

**CITY OF META, MISSOURI  
BOARD OF ALDERMAN**

**Ordinance Number 467**

**Bill No. 2013-1**

**AN ORDINANCE REPEALING CERTAIN EXISTING ORDINANCES AND CODES, AND ESTABLISHING A NEW CHAPTER 17, REGULATING THE MUNICIPAL WATER SYSTEM.**

Section 1. Chapter 17 of the Meta Code of Ordinances has been amended on numerous occasions, and currently contains certain regulations and provisions which no longer accurately reflect the operations of the Municipal Water System.

Section 2. It is in the best interests of the residents of the City of Meta, and is beneficial to their health, safety and welfare for a revised water code detailing the operation, rules and regulations of the Municipal Water System to be enacted. Said revised code is attached hereto as Exhibit A, and is incorporated by reference as if fully set forth and recited herein.

Section 3. Ordinance Numbers **169, 253, 268, 269, 292, 313, 400, 417, 449** including the existing Chapter 17 and all amendments thereto, are hereby repealed in their entirety.

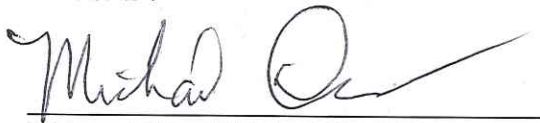
Section 4. The Board of Alderman does hereby adopt such version of Chapter 17 as is attached hereto as Exhibit A. All users of the Meta Municipal Water System shall be bound by the terms of the attached Exhibit A until such further action of the Board of Alderman as shall cause said Chapter 17 to be revised, deleted, amended or replaced.

Section 5. This ordinance shall be in full force and effect upon its Second Reading and Final Passage by the Meta City Council.

FIRST READING held this 9<sup>th</sup> day of January, 2013.

SECOND READING AND FINAL PASSAGE held this 9<sup>th</sup> day of January, 2013.

PASSED:

  
\_\_\_\_\_  
Mayor, City of Meta, Missouri

ATTEST:

  
\_\_\_\_\_  
City Clerk

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## CHAPTER 17 MUNICIPAL WATER SYSTEM

### Article I. Administration

#### 17.120. Definitions and abbreviations

Unless the context specifically indicates otherwise, the meaning of terms used in this ordinance shall be as follows:

Community Water System: shall mean a public water system which serves at least fifteen (15) service connections or regularly serves at least twenty-five (25) residents on a year round basis.

Cross-connection: shall mean any actual or potential connection or structural arrangement between a public water system and any other source or system through which it is possible to introduce into any part of the public water system any used water, industrial fluid, gas or substance other than the intended potable water with which the system is supplied. By-pass arrangements, jumper connections, removable sections, swivel or change-over devices and any other temporary or permanent devices through which or because of which, backflow can or may occur are considered cross-connections.

Hearing Board: shall mean the Board of Aldermen, or such Board appointed according to provision or Article.

Person: shall mean any individual, firm, company, association, society, corporation, or group.

pH: shall mean the negative logarithm of the concentration of hydrogen ions in an aqueous solution.

Public Water System: shall mean a system for provision to the public of piped water for human consumption, if the system has at least fifteen (15) service connections or regularly serves at least twenty-five (25) individuals daily at least sixty days out of the year. The system includes any collection, treatment, storage or distribution facilities used in connection with the system. A public water system is either a community water system or a non-community water system.

Chief Water Operator: shall mean the Director of Water Works, who is in responsible and in charge of the operation and maintenance of the public water supply serving the City.

Sanitary Sewer: shall mean a sewer which carries sewage and to which storm, surface and groundwater are not intentionally admitted.

Service Connection: shall mean each individual connection of a user to a water main or pipe for the purpose of conveying water to a point of use.



Service Line: shall mean any water line or pipe connected to a public water supply's distribution main or pipe that conveys water to a point of use. Each service line is owned and maintained by the customer at that service connection and such line being at the customer's side of the meter.

Shall: is mandatory; "May" is permissive.

Water Distribution System: shall mean all piping, conduits, valves, hydrants, storage facilities, pumps and other appurtenances, excluding service connections, which serve to deliver water from a water treatment plant or source to the public.

Water Main: shall mean any water main line or pipe which conveys water to a point of use from a water treatment plant, source, or water storage facility. Water mains are owned and maintained by the City.

Water Meter: shall mean a water volume measuring and recording device, furnished and/or installed by the City or furnished and/or installed by a user and approved by the City. Each individual service connection shall have a water meter.

Water Treatment Plant: shall mean a facility which uses specific processes such as sedimentation, coagulation, filtration, disinfection, aeration, oxidation, ion exchange, fluoridation, or other processes which serve to add components or to alter or remove contaminants from a water supply source.

#### **17.125. Release of Water**

In the event that any water from the City system is released through a water line connected to the City System, which said water line is not owned by the City, the person releasing such water shall reimburse the City for the water released at the current rate. A release of water shall include, but not be limited to, flushing or testing of lines and line breaks.

#### **17.130. Measurement of water consumption**

- A. The metered water consumption records of the City Water Company, or its successor, as shown by its monthly water bills, shall be used to determine the amount of water consumption of all residential, commercial or industrial establishments and governmental establishments supplied with water by the City Water Company, or its successor, for the purpose of computing water service charges under the provisions of this division.
- B. All residential, commercial or industrial, and governmental establishments supplied with water from sources other than the City Water Company, or its successor, shall furnish evidence satisfactory to the City, of the monthly quantity of water consumption by such establishments from such other sources and in such cases the monthly sewer service charges shall be based upon such evidence; otherwise the City shall estimate the monthly water consumption of such establishments, and such computation shall constitute the basis for the monthly sewer service charge for such establishments

## **Article II. Construction and Design**

### **17.135. Construction of Water Mains**

- A. All water lines which connect to the City lines or to City facilities shall be constructed according to the specifications adopted by the Board of Aldermen of the City, or if none have been adopted according to the specifications as may be adopted required by the Chief Water Operator, as amended from time to time.
- B. Installation of all water lines which connect to City lines or to City facilities shall be done under the supervision of the Chief Water Operator, his designated representative, or an inspector selected by the City. All costs of such inspection shall be born by the developer or land owner. The developer or land owner shall notify the designated inspector 24 hours in advance of construction being commenced. Prior to construction the developer or land owner will provide the inspector with a completed copy of the plans and specifications of the lines.
- C. Tracer line shall be installed according to specifications set forth by the Chief Water Operator on all new water lines. Tracer line shall be installed on all existing water lines whenever they are exposed for maintenance, repair or upgrading.
- D. Before any water line shall be accepted by the City, the developer or land owner shall prepare deeds granting an easement to the City or in the alternative provide a plat with language dedicating easements to the City signed by the developer.
- E. All water main installation shall meet the requirements of the following acceptance test:

#### **Tapping**

All tapping of existing City mains shall be performed under the supervision of the Chief Water Operator. Notify the City at least 24 hrs in advance.

#### **Disinfection**

During construction calcium hypochlorite granules shall be placed at the upstream end of the first section of pipe, at the up stream end of each branch main and at 500 ft intervals.



Pipe Diameter Inches	Calcium Hypochlorite granules oz. *
4	0.5
6	1.0
8	2.0
12	4.0

\* Concentration of chlorine residual shall not be less than 25 mg/L

#### Filling and Contact

When installation has been completed the main shall be filled with water at a rate such that water within the main will flow at a velocity no greater than 1 ft/s. Precautions shall be taken to assure all air pockets are eliminated. This water shall remain in the pipe for at least 24 hrs. Valves shall be positioned so that the strong chlorine solution in the treated main will not flow into water mains in active service. Hydrant valves shall be opened to allow for chlorine solution to enter and remain.

#### Pressure

All newly laid pipe or any valve section thereof shall be subject to a hydrostatic pressure of 150-200 psi (approximately 150% maximum operating pressure) for a period of 1hr.

#### Sampling

After all testing and final flushing and before the main can be placed into service, a sample or samples shall be collected from the end of the line and shall be tested for bacteriological quality in accordance with Standard Methods for the Examination of water and wastewater. At least one sample shall be collected from the new main and one from each branch. Results will be sent to the City.

Samples for bacteriological analysis shall be collected in sterile bottles treated with sodium thiosulfate.

Before any water line shall be accepted by the City, the developer or land owner shall provide a written warranty to the City, in a form acceptable to the City, warranting the line and its installation against defects of workmanship or materials for three years after the date of acceptance by the City.

### **17.140. Lead Ban General Policy**

A. Purpose. The purpose of the ordinance is:

1. To ban the use of lead materials in the public drinking water system and private plumbing connected to the public drinking water system; and
2. To protect city residents from lead contamination in the city's public drinking water system and their own private plumbing systems.

B. Application. This ordinance shall apply to all premises served by the public drinking water system and their own private plumbing systems.

C. Policy. The water purveyor will reasonably interpret this Ordinance. It is the purveyors' intent to ban the use of lead based material in the construction or modification of the city's drinking water system or private plumbing connected to the city system. The cooperation of all consumers is required to implement to lead ban.

If, in the judgment of the water purveyor or his authorized representative, lead base materials have been used in new construction or modifications after January 1, 1989, due notice shall be given to the consumer. In the event the account is in the name of a tenant, the tenant shall be given notice also. The consumer shall immediately comply by having the lead base materials removed from the plumbing system and replaced with lead free material. If the lead base materials are not removed from the plumbing system within seven (7) days of the date of the notice, the water purveyor will have the right to discontinue water service to the premises and access a \$100 fine on the owner of the property, or his representative. The owner will pay any fees assessed.

#### **17.145. Definitions.**

A. The following definitions shall apply in the interpretation and enforcement of this ordinance.

1. "Consumer" means the owner (or person in control of any premises in the event the property is the estate of a deceased person) supplied by or in any manner connected to a public water system;
2. "Lead base materials" means any material containing lead in excess of the quantities specified in Section 14.225 (A) (B);
3. "Lead free" means:

(A) When used with respect to solder and flux, refers to solders and flux containing not more than 0.2 percent (0.2%) lead; and

(B) When used with respect to pipes and pipe fittings, refers to pipes and pipefitting containing not more than eight percent (8.0%) lead.

4. "Public drinking water system" means any publicly or privately owned water system supplying water to the general public which is satisfactory for drinking, culinary and domestic purposes and meets the requirements of the Missouri Department of Natural Resources; and
5. "Water purveyor" means the owner, operator, or individual in responsible charge of a Public Water System.



#### **17.150. Lead Banned from Drinking Water Plumbing**

- A. No water service connection shall be installed or maintained to any premises where lead base materials were used in new construction or modifications of the drinking water plumbing after August, 2012.
- B. If a premises is found to be in violation of Section 17.230A, water service shall be discontinued until such time that the drinking water plumbing is lead free.

### **Article III. Connections**

#### **14.155. Connection to water system required**

- A. The owner of all houses, buildings, or properties used for human employment, recreation, residence or other purposes, situated within the City and abutting on any street, alley, or right-of-way in which there is now located or may in the future be located access to a public water system within 100 feet of the property line, is hereby required to connect to such facilities in accordance with the provisions of this ordinance, within sixty (60) days after date of official notice to do so. Should any existing structure be serviced by an existing private well, said structure shall not need to comply with this section.
- B. Before commencement of construction of a privately owned public water system in the city's jurisdiction, the owner shall first obtain a written permit signed by the Chief Water Operator. The application for such permit shall be made on a form furnished by the City, which the applicant shall supplement by any plans, specifications, and other information as are deemed necessary by the Chief Water Operator. A permit and inspection fee of two hundred dollars shall be paid to the City at the time the application is filed.
- C. When a public water system becomes available, customers that connect must physically disconnect from the existing private system (well), in accordance with the city's cross-connection prevention ordinance. The well shall then be properly plugged in accordance with guidelines established by the Missouri Department of Natural Resources Division of Geology and Land Survey (DGLS) and outlined in state regulation 10 CSR 23 – 3.110 as amended, unless the owner wants to keep it functional for uses other than providing drinking water. A well may only be kept if it remains physically disconnected from the public water supply's distribution system, has a functional pump, is connected to an electrical service, and is pumped at least once in a twelve month period. Upon connecting to the public water system, the appropriate DNR Regional Office shall be notified, in writing, that the connection(s) have been completed.
- D. No unauthorized person shall uncover, make any connections with or opening into, use, alter, or disturb any public water system or appurtenance thereof



without first obtaining a written permit from the Public Works Director.

- E. All costs and expenses incident to the installation of the service line and connection to the public water system shall be borne by the owner. The owner shall indemnify the City from any loss or damage that may directly or indirectly be occasioned by the installation of the water service.
- F. A separate and independent service connection shall be provided for every building.
- G. The size, alignment, material used in the construction of new or the replacement of the existing public water system, and the methods to be used in excavating, placing of the pipe, jointing, testing and backfilling the trench, shall all conform to the requirements of the most recent edition of the Missouri Department of Natural Resources (MDNR), Public Drinking Water Program, Design Guide for Community Public Water Supplies. A Permit to Construct, issued by MDNR, will be received prior to construction, alteration or extension of the water system.

#### **17.160. Inspections**

- A. The applicant for a public water system connection permit shall notify the Chief Water Operator when service line is ready for inspection and connection to the water system. The connection shall be made under the supervision of the Superintendent or his representative.
- B. All excavations for public water system improvements, replacements or repairs shall be adequately guarded with barricades and lights so as to protect the public from hazard. Streets, sidewalks, parkways, and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the City.
- C. No unauthorized person shall maliciously, willfully, or negligently break, damage, destroy, uncover, deface, or tamper with any structure, appurtenance, or equipment which is part of the public water system. Any person violating this provision shall be subject to immediate arrest under charge of disorderly conduct.
- D. The Chief Water Operator and other duly authorized employees of the City bearing proper credentials and identification shall be permitted to enter all properties for the purposes of inspection, observation, measurement, sampling, and testing in accordance with the provisions of this ordinance.

#### **17.165. Violations**

- A. While performing the necessary work on private properties referred to above, the Public Works Director or duly authorized employees of the City shall observe all safety rules applicable to the premises established by the company and the company shall be held harmless for injury or death to the City

employees and the City shall indemnify the company against loss or damage to its property by City employees and against liability claims and demands for personal injury or property damage asserted against the company and growing out of the gauging and sampling operation, except as such may be caused by negligence or failure of the company to maintain safe conditions.

- B. The Public Works Director and other duly authorized employees of the City bearing proper credentials and identification shall be permitted to enter all private properties through which the City holds a duly negotiated easement for the purposes of, but not limited to, inspection, observation, measurement, sampling, repair, and maintenance of any portion of the public water system lying within said easement. All entry and subsequent work, if any, on said easement, shall be done in full accordance with the terms of the duly negotiated easement pertaining to the private property involved.
- C. Any person found to be violating any provision of this ordinance except section B, shall be served by the City with written notice stating the nature of the violation and providing a reasonable time limit for the satisfactory correction thereof. The offender shall, within the period of time stated in such notice, permanently cease all violations.
- D. Any person who shall continue any violation beyond the time limit provided for in section B, shall be guilty of a misdemeanor, and on conviction thereof shall be fined in the amount not exceeding five hundred dollars (\$500.00) for each violation. Each 24-hour period in which any such violation shall continue shall be deemed a separate offense. Any person violating any of the provisions of this ordinance shall become liable to the City for any expense, loss, or damage occasioned the City by reason of such violation.

#### **17.170. Connection Fees**

- A. No person shall hook up to or tap in to any City water system without first obtaining a permit from the City.
- B. Any person who connects to the City Water System without the advance permission of the City, will be guilty of an Ordinance Violation and, upon conviction, shall pay a fine of not less than five hundred dollars (\$500.00) in addition to reimbursing the City for the costs of disconnection. Each connection shall constitute a separate offense. If a property owner is connected to the City sewer system in violation of this ordinance, without his knowledge or consent, and that property owner chooses to remain connected, he shall pay all applicable fees for such a connection, however any reimbursement actually paid to the City by the offender, excluding fines, shall be applied, pro rata, to the property owner's fees.

#### **17.175. Account Set-Up Fees**

The Account Set-Up Fees established for all customers shall be \$70.00 per connection.



#### **17.180. Separate connections required.**

Every building shall have a separate and independent water service connection with a public, district, joint district or private water company, when such water service is accessible.

#### **17.185 Responsibility of water service customers**

- A. The following shall be the responsibility of water service customers who are provided water service by the City of Meta with said customers to bear the cost of same:
  - 1. Any necessary replacement of water lines from the customer's side of the water meter to the point of use.
  - 2. Said water line replacement shall include parts, piping, fill, concrete, asphalt, meter tile, and other associated parts and labor needed to accomplish the replacement of any existing service line.
- B. All work done in relation to water service shall be in accordance with all applicable ordinances, laws, and guidelines set forth by any local, State, or Federal government agency to include but not limited to the Missouri Department of Natural Resources and the Meta Water Department.
- C. The City will provide labor and materials to make repairs to the water lines from the service connection from the main to the water meter or five feet inside of the property line, whichever is closest to the main. The City's responsibility will include the meter and the meter pit as well if needed. The City reserves the right to relocate water meters at any time.
- D. The City will maintain the main lines of the City of Meta water system.

#### **17.190. Cross Connection Control-General Policy**

- A. Purpose. The purpose of this ordinance is:
  - 1. To protect the public potable water supply from contamination or pollution by containing within the consumer's internal distribution system or private water system contaminants or pollutants which could backflow through the service connection into the public potable water supply system.
  - 2. To promote the elimination, containment, isolation, or control of existing cross connections, actual or potential, between the public or consumer's potable water system and non-potable water systems, plumbing fixtures, and industrial-process systems.

3. To provide for the maintenance of a continuing program of cross connection control which will systematically and effectively prevent the contamination or pollution of all potable water systems.
- B. Application. This ordinance shall apply to all premises served by the public potable water system of the City of Meta.
- C. Policy. This ordinance will be reasonably interpreted by the water purveyor. It is the water purveyor's intent to recognize the varying degrees of hazard and to apply the principle that the degree of protection shall be commensurate with the degree of hazard. The water purveyor shall be primarily responsible for protection of the public potable water distribution system from contamination or pollution due to backflow or contaminants or pollutants through the water service connection. The cooperation of all consumers is required to implement and maintain the program to control cross connections. The water purveyor and consumer are jointly responsible for preventing contamination of the water system.

If, in the judgment of the water purveyor or his authorized representative, cross connection protection is required through either piping modification or installation of an approved backflow prevention device, due notice shall be given to the consumer. The consumer shall immediately comply by providing the required protection at his own expense; and failure, refusal, or inability on the part of the consumer to provide such protection shall constitute grounds for discontinuing water service to the premises until such protection has been provided.

## Section II. Definitions

- a. The definitions listed in Appendix A shall apply in the interpretation and enforcement of this ordinance.

## Section III. Cross Connections Prohibited

- a. No water service connection shall be installed or maintained to any premises where actual or potential cross connections to the public potable or consumer's water system may exist unless such actual or potential cross connections are abated or controlled to the satisfaction of the water purveyor and as required by the laws and regulations of the Missouri Department of Natural Resources.
- b. No connection shall be installed or maintained whereby an auxiliary water supply may enter a public potable or consumer's water system unless, such auxiliary water supply and the method of connection and use of such supply shall have been approved by the water purveyor and the Missouri Department of Natural Resources.
- c. No water service connections shall be installed or maintained to any premises in which the plumbing system, facilities, and fixtures have not been constructed and installed using acceptable plumbing



practices considered by the water purveyor as necessary for the protection of health and safety.

#### Section IV. Survey and Investigations

- a. The consumer's premises shall be open at all reasonable times to the water purveyor, or his authorized representative, for the conduction of surveys and investigations of water use practices within in the consumer's premises to determine whether there are actual or potential cross connections to the consumer's water system through which contaminants or pollutants could backflow into the public potable water system.
- b. On request by the water purveyor or his authorized representative, the consumer shall furnish information on water use practices within his premises.
- c. It shall be the responsibility of the water consumer to conduct periodic surveys of water use practices on premises to determine whether there are actual or potential cross connections to his water system through which contaminants or pollutants could backflow into his or the public potable water system.

#### Section V. Type of Protection Required

- a. The type of protection required by this ordinance shall depend on the degree of hazard which exists, as follows:
  1. An approved air gap separation shall be installed where the public potable water system may be contaminated with substances that could cause a severe health hazard.
  2. An approved air gap separation or an approved reduced pressure principle backflow prevention assembly shall be installed where the public potable water system may be contaminated with a substance that could cause a system or health hazard.
  3. An approved air gap separation or an approved reduced pressure principle backflow prevention assembly or an approved double check valve assembly shall be installed where the public potable water system may be polluted with substances that could cause a pollution hazard not dangerous to health.

#### Section VI. Where Protection is required

1. An approved backflow prevention assembly shall be installed on each service line to a consumer's water system serving premises where, in the judgment of

the water purveyor or the Missouri Department of Natural Resources, actual or potential hazards to the public potable water system exist. The type and degree of protection required shall be commensurate with the degree of hazard.

2. An approved air gap separation or reduced pressure; principal backflow prevention assembly shall be installed at the service connection or within any premises where, in the judgment of the water purveyor or the Missouri Department of Natural Resources, the nature and extent of activities on the premises, or the materials used in connection with the activities, or materials stored on the premises, would present an immediate and dangerous hazard to health should a cross connection occur, even though such cross connection may not exist at the time the backflow prevention device is required to be installed. This includes but is not limited to the following situations:
  - a. Premises having auxiliary water supply, unless the quality of the auxiliary supply is acceptable to the water purveyors and the Missouri Department of Natural Resources.
  - b. Premises having internal cross connections that are not correctable, or intricate plumbing arrangements which make it impractical to ascertain whether or not cross connection exist.
  - c. Premises where entry is restricted so that inspection for cross connections cannot be made with sufficient frequency or at sufficiently short notice to assure the cross connections do not exist.
  - d. Premises having a repeated history of a cross connections being established or re-established.
  - e. Premises, which due to the nature of the enterprise therein, are subject to recurring modification or expansion.
  - f. Premises on which any substance is handled under pressure so as to permit entry into the public water supply, or where a cross connection could reasonably be expected to occur. This shall include the handling of process waters and cooling waters.
  - g. Premises where materials of a toxic or hazardous nature are handled such that if back-siphonage or backpressure should occur, a serious health hazard may result.
3. The types of facilities listed in Appendix B fall into one or more of the categories of premises where an approved air gap separation or reduced pressure principle backflow prevention assembly is required by the water purveyor and the Missouri Department of Natural Resources to protect the public water supply and must be installed at these facilities unless all hazardous or potentially hazardous conditions have been eliminated or



corrected by other methods to the satisfaction of the water purveyor and the Missouri Department of Natural Resources.

#### Section VII. Backflow Prevention Assemblies

- A. Any backflow prevention assembly required to protect the facilities listed in Appendix B shall be of a model or construction approved by the water purveyor and the Missouri Department of Natural Resources.
  - 1. Air gap separation to be approved shall be at least twice the diameter of the supply pipe, measured vertically above the top rim of the vessel, but in no case less than one inch.
  - 2. A double check valve assembly or a reduced pressure principle backflow prevention assembly shall be approved by the water purveyor, and shall appear on the current "list of approved backflow prevention assemblies" established by the Missouri Department of Natural Resources.
- B. Existing backflow prevention assemblies approved by the water purveyor at the time of installation and properly maintained shall, except for inspection and maintenance requirements, be excluded from the requirements of this ordinance so long as the water purveyor is assured that they will satisfactorily protect the water system. Whenever the existing assembly is moved from its present location, or requires more than minimum maintenance, or when the water purveyor finds that the maintenance constitutes a hazard to health, the unit shall be replaced by a backflow prevention assembly meeting the requirements of this ordinance.

#### Section VIII. Installation

- A. Backflow prevention assemblies required by this ordinance shall be installed at a location and in a manner approved by the water purveyor and shall be installed at the expense of the water consumer.
- B. Backflow prevention assemblies installed on the service line to the consumer's water system shall be located on the consumer's side of the water meter, as close to the meter as is reasonably practical, and prior to any other connections.
- C. Backflow prevention assemblies shall be located so as to be readily accessible for maintenance and testing, protected from freezing. No reduced pressure principle backflow prevention assembly shall be located where it will be submerged or subject to flooding by any fluid.

#### Section IX. Inspection and Maintenance

- A. It shall be the duty of the consumer at any premises on which backflow prevention assemblies required by this ordinance are installed to have

inspection, tests, and overhauls made in accordance with the following schedule or more often where inspections indicate a need.

1. Air gap separations shall be inspected at the time of installation and at least every twelve months thereafter.
  2. Double check valve assemblies shall be inspected and tested for tightness at the time of installation and at least every twelve months thereafter.
  3. Reduced pressure principle backflow prevention assemblies shall be inspected and tested for tightness at the time of installation and at least every twelve months thereafter.
  4. Copies of said backflow installation test results shall be provided to the City Clerk within 10 days of then completion.
- B. Inspections, tests, and overhauls of backflow prevention assemblies shall be made at the expense of the water consumer and shall be performed by a State of Missouri certified backflow prevention assembly tester.
- C. Whenever backflow prevention assemblies required by this ordinance are found to be defective, they shall be repaired or replaced at the expense of the consumer without delay.
- D. The water consumer must maintain a complete record of each backflow prevention assembly from purchase to retirement. This shall include a comprehensive listing that includes a record of all tests, inspections, and repairs. Records of inspections, tests, repairs, and overhauls shall be made available to the water purveyor upon request.
- E. Backflow prevention assemblies shall not be bypassed, made inoperative, removed, or otherwise made ineffective.

#### Section X. Violations

- A. The water purveyor shall deny or discontinue, after reasonable notice to the occupants thereof, the water service to any premises wherein any backflow prevention assembly required by this ordinance is not installed, tested, and maintained in a manner acceptable to the water purveyor, or if it is found that the backflow prevention assembly has been removed or bypassed, or if an unprotected cross connection exists on the premises.
- B. Water service to such premises shall not be restored until the consumer has corrected or eliminated such conditions or defects in conformance with this ordinance to the satisfaction of the water purveyor.

#### 17.200. Water Rates



The water rates established for all customers are set forth in Appendix C.

**17.205. Billing and collection procedures (Water)**

- A. All water service charges shall be paid to the City, or its authorized agent, at the location or locations designated by the City. Water service charges shall be due on the date said bill is received.
- B. Every water service charge specified in this section remaining unpaid after the last business day of the month shall be increased by a ten dollar (\$10.00) late fee on all accounts with a past-due balance of one dollar (\$1.00) or greater as set by the Board. If charges have not been paid at this time a late notice will be issued. If payment is not received by date on late notice customers will be subject to discontinuance. If customer is disconnected a re-connection fee of \$60.00 will be due before service can be reconnected.
- C. Water services shall be deemed to be furnished to both the occupant and owner of all residential, commercial or industrial, and governmental establishments receiving water service, and the occupant and owner of such establishments shall be severally and jointly liable to the City for payment of the charges for such service rendered on or to premises upon which such establishments are located. If any bill for such service is not paid within fifteen (15) days from the date payment is due, the City may sue, the occupant, the owner, or both, of the establishments receiving such service, or for which such service has been made available, and receive any sums due for such services plus a reasonable attorney's fees to be fixed by the court and the costs of such suit. Such suit shall be instituted by the City counselor upon the order of the Board of Aldermen of the City. In addition, the City may use such other means now or hereafter available to it under the statutes of Missouri and the ordinances of the City to effect the collection of any bill for water service remaining unpaid.

Nothing contained herein shall in any way forgive or avoid any payment to the City as outlined in this chapter for water services. Upon receipt of any such payment under protest, the Chief Water Operator shall respond in writing to the recipient of the service with a response to their complaint and a copy shall be forwarded to the City Clerk, the City Board of Aldermen, and a reply shall be forthcoming within a reasonable amount of time.

**Article III. Annual Procedures**

**17.210. Annual Review**

The City shall review the user charge system annually and revise user charge rates as necessary to ensure that the system generates adequate revenues to pay the costs of operation and maintenance including replacement costs among users and user classes.

**17.211. Annual Inflation Adjustment**

It shall be mandatory to review the rates, which fund operations and maintenance of the

water system, so that rates shall be revised as needed to reflect the annual inflation rate as stated by the most current Consumer Price Index as published by the Federal Government. Rates as stated in Appendix C-1 or C-2 and all other rate revisions shall not have a bearing on or be used in lieu of the annual rate review.

#### **17.215. Annual Notification**

The City shall notify each user at least annually, in conjunction with a regular bill, of the rate being charged for operation and maintenance.

#### **17.220. Appeal**

Whensoever any user shall find themselves aggrieved by the terms of this Chapter and shall request relief therefrom, said user may appeal to the Board of Alderman, who shall have the sole and exclusive jurisdiction and power to grant relief as sought by said user, provided that said relief is not injurious or potentially harmful to the Water System or other residents of the City of Meta.



## APPENDIX A DEFINITIONS

1. "Air gap separation" means the unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet supplying water to a tank, plumbing fixture, or other device and the overflow level rim of the receptacle, and shall be at least double the diameter of the supply pipe, measured vertically above the flood level rim of the vessel, but in no case less than one inch.
2. "Auxiliary water supply" means any water source or system, other than the public water supply, that may be available in the building or premises.
3. "Backflow" means the flow other than the intended direction of flow, of any foreign liquids, gases, or substances into the distribution system of a public water supply.
4. "Backflow prevention assembly" means any double check valve or reduced pressure principle backflow preventer having resilient-seated shut-off valves on both the upstream and downstream end and the necessary test cocks as integral parts of the assembly.
5. "Consumer" means the owner or person in control of any premises supplied by or in any manner connected to a public water system.
6. "Containment" means protection of the public water supply by installing a backflow prevention assembly or air gap separation on the main service line to a facility.
7. "Contamination" means an impairment of the quality of the water by sewage, process fluids, or other wastes to a degree which could create an actual hazard to the public health through poisoning or through spread of disease by exposure.
8. "Cross connection" means any physical link between a potable water supply and any other substance, fluids, or source, which makes possible contamination of the potable water supply due to the reversal of flow of the water in the piping or distribution system.
9. "Hazard, Degree of" means an evaluation of the potential risk to public health and the adverse effect of the hazard upon the potable water system.
  - a. "Hazard, Health"-any condition, device, or practice in the water supply system and its operation, which could create or may create a danger to the health and well being of the water consumer.

- b. "Hazard Plumbing"- a plumbing type cross connection in a consumer's potable water system that has not been properly protected by a vacuum breaker, air gap separation or backflow prevention assembly.
  - c. "Hazard, Pollution"- an actual or potential threat to the physical properties of the water system or to the potability of the public or the consumer's potable water system but which would constitute a nuisance or be aesthetically objectionable or could cause damage to the system or its appurtenances, but would not be dangerous to health.
  - d. "Hazard, System" -an actual or potential threat of severe damage to the physical properties of the public portable water system or the consumer's potable water system or of a pollution or contamination which would have a protracted effect on the quality of the potable water in the system.
- 10. "Industrial process system" means any system containing a fluid or solution, which may be chemically, biologically, or otherwise, contaminated or polluted in a form or concentration such as would constitute a health, pollution, or plumbing hazard if introduces into a potable water supply.
  - 11. "Isolation" means protection of a facility's internal plumbing system by installing a backflow prevention assembly, air gap separation, or other backflow prevention device on an individual fixture, appurtenance, or system.
  - 12. "Pollution" means the presence of any foreign substance (organic, or biological) in water, which tends to degrade its quality so as to constitute a hazard or impair the usefulness of the water to a degree, which does not create an actual hazard to the public health but which does adversely and unreasonably affect such waters for domestic use.
  - 13. "Public potable water system" means any publicly or privately owned water system supplying water to the general public which is satisfactory for drinking, culinary, and domestic purposes and meets the requirements of the Missouri Department Natural Resources.
  - 14. "Service connection", means the terminal end of a service line from the public water system. If a meter is installed at the end of the service, then the service connection means the downstream end of the meter.
  - 15. "Water purveyor" means the owner, operator, or individual in responsible charge of a public water system.



## **APPENDIX B**

### **TYPES OF FACILITIES REPRESENTING CROSS CONNECTION HAZARDS**

1. Aircraft and missile manufacturing plants;
2. Automotive plants, including those plants, which manufacture motorcycles, automobiles, trucks, recreational vehicles and construction and agricultural equipment;
3. Potable water dispensing stations which are served by a public water system;
4. Beverage bottling plants including dairies and breweries;
5. Canneries, packinghouses and reduction plants;
6. Car washes;
7. Chemical, biological and radiological laboratories including those in high schools, trade schools, colleges, universities and research institutions;
8. Hospitals, clinics, medical buildings, autopsy facilities, morgues, mortuaries and other medical facilities;
9. Metal or plastic manufacturing, fabrication, cleaning, plating or processing facilities;
10. Plants manufacturing paper and paper products;
11. Plants manufacturing, refining, compounding or processing fertilizer, film, herbicides, natural or synthetic rubber, pesticides, petroleum, or petroleum products, pharmaceuticals, radiological materials or any chemical which would be a contaminant to the public water system;
12. Commercial facilities that use herbicides, pesticides, fertilizers or any chemical which would be a contaminant to the public water system;
13. Plants processing, blending or refining animal, vegetable or mineral oils;
14. Commercial laundries and dye work;
15. Sewage, storm water and industrial waste treatment plants and pumping stations;
16. Waterfront facilities including piers, docks, marinas and shipyards;
17. Industrial facilities, which recycle water;
18. Restricted or classified facilities or other facilities closed to the supplier of water or the department;

19. Fire sprinkler systems using any chemical additives;
20. Auxiliary water systems;
21. Irrigation systems with facilities for injection of pesticides, herbicides or other chemicals or with provisions for creating back pressure;
22. Portable tanks for transporting water taken from a public water system;
23. Facilities, which have pumped or re-pressurized cooling or heating systems that are served by a public water system, including all boiler systems; and
24. Fire departments or fire protection districts utilizing storage trucks or containers which are at times filled from sources other than the municipal Water System.



## APPENDIX C: WATER RATES

- (A) Minimum charge for 0 gallons to 1,999 gallons used shall be Eight Dollars (\$8.00).
- (B) The charge for each additional gallon, or fraction thereof, used shall be .004 cents.

These sections are set out in the Appendix of the Code and shall be considered a part thereof as if more fully and completely set out within.

### Fees :

Installation Fee. For installation of a water meter the fee in the amount of Four Hundred (\$400.00) dollars shall be paid to the City. The property owner shall be responsible for installing all service lines and making the actual connection. The specifications for any such connection shall be as established by the City Chief Water Operator.

#### Meter Size

5/8 inch and ¾ inch  
1 inch to 1 ½ inch  
2 inch  
3 inch  
4 inch  
6 inch

#### Distribution System Fee

\$0  
\$0  
\$0  
\$0  
\$0  
\$0