

---

# **Waste Discharge Permit Application for Groundwater Remediation and Construction Excavation Sites**

The City of Vancouver Sewer and Watercourse  
Bylaw No. 8093

and the Greater Vancouver Sewerage & Drainage  
District Sewer Use Bylaw No. 299, 2007



This is an application for a **Waste Discharge Permit** under the City of Vancouver Sewer and Watercourse Bylaw No. 8093 and the Greater Vancouver Sewerage and Drainage District (GVS&DD) Sewer Use Bylaw No. 299, 2007 to discharge wastewater to sanitary sewer from groundwater remediation and construction excavation sites. Links to City of Vancouver Sewer and Watercourse Bylaw #8093 and the GVS&DD Sewer Use Bylaw No. 299, 2007 are available at:

<http://vancouver.ca/commsvcs/LICANDINSP/inspections/environment/bylaws.htm>  
[http://www.metrovancouver.org/boards/bylaws/Bylaws/GVSDD\\_Bylaw\\_299.pdf](http://www.metrovancouver.org/boards/bylaws/Bylaws/GVSDD_Bylaw_299.pdf)

#### NEW PERMIT APPLICATION FEES

Application Type	Fee
Groundwater Remediation or Construction Excavation Site	\$500 – if maximum instantaneous flow $\leq$ 6 L/s \$1000 – if maximum instantaneous flow $>$ 6 L/s

#### PERMIT AMENDMENT APPLICATION FEES

Application Type	Fee
Minor Amendment	\$250
Major Amendment	\$500

A minor amendment is an amendment that is limited to the following:

- name and legal address changes;
- monitoring program changes;
- a decrease in the quantity of contaminants or flow authorized;
- a change to the authorized discharge such that, in the opinion of the Sewage Control Manager, there would be equal or less demand for regulatory and treatment services; or
- a change in the authorized works or measures such that, in the opinion of the Sewage Control Manager, there would be equal or less demand for regulatory and treatment services.

A major amendment is any amendment that is not a minor amendment.

Please enclose a cheque for the applicable amount, payable to the **City of Vancouver**.

---

## GENERAL INSTRUCTIONS

- ◆ Provide all required information and attachments.
- ◆ If you do not have an answer for the requested information, indicate so and explain why.
- ◆ Indicate 'n/a' if a section does not apply to your application.
- ◆ Use additional pages, as required.
- ◆ Send the completed application form, attachments, and the application fee to the following address:

City of Vancouver  
Licences and Inspections  
Environmental Protection Branch  
453 West 12<sup>th</sup> Ave  
Vancouver, BC  
V5Y 1V4  
Telephone: (604) 873-7892  
Facsimile: (604) 873-7963

Once deemed complete, your application will be subject to review by City of Vancouver staff to evaluate the impact of the proposed hydraulic loading on the Metro Vancouver and City of Vancouver sewer systems. If the proposed hydraulic loading is acceptable, you will be advised of the amount of the Waste Discharge Permit Administration Fee as well as the contaminated groundwater discharge fee. The fees must be submitted prior to Permit issuance.

# CONTENTS

	Page
<b>SECTION A:</b> Applicant Information .....	1
<b>SECTION B:</b> Site History .....	2
<b>SECTION C:</b> Site Contamination Characterization .....	2
<b>SECTION D:</b> Operating Period .....	3
<b>SECTION E:</b> Wastewater Quality .....	3
<b>SECTION F:</b> Wastewater Treatment .....	4
<b>SECTION G:</b> Spill Prevention and Containment .....	5
<b>SECTION H:</b> Flow Information .....	5
<b>SECTION I:</b> Flow Curtailment Procedures .....	7
<b>SECTION J:</b> Requested Permit Term .....	7
<b>SECTION K:</b> Declaration .....	8
<b>ATTACHMENT A:</b> Example of Schematic Flow Diagram .....	9
<b>ATTACHMENT B:</b> Example of 24 Hour Flow Rate Profile .....	10

## SECTION A: APPLICANT INFORMATION

APPLICANT BUSINESS NAME (Registered Company Name):	INCORPORATION NUMBER:
SITE ADDRESS: _____ (Street) _____ (City/Province) _____ (Postal Code)	BUSINESS MAILING ADDRESS: _____ (Street) _____ (City/Province) _____ (Postal Code)

Contact Person \_\_\_\_\_

24 hour number \_\_\_\_\_

Cell number \_\_\_\_\_

Fax number \_\_\_\_\_

Email address \_\_\_\_\_

Applicants must **attach the results of a corporate registry search**, conducted within 30 days of this application's submission date. The corporate registry search indicates that the applicant business has been registered with the BC Ministry of Finance. Corporate registry searches can be obtained for a nominal fee from:

- BC Online at: <https://www.bconline.gov.bc.ca/>
- By visiting the Provincial Courthouse at 800 Hornby Street (small claims desk).
- By Mailing your written request, and a cheque for \$10 to Suite 100, 800 Hornby St. Vancouver B.C., attn: Cashier. The cheque should be made out to the Ministry of Finance.

**SECTION B: SITE HISTORY**

Summarize the business activities and/or manufacturing processes responsible for the site contamination and/or construction excavation and provide the name of the current property owner.

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

use additional pages if necessary)

**SECTION C: SITE CONTAMINATION CHARACTERIZATION**

Characterize the nature of the site contamination. Include supporting analytical data for the soil, groundwater and/or collected storm water. Provide an assessment of whether Hazardous Wastes are present in the soil, groundwater and/or storm water. If Hazardous Wastes are present, detail the provisions taken to comply with Column 3 of Schedule 1.2 (Standard for Discharges Directed to Municipal or Industrial Effluent Treatment Works) of the provincial Hazardous Waste Regulation.

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

(use additional pages if necessary)

Is this a discharge from a subsurface pump & treat?	(√)
Is this a discharge from an open excavation?	
Is this a discharge from a combination subsurface pump & treat / open excavation?	

**SECTION D: OPERATING PERIOD**

Specify the proposed operating period for the activities (i.e. the period during which wastewater is discharged to the sanitary sewer):

Hours/Day	Days/Week	Weeks/Year

Specify the typical number of hours of discharge to the sanitary sewer during the following periods:

08:00 to 16:00	16:00 to 24:00	0:00 to 08:00

Expected duration of the project: \_\_\_\_\_

Planned date for start of discharge: \_\_\_\_\_

**SECTION E: WASTEWATER QUALITY**

Identify the contaminants of concern in your wastewater discharge ( eg. hydrocarbons, BETX, PAHs, Metals, Suspended Solids, etc.). Identify whether the discharge includes storm water from direct precipitation. Provide a characterization of the wastewater before and after treatment, noting the presence of hydrocarbons, BETX, PAHs, Metals, Suspended Solids, and any other pertinent contaminants specified in Sewer Use Bylaw No. 299, 2007. Include supporting analytical data.

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

(use additional pages if necessary)

**SECTION F: WASTEWATER TREATMENT**



Describe the wastewater treatment works that will be utilized to treat the wastewater prior to discharge to sewer. Please include the following:

- Basic design criteria and sizing calculations for the treatment system components.
- The maximum design flow rate for the treatment works.
- Justification of the works based on wastewater quality data, results from other similar installations and/or scientific evidence from literature demonstrating performance.
- Maintenance procedures to be carried out to ensure integrity of the works.
- Any provisions to bypass the treatment works.
- For carbon filters, identify procedures/monitoring that will be implemented to ensure carbon replacement prior to breakthrough.
- Method(s) of disposal of any treatment byproducts.
- A schematic flow diagram, identifying wastewater sources, collection piping, treatment works, instrumentation, sampling point, and the point of connection to sewer (Example in Attachment A).
- A site plan

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(use additional pages, if necessary)

**SECTION G: SPILL PREVENTION AND CONTAINMENT**

Summarize the provisions taken to prevent spills (e.g. from a hydrocarbon storage tank) or untreated groundwater from entering the sanitary sewer system:

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

(use additional pages, if necessary)

**SECTION H: FLOW INFORMATION**

**1. Requested Discharge Flow Rates**

The following process flow information is required to complete both City of Vancouver sewer line and GVS&DD trunk sewer line hydraulic loading capacity evaluations.

Total remediation or excavation site area: \_\_\_\_\_ acres; or \_\_\_\_\_ m<sup>2</sup>

Maximum Discharge Duration: \_\_\_\_\_ hours/day \_\_\_\_\_ days/week \_\_\_\_\_ weeks/year

Total discharge volume over the requested term of the Permit: \_\_\_\_\_ m<sup>3</sup>

Maximum Daily Discharge Rate: \_\_\_\_\_ m<sup>3</sup>/day

Maximum Instantaneous Peak Flow Rate: \_\_\_\_\_ litres/second

**2. Maximum Possible Discharge Flow Rates**

In some cases, the discharge capability may exceed typical requirements (for example, if a spare pump is operated at the same time as the main pump). Specify the maximum possible discharge rates, even if there is no intention to discharge at these rates.

Maximum possible daily discharge rate: \_\_\_\_\_ m<sup>3</sup> /day

Maximum possible instantaneous peak flow rate: \_\_\_\_\_ litres/second

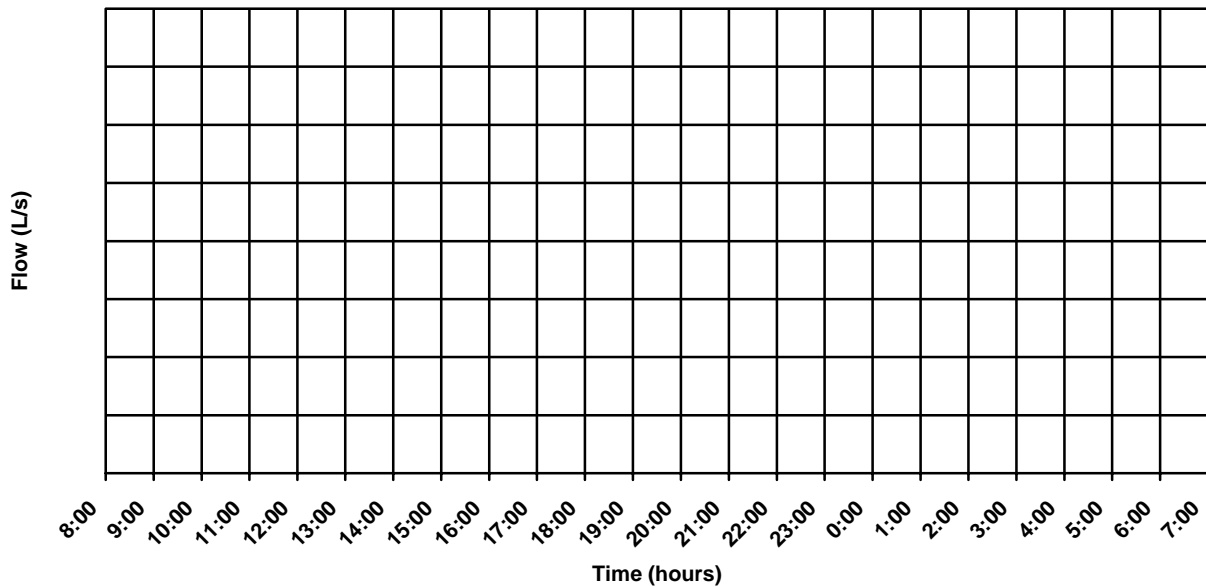
### 3. Discharge Flow Rate Estimation Methods

Indicate the method used to estimate the discharge flow rates and provide the supporting information specified.

(√)	Method	Additional Information Required
	Discharge Pump Capacity	Provide pump specifications and all supporting calculations, assumptions, etc.
	Flow Measurement	Provide specifications for the flow monitoring and recording equipment used.

### 4. Discharge Flow Rate Profile

Please provide a graphic representation of a 24 hour profile of the instantaneous flow rate from your remediation activities on both average and high discharge days. An example is provided in Attachment B.



**SECTION I: FLOW CURTAILMENT PROCEDURES**

In the event of excess hydraulic loadings to the sanitary sewerage facilities, the Permit holder may be required to immediately curtail or cease the discharge to sewer upon receiving notice from an Officer appointed under Bylaw No. 299, 2007. This may occur at any time during the term of the Permit.

Please provide a description of the procedure by which a company representative can be contacted 24 hours/day by the Environmental Protection Branch in the event of such a condition. Include the contact person(s) and telephone number(s) for normal working hours, evenings, weekends and holidays.

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

(use additional pages, if necessary)

**SECTION J: REQUESTED PERMIT TERM**

Please indicate in the appropriate box below the length of time that you will require a Waste Discharge Permit (Note: the maximum term for an excavation or groundwater remediation Permit is one year).

	(√)		(√)
Less than 7 days		91 - 180 days	
7 - 30 days		181 - 270 days	
31 - 90 days		271 - 365 days	

<b>SECTION K: DECLARATION</b>
-------------------------------

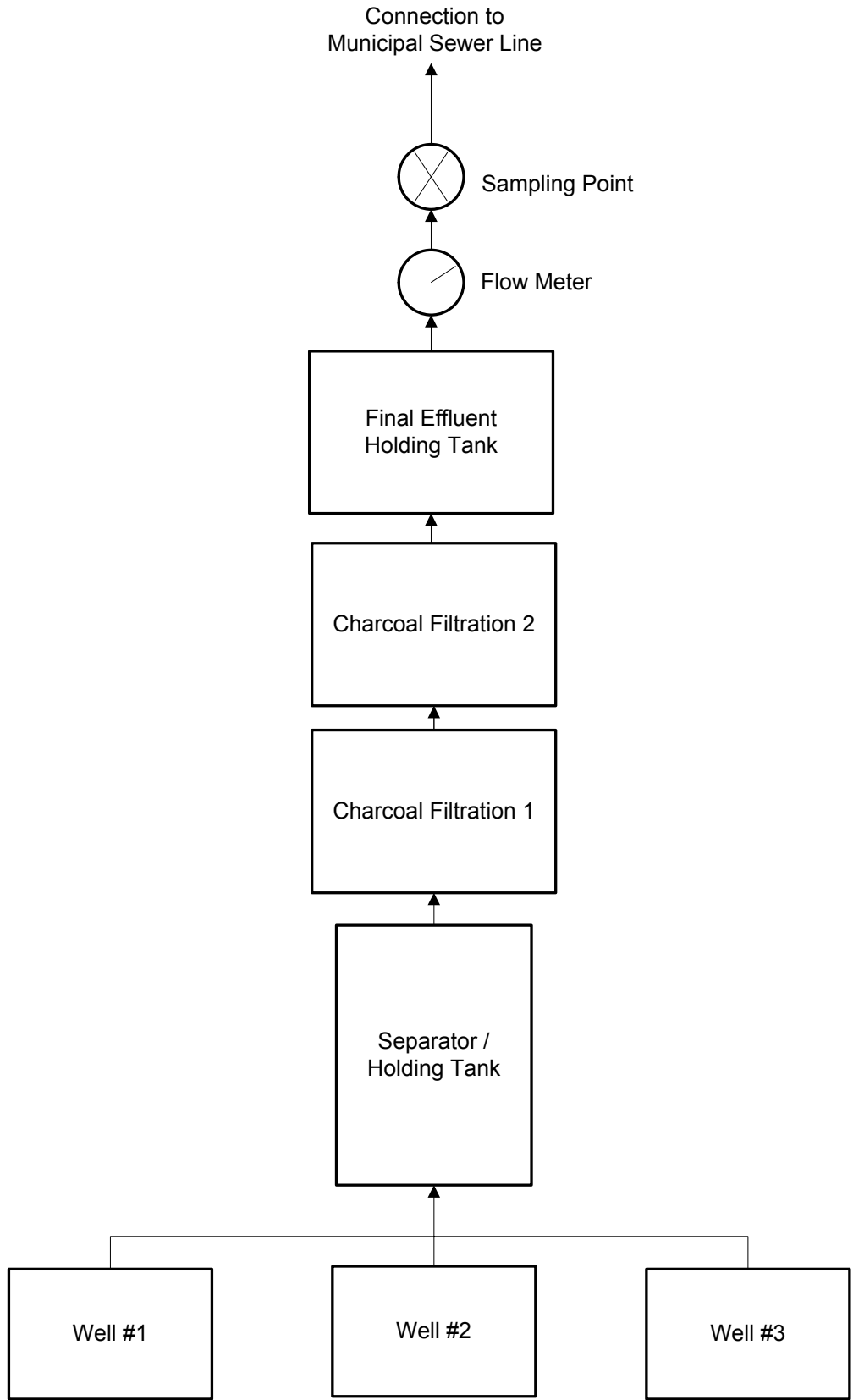
This application form must be signed by a representative of the company listed as the applicant in Section A, who will be responsible for complying with all terms and conditions of the Waste Discharge Permit.

<b>I declare that the information given on this form is correct and accurate to the best of my knowledge.</b>	
..... <i>Name (please print)</i>	..... <i>Title</i>
..... <i>Telephone</i>	..... <i>E-mail</i>
..... <i>Signature</i>	..... <i>Date</i>

If you elect to appoint another company employee or consultant as the primary contact for this application, please complete the following:

<b>Primary Contact Information</b>	
..... <i>Name (please print)</i>	..... <i>Title</i>
..... <i>Company Name (if Consultant)</i>	..... <i>Telephone</i>
	..... <i>Fax</i>
	..... <i>E-mail</i>

**ATTACHMENT A: EXAMPLE OF SCHEMATIC FLOW DIAGRAM**



**ATTACHMENT B: EXAMPLE OF 24 HOUR FLOW RATE PROFILE**

