

Chapter 35 WATER SYSTEM

35.01.00 Definitions

In the interpretation of this Chapter the following definitions shall apply unless the context clearly indicates otherwise:

35.111 “Water main” shall mean that part of the water distribution system located within easement lines or streets designated to supply more than one (1) water connection.

35.112 “Water connection” shall mean that part of the water distribution system connecting the water main with the premises served.

35.113 “Department” shall mean the Water Department of the City.

35.114 “Lawn-taps” shall mean a water hydrant which connects to the City Water System independent of connections within the serviced structure(s).

35.115 “Well” shall mean a deep hole or shaft sunk into the earth to tap an underground supply of water for irrigation or otherwise.

35.01.01 Service Connection

Applications for water connections shall be made to the Department on forms prescribed and furnished by it. Water connections and water meters shall be installed in accordance with rules and regulations of the Department and upon payment of the required connection fee, meter installation fee and tap in fee. The connection fee shall not be less than the costs of materials, installation and overhead attributable to the construction of the water line from the water main shall be borne by the property owner, and all users of that line. If the repairs, maintenance, replacements to the water connections is on property owned by someone that is not using the line, all users shall be responsible. If the water shut-off is on the opposite side of the roadway, the owner/user will only be responsible up to the side of the roadway that the owner/users building is on. The Department shall be notified twenty-four (24) hours in advance, and all work shall be left uncovered until inspected. Water meters shall remain the property of the City.

35.01.02 Limitation on Water Connections

Applications for water connections and water meters shall only be approved for installation on premises located within the corporate limits of the City of Sandusky. No new premises outside the corporate limits of the City of Sandusky shall be supplied by the City Water Distribution System until or unless the property is properly annexed. (Ordinance 07-04)

35.01.03 Turning on Water Service

No person, other than an authorized employee of the Department, shall turn on or off any water service, except that a licensed plumber may turn on water service for testing

his work (when it must be immediately turned off) or upon receiving a written order from the Department; provided, that upon written permit from the Department, water may be turned on for construction purposes upon payment of the charges applicable thereto (See Section 34.235).

35.01.04 Private Well Prohibited

No private wells may be drilled, dug, developed or otherwise created or improved within the City of Sandusky unless specifically approved by the Council as a variance to this ordinance. Such approval may be granted (with the approval of the state and local health departments) only upon demonstration of hardship or unique circumstances, it being the intent of this Article to equitably and uniformly distribute the costs and to maximize efficiency of the City water system.

35.01.05 Lawn-taps

All lawn-taps shall either be eliminated or run through a second meter. All costs for installation of the meter shall be assumed by the user. This charge shall apply to residents with private wells. No additional lawn-taps will be allowed and there shall be no discount on rates (ie. Sewer/water).

35.01.06 Pollution Prohibited

35.01.06A Pollution of Municipal Wells

It shall be unlawful for any person, firm or corporation to construct or maintain, or permit to be constructed or maintained, within a radius of two hundred (200') feet from any of the municipal water wells in the City of Sandusky, Michigan, from which the city draws its water supply, any source of possible contamination or pollution to said wells.

35.01.06B Pollution of City Water System

It shall be unlawful for any person, firm or corporation to do any act, or to allow to be done any act, that may contaminate or pollute, or contribute to the contamination or pollution of the water supply wells or water systems of the City of Sandusky, Michigan.

35.01.07 Hydrant Use

No person, except an employee of the City in the performance of his duties, shall open or use any fire hydrant except in case of emergency, without first securing a written permit from the Department and paying such charges as may be prescribed. Fire hydrants shall be used for fire or flushing only.

35.01.08 Water Scarcity

Whenever the amount of City water being used is disproportionate to the amount of water available for distribution when other demands upon such available water supply are taken into consideration, the City Manager may declare that a water emergency exists, and may enforce rules regulating the use of water from the City Water Distribution System as approved by the City Council.

35.01.09 Rules and Regulations

The rules and regulations now in effect shall continue until changed in accordance with this section. The City Manager may make and issue additional rules and regulations concerning the Water Supply and Sewage Disposal System not inconsistent herewith which shall become effective upon approval by the City Council.

35.01.10 Damage to Facilities

No person, except an employee of the City in the performance of his duties, shall willfully or carelessly break, damage, destroy, uncover, deface or tamper with any structure, equipment, or appurtenance as part of the City Water Distribution System.

35.01.11 Penalty

Any person, firm or corporation violating any of the provisions of this article shall be guilty of a misdemeanor and upon conviction thereof shall be punished under the provisions of Chapter I, Section 6 of this Code.

35.02.00 Purpose

To provide for the prevention of backflows of possibly contaminated water from sources other than the public water supply and to further provide that any water outlet which could be used for potable or domestic purpose and which is not supplied by the potable system must be labeled in a conspicuous manner as:

WATER UNSAFE FOR DRINKING!

35.02.01 Michigan Health Dept Rules Adopted

The Water Supply Cross Connection Rules of the Michigan Department of Public Health being R 325.431 to R 325.440 of the Michigan Administrative Code is hereby adopted by reference. Copies of same are on file and may be examined at the Office of the City Clerk.

35.02.02 Definitions

For the purposes of this article certain terms, phrases, words and their derivatives shall be construed as specified in this section. The word shall is mandatory and not merely directive. Where words and terms are not defined they shall have their ordinarily accepted meaning or such as they may imply.

35.02.02a Backflow shall mean water of questionable quality, wastes or other contaminants entering a public water supply system due to a reversal of flow caused by back pressure or back siphonage.

35.02.02b Cross Connection shall mean a connection or arrangement or piping or appurtenances through which a backflow could occur.

35.02.02c Inspector shall mean the duly appointed representative of the City of Sandusky whose duty it shall be to make the necessary inspections and re-inspections of connections to the Public Water Supply and make reports thereon.

35.02.02d Non-Potable Water shall mean water that is not deemed safe nor to be used for human consumption in any way.

35.02.02e Potable Water shall mean water that is deemed safe for human consumption.

35.02.02f Piping Identification shall mean a system of color coding of interior piping whereby the various pipes in any installation can be readily identified as to type of water, gas, chemicals, air, waste or other substance for which it is used.

35.02.02g Protective Devices shall mean an approved arrangement of piping so installed as to prevent backflow or the installation of approved mechanical device subject to regular re-inspection for adequacy of backflow prevention.

35.02.02h Public Water Supply shall mean the water supply system of the City of Sandusky.

35.02.02i Safe Air Gap shall mean the minimum distance of a water inlet or opening above the maximum high water level or overflow rim in a fixture, device or container to which public water is furnished which shall be at least two times the inside diameter of the water inlet pipe, but shall not be less than one inch and need not be more than twelve inches.

35.02.02j Secondary supply shall mean a water supply system maintained in addition to a public water supply including but not limited to water systems from ground or surface sources not meeting the requirement of Act No. 98, P.A. of 1913 as amended being Section 325.201 to 325.214 of the compiled law of 1948, or water from a public water supply which in any way has been processed or exposed to any possible contaminate or stored in other than an approved storage facility. Private water storage tanks supplied from the public water supply not designed and approved for potable water usage shall be deemed secondary supplies as will cooling towers and recirculation systems.

35.02.02k Submerged Inlet shall mean a water pipe or extension thereto from which a public water supply terminates in a tank, fixture, or appliance which may contain water of questionable quality, waste or other contaminates, and which is unprotected against backflow.

35.02.03 Inspection and Re-inspection

35.02.03a New Installations

After the effective date of this article no person, firm or corporation shall make any cross connection to the Public Water Supply System without first receiving approval for such connection from the City Council. Cross connections so approved shall be inspected upon completion by the duly authorized representative of the City Council and shall be re-inspected for proper maintenance and operation at intervals hereinafter provided.

35.02.03b Existing Installations

All connections to the public water supply known or suspected of being cross connected shall be inspected following adoption of this article and where such cross connections are discovered to exist approved protection devices shall be installed and shall be inspected and re-inspected as hereinafter provided.

35.02.03c Re-inspection Time Intervals

<u>Type of Cross Connection</u>	<u>3 Mos.</u>	<u>6 Mos.</u>	<u>12 Mos.</u>
Secondary Water Systems			
a. Critical Equipment	X		
b. Non Critical Equipment.....		X	
Submerged Inlets			
a. Connection at Service Line.....			X
b. Connection on Internal System.....			X
Refrigeration Systems.....			X
Heating and/or Cooling.....			X
Treated Water.....			X
Commercial Boilers.....			X
Other.....	As recommended by Mich. Dept. of Health		

35.02.03d Approval and Testing of Protective Devices

All protective devices used for the purpose of preventing backflow shall be approved by the Michigan Department of Public Health. Testing of new or existing installations shall be required by the inspector at such time intervals as he may deem necessary but in no event shall mechanical devices depended upon for protection be in operation for more than three years without being re-tested. Such tests may be performed by licensed master plumbers or such others as the Michigan Department of Public Health and the Inspector may designate.

35.02.03e Fees

Fees for inspection, re-inspection and testing shall be as set by council resolution but in no event will the fee for testing be less than the cost plus ten percent for City administrative expense.

35.02.04 Water System Inspector

35.02.04a Appointment

The inspector shall be appointed by the City Council and shall remain in office until a successor has been named.

35.02.04b Qualifications

The inspector shall have a general knowledge of the public water supply system and may with Council approval enlist the assistance of other personnel to assist in performing his duties.

35.02.04c Authority

The inspector and his assistants when accompanying him shall have the authority to enter at any reasonable time upon all premises connected to the public water supply for the purpose of conducting his duties. Upon request the owner, lessees or occupants of any property so served shall furnish to the inspector any pertinent information regarding the piping system or systems on such premises. The refusal of such information or the refusal of access when requested shall be deemed evidence of cross connections or malfunction of protective devices. Upon report of such refusal to the City Council the Council may direct that ten days notice be given to the owner, lessees, or occupants of such premises that water service will be discontinued. The Council may further direct that such further precautionary measures as are necessary may be taken to eliminate any danger of contamination to the public water supply system. Water service to such premises shall not be restored until necessary corrective action has been taken.

35.02.04d Duties

It shall be the duty of the inspector to familiarize himself with the requirements set forth in the Michigan Department of Public Health Cross Connection Rules called for by this article, to see that testing is conducted where and when necessary to see that a piping identification program is undertaken as hereinafter provided and to fill out and file with the Michigan Department of Public Health and the City Council copies of such report forms as may be from time to time required.

35.02.05 Piping Identification Program

35.02.05a Identification requirement

In all commercial and industrial installations where cross connection practices exist the following piping identification shall be accomplished by either painting the pipes or applying tags of a size and location as approved by the inspector.

35.02.05b Alternate color codes

In cases where a different color coding presently exists the inspector may approve its continuance provided a complete schedule of the piping identification is provided.

35.02.05c Standard Color Code

Water Lines

Raw	Olive Green
Settled or Clarified	Aqua
Finished or Potable	Dark Blue

Chemical Lines

Alum	Orange
Ammonia	White
Carbon Slurry	Black
Chlorine (Gas & Solution)	Yellow
Fluoride	Light Blue with Red Bank
Lime Slurry	Light Green
Potassium Permanganate	Violet
Sulfur Dioxide	Light Green with Yellow Bank

Wastes Lines

Backwash Waste	Light Brown
Sludge	Dark Brown
Sewer (Sanitary or Other)	Dark Gray

Other

Compressed Air	Dark Green
Gas	Red
Other Lines	Light Grey

35.02.06 Interpretation and Application

In interpreting and applying the provision of this article, such provision shall be held to be the minimum requirements for the needs of public safety health and welfare.

35.02.07 Conflicts

It is not intended by this article to interfere with, abrogate, or annual any chapters, rules, or regulations previously adopted either by the City of Sandusky, the State Plumbing Law (Act 266 PA of 1929 as amended) or any other regulations established by the Michigan Department of Public Health.

35.02.08 Violations and Penalties

Any person, firm or corporation or anyone acting on their behalf who shall violate any of the provisions of this article shall upon conviction thereof be subject to the penalties provided under Chapter I, Section 6 of this Code.

35.03.01 Purpose

The purpose of this article is to exempt the City of Sandusky Water Supply System from the provisions of Act 346 Public Acts of 1968, (now known as section 12721 of the Public Health Code being 1978 PA 368) as provided for within said act.

35.03.02 No Chemical Additives

From and after the effective date of this article no chemical substance shall be added to the public water supply except by authorization of the duly elected council of the City of Sandusky.

35.03.03 Fluoride Prohibited

The addition of any chemical substance designed to artificially increase the fluoride content of the Sandusky Public Water Supply above its present or future natural content is hereby expressly prohibited.

35.04.01 Sealed Meters

All premises using water shall be metered, except as otherwise provided in this Code. No person except a Department employee shall break or injure the seal or change the location of, alter or interfere in any way with any water meter.

35.04.02 Reimbursement for Meter Damage

Any damage which a meter may sustain resulting from carelessness of the owner, agent, or tenant or from neglect of either of them to properly secure and protect the meter, as well as any damage which may be wrought by frost, hot water, or steam backing from a boiler, shall be paid by the owner of the property to the City on presentation of a bill therefore; and in cases where the bill is not paid, the water shall be shut off and shall not be turned on until all charges have been paid to the City.

35.04.03 Access to Meters

The Department shall have the right to shut off the supply of water to any premises where the location and/or setting has not been previously approved by the Department. Approved locations include accessible living space or frost proof pits. Any qualified employee of the Department shall at all reasonable hours, have the right to enter the premises where such meters are installed for the purpose of reading, testing, removing or inspecting same and no person shall hinder, obstruct, or interfere with such employee in the lawful discharge of his duties in relation to the care and maintenance of such water meter.

35.04.04 Meter Failure

If any meter shall fail to register properly, the Department shall estimate the consumption on the basis of former consumption and bill accordingly.

35.04.05 Inaccurate Meters

A consumer may request that the meter be tested. If the meter is found accurate, a \$15.00 charge shall be made. If the meter is found defective, it shall be repaired or replaced and no charge shall be made.

35.04.06 Accuracy Required

A meter shall be considered accurate if, when tested, it registers not to exceed two percent (2%) more or two percent (2%) less than the actual quantity of water passing through it. If a meter registers in excess of two percent (2%) more than the actual quantity of water passing through it, it shall be considered “fast” to that extent. If a meter registers in excess of two percent (2%) less than the actual quantity of water passing through it, it shall be considered “slow” to that extent.

35.04.07 Bill Adjustment

If a meter has been tested at the request of a consumer and shall have been determined to register “fast” the City shall credit the consumer with a sum equal to the percent “fast” multiplied by the amount of all bills incurred by said consumer, within the three (3) months prior to the test, and if a meter so tested is determined to register “slow”, the Department may collect from the consumer a sum equal to the percent “slow” multiplied by the amount of all the bills incurred by the consumer for the prior three (3) months. When the Department on its own initiative makes a test of a water meter, it shall be done without cost to the consumer, other than his paying the amount due to the City for water used by him as above provided, if the meter is found to be “slow”.

35.04.08 Water Meter Installation Dates

It shall be the obligation of the owner(s) of all real property connected to the City water system within the corporate limits of the City of Sandusky and all extra-territorial City water users connected to the City water system to install water meters according to the following schedule:

35.04.08a Residential Users

Water meters shall be installed not later than June 30, 1986 on property serviced by the City water system and used for residential purposes.

35.04.08b Agricultural Users

Water meters shall be installed not later than June 30, 1986 on property serviced by the City water system and used for agricultural purposes.

35.04.08c Commercial Users

Water meters shall be installed not later than September 1, 1985 on property service by the City water system and used for commercial purposes.

35.04.08d Industrial Users

Water meters shall be installed not later than September 1, 1985 on property serviced by the City water system and used for industrial purposes.

35.04.09 Enforcement

35.04.09a Remedies – Disconnect and/or civil or criminal action

In enforcement of this article, the City Water Department is authorized to discontinue water and sewer service to the property in violation after giving the owner and occupant 30 days written notice of the specific violation. Concurrently or alternatively, the Department may enforce the provisions of this Article by equitable action, including demand for actual court costs and all fees, in Circuit Court or criminal procedure in District Court.

35.04.09b Penalties

Any person, firm or corporation or anyone acting on their behalf who shall violate any of the provisions of this article shall upon conviction thereof be subject to the penalties provided under Chapter 1, Section 6 of this Code.