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DISTRICT OF SALMON ARM

BYLAW NO. 1410

A bylaw to regulate connection to sewers in the District of Salmon Arm

WHEREAS it is deemed desirable and expedient to provide for the connection of sewers from houses and other buildings with the *public sewers* of the *District* of Salmon Arm and to regulate same;

NOW THEREFORE the Council of the *District* of Salmon Arm enacts as follows:

1. Definitions

In this bylaw, unless the context otherwise requires:

“*B.O.D*” [denoting Biochemical Oxygen Demand] means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five days at 20° C expressed in parts per million by weight;

“*Building Inspector*” means the person from time to time duly appointed as *Building Inspector* for the *District* of Salmon Arm and shall include any person lawfully acting in that capacity;

“*Combined sewer*” means a public sewer receiving both storm water and *sewage*;

“*District*” means the *District* of salmon Arm;

“*Garbage*” means solid wastes from the preparation, cooking and dispensing of food or from the handling, storage and sale of produce;

“*Natural outlet*” means any outlet into a watercourse, pond, ditch, lake, bay or other body of surface water or into groundwater;

“*pH*” means the logarithm of the reciprocal of the weight of hydrogen ions in grams per litre of solution;

“*Properly ground garbage*” means the waste from the preparation, cooking and dispensing of foods, ground to such a degree that all particles will be carried freely under the flow conditions normally prevailing in *public sewers*;

“*Public sewer*” means a *sewer* which is controlled by the *District* of Salmon Arm and which is intended for public use;

“*Sanitary building sewer* or *Sanitary house sewer*” means the sewer extending from the property line of the property concerned to the building or structure situated thereon and joining the *sewer* connection to the plumbing system at the building;

“*Sanitary sewer*” means a *public sewer* to which storm, surface and ground waters are not intentionally admitted;

“*Sanitary sewer connection* or *Sanitary building sewer extension*” means a *sewer* pipe extending from a *public sewer* to the property line of the property being served or about to be served;

“*Sewage*” means water carried wastes from residences, buildings, business buildings, institutions and industrial establishments, together with such ground, surface and storm waters as may be present or any combination of such wastes and waters and shall include:

- a) “*Industrial Wasters*” meaning the wastes from Industrial processes;
- b) “*Storm Waters*” meaning water resulting from a period of natural precipitation;
- c) “*Sanitary Sewage*” meaning that portion of *sewage* exclusive of Industrial wastes and storm waters;

“*Sewer*” means a pipe or conduit for carrying *sewage*;

“*Storm sewer* or *Storm drain*” means a *public sewer* which carries storm and surface water but excludes *sewage* and polluted industrial waste;

“*Superintendent*” means the person from time to time duly appointed as *Superintendent* of Works for the *District* of Salmon Arm and shall include any person lawfully acting in that capacity;

“*Suspended solids*” means solids that either float on the surface of, or are in suspension in water, *sewage* or other liquids and which are removable by laboratory filtering;

“*Watercourse*” means a channel, ravine, gully or other similar depression in which a flow of water naturally occurs either continuously or intermittently.

2. Metric Units

Metric units are used for all measurements in the bylaw. The approximate equivalent of those units in previously used units of Canada measure are shown in brackets following each metric measurement and such bracketed figures are included for conveniences only.

3. Connection to Sanitary Sewer

Before any connection as herein set forth is made to the *sanitary sewer*, the owner of the real property, or his agent, provided such agent has the written consent of the owner, shall make application to the *District* at the *District* Office, in the form as prescribed by the Clerk, for a permit to connect the plumbing system of the building or structure situate on the said real

property to the *sanitary sewer* and at the time of making such application shall pay to the *District* the designated amount as set out in the Fee for Service Bylaw.

4. Valid Permit

No person shall cause any *sanitary building sewer* to be connected to the *public sewerage* system without a valid permit issued pursuant to Section 3 of this bylaw.

5. District Disapproval

If the *District* disapproves of a proposed connection, the applicant shall be so informed, the reasons for disapproval given, and any fees deposited by the applicant refunded.

6. Tampering or Interfering

No person other than the *District*, its servants, employees, agents, contractors or licencees shall install or cause to be installed any part of the *sewer* connection or in any way break, interfere or tamper with any *public sewer*.

7. Connection Required

The *District* Council or the Local Board of Health may require any owner of real property upon which is situate a building or structure to connect to the *public sewer* in the manner prescribed herein, by mailed notice requiring connection within sixty [60] days of receipt of such notice.

- a) If, after the expiration of the sixty [60] day period aforesaid, the owner or occupant served with such notice has failed or neglected to construct and install a building *sewer* and to connect his buildings or structures with the *public sewer* as required, the *District* may enter upon the subject property and cause the connection to be made.
- b) The costs and expenses incurred by the *District* of installing the building *sewer*, including any costs and expenses incidental thereto, shall be charged against the owner of the subject property and he shall be liable for and responsible to pay such costs and expenses upon demand.
- c) Any such costs and expenses as aforesaid shall form a lien or charge upon the subject property, and in the event said charge is not paid by the 31st day of December of the year in which it is due and payable, the amount of such charge shall be deemed to be taxes in arrears and shall be entered on the tax roll by the Collector as such.

8. Type and Size

- a) All building *sewers* shall be constructed of PVC Gravity *Sewer* Pipe, SDR 28, meeting CSA B182.1 with rubber ring gasket joints or *sewer* pipe material of a quality equivalent to the above specification and approved by the *Building Inspector*.
- b) The internal diameter of building *sewers* and house connections shall be as set out below:

- Any single family residence or structure serving not more than one family - 100 mm [4 inches]
 - Any building or structure serving more than one family but not more than thirty families - 150 mm [6 inches]
 - Any building or structure serving more than thirty families – as specified by the *Building Inspector*.
 - any commercial or industrial building or structure or any other building or structure, as specified by the *Building Inspector*, but in any case not less than 100 mm [4 inches].
- c) The minimum slope of the pipes shall be:
- all 100 mm [4 inch] and 150 mm [6 inch] building *sewers* and house connections, not less than 2 cm per M [$\frac{1}{4}$ " per ft.]
 - all building *sewers* and house connections larger than those set out above, specified by the *Building Inspector*.
- d) No joint of or in a building *sewer* shall allow leakage or infiltration at any time at a greater rate than 4,250 litres per km [1,500 gallons per mile] of *sewer* in twenty-four hours under a maximum head of 1.8 m [6 feet].

9. **Discharge of Sewer**

- a) No person shall discharge into any ditch, drain, creek, stream, *watercourse*, waterway, lake or bay, without first obtaining permission to do so from the *Superintendent*, any sanitary *sewage*, other waters, industrial wastes, petroleum products, coal tar, or any refuse of any kind whatsoever.

- b) Where no *sewer* is available the *Superintendent* may, upon application therefor, grant permission for the discharge to or into any ditch, drain, creek, stream, *watercourse*, waterway, lake or bay, subject to such standards of quality, quantity and rate of discharge as the *Superintendent* may prescribe upon granting his permission aforesaid, of storm water, sanitary *sewage*, industrial wastes or other waters, and subject to the approval of the Ministry of Environment.
- c) Where no appropriate *sewer* is available or where it is considered that the proposed discharge would be injurious to or in any way overload the *sewer* or *sewage* system, an industry shall discharge its wastes into such *natural outlet* or *watercourse* as may be prescribed, subject to such standards of quality, quantity and rate of discharge as may be prescribed by the Ministry of Environment.
- d) In any event the *District* may require any industry to discharge unpolluted cooling water or other unpolluted waters into a *natural outlet* or *watercourse* rather than into a *public sewer*.

10. Discharge into *Sanitary sewer*

- a) No person shall discharge or cause to be discharged into a *sanitary sewer*:
 - ◆ Any storm waters, surface water, groundwater, roof run-off or surface drainage, and not person shall connect to a *sanitary sewer* any roof leaders, foundation drains, field drains, sumps or other collectors of surface or groundwater.
 - ◆ Any industrial cooling water.
 - ◆ Any water from an air-conditioning, cooling or condensing system.
- b) Industrial cooling water which may be polluted with insoluble oils or grease or insoluble *suspended solids* shall be pre-treated for removal of the pollutants and the resultant clear unpolluted waters shall be discharged into a *storm sewer* or an approved *natural outlet* or *watercourse*.
- c) Unpolluted water from air-conditioning, cooling or condensing systems, or from any swimming pool, shall be discharged into a *storm sewer* or an approved *natural outlet* or *watercourse*.

11. Obstructing Substances

No person shall discharge, deposit or throw or cause, allow or permit to be discharged, deposited or thrown into any *public sewer*, plumbing fixtures connected thereto, drain, manhole, culvert, or catch-basin, or into any building seer any substance of any kind whatsoever tending to obstruct or injure the *sewerage* works or cause a nuisance, or which will in any manner interfere with the proper repairs or maintenance of the *sewerage* works or which will in any way render it difficult for any workman to repair the *sewerage* works.

12. Discharge into Sewer

a) Subject to Section 14, no person shall discharge or cause to be discharged into any *public sewer* any of the following *sewage* or wastes:

- ◆ any liquid or vapour having a temperature higher than 65° Celsius [150° Fahrenheit];
- ◆ without limiting the generality of this section, the concentration of the following toxic substances at the point of discharge to a *public sewer*, shall not exceed:

Arsenic	1.0 milligrams per litre
Cadmium	1.0 milligrams per litre
Chromium [Total]	5.0 milligrams per litre
Copper	2.0 milligrams per litre
Cyanide	1.0 milligrams per litre
Iron	10.0 milligrams per litre
Lead	2.0 milligrams per litre
Nickel	3.0 milligrams per litre
PHenols & Cresols	1.0 milligrams per litre
Zinc	4.0 milligrams per litre

- ◆ any gasoline, benzine, naphtha, fuel oil or other inflammable or explosive liquid, solid or gas;
- ◆ any *Garbage* except *properly ground garbage*;
- ◆ any ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, coal tar, asphalt, cement, plastics, wood, paunch manure, or an other solids or viscous substance capable of causing obstruction t the flow in *sewers* or other interference with the proper operation of the *sewage* works;

- ◆ any waters, *sewage* or wastes having a *pH* factor lower than 5.5 or higher than 9.5 or having any other corrosive property capable of causing damage or hazard to structures, equipment, or personnel engaged in the operation or maintenance of the *sewage* works;
- ◆ any *sewage*, waters or wastes containing a toxic or poisonous substance in sufficient quantity to inure or interfere with any *sewage* treatment process, or constitute a hazard to humans or animals, or create any hazard in the receiving waters of the effluent from the *sewerage* works or *sewage* treatment plant;
- ◆ any waters, *sewage* or wastes containing dissolved or *suspended solids* of such character and quantity that any abnormal attention or expense would be required in the treating of such *sewage*;
- ◆ any waters, *sewage* or wastes having a *B.O.D.* greater than 500 parts per million by weight;
- ◆ any waters, *sewage* or wastes containing more than 600 parts per million by weight of *suspended solids* except *properly ground garbage* permitted as above noted;
- ◆ any radioactive wastes or *sewage*;
- ◆ any water or waste that will by itself or with other water or wastes in the *sewer* system, release obnoxious gases; or develop colour of undesirable intensity; or form *suspended solids* in objectionable concentration; or
- ◆ water or wastes containing substance in such concentration that they are not amenable to treatment or reduction by the *sewage* treatment processes employed, or are amenable to treatment only to such a degree that the *sewage* treatment plant effluent cannot meet the requirements of any other agency having jurisdiction over discharges to the receiving waters.

13. Permits for Connection

- a) Where there exists the possibility that there may be discharged into a public *sewer* from any premises any of the wastes, *sewage* or substances described above, the *District* may issue a permit for the connection of such premises to a *public sewer* if protective devices satisfactory to the *Superintendent* have been installed by the applicant to prevent the discharge of such wastes, *sewage* or substances.

- b) Any building *sewer* connected to a *public sewer* or *sewer* connection without a permit therefor or any building *sewer* depositing into a *public sewer* or into a *sewer* connection thence to app *public sewer* any *sewage*, substance or matter prohibited by this bylaw may be disconnected stopped up and closed.

14. Mechanically or Electrically Operated *Garbage* Grinder

- ◆ Every mechanically or electrically operated household or commercial *Garbage* grinder shall be so designed and installed that it shall:
- ◆ operate with cold water flowing into the grinder and through the sink drain in such manner as to congeal and aerate the solid and liquid grass within the grinding unit;
- ◆ discharge wastes at a reasonably uniform rate in fluid form which shall flow readily through an approved trap, drain line or soil line in a manner which prevents clogging or stoppage of the drain line;
- ◆ be of such construction and have such operating characteristics that not more than 5% by weight of all material discharged from it shall have any dimension larger than 6 mm [$\frac{1}{4}$ inch] and no particle shall have any dimension greater than 12 mm [$\frac{1}{2}$ inch]. Weight shall be determined on a dry basis;
- ◆ be self-scouring with no fouling surface to cause objectionable odours;
- ◆ be free from electrical or mechanical hazards and adequately protect the user against injury during operation, and free from cross connection to any water pipe; and
- ◆ comply in all particulars with all relevant Municipal Bylaws and regulations pertaining thereto.

15. Industrial Enterprise or Premises

The owner of any Industrial enterprise or premises connected to a *public sewer* shall provide suitable means of inspection to facilitate observation, sampling and measurement of the wastes or *sewage* emanating therefrom.

16. Sewer Connected to Storm sewer

Every building *sewer* connected to a *storm sewer* shall include within the building or structure or in an approved location outside the building the installation of a standard sump and backwater valve installed and designed to the specifications and satisfaction of the *Building Inspector*. The *Superintendent* may dispense with the necessity of a backwater valve where he is of the opinion that the property lies at such an elevation that there would be no danger of flooding of the property as a result of surcharge or back up on the *storm sewer*.

17. Damage to Public sewer

No person shall maliciously, willfully or negligently break, damage, destroy, uncover, deface or tamper with any *public sewer* or appurtenances thereto or thereunto belonging.

18. Authority to Enter

The *Superintendent* and any person under his authority is hereby authorized and empowered to enter at all reasonable times upon any property in order to ascertain whether the provisions of this bylaw are being carried out and for such purpose to enter upon such property in order to:

- ◆ determine the size, depth, location and condition of any *sewer*, building *sewer* and all connections made and utilized therewith;
- ◆ determine the location and method and place of discharge of roof and surface drains and plumbing fixtures; and
- ◆ inspect, observe, measure, sample and test the quantity and nature of *sewage* being discharged into any *public sewer*, *natural outlet* or *watercourse*.

19. Offences

Any person contravening or committing any breach of or committing any offence against any of the provisions of this bylaw or who suffers or permits any act or thing to be done in contravention or in violation of any of the provisions of this bylaw or who refuses, omits or neglects to fulfill, observe, carry out or perform any duty, obligation, matter or thing whatsoever by this bylaw prescribed or imposed or required to be done is liable, on conviction, to a fine not exceeding Five Hundred Dollars [\$500.00] or to a term of imprisonment not exceeding six [6] months, or both; and each day during which any violation, contravention or breach shall continue shall be deemed a separate offence.

20. Repeals Bylaws

“Salmon Arm *Sewer* Connection Bylaw, 1976”, No. 1175 and “*Sewer* Connection Charge Bylaw amendment Bylaw, 1981”, No. 1401 are hereby rescinded.

21. Effective Date

This bylaw is in force on and from the first day of January, 1982.

22. Citation

This bylaw may be cited as "***Sewer Connection Bylaw, 1981***".

READ A FIRST TIME THIS 30th DAY OF November 1981.

READ A SECOND TIME THIS 30th DAY OF November 1981.

READ A THIRD TIME THIS 30th DAY OF November 19981

RECONSIDERED, FINALLY PASSED AND ADOPTED BY COUNCIL THIS 14th DAY
OF December 1981.

"Margaret Lund"

MAYOR

"C.H. Simmons"

CLERK

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