

RATE FILE

Sheet No. 1 of 1

Schedule No. PTAC-1

Amendment No. 1

Public Service Commission of Wisconsin

City of Shawano Water and Sewer Utility

Purchased Treatment Adjustment Clause

All metered rates shall be subject to a positive or negative sewage treatment cost adjustment charge equivalent to the amount by which the current cost of sewage treatment (per 1,000 gallons of sales) is greater or lesser than the base cost of sewage treatment (per 1,000 gallon of sales).

The current cost per 1,000 gallons of sewage treatment billed is equal to the cost of sewage treatment purchased for the most recent three months divided by the total billable volume of sewage (in 1,000 gallons) during the most recent three months. The monthly adjustment (rounded up to the nearest one-tenth of a cent) is equal to the current cost less the base cost. The base cost, until changed by order of the Public Service Commission of Wisconsin, is \$3.551 per 1,000 gallons.

Periodic changes shall be made to maintain the proper relative structure of the Shawano rates and to ensure that sewage treatment costs are being equitably recovered from the various rate classes. The utility shall file with the Public Service Commission of Wisconsin within 30 days for changes in the rates to incorporate a portion of the sewage treatment cost adjustment into base rate if the monthly adjustment A exceeds \$2.00 per 1,000 gallons.

For purposes of calculating the sewage treatment cost adjustment charge, the following formula shall be used:

$$A = \frac{(C-H)}{S} - U$$

- A is the sewage treatment cost adjustment rate in dollars per 1,000 gallons rounded to three decimal places applied on a per 1,000 gallon basis to all metered sales of sewage.
- C is the cost of sewage treatment charged by the Wolf Treatment Plant (WTP) in dollars in the most recent three months. "Cost of sewage treatment" means the monthly WTP costs recorded in Account 827 of the Uniform System of Accounts.
- H is the most recent three month total of high strength units billed to utility customers multiplied by WTP's component unit costs in dollars.
- S is the total billable volume of sewage (in 1,000 gallons) during the most recent three months.
- U is the base cost of sewage treatment which equals the average cost of sewage treatment purchased per 1,000 gallons of sales for the test year. This figure remains constant in each subsequent monthly calculation at \$3.551 per 1,000 gallons, until otherwise changed by the Public Service Commission of Wisconsin.

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Schedule No. Smg-1

Amendment No. 1

Public Service Commission of Wisconsin

City of Shawano Water and Sewer Utility

General Sewer Service - Metered

This rate applies to sewage contributors discharging domestic strength sewage up to 250 mg/l for B.O.D., 250 mg/l for suspended solids, and 12 mg/l for phosphorus.

Monthly Service Charges:

5/8 -inch meter - \$	8.75	3 -inch meter - \$	28.00
3/4 -inch meter - \$	8.75	4 -inch meter - \$	41.00
1 -inch meter - \$	10.85	6 -inch meter - \$	74.00
1 1/4 -inch meter - \$	12.60	8 -inch meter - \$	114.00
1 1/2 -inch meter - \$	14.25	10 -inch meter - \$	171.10
2 -inch meter - \$	18.25	12 -inch meter - \$	228.00

Plus Volume Charge:

For domestic strength sewage discharged to the sanitary sewer system -
\$5.78 per 1,000 gallons

Billing: Same as Schedule Mg-1.

Note: This schedule is subject to increases or decreases from Schedule PTAC-1.

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Schedule No. Smg-2

Amendment No. 1

Public Service Commission of Wisconsin

City of Shawano Water and Sewer Utility

Commercial and Industrial Sewer Service - Metered

When the sewage from any contributor does not exceed the strength limitations of 250 mg/l for B.O.D., 250 mg/l for suspended solids, and 12 mg/l for phosphorus, the sewer bill shall be calculated under Schedule Smg-1. When the waste of any contributor exceeds the above strength, a periodic sampling shall be taken and the sewage analyzed to determine the strength of said waste, which will be billed at the following rates:

Monthly Service Charges: Same as Schedule Smg-1.

Plus Volume Charges: Charge shall be comprised as follows:

Volume - \$5.78 per 1,000 gallons

Bio-Chemical Oxygen Demand (B.O.D.) - 58.0¢ per lb. in excess of 250 mg/l.

Suspended solids (S/S) - 49.1¢ per lb. in excess of 250 mg/l.

Phosphorus - \$4.29 per lb. in excess of 12 mg/l

Billing: Same as Schedule Smg-1.

Note: This schedule is subject to increases or decreases from Schedule PTAC-1.

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Sheet No. 1 of 1

Schedule No. Sum-1

Amendment No. 1

Public Service Commission of Wisconsin

City of Shawano Water and Sewer Utility

General Sewer Service - Unmetered

This rate applies to residential and small commercial sewer service customers discharging only domestic sewage who temporarily are taking water service on an unmetered basis or who have their own wells with the permission of the utility.

Monthly charge per customer: \$31.29

This rate approximates the cost of 3,900 gallons per billing period under Schedule Smg-1. If it is determined by the utility that usage is in excess of 3,900 gallons per billing period, an additional charge of \$5.78 per 1,000 gallons will be made for the estimated additional volume of sewage.

Note: Larger sewer customers not connected to the municipal water utility will be required to rent a water meter from the utility to measure the water used, and the regular sewage rates (Schedule Smg-1 or Smg-2) will apply.

Billing: Same as Schedule Smg-1.

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Schedule No. Scz-1

Public Service Commission of Wisconsin

Amendment No. 1

City of Shawano Water and Sewer Utility

Sewer Lateral Installation Charge
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Subdivision developers shall be responsible, where the main extension has been approved by the utility, for the sewer lateral installation costs from the main to the property line.

When the cost of a utility main extension is to be collected through assessment by the municipality, the average sewer installation costs from the main to the property line shall be included in the assessment of the appropriate properties.

The initial sewer service lateral(s), not installed as part of a subdivision development or an assessable utility extension, will be installed from the main to the property line by the utility, for which the actual cost will be charged.

Billing: Same as Schedule Smg-1.

Public Service Commission of Wisconsin

City of Shawano Water and Sewer Utility

Sewer Rules and Regulations

Compliance with Rules

All persons now receiving sewer service from this sewer utility, or who may hereafter make application therefore, shall be considered as having agreed to be bound by the rules and regulations as filed with the Public Service Commission of Wisconsin.

Application for sewer service shall be made in writing on a form furnished by the sewer utility. The application will contain the legal description of the property to be served, name of the owner, the exact use to be made of the service, and the size of the service connection.

I. Definitions

- A. Approving Authority: The superintendent of the utility, Board of Public Works, or other designated official of the municipality or its duly authorized deputy, agent, or representative.
- B. B.O.D. (Biochemical Oxygen Demand): The quantity of oxygen utilized in the biochemical oxidation of organic matter in five days at 20 degrees centigrade, expressed as milligrams per liter. Quantitative determination of B.O.D. shall be made in accordance with procedures set forth in "Standard Methods".
- C. Combined Sewer: A sewer receiving both surface runoff and sewage.
- D. Chlorine Requirement: The amount of chlorine in milligrams per liter which must be added to sewage to produce a residual as specified in the Wisconsin Pollutant Discharge Elimination System.
- E. Garbage: The residue from the preparation, cooking, and dispensing of food and from the handling, storage, and sale of food products and produce.
- F. Ground Garbage: The residue from the preparation, cooking, and dispensing of food that has been shredded to such a degree that all particles will be carried freely in suspension under the flow conditions normally prevailing in public sewers with no particle greater than one-half inch (1/2") in any dimension.
- G. Industrial Waste: The wastewater from industrial process, trade, or business, as distinct from sanitary sewage, including cooling water and the discharge from sewage pretreatment facilities.

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City of Shawano Water and Sewer Utility

Sewer Rules and Regulations

- H. Natural Outlet: Any outlet, including storm sewers and combined sewer overflows, into a water course, pond, ditch, lake, or other body of surface water or ground waters.
- I. Parts Per Million: A weight-to-weight ratio. The parts per million value multiplied by the factor 8.34 is equivalent to pounds per million gallons of water.
- J. Sanitary Sewage: A combination of water-carried wastes from residences, business buildings, institutions, and industrial plants (other than industrial wastes from such plants); together with such ground, surface, and storm waters as may be present.
- K. Sanitary Sewer: A sewer that conveys wastewater, industrial wastes, or a combination of both and into which storm, surface, and ground waters or unpolluted industrial wastes are not intentionally admitted.
- L. Sewage: The spent water of a community. The preferred term is "wastewater".
- M. Sewer: A pipe or conduit for conveying sewage or any other waste liquids, including storm, surface, and ground water drainage.
- N. "Shall" is mandatory; "May" is permissible.
- O. Slug: Any discharge of sewage or industrial waste which in concentration of any given constituent exceeds more than five times the average 24 hour concentration during normal operation or the discharge of any volume of liquid waste which exceeds more than five times in quantity of flow for a period of 15 minutes or more the normal 24 hour average discharge and shall adversely affect the collection system and/or performance of the wastewater treatment plant.
- P. Standard Methods: The examination and analytical procedures set forth in the most recent edition of "Standard Methods for the Examination of Water, Sewage, and Industrial Wastes", published jointly by the American Public Health Association, the American Water Works Association, and the Water Pollution Control Federation.
- Q. Storm Sewer: A sewer that carries storm, surface, and ground water drainage but excludes sewage and industrial wastes.
- R. Suspended Solids: Solids that either float on the surface of, or are in suspension in, water, wastewater, or industrial waste and which are removable by a laboratory filtration device. Quantitative determination of suspended solids shall be made in accordance with procedures set forth in "Standard Methods".

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Sewer Rules and Regulations

- S. Wastewater: A combination of the liquid and water-carried wastes from residences, commercial buildings, industrial plants, and institutions, together with any ground water, surface water, and storm water that may be present.
- T. Wastewater Collection System: The system of sewers and appurtenances for the collection, transportation, and pumping of wastewater and industrial wastes.
- U. Wastewater Treatment Plant: An assemblage of devices, structures, and equipment for treating and disposing of wastewater and industrial wastes.

II. Use of the Public Sewers

- A. Sanitary Sewers. No person shall cause to be discharged any storm water, surface drainage, subsurface drainage, ground water, roof runoff, cooling water, or unpolluted water into any sanitary sewer.
- B. Prohibitions and Limitations. Except as hereinafter provided, no person shall discharge or cause to be discharged any of the following described waters or wastes to any public sewer.
 - 1. Any gasoline, benzine, naphtha, fuel oil, or other flammable or explosive liquid, solid, or gas.
 - 2. Any waters or wastes containing toxic or poisonous solids, liquids, or gases in sufficient quantity, either singly or by interaction with other wastes, to injure or interfere with any wastewater treatment process or constitute a hazard to humans or animals or create any hazard in the receiving waters of the wastewater treatment plant.
 - 3. Any waters or wastes having a pH lower than 5.0 or having any other corrosive property capable of causing damage or hazard to structures, equipment, and personnel of the wastewater treatment plant.
 - 4. Any waters or wastes having a pH in excess of 10.0.

Public Service Commission of Wisconsin

City of Shawano Water and Sewer Utility

Sewer Rules and Regulations

5. Solid or viscous substances in quantities or of such size capable of causing obstruction to the flow in sewers or other interference with the proper operations of the wastewater collection and treatment facilities such as, but not limited to, ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, unground garbage, whole blood, paunch manure, hair and fleshings, entrails, and paper dishes, cups, milk containers, etc., either whole or ground by garbage grinders.

6. No persons shall discharge or cause to be discharged the following described substances, materials, waters, or wastes if it appears likely in the opinion of the Approving Authority that such wastes can harm either the sewers or the wastewater treatment plant or equipment, have an adverse effect on the receiving stream, or can otherwise endanger life, limb, or property or constitute a nuisance. In forming their opinion as to the acceptability of these wastes, the Approving Authority will give consideration to the sewers, nature of the wastewater treatment process, capacity of the wastewater treatment plant, and other pertinent factors. The substances prohibited are:
 - a. Any liquid or vapor having a temperature higher than 150 degrees Fahrenheit.
 - b. Any water or waste containing fats, wax, grease, or oils, whether emulsified or not which will or may cause obstruction to the flow in a sewer or other interference with the operation of the wastewater system.
 - c. Any commercial garbage that has not been properly shredded. The installation and operation of any commercial grinder equipped with a motor of one horsepower or greater shall be subject to the review and approval of the Approving Authority.
 - d. Any waters or wastes containing iron, chromium, copper, zinc, mercury, and similar objectionable or toxic substances; or wastes exerting an excessive chlorine requirement, to such a degree that any such material received in the composite wastewater at the wastewater treatment plant exceeds the limits established by the Approving Authority for such materials.
 - e. Any waters or wastes containing phenols or other taste or odor producing substances in such concentrations exceeding limits which may be established by the Approving Authority as necessary after treatment of the composite wastewater, to meet the requirements of the State, Federal or other public agencies of jurisdiction for such discharge to the receiving waters.

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Sewer Rules and Regulations

- f. Any radioactive wastes or isotopes of such half-life or concentration as may exceed limits established by the Approving Authority in compliance with State or Federal Regulations.
- g. Any water or wastes which, by interaction with other water or wastes in the sanitary sewer system, release obnoxious gases, for suspended solids which interfere with the collection system or create a condition deleterious to structures and treatment process.
- h. Materials which exert or cause:
 - 1. Unusual B.O.D., chemical oxygen demand, or chlorine requirements in such quantities as to constitute a significant load on the wastewater treatment plant.
 - 2. Unusual volume of flow or concentration of wastes constituting "slugs" as defined herein.
 - 3. Unusual concentrations of inert suspended solids (such as, but not limited to, fuller's earth, lime slurries, and lime residues) or of dissolved solids (such as, but not limited to, sodium sulfate).
 - 4. Excessive discoloration (such as, but not limited to, dye wastes and vegetable tanning solutions).
 - 5. Waters or wastes containing substances which are not amenable to treatment or reduction by the wastewater treatment processes employed, or are amenable to treatment only to such degree that the wastewater treatment plant effluent cannot meet the requirements of the Department of Natural Resources, Division of Environmental Protection of the State of Wisconsin.
- C. Special Arrangements. No statement contained in this article shall be construed as prohibiting any special agreement between the Approving Authority and any person whereby an industrial waste of unusual strength or character may be admitted to the sewage disposal works, either before or after pretreatment, provided that there is no impairment of the functioning of the sewage disposal works by reason of the admission of such wastes, and no extra costs are incurred by the utility without recompense by the person.

EFFECTIVE: January 1, 2009

PSCW AUTHORIZATION: 5365-AN-01