

**VILLAGE OF LOUGHEED
WASTEWATER DISPOSAL BYLAW
BYLAW NO. 721/12
PROVINCE OF ALBERTA**

A BYLAW TO REGULATE THE WASTEWATER ACCEPTED BY THE VILLAGE OF LOUGHEED FOR DISPOSAL IN THE VILLAGE OF LOUGHEED WASTEWATER SYSTEM AND/OR LAGOON FACILITY.

WHEREAS, pursuant to the *Municipal Government Act, R.S.A. 2000, Chapter M-26* (hereinafter called the "Act") as amended, a Municipal Council has authority to govern and the authority to pass Bylaws respecting the municipality, including wastewater disposal from third parties into the municipal wastewater system(s).

AND WHEREAS, the Municipal Council deems it appropriate to enact a Bylaw for Wastewater Disposal from third parties into the Village of Lougheed's wastewater system(s).

NOW THEREFORE the Council of the Village of Lougheed, duly assembled, enacts the following:

1. TITLE

This Bylaw will be called the "Wastewater Disposal Bylaw."

2. DEFINITIONS

- a) "Additional Overstrength Surcharge" means the rate per kilogram per cubic meter of water consumed and charged to a user who releases wastewater to the sewer that exceeds one or more constituent concentrations set out in Column B of Schedule "C".
- b) "Biochemical Oxygen Demand (BOD)" means the five-day BOD which is the determination of the molecular oxygen utilized during a five-day incubation period for the biochemical degradation of organic material (carbonaceous demand), and the oxygen used to oxidize inorganic material such as sulphides and ferrous iron, and the amount of oxygen used to oxidize reduced forms of nitrogen (nitrogenous demand) as determined by the appropriate procedure in Standard Methods.
- c) "Composite Sample" means a volume of wastewater, storm water, uncontaminated water, clear-water or effluent made up of three or more grab samples that have been combined automatically or manually and taken at intervals during a sampling period.
- d) "Domestic Water" means waste produced on residential premises, or wastewater from facilities produced on a non-residential property.
- e) "Grab Sample" means volume of wastewater, storm water, uncontaminated water or effluent which is collected over a period not exceeding 15 minutes.
- f) "Hauled Wastewater/ Waste" means any waste which is transported to and deposited into any location in the wastewater work, including waste removed from a residential



wastewater system (cesspool, septic tank system, privy vault or privy pit, chemical toilet, portable toilet or wastewater holding tank.)

- g) "Hazardous Substances" means any substance or mixture of substances, other than a pesticide, that exhibits characteristics of flammability, corrosively, reactivity or toxicity. Any substance that is designated as a hazardous substance within the meaning to *The Federal Hazardous Products Act* and the pursuant *Controlled Products Bylaw*, as amended from time to time.
- h) "Hazardous Waste" means any Hazardous Substance disposed of as waste.
- i) "Industrial" means of or pertaining to manufacturing, commerce, trade, business or institutions as distinguished from domestic or residential.
- j) "Industry" means any owner or operator of industrial, commercial or institutional premises from which there is a discharge of any matter directly or indirectly into the wastewater works, combined sewer or storm sewer of a municipality.
- k) "Institution" means a facility, usually owned by a government, operated for public purposes, such as schools, universities, medical facilities (hospitals, nursing stations, nursing homes). Some of these facilities produce non-residential discharges to sewers from, for example, laboratories, chemical use, or industrial processes.
- l) "Non-Domestic Wastewater" means all Wastewater except Domestic Wastewater, Uncontaminated Water, and Septic Tank Waste.
- m) "Overstrength" means wastewater released to the sewer that is higher in concentration for one or more constituent concentrations set out in Column A of Schedule "C"
- n) "Prohibited Waste" means prohibited waste as defined in Schedule "A" of this Bylaw.
- o) "Overstrength Surcharge" means the rate per kilogram per cubic meter of water consumed and charged to a user who releases wastewater to the sewer that exceeds one or more constituents set out in Column A of Schedule "C".
- p) "Restricted Waste" means restricted waste as defined in Schedule "B" of this Bylaw.
- q) "Standard Methods" means a procedure or method set out in *Standard Methods for the Examination of Water and Wastewater* published jointly by the American Public Health Association, American Water Works Association and the Water Environment Federation.
- r) "Total Suspended Solids (TSS)" means insoluble matter in liquid that is removable by filtrations, as determined by the appropriate procedure described in Standard Methods.
- s) "Application for Wastewater Disposal" means a permit issued by the Village of Loughheed which will govern the discharge of non-domestic waste and hauled wastewater to a sewer.
- t) "Wastewater Works" means any works for the collection, transmission, treatment and disposal of wastewater, or any part of such works, but does not include plumbing or other works to which the applicable Building Code applies. Wastewater works, and sewer in this Bylaw refer to the Works owned by the Village of Loughheed.



3. SECTION 1 – WASTEWATER WORKS REQUIREMENTS

3.1 No person shall release, or permit the release of, any matter into the wastewater works except:

- a) Domestic wastewater;
- b) Non-domestic wastewater that complies with the requirements of this Bylaw;
- c) Hauled wastewater, that complies with the requirements of this Bylaw, or where an Application for Wastewater Disposal has been issued by the Village of Lougheed;
- d) Storm water, clear-water waste, subsurface water or other matter where a Application for Wastewater Disposal has been issued by the Village of Lougheed.

3.2 No person shall release, or permit the release of, any prohibited substance listed in Schedule "A" of this Bylaw into the wastewater works.

3.3 No person shall discharge, cause or permit to be discharged into any wastewater system:

- a) Dangerous goods;
- b) Ashes, cinders, sand, potters clay, cement, mud, straw, shavings, metal, glass, rags, feathers, tar, plastic, paint, wood, or other solid or viscous substance capable of causing obstruction, or other interference with, the operation of the sewage works;
- c) Water, or wastes having pH lower than 5.5 or higher than 10.0, or having any corrosive property capable of causing damage or hazard to structures, equipment, biological wastewater treatment processes and personnel of, the wastewater works;
- d) Lime slurry and residues;
- e) Any substance which, in the opinion of the Public Works Superintendent,
 - i. Is or may become harmful to any recipient water course or wastewater works or part thereof;
 - ii. May interfere with the proper operation of the wastewater works;
 - iii. May impair or interfere with any wastewater treatment process, or
 - iv. May become hazardous to persons, property or animals.

3.4 Grease ,oil and sand interceptors will be required for businesses when, in the opinion of the Public Works Superintendent, they are necessary for the proper handling of wastewater containing grease in excessive amounts, or any flammable wastes, sand and other harmful ingredients.

3.5 All interceptors shall of a type and capacity approved by the Village and shall be so located as to be readily and easily accessible for cleaning and inspection and shall be maintained by the owner at his expense in continuously efficient operation at all times.

3.6 Should any blockage, either wholly or in part, of the sewage works be caused by reason of failure, omission, or neglect of a customer, or owner of property, to comply strictly with the provisions of this bylaw, the customer or owner shall, in addition to any penalty for infraction of this bylaw, be liable to and shall on demand pay the Village for all costs of clearing such blockage as determined pursuant to Master Rates Bylaw and for any other amount for which the Village may be held legally liable because of such blockage.



- 3.7 Any person who contravenes any of the provisions of Section 3.4 shall, in addition to any penalty for infraction of this bylaw, be liable to and shall pay on demand to the Village all costs of cleaning up and removing any of the materials listed in Section 3.4 and removing and cleaning up a contamination resulting from the discharging of any such materials into the wastewater works, and for any other amount for which the Village may be held legally liable because of such contamination.
- 3.8 The Village of Loughheed may issue, and amend, a Application for Wastewater Disposal to allow the discharge of non-domestic waste and hauled wastewater into a sewer upon such terms and conditions as the Village of Loughheed considers appropriate and, without limiting the generality of the foregoing:
- a) Place limits and restriction on the quantity, composition, frequency and nature of the waste permitted to be discharged; and
 - b) Require the holder of an Application for Wastewater Disposal to repair, alter, remove, add to, or construct new pretreatment works; and
 - c) Provide that the Application for Wastewater Disposal will expire on a specified date, or upon the occurrence of a specified event.
- 3.9 The Village of Loughheed may amend or cancel a Discharge Abatement Order.
- 3.10 No person shall release or permit the release of any restricted substance which exceeds the respective concentration listed in Schedule "B" of this Bylaw into the wastewater works.

4. SECTION 2 – PROHIBITION OF DILUTION

- 4.1 No person shall discharge directly or indirectly, or permit the discharge or deposit of wastewater into the wastewater works where water has been added to the discharge for the purposes of dilution to achieve compliance with Schedule "A" or Schedule "B" of this Bylaw.

5. SECTION 3 – SAMPLING

- 5.1 Where sampling is required for the purposes of determining the concentration of constituents in the wastewater, the sample may:
- a) Be collected manually or by using an automatic sampling device.
 - b) Contain additives for its preservation.
- 5.2 For the purpose of determining compliance with Schedules A, B, or C, discrete wastewater streams within premises may be sampled at the discretion of the Village of Loughheed.
- 5.3 All tests, measurements, analyses and examinations of wastewater, its characteristics or contents pursuant to this Bylaw shall be carried out in accordance with "Standard Methods" or to the satisfaction of the Village of Loughheed as agreed in writing prior to sample analysis.
- 5.4 All sampling must comply with current Alberta Environment Acts and Regulations.



6. SECTION 4 – DISCHARGER SELF MONITORING

- 6.1 The discharger shall complete any monitoring or sampling of any discharge to a wastewater works as required by the Village of Loughheed, and provide the results to the Village of Loughheed in the form specified by the Village of Loughheed.
- 6.2 The obligations set out in or arising out of 6.1 shall be completed at the expense of the discharger.

7 SECTION 5 – ADDITIONAL REQUIREMENTS

7.1 Sediment Interceptor

- a) Every owner or operator of the premises from which sediment may directly or indirectly enter the wastewater system, including but not limited to premises using a ramp drain or area drain and vehicle wash establishments, shall take all necessary measures to ensure that such sediment is prevented from entering the wastewater system in excess of the limits in this Bylaw.

8 SECTION 6 – HAULED WASTEWATER/ WASTE

- 8.1 No person shall discharge hauled wastewater/ waste to the wastewater works unless:
 - a) The carrier of the hauled wastewater/ waste operating as a waste management system is certified according to all applicable federal and provincial legislation.
 - b) The carrier meets all conditions for discharge that are or may be set from time to time with respect to the haulage of wastewater/ waste by the Village of Loughheed.
 - c) No person shall discharge or permit the discharge of hauled wastewater/ waste at a location other than a hauled wastewater/ waste discharge location approved by the Village of Loughheed.
 - d) The carrier shall have approval from Village of Loughheed Public Works or Village Chief Administrative Officer or designate.

9 SECTION 7 – AUTHORITY OF CHIEF ADMINISTRATIVE OFFICER

- 9.1 Notwithstanding the requirements of this Bylaw, the Chief Administrative Officer or Designate for the Village of Loughheed may prohibit or set discharge concentrations and/or limit the loading rate for any other material or substance not included in the Bylaw Schedules where required to protect wastewater facilities or processes, meet effluent standards or other legislated requirements, or control biosolids quality.

10 SECTION 8 – ACCESS TO INFORMATION

- 10.1 All information submitted to and collected by the Village of Loughheed that is contained in plan summaries, reports, surveys, monitoring and inspection and sampling activities will, except as otherwise provided in this section, be available for disclosure to the public in accordance with the Freedom of Information and Protection of Privacy Act.



11 SECTION 9 – MONITORING ACCESS POINTS

11.1 The owner or operator of commercial, institutional or industrial premises shall install and maintain in good repair in each connection a suitable monitoring access point to all observation, sampling and flow measurement of the wastewater, uncontaminated water or storm water therein, provided that, where installation of a monitoring access point is not possible, an alternate device or facility may be substituted with the prior written approval of the Village of Lougheed.

12 SECTION 10 – OVERSTRENGTH DISCHARGE

- 12.1 The Village of Lougheed may assess Overstrength and Additional Overstrength Surcharges for wastewater releases that exceed the limits of treatable parameters set out in Schedule “C”
- 12.2 Overstrength and Additional Overstrength Surcharges are assessed to the Group, Organization, Company where the discharge originates.
- 12.3 Testing of the wastewater must be conducted to the satisfaction of the Village of Lougheed.
- 12.4 The Overstrength and Additional Overstrength Surcharge rates will be reviewed and adjusted accordingly from time to time as determined by the Village of Lougheed.

13 SECTION 11 – PENALTIES

13.1 Refer to the Master Rates Bylaw 720/12.

This Bylaw shall not supersede any laws set out by federal or provincial bodies.

This Bylaw shall have force and take effect on the final reading thereof.

READ a first time this 8th day of February, A.D. 2012

READ a second time this 8th day of March, A.D. 2012

READ a third time this 8th day of March, A.D. 2012



Debra Smith, CEO (Mayor)



Alan Parkin, CAO

SCHEDULE "A" PROHIBITED WASTES

No person shall discharge directly or indirectly or deposit or cause or permit the discharge or deposit of wastewater into the wastewater works or municipal or private sewer connection, to any wastewater works in circumstances where:

1. To do so may cause or result in:
 - a) A health or safety hazard to a person authorized by the Village of Lougheed or worker from group, organization or company to inspect, operate, maintain, repair or otherwise work on a wastewater works;
 - b) An offence under any applicable federal or provincial environmental protection or water resource legislation, as amended from time to time, or any regulation made thereunder from time to time;
 - c) Wastewater sludge from the wastewater treatment facility works, to which either wastewater discharges, directly or indirectly, fail to meet the objectives and criteria as listed in any applicable federal or provincial environmental protection or water resources legislation, as amended from time to time;
 - d) Interference with the operation or maintenance of wastewater works, or which may impair or interfere with any wastewater treatment process;
 - e) A hazard to any person, animal, property or vegetation;
 - f) An offensive odour to emanate from wastewater works, and without limiting the generality of the foregoing, wastewater containing hydrogen sulphide, carbon disulphide, other reduced sulphur compounds, amines or ammonia in such quantity as may cause an offensive odour;
 - g) Damage to wastewater works;
 - h) An obstruction or restriction to the flow in wastewater works;
 - i) Interfere with the operation of wastewater collection and retention system. This will include grease and oil.
2. The wastewater has two or more separate liquid layers.
3. The wastewater contains:
 - a) Hazardous substances;
 - b) Combustible liquid;
 - c) Biomedical waste, including any of the following categories: human anatomical waste, animal waste, untreated microbiological waste, waste sharps and untreated human blood and body fluids known to contain viruses and agents listed in "Risk Group 4" as defined in "*Laboratory Biosafety Guidelines*" published by Health Canada dated 2004, as amended;
 - d) Specified risk material for bovine spongiform encephalopathy as defined in the federal Fertilizers Regulation (C.R.C., c 666), as amended from time to time, including material from the skull, brain, trigeminal ganglia, eyes, tonsils, spinal cords and dorsal root ganglia of cattle aged 30 months or older, or material from the distal ileum of cattle of all ages;



- e) Dyes or colouring materials which may or could pass through a wastewater works and discolour the wastewater works effluent;
 - f) Oil, Fuel and Fuel Oils;
 - g) Ignitable waste;
 - h) Pathological waste;
 - i) PCB's
 - j) Pesticides which are not otherwise regulated in this Bylaw;
 - k) Reactive waste;
 - l) Toxic substances which are not otherwise regulated in this Bylaw;
 - m) Waste radioactive substances in excess of concentrations greater than those specified for release to the environment under the *Nuclear Safety and Control Act and Regulations* or amended versions thereof;
 - n) Solid or viscous substances in quantities or of such size to be capable of causing obstruction to the flow in a sewer, including but not limited to ashes, bones, cinders, sand, mud, soil, straw, shaving, metal, glass, rags, feathers, tar, plastics, wood, underground garbage, animal parts or tissues, and paunch manure.
4. The wastewater contains a concentration, expressed in milligrams per litre, in excess of any one or more of the limits in Schedule "B" of this Bylaw, unless:
- a) The discharge is in accordance with a valid Wastewater Discharge Application, and
 - b) All requirements of Section 5 of the Bylaw, Additional Requirements have been fully satisfied.

SCHEDULE "B" RESTRICTED WASTES

The following are designated as Restricted Wastes when presented in wastewater at a concentration below the levels set out below, with concentrations being expressed as total concentrations unless specified otherwise:

1.

Table A – CONVENTIONAL CONTAMINANTS

Substance	Concentration Limit (mg/L)
Biochemical Oxygen Demand	10,000
Chemical Oxygen Demand	20,000
Oil and Grease	800
Total Suspended Solids	5,000
Total Kjeldahl Nitrogen	500
Phosphorus	100

Table B – INORGANIC CONTAMINANTS

Substance	Concentration Limit (mg/L)
Arsenic (As)	1.0
Cadmium (Cd)	0.10
Chlorine (free) (Cl ₂)	5.0
Chromium (Hexavalent) (Cr+6)	2.0
Chromium (total) (Cr)	4.0
Cobalt (Co)	5.0
Copper (Cu)	1.0
Cyanide (CN)	1.0
Lead (Pb)	0.7
Mercury (Hg)	0.01
Molybdenum (Mo)	5.0
Nickel (Ni)	2.0
Silver (Ag)	0.5
Sulphide (S=)	1.0
Thalium (Tl)	1.0
Zinc (Zn)	2.0

Table C – ORGANIC CONTAMINANTS

Substance	Concentration Limits (mg/L)
Hydrocarbons	50
Phenols	1.0

Table D – PHYSICAL PARAMETERS

Property	Restricted
pH	Less than 6.0 or greater than 11.5
Temperature	Greater than 75 degrees Celsius

2. Concentrations that do not exceed the constituent concentrations limits listed in Schedule “B” are permitted for discharge, however may be subject to an Overstrength Surcharge outlined in Schedule “C”.

SCHEDULE “C” WASTEWATER OVERSTRENGTH LIMITS

	Column A	Column B
Substance	Overstrength Surcharge Concentration Limits (mg/L)	Additional Overstrength Concentration Limits (mg/L)
Biochemical Oxygen Demand (BOD)	300	3000
Chemical Oxygen Demand (COD)	600	6000
Oil and Grease (O&G)	100	400
Total Suspended Solids (TSS)	300	3000
Total Kjeldahl Nitrogen (TKN)	50	200
Total Phosphorus (TP)	10	75

