

**REGIONAL DISTRICT OF CENTRAL OKANAGAN  
WESTSIDE SEWER SYSTEMS  
BYLAW NO. 1315**

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A bylaw to establish regulations under which sanitary sewer trunk collection and treatment will be provided and to establish fees and charges for the service, within the service area boundary of the Westside Regional Wastewater Treatment Plant

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WHEREAS it is deemed necessary to establish regulations and fees and charges for the administration, sustainability, operation, and maintenance of the Westside sewer systems and the terms and conditions upon which sewer will be provided;

NOW THEREFORE, THE REGIONAL BOARD OF THE REGIONAL DISTRICT OF CENTRAL OKANAGAN, IN OPEN MEETING ASSEMBLED, ENACTS AS FOLLOWS:

**SECTION 1 TITLE**

1.1 This bylaw may be cited as the “Regional District of Central Okanagan Westside Sewer Systems Bylaw No. 1315, 2012”.

**SECTION 2 PURPOSE**

2.1 The purpose of this Bylaw is to establish regulations, fees and charges for the administration, operation and maintenance of the Westside Regional Wastewater Treatment Plant and Regional District Trunks Sewer Collection System. The intent and objective of this Bylaw is to:

- (a) Protect the sewer collection system from corrosion, other damage and obstruction,
- (b) Protect the wastewater treatment process from upset,
- (c) Protect the public, Regional District workers, and property from hazardous conditions,
- (d) Assist optimum wastewater system efficiency by preventing uncontaminated water from entering the system,

- (e) Protect wastewater sludge quality,
- (f) Protect the environment from contaminants that are not removed by the public treatment system(s),
- (g) Assist the Regional District in maintaining compliance with the operating conditions established by the Province of British Columbia.

### **SECTION 3 APPLICATION**

- 3.1 This bylaw shall apply to all service recipients of the Westside Regional Wastewater Treatment Plant.

### **SECTION 4 INTERPRETATION**

#### 4.1 Severability

- 4.1.1 If any section, subsection, sentence, clause or phrase of this bylaw is deemed to be invalid by the decision of any court of competent jurisdiction, the invalid portion shall be severed and the decision that it is invalid shall not affect the validity of the remainder of the bylaw.

#### 4.2 Masculine / Singular

- 4.2.1 Wherever the masculine is used throughout this bylaw, it shall also mean the feminine, and wherever the singular is used throughout this bylaw, it shall also mean the plural.

#### 4.3 Schedules / Appendices

- 4.3.1 SCHEDULES A and B and APPENDIX I are attached to and form part of this bylaw.

#### 4.4 Headings

- 4.4.1 Headings are for reference purposes and shall not affect in any way the meaning or interpretation of the provisions of this bylaw.

#### 4.5 Other Legislated Requirements

- 4.5.1 No person shall enter into or work upon the sanitary sewer system without meeting the applicable confined space entry, street regulations, or other safety requirements, required by the Workers' Compensation Act.
- 4.5.2 Nothing in this bylaw relieves any person or organization from complying with any provision of any Federal or Provincial legislation, or any other bylaw of the Regional District. Where there is a conflict of regulations, the more stringent shall apply.

## SECTION 5 DEFINITIONS

5.1 In this bylaw:

“*B.O.D.*” stands for “biochemical oxygen demand” and means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory conditions in five (5) days at 20° C, expressed in milligrams per liter as determined by the appropriate procedure in Standard Methods.

“*C.O.D.*” stands for “chemical oxygen demand” and means the measure of the oxygen consuming capacity of inorganic and organic matter present in domestic or industrial wastewater as determined by the appropriate procedure described in Standard Methods.

“*community sewer system*” means any sewerage works or appurtenances thereto which are owned and operated by the local governing authority.

“*cooling water*” means untreated water originating from heat exchangers or similar type units.

“*design flow*” means the sewage flow as calculated, in accordance with the Health Act, by the Owner’s consultant and as approved by the Regional District.

“*domestic wastewater*” means the wastewater resulting from normal human living processes and not from commercial or industrial activities.

“*engineer*” means a person who is registered, or duly licensed as such, under the Engineers and Geoscientists Act of British Columbia.

“*extraneous flows*” means water originating from rainwater, snow melt, ground water, roof drain water, foundation drain water, subsurface drainage, surface water, single pass cooling water, condensate, or storm water.

“*flammable liquid*” means any liquid having a flash point below 38 ° C and having a vapour pressure not exceeding 280 kPa at 38 ° C.

“*garbage*” means solid wastes from domestic or commercial preparation, cooking, and dispensing of food, and from the handling, storage, and sale of produce.

“*grab sample*” means a single sample of a wastewater stream or discharge that represents the composition of the wastewater at the particular time and location at which the sample was collected.

“*grease*” means an organic substance recoverable by procedures set forth in Standard Methods and includes but is not limited to hydrocarbons, esters, fats, oils, waxes, and high molecular weight carboxylic acids.

“*industrial wastewater*” means any wastewater except domestic wastewater.

“*Manager*” means the *Regional District’s* Manager of Public Works, or designate, who oversee the day-to-day operation of the sanitary sewer system, and administer this bylaw.

“*offal*” means waste portions of food, animals, fowl, or fish.

“*one day composite sample*” means a composite sample comprised of flow proportioned samples collected at one hour intervals over the duration of one operating day.

“*Owner*” shall be interpreted as defined in the Local Government Act as amended from time to time.

“*parcel*” means any lot, block, or other area in which land is held or into which land is subdivided but does not include a highway.

“*premises*” means any residence, building, or structure located on a property.

“*pesticide*” means an organism or material that is represented, sold, used, or intended to be used, to prevent, destroy, repel, or mitigate a pest and includes:

- (a) a plant growth regulator, plant defoliator, or plant desiccant; and
- (b) a control product, other than a device that is a control product under the Pest Control Products Act (Canada).

“*pH*” means logarithm, to the base 10, of the reciprocal of the concentration of Hydrogen ions in moles per liter of solution.

“*Plumbing Code*” means any regulation made by the Lieutenant Governor of the Province of British Columbia, in accordance with the Local Government Act.

“*pre-treatment*” means the use of any physical and/or chemical process to ensure the composition of the effluent conforms to the minimum requirements of this bylaw.

“*Regional Board*” means the elected Board of the Regional District of Central Okanagan.

“*Regional District*” means the Regional District of Central Okanagan as described in Letters Patent and amendments thereto.

“*sanitary sewer system*” means any sewerage works or appurtenances thereto which are owned and operated by the Regional District.

“*septic tank*” means any device or structure designed for the temporary storage of wastewater.

“*service connection*” means the pipe which is located at the property line of a parcel, or at the edge of a statutory right of way, and is provided to connect the wastewater drainage system to the sanitary sewer system.

“*sewage treatment plant*” means any arrangement of devices and structures used for treating wastewater.

“*Special Waste*” means a substance that is defined as Special Waste as interpreted by the Waste Management Act.

“*Standard Methods*” means the Standard Methods of Water and Wastewater Analysis (most current edition) as published by the American Public Health Association, the American Water Works Association, the Canadian Standards Association, and the Water Pollution Control Federation.

“*Subdivision Bylaw*” means a bylaw adopted by the Regional District under Section 938 of the Local Government Act.

“*suspended solids*” means the solid matter according to particle size, expressed in milligrams per liter, in a liquid as determined according to Standard Methods.

“*two hour composite sample*” means a composite sample consisting of equal portions of 8 Grab Samples collected at 15 minute intervals.

“*uncontaminated wastewater*” means water such as spent cooling water, de-chlorinated water discharged from a swimming pool, and water used in street cleaning.

“*user fee*” means a fee imposed for the use of the sanitary sewage system.

“*wastewater*” means the water-borne wastes of the Regional District derived from human or industrial sources including domestic wastewater and industrial wastewater, but does not include storm water and uncontaminated wastewater.

“*wastewater drainage system*” means an assembly of pipes, fittings, fixtures, traps, and appurtenances, not owned by the Regional District, that is used to convey wastewater to a service connection.

“*watercourse*” means:

- (a) the bed and shore of a river, stream, lake, creek, lagoon, swamp, marsh or other natural body of water; or
- (b) a channel, ditch, reservoir or other man-made surface feature, whether containing or conveying water continuously or intermittently.

5.2 Unless otherwise defined herein, all words or expressions used in this bylaw shall have the same meaning assigned to them as like words or expressions contained in the Local Government Act, Interpretation Act, Building Bylaw, Zoning Bylaw, Subdivision Bylaw, Water Systems Bylaw, and the Plumbing Code.

## **SECTION 6 GENERAL TERMS AND CONDITIONS**

### 6.1 Compliance with Bylaw

6.1.1 Except in accordance with the provisions of this bylaw, no person shall:

- (a) connect a wastewater drainage system to the sanitary sewer system, or
- (b) permit any direct or indirect discharge of any wastewater into the sanitary sewer system.

6.1.2 Should any person contravene the provisions of this bylaw, and in such contravention causes or may cause damage to the sanitary sewer system, the Regional District shall make any repairs and take whatever remedial action necessary to limit the extent of the damage and shall recover the cost from the owner pursuant to this bylaw.

## 6.2 Ownership of the System

6.2.1 The sanitary sewer system, its operation, maintenance, repair and replacement shall be under the direction and control of the Manager.

6.2.2 All sewer pipes, connections, appurtenances, or facilities required to operate the sanitary sewer system servicing more than one community sewer system shall be owned by the Regional District. This includes but is not limited to, all works that are located within a highway or a statutory right of way, regardless whether the works were constructed at the expense of the Owner or the Regional District.

## 6.3 Duty of Care and Cause of Action

6.3.1 This bylaw does not create any duty at law on the part of the Regional District, its Board, officers, employees, or other representatives concerning anything contained in this bylaw. All works, services, improvements, and all matters required pursuant to this bylaw are the responsibility of the Owner and Applicant and all persons acting on their behalf. No approval of any kind, certificate, permit, review, inspection, or other act or omission by the Regional District or any of its representatives, including any enforcement or lack of enforcement of the provisions of this bylaw, shall relieve the Owner and Applicant and all persons acting on their behalf from this duty pursuant to this bylaw and shall not create any cause of action in favour of any person.

## 6.4 Limitation of Liability

6.4.1 Sanitary sewer service is provided on the condition that the Owner make no claim against the Regional District, its Board or its officers, agents, and employees acting within the scope of their employment. It is further a condition that the Owner shall make no claim for any indirect, incidental, or consequential damage.

## 6.5 Indemnification

6.5.1 Sanitary sewer service is provided on the condition that the Owner indemnify and save harmless the Regional District, its Board or its officers, agents, and employees in respect of all claims arising from the provision of the sanitary sewer service.

## 6.6 Owner's Liability

6.6.1 The Owner shall ensure that the terms and conditions, under which connection to the sanitary sewer system is provided, are not breached. The Owner shall be liable:

(a) to pay all costs, rates, charges, fees, and penalties that may be imposed pursuant to this bylaw; and

(b) for any breach of this bylaw arising on the parcel to which sanitary sewer service is provided, whether the breach is actually committed by the Owner or by a third party renting, leasing, or having access to the property.

## **SECTION 7 SANITARY SEWER CONNECTIONS**

### 7.1 Applications and Permits

7.1.1 No Person shall construct or install any manner of connection, whether on a permanent or temporary basis, to any part of the sanitary sewer system without first having obtained a permit to connect from the Local Government office serving their community.

### 7.2 Non-Domestic Connections

7.2.1 The Owner or Occupier of a commercial or industrial place of business where Non-Domestic waste may be discharged into the sanitary sewer system must supply to the Regional District information regarding his type of business and the characteristics of wastewater produced, using Form 1 - Non-Domestic Wastewater Information Report (APPENDIX I).

## **SECTION 8 FEES & CHARGES**

8.1 Every owner or occupier of all parcels located within a sanitary sewer system service area or the owner or occupier of all parcels connected to a community sewer system within the service area boundary of the Westside Regional Wastewater Treatment Plant shall pay to their local government office the rates and charges as prescribed by that jurisdiction. The fees and charges established in this Bylaw shall apply to the owners and operators of the community sewer systems serviced by the Regional District, as prescribed in SCHEDULE A.

## **SECTION 9 PROHIBITIONS, RESTRICTIONS AND INTERRUPTION OF SERVICE**

9.1 No person shall release, or permit the release of, any prohibited substance or any restricted substance which exceeds the respective concentrations listed in SCHEDULE B of this bylaw.

9.2 Sewer service may be limited, interrupted, terminated, or refused:

- (a) in circumstances where the discharge of wastewater may interfere with works being undertaken on the sanitary sewer system; or
- (b) where a person contravenes the provisions of this bylaw.

## **SECTION 10 TERMS AND CONDITIONS OF USE**

### 10.1 Interference with the Sanitary Sewer System

10.1.1 The sanitary sewer system, its operation, maintenance, repair, and replacement shall be under the direction and control of the Manager. No person other than the

Manager, a Regional District employee acting in the course of his duties or a contractor authorized by the Regional District shall:

- (a) enter into or work upon the sanitary sewer system;
- (b) make or terminate a service connection to the sanitary sewer system;
- (c) uncover or tamper with the sanitary sewer system; or
- (d) attach or detach any line, pipe, or other appurtenance to the sanitary sewer system.

## 10.2 Accidental Discharges

10.2.1 Any person responsible for, or aware of, the accidental discharge of restricted or prohibited substances into the sanitary sewer system shall report the same forthwith to the Regional District in order that the necessary precautions can be taken to minimize the deleterious effects of the discharge.

## 10.3 Non Compliance

10.3.1 Should any person contravene the provisions of this bylaw, and such contravention causes or may cause damage to the sanitary sewer system, the Regional District may make any repairs and take whatever remedial action necessary to limit the extent of the damage and shall recover the cost pursuant to this bylaw.

10.3.2 Should testing indicate that the components of the wastewater are not in compliance with the provisions of this bylaw, the Regional District shall notify the Owner, in writing, to cease and desist the discharge of wastewater.

10.3.3 The cease and desist order shall remain in effect until such time as:

- (a) the Owner complies with all requirements of this bylaw, and
- (b) the Regional District notifies the Owner, in writing, indicating that the Owner has complied with this bylaw and authorizing the Owner to resume the discharge of wastewater.

## 10.4 Wastewater Drainage System

10.4.1 Every wastewater drainage system connected to a regional trunk shall be constructed in accordance with the standards contained in the Subdivision Bylaw, the British Columbia Plumbing Code and the Building Bylaw.

10.4.2 The Owner shall ensure that the wastewater drainage system is installed such that it meets the elevation of the service connection. The Regional District is not obligated to meet the elevation of, nor connect to, any wastewater drainage system installed prior to the installation of the service connection.

10.4.3 The Owner must:

- (a) maintain the wastewater drainage system and sanitary service connection in a state of good repair;
- (b) protect the wastewater drainage system and sanitary service connection from freezing or damage of any other sort; and

- (c) ensure that the plumbing fixtures, wastewater drainage system and sanitary service connection do not leak.
- 10.4.4 Notwithstanding subsection 10.4.3, the Regional District may construct, inspect, maintain or repair the wastewater drainage system and sanitary service connection. All costs associated with the referenced construction, inspection, maintenance or repair shall be at the expense of the Owner.
- 10.5 Inspection Chambers and Manholes
  - 10.5.1 All wastewater must pass through an inspection chamber or a suitable manhole installed and maintained in good repair to allow observation and sampling and flow measurement of the sewage.
  - 10.5.2 Inspection chambers and manholes must be:
    - (a) constructed and installed in accordance with the Subdivision Bylaw,
    - (b) located on the property of the owner, as close to the property line as possible, or at an alternate location approved by the Manager,
    - (c) accessible to the Manager at all times;
    - (d) constructed, installed, and maintained at the expense of the Owner.
  - 10.5.3 Where there is more than one building on a parcel discharging non-domestic wastewater, each building must have a separate inspection chamber installed 1.0 meter outside the wall of the building where the building drain connects to the building sewer.
- 10.6 Septic Tanks / Portable Holding Tanks
  - 10.6.1 No person shall permit any sludge, deposit, or material contained in, or originating from, any septic tanks, portable holding tanks, or recreational vehicles to enter into the sanitary sewer system.
  - 10.6.2 Where a sewer connection is made to a parcel where a septic tank or tanks exist, the owner shall remove any sludge, deposit, or material contained in the existing septic tanks.
  - 10.6.3 All sludge, deposit, or material originating from a septic tank, portable holding tank, or recreational vehicle must be deposited at the Regional District's disposal facility.
- 10.7 Pre-treatment
  - 10.7.1 Pre-treatment is required where wastewater, or any component of the wastewater:
    - (a) does not meet the provisions of this bylaw;
    - (b) may damage or increase maintenance costs on the sanitary sewer system; or
    - (c) may detrimentally affect the operation of the sewage treatment plant.

- 10.7.2 The owner or operator shall ensure the design, operation and maintenance of the pre-treatment facility achieves the treatment objectives and is in accordance with the manufacturer's recommendations.
- 10.7.3 The owner or operator shall ensure any waste products from the pre-treatment facility are disposed of in a safe manner.
- 10.7.4 The maintenance records and waste disposal records shall be available to the Manager upon request.
- 10.7.5 The owner or operator shall keep documentation pertaining to the pre-treatment facility and waste disposal for three years. The Owner shall make these records available for examination by the Manager at his request.

## 10.8 Interceptors

- 10.8.1 The Owner of every parcel shall be required to provide an interceptor if the wastewater being discharged from the parcel contains, or will contain, grease, oil, grit, flammable liquids or gases, or other components which may interfere with or damage the sanitary sewer system. This includes but is not limited to:
  - (a) service stations, vehicle repair garages, and automobile wash bays
  - (b) dry-cleaning establishments
  - (c) milk plants, and creameries
  - (d) laboratories
  - (e) commercial kitchens
  - (f) concrete plants, and aggregate washing plants
- 10.8.2 All interceptors shall be:
  - (a) of sufficient capacity to perform the purpose for which it is intended,
  - (b) designed by an engineer or a pre-manufactured package designed for the specific purpose of trapping the deleterious components,
  - (c) located as to be readily and easily accessible for cleaning and inspection.
- 10.8.3 In support of the interceptor design, the Owner shall be required to submit detailed design drawings and calculations from the engineer or manufacturer's specifications and manuals to the Manager for approval prior to construction. In addition the Owner must submit operation and maintenance manuals.
- 10.8.4 No construction shall take place on the interceptor until such time as the Manager has reviewed the above information and approved construction. Approval to construct the interceptor by the Manager does not imply that the quality of the wastewater discharged after passing through the interceptor will meet the requirements of this bylaw. It is the Owner's responsibility to ensure that all the components of the wastewater will comply with the provisions of the bylaw after passing through the interceptor.

10.8.5 The design, construction, operation, and maintenance of the interceptor shall be the responsibility of the Owner and at the Owner's expense. The Owner shall maintain written records of all cleaning, repair, calibration, and maintenance and shall store said records at the place of business for a minimum of three (3) years. The Owner shall make these records available for examination by the Manager upon his request.

#### 10.9 Volume Control

10.9.1 Where wastewater is discharged into the sanitary sewer system in volumes which may exceed the available downstream system capacity, the Manager may require the Owner or occupier of the premises to take measures to equalize the discharge volumes and strengths.

10.9.2 Equipment necessary to comply with this section shall be provided, maintained, and operated by the Owner or occupier of such premises in a manner satisfactory to the Manager.

#### 10.10 Sampling and Analysis

10.10.1 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; and
- (b) contain additives for its preservation.

10.10.2 For the purpose of determining compliance with Schedule B, discrete wastewater streams within premises may be sampled, at the discretion of the Manager.

10.10.3 Any single grab sample may be used to determine compliance with Schedule B.

10.10.4 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" and be performed by a laboratory accredited for analysis of the particular substance(s) using a method which is within the laboratory's scope of accreditation or to the satisfaction of the Manager as agreed in writing prior to sample analysis.

### **SECTION 11 ADMINISTRATION AND ENFORCEMENT**

#### 11.1 Authority of the Manager of Public Works

11.1.1 The Manager may:

- (a) Place limits and restrictions on the quantity, composition, frequency and nature of the waste permitted to be discharged;
- (b) Require the Owner to repair, alter, remove, or add to works or construct new works; and
- (c) Shut down all non-compliant releases.

#### 11.2 Right of Entry

11.2.1 Regional District officers, or their designates, are authorized to enter upon any property or premises at any reasonable time to inspect any building or premises to ensure compliance with, or prevent violation of, the provisions of this bylaw.

11.2.2 The Owner or occupant shall permit the Regional District officers or their designates to perform all actions required including inspection, observation, measurement, testing, and sampling in order to determine compliance with this bylaw.

### 11.3 Cease and Desist Order

11.3.1 Regional District officers may order the Owner or occupant who contravenes this bylaw to comply with the bylaw within a specified time. Where an Owner does not comply with a cease and desist order within the specified time, the Regional District officer may order the action contained in the order to be performed by Regional District employees, or others, at the expense of the Owner. All costs incurred as a result of such action shall be recovered pursuant to this bylaw.

### 11.4 Violation

11.4.1 Any person who:

- (a) violates the provisions of this bylaw;
- (b) causes or permits any act in contravention or violation of the provisions of this bylaw;
- (c) neglects or omits bylaw requirements;
- (d) tampers with, interferes with, or damages the sanitary sewer system;
- (e) interferes with the operation or maintenance of the sanitary sewer system;
- (f) fails to comply with bylaw orders, directions, or notices;
- (g) prevents, obstructs or attempts to prevent or obstruct the authorized entry of any officer authorized under this bylaw;

will be guilty upon summary conviction of an offence under this bylaw. Each day's continuance of an offence under this section will constitute a new and distinct offence.

11.4.2 Any person who violates bylaw provisions may, on summary conviction, be liable to the maximum penalty under the Offence Act, plus the cost of prosecution, for each offence. The penalties imposed under this section are a supplement and not a substitute for any other remedy to an infraction of this bylaw.

## **SECTION 12 REPEAL OF PREVIOUS BYLAW**

12.1 The Regional District of Central Okanagan Sewer Systems Bylaw No. 1171, 2006, as amended by Bylaw Nos. 1208-2007, 1226-2007, 1231-2008 and 1267-2009, 1281-2010, is hereby repealed.

**SECTION 13 FORCE AND EFFECT**

13.1 This bylaw comes into effect upon adoption.

READ A FIRST TIME THIS 26<sup>th</sup> DAY OF November 2012.

READ A SECOND TIME THIS 26<sup>th</sup> DAY OF November 2012.

READ A THIRD TIME THIS 26<sup>th</sup> DAY OF November 2012.

RECONSIDERED AND ADOPTED THIS 26<sup>th</sup> DAY OF November 2012.

\_\_\_\_\_  
CHAIR

\_\_\_\_\_  
DIRECTOR OF CORPORATE SERVICES

I hereby certify the foregoing to be a true and correct copy of Bylaw No.1315 cited as the “Regional District of Central Okanagan Westside Sewer Systems Bylaw No. 1315, 201”, as read a third time and adopted by the Regional Board on the 26<sup>th</sup> day of November, 2012.

Dated at Kelowna, B.C.  
this 28<sup>th</sup> day of November 2012

\_\_\_\_\_  
DIRECTOR OF CORPORATE SERVICES

**SCHEDULE A - FEES & CHARGES**

1. User fees for the Westside Regional Sewer System shall be charged based on wastewater flows to recover costs and contributions to capital / reserves, as follows:
  - (1) District of West Kelowna
    - (a) Wastewater Treatment Plant
    - (b) Major collection trunks and lift stations
    - (c) 30% Capital Recovery Rate
  - (2) Westbank First Nation
    - (a) Wastewater Treatment Plant
    - (b) Major collection trunks and lift stations
    - (c) 30% Capital Recovery Rate
  - (3) District of Peachland
    - (a) Wastewater Treatment Plant
    - (b) Lake Force Main
    - (c) 30% Capital Recovery Rate

## **SCHEDULE B - PROHIBITIONS & RESTRICTIONS**

### **PROHIBITIONS – GENERAL**

#### **1. Hauled Wastewater**

- (1) No person shall discharge hauled wastewater to the wastewater works unless:
  - (a) The carrier of the hauled wastewater operating as a waste management system has a certificate of approval issued by the Manager, and
  - (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 by the Regional District.
- (2) No person shall discharge or permit the discharge of hauled wastewater:
  - (a) At a location other than a hauled wastewater discharge location approved by the Regional District.
  - (b) Without a manifest, in a form approved by the Manager, completed and signed by the carrier and deposited in an approved location at the time of discharge.
  - (c) Without the use of a discharge hose placed securely in the discharge portal at the approved location.

#### **2. Hauled Waste**

- (1) No person shall discharge hauled waste to the wastewater works unless:
  - (a) The carrier of the hauled waste operating as a waste management system has a certificate of approval issued by the Manager, and
  - (b) Hauled waste meets all conditions for discharge that are set out in this Schedule, as amended from time to time;
- (2) No person shall discharge or allow or cause hauled waste to be discharged into a Sewer, except at sites designated by the Manager.

#### **3. Non-Contact Cooling Water**

- (1) The discharge of non-contact cooling water or uncontaminated water to a sanitary sewer from any residential property is prohibited.

#### **4. Water Originating from a Source Other than the Community Water Supply**

- (1) The discharge of water originating from a source other than the community water supply, including storm water or groundwater, directly or indirectly to a sanitary sewer works is prohibited, unless:
  - (a) The discharge is in accordance with a Waste Discharge Permit; and
  - (b) The discharge does not exceed the limits set out under this Schedule, with respect to biochemical oxygen demand, total phosphorus or total suspended solids; or
  - (c) In the event the discharge does exceed the limits set out under this Schedule, with respect to any of biochemical oxygen demand, total phosphorus or total suspended solids, the discharge has been approved in writing by the Manager.

## 5. Prohibition of Dilution

- (1) No person shall discharge directly or indirectly, or permit the discharge or deposit of wastewater into a sanitary sewer works where water has been added to the discharge for the purposes of dilution to achieve compliance with this Schedule.

### **PROHIBITED WASTES**

- A. No person shall discharge directly or indirectly or deposit or cause or permit the discharge or deposit of wastewater into a sanitary sewer or private sewer connection to any sanitary sewer 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 Regional District to inspect, operate, maintain, repair or otherwise work on a wastewater works;
- (b) An offence under the Environmental Management Act, 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, to fail to meet the objectives and criteria as listed in the Liquid Waste Management Act, as amended from time to time;
- (d) Interference with the operation or maintenance of a 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.

- (2) The wastewater has two or more separate liquid layers.

- (3) The wastewater contains:

- (a) Hazardous substances;
- (b) Combustible liquid; 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.
- (c) Specified risk material for bovine spongiform encephalopathy as defined in the federal Fertilizers Regulations (C.R.C., c. 666), as amended from time to time, including material from the skull, brain, trigeminal ganglia, eyes, tonsils, spinal cord and dorsal root ganglia of cattle aged 30 months or older, or material from the distal ileum of cattle of all ages.
- (d) Dyes or coloring materials which may or could pass through a wastewater works and discolor the wastewater works effluent;
- (e) Fuel;
- (f) Ignitable waste.
- (g) Pathological waste.
- (h) PCBs.
- (i) Pesticides, insecticides, herbicides or fungicides.

- (j) Reactive material – except within such limits as are permitted by license issued by the Atomic Energy Control Board of Canada.
- (k) Toxic substances which are not otherwise regulated in this Bylaw.
- (l) 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.
- (m) 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, un-ground garbage, animal parts or tissues, and paunch manure.
- (n) Any garbage that has been ground, comminuted or shredded by a garbage disposal unit.
- (o) The wastewater contains a concentration, expressed in milligrams per litre, in excess of any one or more of the limits in Restricted Wastes section of this Schedule, unless the discharge is authorized in a Code of Practice approved by the Regional District.

### **STANDARDS FOR RESTRICTED WASTES**

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

- (1) any non-domestic wastewater as analysed in the specified sample type which exceeds the limits for the following parameters, expressed in the total form as milligrams per litre and as shown in the following table:

**Table A - CONVENTIONAL CONTAMINANTS and PHYSICAL PARAMETERS**

Parameter	Concentration in Milligrams per Litre (mg/L)		
	One Day Composite Sample	Two Hour Composite Sample	Grab Sample
Biochemical Oxygen Demand (B.O.D.)	500	1000	2000
Chemical Oxygen Demand (C.O.D.)	750	1500	3000
Total Suspended Solids (TSS)	600	1200	2400
Oil and Grease (non petroleum)	150	300	600
Oil and Grease (petroleum source)	15	30	60
pH (non-domestic waste)	>6 and <9.5	>5 and <11	>5.5 and <10.5

- (2) any non-domestic waste which, at the point of discharge into a sewer, contains any substance, in a combined or un-combined form, with a concentration in excess of the levels set out in the following tables. All concentrations are expressed as total concentrations, which include both the dissolved and un-dissolved substances.

**Table B - ORGANIC CONTAMINANTS**

Substance	Concentration Limit [mg/L, except as noted]
Benzene	0.01
Chloroform	0.04
Dichlorobenzene (1,2-)	0.05
Dichlorobenzene (1,4)	0.08
Ethylbenzene	0.06
Hexachlorobenzene	0.0001
**Methylene chloride (dichloromethane)	0.09
PCBs (chlorobiphenyls)	0.004
**Phenols, Total (or Phenolic compounds)	0.1
**Tetrachloroethane (1,1,2,2 - )	0.06
**Tetrachloroethylene	0.06
Toluene	0.02
Trichloroethylene	0.05
Xylenes, total	0.3

**Table C - INORGANIC CONTAMINANTS**

Substance	Abbreviation	Concentration in Milligrams per Litre		
		One day composite sample	Two hour composite sample	Grab sample
Aluminum	Al	50.0	100.0	200.0
Arsenic	As	0.5	1.0	2.0
Boron	B	50.0	100.0	200.0
Cadmium	Cd	0.2	0.4	0.8
Chromium	Cr	2.0	4.0	8.0
Cobalt	Co	5.0	10.0	20.0
Copper	Cu	2.0	4.0	8.0
Cyanide	Cn	0.5	1.0	2.0
Iron	Fe	10.0	20.0	40.0
Lead	Pb	1.0	2.0	4.0
Manganese	Mn	5.0	10.0	20.0
Mercury	Hg	0.025	0.05	0.1
Molybdenum	Mo	1.0	2.0	4.0
Nickel	Ni	2.0	4.0	8.0
Phenols	-	1.0	2.0	4.0
Phosphorus	P	12.5	25.0	50.0
Silver	Ag	1.0	2.0	4.0
Sulphate	SO <sup>4</sup>	1500.0	3000.0	6000.0
Sulphide	S	1.0	2.0	4.0
Tin	Sn	5.0	10.0	20.0
Zinc	Zn	3.0	6.0	12.0

**Note:**

More restrictive guidelines may be required if the Manager considers there to be a detrimental effect on the sewage treatment plant, the sanitary sewer system, or the workers.

- (3) any water or waste containing substances in such concentrations that are not amenable to treatment or reduction by the sewage treatment process employed, or are amenable to treatment only to such a degree that the sewage treatment plant effluent cannot, during normal operation, meet the requirement of any other agency having jurisdiction over discharges to the receiving waters.

- (4) any material or substance (e.g. enzymes and/or bacteria) that alters the structure of the waste(s) but does not reduce the loading (C.O.D.).
- (5) any water or wastewater contained in, but not limited to, a swimming pool, hot-tub, or artificial pond.

**APPENDIX I - FORMS**

**Form 1 - Non-Domestic Wastewater Information Report**

- A. This Form is required where an Owner or occupier proposes to:
- (a) make application to connect an industrial or commercial activity to the sanitary sewer system; or
  - (b) expand or change an industrial or commercial activity in such a way that it may affect the quality or quantity of the wastewater being discharged into the sanitary sewer system.
- B. This form is to be filed with the Manager of Public Works at the Regional District of Central Okanagan, located at 1450 KLO Road, Kelowna BC, V1W 3Z4, immediately or within **90 days Prior** to the date to either connect, expand on, or change the industrial or commercial activity.

**(1) This Application is:**     New Connection     to Expand or Change Existing Connection

**PART 1 – COMPANY / INDUSTRY INFORMATION**

**(2) Business Information:**

Company Name:

Civic Address:

Telephone:

Fax:

Legal Description:

Lot:

Plan:

DL:

Primary Contact Person:

Mobile Phone:

Email Address:

**(3) Hours & Days of Operation:**    Hours/day \_\_\_\_\_    Days/week \_\_\_\_\_

**(4) Activity (type of):**

Pharmacy

Dental / Health Services

Greenhouses / Nurseries

Laundromat

Funeral Establishments

Light Manufacturing

Beauty Salons

Restaurant / Food Preparation

Heavy Manufacturing

Winery / Cidery

Pet Grooming / Kennels

Painting

Service Station

Veterinary

Printing / Publishing

OTHER \_\_\_\_\_

Abattoir

Package House

**PART 2 – WASTEWATER CHARACTERISTICS**

**(5) Flow:**    Is the Discharge > 300 m<sup>3</sup> in a 30 day period?     Yes     No     Don't Know

Is the Discharge > 10 m<sup>3</sup> in a 24 hour period?     Yes     No     Don't Know

**(6) Volumes:** Maximum discharge flow rate: \_\_\_\_\_ m<sup>3</sup>/day  
 Average daily discharge flow rate: \_\_\_\_\_ m<sup>3</sup>/day  
 Method of flow rate determination:  measured  estimated

**NOTE:**  
 1 m<sup>3</sup> = 220 imp gal  
 1 m<sup>3</sup> = 264 US gal

**(7) Temperature:** \_\_\_\_\_ °C

**(8) Acidity (pH)** Min. \_\_\_\_\_ Max. \_\_\_\_\_

**(9) Description:** *Provide a brief description of waste generating process:*  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**(10) Special Waste:**

Does any process within the plant produce special waste as defined under the Special Waste Regulation of the Waste Management Act BC?  Yes  No  Don't Know

**(11) Quality:** *Indicate whether any of the following types of wastes are discharged:*

- Flammable or explosive waste  Yes  No
- Obstructive waste  Yes  No
- Air contaminant waste  Yes  No
- High temperature waste  Yes  No
- Radioactive waste  Yes  No
- Biomedical waste  Yes  No
- Corrosive waste  Yes  No
- Food waste  Yes  No
- Seawater  Yes  No

**(12) Contaminants and Physical Parameters**

*In the space provided below, check the appropriate box for each wastewater contaminant to dictate whether the contaminant listed is "known to be present", "suspected to be present", "suspected to be absent", or "known to be absent" in the wastewater discharge.*

*If a contaminant is "known to be present" or "suspected to be present", estimate the expected average and maximum daily contaminant concentrations in the spaces provided.*

*If the wastewater discharges have been sample and analyzed in the past, please attach examples of sampling data.*

CONTAMINANTS	ABSENT		PRESENT		Expected Concentration (mg/L (ppm))	
	known	suspected	known	suspected	Ave.	Max.
Biochemical Oxygen Demand (B.O.D.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Chemical Oxygen Demand (C.O.D.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Total Suspended Solids (TSS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Oil and Grease (non petroleum)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Oil and Grease (petroleum source)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Phenols, Total	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Phenols, Chlorinated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____

Polynuclear Aromatic Hydrocarbons	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
PCBs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Pesticides	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Tetrachloroethylene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Benzene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Ethylbenzene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Toluene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Xylenes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Solvents, <i>Specify:</i>						
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Arsenic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Boron	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Cadmium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Chromium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Cobalt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Cyanide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Iron	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Lead	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Manganese	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Mercury	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Molybdenum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Nickel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Phenols	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Phosphorus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Silver	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Sulphate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Sulphide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Tin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Zinc	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____

**PART 4 – ATTACHMENTS**

The Owner or occupant must provide any and all documentation for packaged pre-treatment systems, interceptors, control, monitoring, or sampling equipment.

**PART 3 – SITE PLAN**

The Owner or occupant must sketch a site plan in the area provided below (or attach a site plan to the application). The plan shall be dimensioned and must include:

- (1) property lines, buildings, streets
- (2) the location of sampling manhole,
- (3) pre-treatment works,
- (4) flow equalizing facilities, or other control works
- (5) the monitoring points,
- (6) sanitary & storm sewer lines and connections,

**PART 5 – DECLARATION**

I, \_\_\_\_\_, declare that the information given on this form is correct to the best of my knowledge.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date