381 |
| 41 | Meter Installations | 334 | 453 | 455 | 477 | 478 | 484 | 487 | 488 | 490 | 530 | 559 | 562 | 561 | 570 | 567 |
| 42 | Hydrants Installed | 335 | 642 | 648 | 672 | 671 | 677 | 656 | 657 | 658 | 687 | 689 | 705 | 715 | 738 | 785 |
| 43 | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | |
| 45 | Miscellaneous Items | | | | | | | | | | | | | | | |
| 46 | Flocculating Equipment-Installed | | 1151 | 1345 | 1619 | 1619 | 1672 | 1720 | 1795 | 1821 | 1876 | 1949 | 1954 | 1992 | 2015 | 2054 |
| 47 | Clarifier Equipment-Installed | | 850 | 873 | 917 | 917 | 910 | 920 | 967 | 971 | 984 | 1008 | 1013 | 1042 | 1056 | 1064 |
| 48 | Filter Gallery Piping-Installed | | 415 | 430 | 463 | 464 | 483 | 484 | 479 | 479 | 506 | 532 | 539 | 542 | 577 | 592 |
| 49 | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | |
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| 56 | | | | | | | | | | | | | | | | |

COST TRENDS OF WATER UTILITY CONSTRUCTION

SOUTH ATLANTIC REGION (1973=100)

| L i n e | CONSTRUCTION AND EQUIPMENT | N A R U C | COST INDEX NUMBERS | | | | | | | | | | | | | |
|------------------|----------------------------------|-----------------------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | 2015 | | 2016 | | 2017 | | 2018 | | 2019 | | 2020 | | 2021 | |
| | | | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 |
| 1 | Source of Supply Plant | | | | | | | | | | | | | | | |
| 2 | Collecting & Impounding Res. | 305 | 439 | 437 | 438 | 440 | 448 | 454 | 467 | 475 | 488 | 486 | 494 | 497 | 513 | 565 |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | Pumping Plant | | | | | | | | | | | | | | | |
| 8 | Structures & Improvements | 304 | 531 | 536 | 541 | 544 | 557 | 556 | 570 | 587 | 602 | 599 | 604 | 616 | 643 | 699 |
| 9 | Electric Pumping Equipment | 311 | 928 | 931 | 990 | 1013 | 1052 | 1135 | 1146 | 1216 | 1261 | 1346 | 1374 | 1454 | 1436 | 1465 |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | Water Treatment Plant | | | | | | | | | | | | | | | |
| 15 | Structures & Improvements | 304 | 531 | 536 | 541 | 544 | 557 | 556 | 570 | 587 | 602 | 599 | 604 | 616 | 643 | 699 |
| 16 | Large Treatment Plant Equip. | 320 | 644 | 648 | 661 | 664 | 682 | 694 | 701 | 717 | 741 | 752 | 792 | 812 | 841 | 870 |
| 17 | Small Treatment Plant Equip. | 320 | 755 | 766 | 782 | 786 | 805 | 823 | 832 | 857 | 886 | 904 | 952 | 976 | 1013 | 1051 |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | Transmission Plant | | | | | | | | | | | | | | | |
| 23 | Steel Reservoirs | 330 | 742 | 742 | 742 | 774 | 784 | 784 | 801 | 820 | 832 | 832 | 836 | 836 | 836 | 990 |
| 24 | Elevated Steel Tanks | 330 | 1131 | 1131 | 1131 | 1143 | 1161 | 1161 | 1181 | 1200 | 1244 | 1244 | 1244 | 1244 | 1244 | 1473 |
| 25 | Concrete Reservoirs | 330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 26 | | | | | | | | | | | | | | | | |
| 27 | Cast Iron Mains | 331 | 690 | 702 | 709 | 713 | 752 | 743 | 763 | 779 | 801 | 818 | 852 | 864 | 898 | 952 |
| 28 | Steel Mains | 331 | 642 | 646 | 625 | 632 | 653 | 654 | 658 | 695 | 721 | 714 | 759 | 766 | 779 | 898 |
| 29 | Concrete Cylinder Mains | 331 | 500 | 515 | 527 | 529 | 540 | 529 | 554 | 561 | 576 | 579 | 579 | 595 | 601 | 621 |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | |
| 33 | Distribution Plant | | | | | | | | | | | | | | | |
| 34 | Mains-Average All Types | 331 | 664 | 667 | 669 | 672 | 705 | 703 | 719 | 732 | 752 | 762 | 799 | 801 | 835 | 870 |
| 35 | Cast Iron Mains | 331 | 739 | 745 | 748 | 752 | 800 | 795 | 821 | 835 | 856 | 873 | 917 | 918 | 949 | 986 |
| 36 | Cement-Asbestos Mains | 331 | 586 | 593 | 598 | 600 | 609 | 604 | 612 | 620 | 634 | 643 | 676 | 688 | 749 | 782 |
| 37 | Steel Mains | 331 | 574 | 571 | 570 | 574 | 592 | 596 | 597 | 611 | 631 | 633 | 659 | 659 | 688 | 721 |
| 38 | PVC Mains | 331 | 338 | 339 | 338 | 338 | 337 | 337 | 343 | 343 | 347 | 347 | 369 | 369 | 422 | 423 |
| 39 | Services Installed | 333 | 482 | 483 | 483 | 484 | 494 | 500 | 504 | 509 | 528 | 534 | 578 | 578 | 582 | 601 |
| 40 | Meters | 334 | 400 | 400 | 403 | 403 | 404 | 418 | 434 | 434 | 443 | 443 | 459 | 459 | 485 | 485 |
| 41 | Meter Installations | 334 | 569 | 570 | 573 | 573 | 584 | 599 | 603 | 602 | 617 | 641 | 672 | 681 | 688 | 712 |
| 42 | Hydrants Installed | 335 | 808 | 866 | 908 | 909 | 919 | 920 | 943 | 956 | 984 | 999 | 1053 | 1056 | 1138 | 1177 |
| 43 | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | |
| 45 | Miscellaneous Items | | | | | | | | | | | | | | | |
| 46 | Flocculating Equipment-Installed | 2143 | 2153 | 2166 | 2166 | 2173 | 2188 | 2193 | 2235 | 2340 | 2340 | 2457 | 2469 | 2552 | 2606 | |
| 47 | Clarifier Equipment-Installed | 1083 | 1087 | 1126 | 1168 | 1209 | 1212 | 1260 | 1292 | 1356 | 1356 | 1423 | 1456 | 1554 | 1608 | |
| 48 | Filter Gallery Piping-Installed | 581 | 582 | 586 | 589 | 628 | 628 | 645 | 651 | 670 | 679 | 737 | 736 | 763 | 784 | |
| 49 | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | | | | | |
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| 55 | | | | | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | | | | | |

SOUTH ATLANTIC REGION (1973=100)

| L i n e | CONSTRUCTION AND EQUIPMENT | N A R C | COST INDEX NUMBERS | | | | | | | | | | | | | |
|------------------|----------------------------------|------------------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | 2022 | | 2023 | | 2024 | | 2025 | | 2026 | | 2027 | | 2028 | |
| | | | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 | Jan. 1 | Jul. 1 |
| 1 | Source of Supply Plant | | | | | | | | | | | | | | | |
| 2 | Collecting & Impounding Res. | 305 | 613 | 623 | 605 | 645 | 696 | 712 | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | Pumping Plant | | | | | | | | | | | | | | | |
| 8 | Structures & Improvements | 304 | 771 | 792 | 803 | 834 | 858 | 872 | | | | | | | | |
| 9 | Electric Pumping Equipment | 311 | 1593 | 1787 | 1801 | 1841 | 1983 | 2027 | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | Water Treatment Plant | | | | | | | | | | | | | | | |
| 15 | Structures & Improvements | 304 | 771 | 792 | 803 | 834 | 858 | 872 | | | | | | | | |
| 16 | Large Treatment Plant Equip. | 320 | 924 | 981 | 1047 | 1065 | 1142 | 1158 | | | | | | | | |
| 17 | Small Treatment Plant Equip. | 320 | 1123 | 1200 | 1280 | 1301 | 1403 | 1424 | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | Transmission Plant | | | | | | | | | | | | | | | |
| 23 | Steel Reservoirs | 330 | 1113 | 1218 | 1219 | 1237 | 1232 | 1281 | | | | | | | | |
| 24 | Elevated Steel Tanks | 330 | 1656 | 1813 | 1814 | 1840 | 1833 | 1907 | | | | | | | | |
| 25 | Concrete Reservoirs | 330 | - | - | - | - | - | - | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | Cast Iron Mains | 331 | 1039 | 1112 | 1216 | 1232 | 1357 | 1346 | | | | | | | | |
| 28 | Steel Mains | 331 | 973 | 983 | 1201 | 1217 | 1226 | 1238 | | | | | | | | |
| 29 | Concrete Cylinder Mains | 331 | 661 | 689 | 719 | 752 | 774 | 785 | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | |
| 33 | Distribution Plant | | | | | | | | | | | | | | | |
| 34 | Mains-Average All Types | 331 | 943 | 992 | 1071 | 1076 | 1175 | 1166 | | | | | | | | |
| 35 | Cast Iron Mains | 331 | 1071 | 1144 | 1247 | 1259 | 1423 | 1405 | | | | | | | | |
| 36 | Cement-Asbestos Mains | 331 | 846 | 875 | 1004 | 1018 | 1017 | 1020 | | | | | | | | |
| 37 | Steel Mains | 331 | 778 | 796 | 822 | 813 | 847 | 848 | | | | | | | | |
| 38 | PVC Mains | 331 | 447 | 448 | 540 | 541 | 524 | 525 | | | | | | | | |
| 39 | Services Installed | 333 | 626 | 642 | 696 | 740 | 747 | 752 | | | | | | | | |
| 40 | Meters | 334 | 803 | 826 | 973 | 973 | 1074 | 1074 | | | | | | | | |
| 41 | Meter Installations | 334 | 750 | 759 | 806 | 823 | 835 | 837 | | | | | | | | |
| 42 | Hydrants Installed | 335 | 1225 | 1325 | 1384 | 1385 | 1428 | 1428 | | | | | | | | |
| 43 | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | |
| 45 | Miscellaneous Items | | | | | | | | | | | | | | | |
| 46 | Flocculating Equipment-Installed | | 2845 | 3011 | 3181 | 3209 | 3408 | 3575 | | | | | | | | |
| 47 | Clarifier Equipment-Installed | | 1744 | 1878 | 2041 | 2075 | 2259 | 2296 | | | | | | | | |
| 48 | Filter Gallery Piping-Installed | | 821 | 858 | 927 | 927 | 1026 | 1015 | | | | | | | | |
| 49 | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | | | | | |
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| 56 | | | | | | | | | | | | | | | | |

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2025-00364
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

Witness: John Magner

13. Identify and describe any system improvement projects Kentucky-American has identified within the existing Livingston system, and the timeframe in which Kentucky-American expects the projects will need to be implemented.

Response:

Please see the response to PSC 1-23 for information regarding anticipated capital improvements.

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2025-00364
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

Witness: William A. Lewis

14. Explain whether Kentucky-American plans to hire additional employees to assist with the operation of the Livingston system.

Response:

No, KAWC will not hire additional staff to assist with the operation of the Livingston system. The Livingston system is very small geographically, has relatively few customer connections, and few assets. The Livingston system will be fully incorporated into KAWC's existing Eastern Rockcastle water system and operated by existing KAWC employees.

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2025-00364
COMMISSION STAFF’S FIRST REQUEST FOR INFORMATION

Witness: William A. Lewis

15. Provide Kentucky-American’s most recent annual water loss percentage and identify the reporting period used to calculate that percentage.

Response:

The most recent unaccounted-for-water (UFW) 12-month rolling annual average percentage is 18.20% through the end of October 2025.

| Nov 2024 | Dec 2024 | Jan 2025 | Feb 2025 | Mar 2025 | Apr 2025 | May 2025 | Jun 2025 | Jul 2025 | Aug 2025 | Sep 2025 | Oct 2025 | AVE |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|
| 7.83% | 31.97% | 21.35% | 8.00% | 24.65% | 30.35% | 13.39% | 23.46% | 18.86% | 15.03% | 5.95% | 17.56% | 18.20% |

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2025-00364
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

Witness: William A. Lewis

16. Explain whether current Livingston's Water System's employees (Livingston employees) will be retained.

Response:

The Livingston Water System does not employ dedicated personnel to staff the water system. KAWC will not be hiring any Livingston employees nor will it be hiring additional staff to operate the Livingston water system. Please reference KAW_R_PSCDR1_NUM007 and KAW_R_PSCDR1_NUM014.

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2025-00364
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

Witness: William A. Lewis

17. Explain whether all Livingston employees will maintain their current positions and job duties after the merger is completed.

Response:

No, there are no employees dedicated to the Livingston Water System. Please reference KAW_R_PSCDR1_NUM016.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2025-00364
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION**

Witness: William A. Lewis

18. Describe any efficiencies the merger creates within the Kentucky-American water system.

Response:

KAWC's acquisition of the Livingston Water system will result in the Livingston system being fully incorporated into the existing KAWC Eastern Rockcastle water system. This will result in the following efficiencies:

- The Livingston Public Water Supply Identification number will be eliminated, and the system will be incorporated into the existing KAWC Eastern Rockcastle water system, PWSID# KY1020288. This will eliminate Livingston as a separate Kentucky water utility regulated by the Kentucky Division of Water.
- The incorporation of the Livingston water system into the existing KAWC Eastern Rockcastle system will not require additional staffing.
- Currently, KAWC purchases water from the Livingston water system to serve its Sand Hill area of the Eastern Rockcastle water system. In turn, Livingston purchases water from the Wood Creek Water District. This acquisition will eliminate Livingston as a "middle party" in the water supply arrangement necessary to serve KAWC's Sand Hill customers. Upon closing, the Eastern Rockcastle water system, inclusive of the former Livingston water system, will purchase water supply directly from the Wood Creek Water District.
- KAWC will acquire the existing Livingston 128,000 gallon water storage tank upon closing. The water storage tank will be incorporated into existing KAWC Eastern Rockcastle operations to provide additional water storage for KAWC's existing Sand Hill area customers in addition to the Livingston water system customers in the same area.

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2025-00364
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION**

Witness: Nikole Bowen

19. Provide a summary of the proposed Kentucky-American tariff changes, should the merger be approved, in a redline form in the context of the current tariff.

Response:

Please see attached KAW_R_PSCDR1_NUM019_Attachment.

INDEXKENTUCKY-AMERICAN WATER COMPANY RULES AND REGULATIONS FOR WATER SERVICE

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| 1. | Definitions Applicable to Rules & Regulations | 3 | |
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| 3. | Billing, Abatements & Refunds | 7 | |
| 4. | Disconnecting & Reconnecting Service | 9 | |
| 5. | Complaints | 11 | |
| 6. | Meters Testing & Accuracy | 12 | |
| 7. | Protection of Public Water System | 13 | |
| 8. | Rights & Responsibilities | 15 | |
| 9. | Customer & Company Service Lines | 17 | |
| 10. | Water Main Extensions | 18 | |
| 11. | Public & Private Fire Service Lines | 25 | |
| 12. | Service Classifications & Tariffs/Rate/Fees | 29 | |
| Service Classification No. 1 - | Customers in the entire service Territory Of Kentucky American Water Company | 29 | |
| | <u>Service Classification No. 2.1 - Customers previously served by Livingston Municipal Water Works</u> | <u>30.1</u> | <u>N</u> <u>N</u> |
| Service Classification No. 3 - | Private Fire Service | 31 | |
| | Tapping Fees | 32 | |
| Service Classification No. 4 - | Public and Private Fire Hydrants | 33 | |
| Service Classification No. 5 - | Building Construction Purposes | 35 | |

ISSUED: December 10, 2025
EFFECTIVE: March 1, 2026

Approved:

ISSUED BY: /s/ Robert Burton
Robert Burton
President
2300 Richmond Road, Lexington, KY 40502

CLASSIFICATION OF SERVICE
SERVICE CLASSIFICATION NO. 2.1

N
N

Applicability

Applicable to all customers previously served by Livingston Municipal Water Works.

N
N

Meter Rates

The following shall be the rates for consumption:

N
N

Inside City Limits

| | |
|---------------------------------|----------------------------------|
| <u>First 2,000 gallons</u> | <u>\$29.74 minimum bill</u> |
| <u>2,001 to 999,999 gallons</u> | <u>\$11.11 per 1,000 gallons</u> |

N
N
N

Outside City Limits

| | |
|---------------------------------|----------------------------------|
| <u>First 2,000 gallons</u> | <u>\$31.42 minimum bill</u> |
| <u>2,001 to 999,999 gallons</u> | <u>\$11.11 per 1,000 gallons</u> |

N
N
N

ISSUED: December 10, 2025
EFFECTIVE: March 1, 2026

Approved:

ISSUED BY: /s/ Robert Burton
Robert Burton
President
2300 Richmond Road, Lexington, KY 40502

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2025-00364
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

Witness: Nikole Bowen

20. Explain whether Kentucky-American plans to recover the net book value of Livingston's transferred assets from its ratepayers in a future proceeding, or if Kentucky-American plans to recover the full purchase price from its customers in a future proceeding.

Response:

Kentucky American intends to seek recovery of the full purchase price of \$400,000 dollars in a future proceeding, which is less than its assessment of the system's OCLD (original cost less depreciation) of \$1.4 million dollars.

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2025-00364
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

Witness: William A. Lewis

21. Refer to the Joint Application, page 2, paragraph 4. It states that Kentucky-American will “serve Livingston’s customers in accordance with KAW’s existing water tariff on file except that the rates to be charged would remain the same as set forth in Exhibit 2 to this Application.”
- a. Confirm the current rates charged to Livingston customers will remain the same upon closing of the Agreement. If not confirmed, explain the response.
 - b. Describe the time frame in which Kentucky-American expects the current Livingston customers to fall under Kentucky-American’s base rates.

Response:

- a. Confirmed.
- b. KAWC will seek approval to charge Livingston customers KAWC’s base rates in KAWC’s next general rate case, the timing of which is unknown at this point.

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2025-00364
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

Witness: William A. Lewis

22. Refer to the “128,000 gallon storage tank” mentioned in Recital A.
- a. Confirm Livingston possesses fee simple title to the land beneath this tank. If not confirmed, explain if the agreement is the result of an easement.
 - b. If on an easement, provide a copy of the easement agreement or, in the alternative, provide a list of restrictions in the easement agreement.

Response:

- a. Confirmed. The City of Livingston possesses a quit-claim deed for the water tank property, a copy of which is attached as KAW_R_PSCDR1_NUM022_120825_Attachment.
- b. Not applicable.

NO TAX

THIS QUIT-CLAIM DEED made and entered into this the 10th day of August, 2007, by and between Jason Mahaffey, single, of P.O. Box 254, Livingston, Kentucky 40445, party of the first part and Grantor herein, and City of Livingston, by J. C. Griffin, Mayor, of P.O. Box 654, Livingston, Kentucky 40445, party of the second part and Grantee herein.

WITNESSETH: That for and in consideration of the parties herein establishing an agreed boundary line between real property of both parties, the receipt of which is hereby acknowledged, Grantor does now and by these presents release, remise and quitclaim unto Grantee, City of Livingston, by J. C. Griffin, Mayor, their successors and assigns forever, all of his interest in and to the following described real property located in Rockcastle County, Kentucky, same being more particularly bounded and described as follows:

Beginning at a stake at the existing Water Tank Road and the corner of Ernest Sturgill and George Pridemore; thence in a northerly direction a distance of approximately 80 feet to an iron pin; thence going on in a northeasterly direction a distance of approximately 80 feet to an iron pin at the David and Jason Mahaffey property line; thence along the David and Jason Mahaffey property line in a southerly direction a distance of approximately 300 feet to an iron pin at the George Pridemore property line; thence in a westerly direction a distance of 175 feet to the point of beginning at an iron pin at the Water Tank Road.

Grantor obtained his interest in and to the above described portion of real property by deed dated MAY 5, 2001, executed by Roy MARCUS Mullins ^{ET UX}, same being of record in the Rockcastle County Court Clerk's Office in Deed Book 184, Pages 315-317.

The Grantee, by this instrument, agrees this to be the real property line between the parties and makes no claim to adjoining real property of Grantor.

TO HAVE AND TO HOLD the same, with all the appurtenances thereto belonging to Grantee, City of Livingston, by J. C. Griffin, Mayor, their successors and assigns forever.

The parties hereto state that the consideration stated in this deed, same being the parties herein establishing an agreed boundary line between real property of both parties, is the true consideration for the property herein conveyed. The estimated consideration of said real property is \$ 1,000. We further certify our understanding that falsification of the stated consideration or sale price of the property is a Class D felony, subject to one to five years imprisonment and fines up to \$10,000.00. The Grantee joins in this deed for the sole purpose of certifying the consideration pursuant to KRS Chapter 382.

IN TESTIMONY WHEREOF, witness the signatures of the parties hereto this the day and year first above written.

Jason Mahaffey
Jason Mahaffey, single, Grantor

J.C. Griffin
City of Livingston, by J. C. Griffin, Mayor,
Grantee

STATE OF KENTUCKY
COUNTY OF ROCKCASTLE

The foregoing instrument was subscribed and sworn to by the person who appeared before me, and acknowledged before me by Jason Mahaffey, single, Grantor, who being personally known or properly identified to me, executed the said instrument, this the 10th day of August, 2007.

Jammi Martin
Notary Public, State at Large, Kentucky
My commission expires: 1-25-10

STATE OF KENTUCKY
COUNTY OF ROCKCASTLE

The foregoing instrument was subscribed and sworn to by the person who appeared before me, and acknowledged before me by City of Livingston, by J. C. Griffin, Mayor, Grantee, who being personally known or properly identified to me, executed the said instrument, this the 10th day of August, 2007.

Jammi Martin

Notary Public, State at Large, Kentucky

My commission expires: 1-25-10

THIS INSTRUMENT PREPARED BY:

William D. Gregory

WILLIAM D. GREGORY

Attorney at Law

240 East Main Street

P.O. Drawer 220

Mt. Vernon, KY 40456

Tel.: (606) 256-4440

DC: SONYA MCGUIRE



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Filed on: 2/12/2008 2:25:07 PM

Book: DEED Number: 217

Pages: 324 - 326

Norma Lois Houk, Rockcastle County

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STATE OF KENTUCKY
COUNTY OF ROCK CASTLE

I, NORMA HOUK, Clerk of Rock Castle County, hereby
certify that the foregoing Deed

From Jason Mahaffey

To City of Livingston

was this day with acknowledgement

and my certificate

was recorded in my office

On and under my hand

this 13 day of August 2007

Norma Houk

Sharon M. Ferson D.C.

filed 8-10-07

2:10 PM

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2025-00364
COMMISSION STAFF’S FIRST REQUEST FOR INFORMATION**

Witness: John Magner

23. Refer to the Agreement Section 6.10, where Kentucky-American agrees to invest “no less than \$600,000” in the first five years. Provide a breakdown of the calculation, work papers, or engineering assessment used to arrive at the \$600,000 figure.

Response:

The table below provides the breakdown of the \$600,000 of capital investment.

| Item/Project | Description | Capital Expenditures | | | | | |
|---------------------------|--|----------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| | | 2026 | 2027 | 2028 | 2029 | 2030 | TOTAL |
| Mains - Replaced | Planned replacements of aging/leaking PVC water mains. Specific projects will be identified after KAW assumes operation of the system. | \$125,000 | \$65,000 | \$65,000 | \$65,000 | \$65,000 | \$385,000 |
| Mains - Unscheduled | Main break repairs. | \$20,000 | \$20,000 | \$20,000 | \$20,000 | \$20,000 | \$100,000 |
| Meters - Replaced | Replacement of all customer meters. The existing meters have exceeded their useful life and must be read manually. | \$75,000 | \$0 | \$0 | \$0 | \$0 | \$75,000 |
| SCADA Equipment & Systems | Install SCADA at Livingston's existing storage tank site to allow for remote tank level monitoring. | \$40,000 | \$0 | \$0 | \$0 | \$0 | \$40,000 |
| TOTAL | | \$260,000 | \$85,000 | \$85,000 | \$85,000 | \$85,000 | \$600,000 |