

## Sewer Service System

### CHAPTER 51: SEWER SERVICE SYSTEM

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#### ' 51.01 DEFINITIONS.

For the purpose of this chapter, the following definitions shall apply unless the context clearly indicates or requires a different meaning.

**BIOCHEMICAL OXYGEN DEMAND (BOD).** The quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five days at 20°C, expressed in milligrams per liter.

**BUILDING DRAIN.** That part of the lowest horizontal piping of a drainage system which receives the discharge from soil, waste and other drainage pipes inside the walls of the building and conveys it to the building sewer, beginning five feet outside the inner face of the building wall.

**BUILDING SEWER.** The extension from the building drain to the public sewer or other place of disposal, also called **HOUSE CONNECTION.**

**COMBINED SEWER.** A sewer intended to receive both wastewater and storm or surface water.

**EASEMENT.** An acquired legal right for the specific use of land owned by others.

**FLOATABLE OIL.** Oil, fat or grease in a physical state such that it will separate by gravity from wastewater by treatment in an approved pretreatment facility. A wastewater shall be considered free of floatable fat if it is properly pretreated and the wastewater does not interfere with the collection system.

**GARBAGE.** The animal and vegetable waste resulting from the handling, preparation, cooking and serving of foods.

**INDUSTRIAL WASTES.** The wastewater from industrial processes, trade or business as distinct from domestic or sanitary wastes.

**MAY.** Is permissive.

**NATURAL OUTLET.** Any outlet, including storm sewers and combined sewer overflows, into a watercourse, pond, ditch, lake or other body of surface or groundwater.

**PERSON.** Any individual, firm, company, association, society, corporation or group.

**pH.** The logarithm of the reciprocal of the hydrogen ion concentration. The concentration is the weight of hydrogen ions, in grams, per liter of solution. Neutral water, for example, has a pH value of seven and a hydrogen ion concentration

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of ten.

**PROPERLY SHREDED GARBAGE.** The wastes from the preparation, cooking and dispensing of food that have been shredded to such a degree that all particles will be carried freely under the flow conditions normally prevailing in public sewers, with no particle greater than one-half inch in any dimension.

**PUBLIC SEWER.** A common sewer controlled by a governmental agency or public utility.

**SANITARY SEWER.** A sewer that carries liquid and water-carried wastes from residences, commercial buildings, industrial plants and institutions together with minor quantities of ground, storm and surface waters that are not admitted intentionally.

**SEWAGE.** The spent water of a community. The preferred term is **WASTEWATER**.

**SEWER.** A pipe or conduit that carries wastewater or drainage water.

**SHALL.** Is mandatory.

**SLUG.** Any discharge of water or wastewater which in concentration of any given constituent or in quantity of flow exceeds for any period of duration longer than 15 minutes more than five times the average 24-hour concentration or flows during normal operation and shall adversely affect the collection system and/or performance of the wastewater treatment works.

**STORM DRAIN (STORM SEWER).** A drain or sewer for conveying water, groundwater, subsurface water or unpolluted water from any source.

**SUPERINTENDENT.** The Superintendent of Wastewater Facilities of the city, or his or her authorized deputy, agent or representative.

**SUSPENDED SOLIDS.** Total suspended matter that either floats on the surface of, or is in suspension in water, wastewater or other liquids, and that is removable by laboratory filtering as prescribed in *Standard Methods for the Examination of Water and Wastewater* and referred to as nonfilterable residue.

**UNPOLLUTED WATER.** Water of quality equal to or better than the effluent criteria in effect or water that would not cause violation of receiving water quality standards and would not be benefitted by discharge to the sanitary sewers and wastewater treatment facilities provided.

**WASTEWATER.** The spent water of a community. From the standpoint of source, it may be a combination of the liquid and water-carried wastes from residences, commercial buildings, industrial plants and institutions, together with any groundwater, surface water and storm water that may be present.

**WASTEWATER FACILITIES.** The structures, equipment and processes required to collect, carry away and treat domestic and industrial wastes and dispose of the effluent.

**WASTEWATER TREATMENT WORKS.** An arrangement of devices and structures for treating wastewater, industrial wastes and sludge. Sometimes used as synonymous with **WASTE TREATMENT PLANT** or **WASTEWATER TREATMENT PLANT**, **WATER POLLUTION CONTROL PLANT** or **SEWAGE TREATMENT PLANT**.

**WATERCOURSE.** A natural or artificial channel for the passage of water either continuously or intermittently.  
(Prior Code, ' 13.08.010)

### ' 51.02 USE OF PUBLIC SEWERS REQUIRED.

(A) It is unlawful for any person to place, deposit or permit to be deposited in any unsanitary manner on public or private property within the city, or in any area under the jurisdiction of the city, any human or animal excrement, garbage

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or other objectionable waste.

(B) It is unlawful to discharge to any natural outlet within the city, or in any area under the jurisdiction of the city, any sewage or other polluted waters, except where suitable treatment has been provided in accordance with subsequent provisions of this chapter.

(C) Except as hereinafter provided, it is unlawful to construct or maintain any privy, privy vault, septic tank, cesspool or other facility intended or used for the disposal of wastewater.

(D) The owners of all houses, buildings or properties used for human occupancy, employment, recreation 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 a public sanitary or combined sewer of the city, is required at the owner=s expense to install suitable toilet facilities therein, and to connect such facilities directly with the proper public sewer in accordance with the provisions of this chapter within 60 days after date of official notice to do so, provided that the public sewer is within 200 feet of the property line.

(Prior Code, ' 13.08.020) Penalty, see ' 51.99

### ' 51.03 PRIVATE WASTEWATER DISPOSAL.

(A) Where a public sanitary or combined sewer is not available under the provisions of ' 51.02(D), the building sewer shall be connected to a private wastewater disposal system complying with the provisions of this chapter.

(B) Before commencement of construction of a private wastewater disposal system the owner shall first obtain a written permit signed by the Utilities Commissioner or engineer. 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 Municipal Finance Officer. A permit and inspection fee as set by resolution of the City Commission shall be paid to the city at the time the application is filed. (Ord. 1092, passed 01-18-2022)

(C) A permit for a private wastewater disposal system shall not become effective until the installation is completed to the satisfaction of the Water and Sewer Superintendent. The Water and Sewer Superintendent shall be allowed to inspect the work at any stage of construction, and, in any event, the applicant for the permit shall notify the Water and Sewer Superintendent when the work is ready for final inspection, and before any underground portions are covered. The inspection shall be made within 12 hours of the receipt of notice by the Water and Sewer Superintendent.

(D) The type, capacities, location and layout of a private wastewater disposal system shall comply with all recommendations of the Department of Health or Water and Natural Resources of the state. No permit shall be issued for any private wastewater disposal system employing subsurface soil absorption facilities where the area of the lot is less than 20,000 square feet. No septic tank or cesspool shall be permitted to discharge to any natural outlet.

(E) At such time as a public sewer becomes available to a property served by a private wastewater disposal system, as provided in ' 51.02, a direct connection shall be made to the public sewer within 60 days in compliance with this chapter, and any septic tanks, cesspools and similar private wastewater disposal facilities shall be cleaned of sludge and filled with suitable material.

(F) The owner shall operate and maintain the private wastewater disposal facilities in a sanitary manner at all times, at no expense to the city.

(G) No statement contained in this chapter shall be construed to interfere with any additional requirements that may be imposed by the Health Officer.

(Prior Code, ' 13.08.030) (Ord. 1051, passed 4-16-2018) Penalty, see ' 51.99

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### ' 51.04 SANITARY SEWERS, BUILDING SEWERS AND CONNECTIONS.

(A) No authorized person shall uncover, make any connections with or opening into, use, alter or disturb any public sewer or appurtenance thereof without first obtaining a written permit from the Utilities Commissioner or engineer.

(B) There shall be two classes of new building sewer permits: for residential and commercial service, and for service to establishments producing industrial wastes. In either case, the owner or his or her agent shall make application on a special form furnished by the city. The permit application shall be supplemented by any plans, specifications or other information considered pertinent in the judgment of the Utilities Commissioner or engineer. A permit and inspection fee as set by resolution of the City Commission shall be paid to the city at the time the application is filed. (Ord. 1092, passed 01-18-2022)

(C) All costs and expenses incidental to the installment and connection of the building sewer 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 building sewer.

(D) A separate and independent building sewer shall be provided for every building; except where on building stands at the rear of another on an interior lot and no private sewer is available or can be constructed to the rear building through an adjoining alley, court, yard or driveway, the building sewer from the front building may be extended to the rear building and the whole considered as one building sewer, but the city does not and will not assume any obligation or responsibility for damage caused by or resulting from any such single connection aforementioned.

(E) Old building sewers may be used in connection with new buildings only when they are found, on examination and test by the Superintendent, to meet all requirement of this chapter.

(F) The size, slope, alignment, materials of construction of all sanitary sewers including building sewers, and the methods to be used in excavating, placing the pipe, jointing, testing and backfilling the trench, shall all conform to the requirements of the Building and Plumbing Code or other applicable rules and regulations of the city or the laws and regulations of the state.

(G) Whenever possible, the building sanitary sewer shall be brought to the building at an elevation below the basement floor. In all buildings in which any building drain is too low to permit gravity flow to the public sanitary sewer, sanitary sewage carried by such building drain shall be lifted by an approved means and discharged to the sanitary sewer. All building drain connections to the public sanitary sewer, whether new or replacement construction, shall be equipped with backwater valve(s). Backwater valves shall be installed in accordance with the South Dakota State Plumbing Code, as set forth in ARSD Article 20:54.

(H) No person shall make connection of roof downspouts, foundation drains, areaway drains or other sources of surface runoff or groundwater to building sewer or building drain which in turn is connected directly or indirectly to a public sanitary sewer unless such connection is approved by the Superintendent for purposes of disposal of polluted surface drainage.

(I) The connection of the building sewer into the public sewer shall conform to the requirements of the Building and Plumbing Code or other applicable rules and regulations of the city, or the laws and regulations of the state. All deviation from the prescribed procedures and materials must be approved by the Superintendent before installation.

(J) The applicant for the building sewer permit shall notify the Superintendent when the building sewer is ready for inspection and connection to the public sewer. The connection and testing shall be made under the supervision of the Superintendent or representative.

(K) All excavations for building sewer installation 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.

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(L) All excavations required for the installation of a building sewer shall be by open trench unless otherwise approved by the Superintendent. No backfill shall be placed until the work has been inspected by the Superintendent. Backfill shall be compacted to a density at least equal to that of the adjacent sub-grade.

(M) In the case of work to be done on an existing sewer service line, between the building and the main, a sewer service repair permit shall be filed and a fee as set by resolution of the City Commission paid before any work is done. All work shall be inspected and will follow all other provisions of this chapter.

(Prior Code, ' 13.08.040) (Ord. 1051, passed 4-16-2018) (Ord. 1092, passed 01-18-2022) Penalty, see ' 51.99

### ' 51.05 WASTEWATER (SEWER) HOOKUP FEE.

Any property owner who intends to hook up to a city wastewater (sewer) main shall pay to the city a hookup fee in an amount set by resolution of the City Commission. This hookup fee shall be in addition to any cost recovery fee set forth by separate resolution or ordinance for the installation of the sewer main.

(Prior Code, ' 13.08.045)

### ' 51.06 USE OF PUBLIC SEWERS.

(A) No person shall discharge or cause to be discharged any unpolluted waters such as storm water, surface water, groundwater, roof runoff, subsurface drainage or cooling water to any sewer, except storm water runoff from limited areas, which storm water may be polluted at times, may be discharged to the sanitary sewer by permission of the Superintendent.

(B) Storm water other than that exempted under this section and all other unpolluted drainage shall be discharged to such sewers as are specifically designated as combined sewers or storm sewers, or to a natural outlet approved by the Superintendent and other regulatory agencies. Unpolluted industrial cooling water or process waters may be discharged, on approval of the Superintendent, to a storm sewer, combined sewer or natural outlet.

(C) No person shall discharge or cause to be discharged any of the following described water or wastes to any public sewers:

(1) Any gasoline, benzene, naphtha, fuel oil or other flammable or explosive liquid, solid or gas;

(2) Any waters containing toxic or poisonous solids, liquids or gases in sufficient quantity, either singly or by interaction with other wastes, to contaminate the sludge of any municipal system, to injure or interfere with any sewage treatment process, constitute a hazard to humans or animals, create a public nuisance, or create any hazard in or have an adverse effect on the waters receiving any discharge from the treatment works;

(3) Any waters or wastes having a pH lower than 5.5, or having any other corrosive property capable of causing damage or hazard to structures, equipment and personnel of the wastewater works; and

(4) 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 operation of the wastewater 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 fleshing, entrails and paper dishes, cups, milk containers and the like, either whole or ground by garbage grinders.

(D) The following described substances, materials, waters or waste shall be limited in discharges to municipal systems to concentrations or quantities which will not harm either the sewers, wastewater treatment process or equipment, will not have an adverse effect on the receiving stream, or will not otherwise endanger lives, limb, public property, or constitute a nuisance. The Superintendent may set limitations lower than the limitations established in the regulations below if in his or her opinion such more severe limitations are necessary to meet the above objectives. In forming his or her opinion as to the acceptability, the Superintendent will give consideration to such factors as the quantity of subject waste in relation to flows and velocities in the sewers, materials of construction of the sewers, the wastewater treatment process employed, capacity

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of the wastewater treatment plant, degree of treatability of the waste in the wastewater treatment plant, and other pertinent factors. The limitations or restriction on materials or characteristics of waste or wastewaters discharged to the sanitary sewer which shall not be violated without the approval of the Superintendent are as follows:

- (1) Wastewater having a temperature higher than 150°F (65° C);
- (2) Wastewater containing more than 25 milligrams per liter of petroleum oil, non-biodegradable cutting oils or product of mineral oil origin;
- (3) Wastewater from industrial plants containing floatable oils, fat or grease;
- (4) Any garbage that has not been properly shredded. Garbage grinders may be connected to sanitary sewers from homes, hotels, institutions, restaurants, hospitals, catering establishments or similar places where garbage originates from the preparation of food in kitchens for the purpose of consumption on the premises or when served by caterers;
- (5) Any waters or wastes containing iron, chromium, copper, zinc and similar objectionable or toxic substances to such degree that any such material received in the composite wastewater at the wastewater treatment works exceeds the limits established by the Superintendent for such materials; and
- (6) Any waters or wastes containing odor-producing substances exceeding limits which may be established by the Superintendent.

(E) (1) If any waters or wastes are discharged, or are proposed to be discharged to the public sewers, which waters contain the substances or possess the characteristics enumerated in division (D) above, and which in the judgment of the Superintendent, may have a deleterious effect upon the wastewater facilities, processes, equipment or receiving waters, or which otherwise creates a hazard to life or constitutes a public nuisance, the Superintendent may:

- (a) Reject the wastes;
- (b) Require pretreatment to an acceptable condition for discharge to the public sewers;
- (c) Require control over the quantities and rates of discharge; and/or
- (d) Require payment to cover the added cost of handling and treating the wastes not covered by existing taxes or sewer charges.

(2) When considering the above alternatives the Superintendent shall give consideration to the economic impact of each alternative on the discharger. If the Superintendent permits the pretreatment or equalization of waste flows, the design and installation of the plants and equipment shall be subject to the review and approval of the Superintendent.

(F) Grease, oil and sand interceptors shall be provided when, in the opinion of the Superintendent, they are necessary for the proper handling of liquid wastes containing floatable grease in excessive amounts, or any flammable wastes, sand or other harmful ingredients; except that such interceptors shall not be required for private living quarters or dwelling units. All interceptors shall be of a type and capacity approved by the Superintendent, and shall be located as to be readily and easily accessible for cleaning and inspection. In the maintaining of these interceptors the owner shall be responsible for the proper removal and disposal by appropriate means of the captivated material and shall maintain records of the dates, and means of disposal which are subject to review by the Superintendent. Any removal and hauling of the collected materials not performed by owner=s personnel must be performed by currently licensed waste disposal firms.

(G) Where pretreatment or flow-equalizing facilities are provided or required for any waters or wastes, they shall be maintained continuously in satisfactory and effective operation by the owner at his or her expense.

(H) When required by the Superintendent, the owner of any property serviced by a building sewer carrying industrial

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wastes shall install a suitable structure together with such necessary meters and other appurtenances on the building sewer to facilitate observation, sampling and measurement of the wastes. Such structures, when required, shall be accessibly and safely located, and shall be constructed in accordance with plans approved by the Superintendent. The structure shall be installed by the owner at his or her expense, and shall be maintained by him or her so as to be safe and accessible at all times.

(I) The Superintendent may require a user of sewer services to provide information needed to determine compliance with this chapter. These requirements may include:

- (1) Wastewaters discharge peak rate and volume over a specified time period;
- (2) Chemical analyses of wastewaters;
- (3) Information on raw materials, processes and products affecting wastewater volume and quality;
- (4) Quantity and disposition of specific liquid, sludge, oil, solvent or other materials important to sewer use control;
- (5) A plot plan of sewers of the user=s property showing sewer and pretreatment facility location;
- (6) Details of wastewater pretreatment facilities; and
- (7) Details of systems to prevent and control the losses of materials through spills to the municipal sewer.

(J) All measurements, tests and analyses of the characteristics of waters and wastes to which references are made in this chapter shall be determined in accordance with the latest edition of *Standard Methods for the Examination of Water and Wastewater*, published by the American Public Health Association. Sampling methods, location, times, durations and frequencies are to be determined on an individual basis subject to approval by the Superintendent.

(K) No statement contained in this chapter shall be construed as preventing any special agreement or arrangement between the city and any industrial concern whereby an industrial waste of unusual strength or character may be accepted by the city for treatment.

(Prior Code, ' 13.08.050) Penalty, see ' 51.99

### ' 51.07 PROTECTION FROM DAMAGE.

No person shall maliciously, willfully or negligently break, damage, destroy, uncover, deface or tamper with any structure, appurtenance of equipment which is a part of the wastewater facilities. Any person violating this provision shall be subject to immediate arrest under charge of disorderly conduct.

(Prior Code, ' 13.08.060) Penalty, see ' 51.99

### ' 51.08 POWERS AND AUTHORITY OF INSPECTORS.

(A) The Superintendent 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 pertinent to discharge to the community system in accordance with the provisions of this chapter.

(B) The Superintendent or other duly authorized employees are authorized to obtain information concerning industrial processes which have a direct bearing on the kind and source of discharge to the wastewater collection system. The industry may withhold information considered confidential. The industry must establish that the revelation to the public of the information in question might result in an advantage to competitors.

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(C) While performing the necessary work on private properties referred to above, the Superintendent 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 liabilities claims and demands for personal injury or property damage asserted against the company 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 as required in ' 51.06(H).

(D) The Superintendent 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, measurements, sampling, repair and maintenance of any portion of the wastewater facilities lying within the easement. All entry and subsequent work, if any, on the easement, shall be done in full accordance with the terms of the duly negotiated easement pertaining to the private property involved.

(Prior Code, ' 13.08.070)

### **' 51.99 PENALTY.**

(A) Any person found to be violating any provision of this chapter, except ' 51.06, 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 and shall be fined in an amount not to exceed \$500. The offender shall, within the period of time stated in the notice, permanently cease all violations.

(B) Any person violating any of the provisions of this chapter shall become liable to the city for any expense, loss or damage occasioned the city by reason of such violation.

(Prior Code, ' 13.08.080)