

WASTE DISCHARGE PERMIT NO. SC-100026-FSA

Pursuant to:

Greater Vancouver Sewerage & Drainage District Sewer Use Bylaw No. 299, 2007 (as amended)
and the BC Environmental Management Act, S.B.C. 2003, c.53

Issued to:

Redi-Strip Metal Cleaning Canada Ltd.
(the "Permittee")

To Authorize:

the discharge of Wastewater to Sewer from
a metal cleaning operation

Located at


7691 Vantage Way, Delta, BC V4G 1A6

Effective Period:

The terms and conditions set out in the Permit apply to the existing or planned works on
October 05, 2020

All previous versions of this Waste Discharge Permit are hereby rescinded and rendered null and void.

Issued: February 05, 1992
Amended: October 05, 2020



Grant McGillivray
Deputy Sewage Control Manager

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

SCHEDULE A

This Schedule sets out requirements for the quantity and quality of the discharge to Sewer.

1. AUTHORIZED RATE OF DISCHARGE

The Permittee shall not exceed the following:

Sample Point: 1

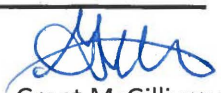
- Maximum daily discharge flow rate: **15.00 m³/d**
- Maximum instantaneous peak flow rate: **2.00 L/s**

2. AUTHORIZED DISCHARGE CRITERIA

- a) The Permittee shall not discharge Restricted Waste or other Waste, as defined in the Bylaw, including but not limited to the following (regardless of sample type):

Parameter	Authorized Limit	Notes
pH	5.5 - 10.5 pH Units	
Total Suspended Solids	600 mg/L	
Oil & Grease Hydrocarbon	15 mg/L	
Sulphate	1500 mg/L	
Aluminum - total	50 mg/L	
Arsenic - total	1 mg/L	
Boron - total	50 mg/L	
Cadmium - total	0.2 mg/L	
Chromium - total	4 mg/L	
Cobalt - total	5 mg/L	
Copper - total	2 mg/L	
Iron - total	10 mg/L	
Lead - total	1 mg/L	
Manganese - total	5 mg/L	
Molybdenum - total	1 mg/L	
Nickel - total	2 mg/L	
Selenium - total	1 mg/L	
Silver - total	1 mg/L	
Zinc - total	3 mg/L	

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SCHEDULE A

- b) The Permittee shall not discharge Prohibited Waste, Storm Water or Uncontaminated Water, as defined in the bylaw.
- c) The Permittee shall not discharge Hazardous Waste, or effluent from the treatment of Hazardous Waste which exceeds the Effluent Standards for Hazardous Waste Facilities, as stipulated in Schedule 1.2, Column 3, of the BC Environmental Management Act Hazardous Waste Regulation.

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SCHEDULE B

This Schedule sets out requirements and locations for the approved sample points, waste sources, and works and procedures to treat and/or control the discharges to Sewer.

1. SAMPLE POINTS, WASTE SOURCES, WORKS & PROCEDURES

SAMPLE POINT: 1

This sample point is considered to be a point of discharge to Sewer. The approved sample point location is described and is illustrated in the photo(s) below.

Description: Sample port on the batch treatment tank.


Source: Metal Cleaning Shop

Wastewater from metal shop cleaning and rinsing operations.

Type: Batch

Works and Procedures	Completion Date
Collection system	Completed
Holding pit	Completed
Reactor (also used as an auxiliary storage tank) - mechanical mixing, automatic pH adjustment with hydrochloric acid and sodium hydroxide, coagulant addition, flocculation, chemical treatment system with chemical injection, clarification, sedimentation, sludge removal/disposal	Completed
Bag filter	Completed
Skimmer	Completed
Data Logger - records pH and flow on final effluent line	Completed
Alarm - automatically stops discharge of batches with out-of-range pH	Completed
Good operating practices	Completed

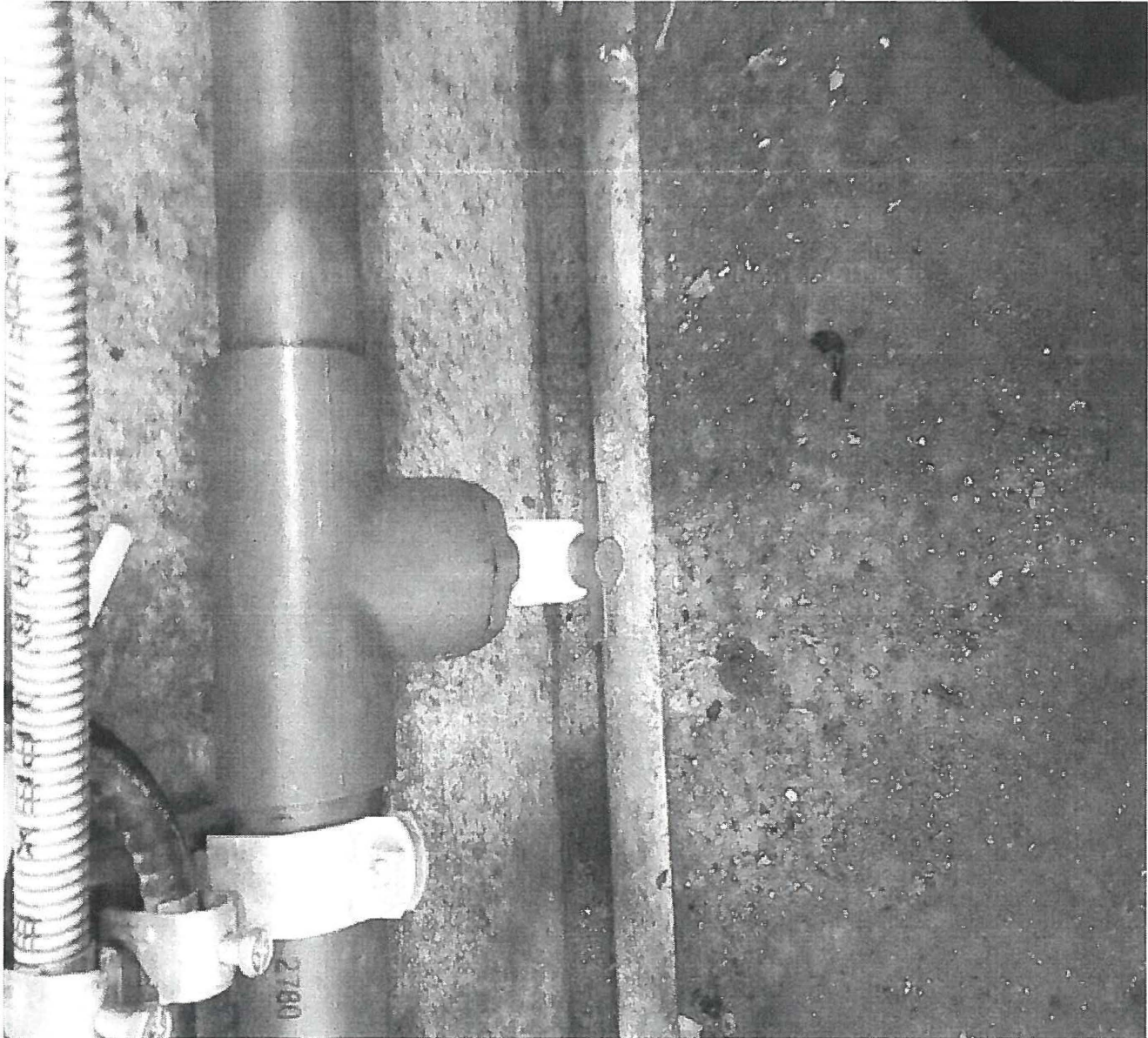
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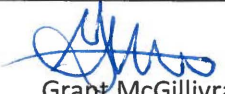
SCHEDULE B

Photograph of Sample Point 1:



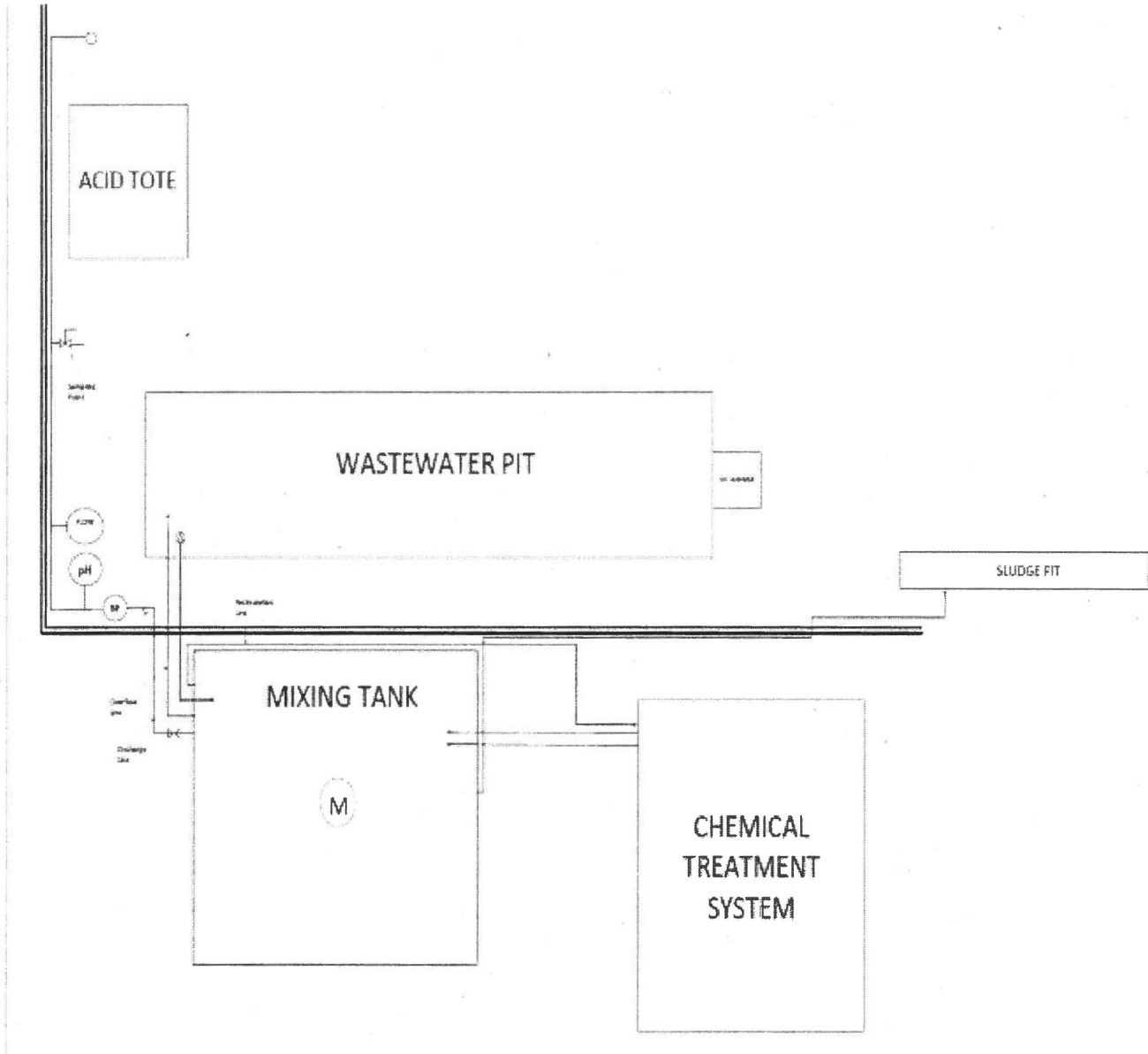
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SCHEDULE B

2. SITE PLAN(S)



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SCHEDULE C

This Schedule sets out standard conditions and requirements for emergency procedures.

1. STANDARD CONDITIONS

- a) Except as otherwise provided in this Permit, all terms, conditions and definitions stipulated in the Bylaw shall apply to this Permit.
- b) Pursuant to the Bylaw, the Sewage Control Manager (the Manager) may amend the terms and conditions of this Permit.
- c) All records required by this permit shall be kept available for a minimum period of one year.

2. WORKS AND PROCEDURES

- a) All authorized works, procedures and requirements shall be employed at all times during any discharge to sewer. As applicable, all such works shall be inspected and calibrated regularly and maintained in good working condition.
- b) The Manager may require that additional works be installed if the existing works do not provide an acceptable level of treatment. The Manager must authorize new works or alterations to existing works. The Manager must authorize new waste sources.

3. NOTIFICATION PROCEDURES

The Permittee shall immediately report to Metro Vancouver at 604-643-8488 (24 hours):

- a) Spills with the potential to be discharged to the Sanitary Sewer.
- b) Failure of authorized works or conditions and/or failure to carry out authorized procedures that will or have the potential to result in a Permit limit being exceeded.
- c) Discharge pH less than 2 or greater than 12.5.

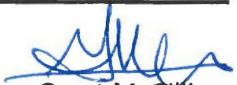
4. BY-PASSES

The discharge of Wastes that by-pass any authorized works or is not in accordance with procedures designated by the Permit is prohibited, unless prior authorization of the Manager is obtained.

5. DISCHARGE MONITORING

- a) All sampling and sample handling of wastewater discharges, including sample containers, storage, preservation and hold time requirements shall be carried out in accordance with all prescribed requirements stated within the latest edition of the "British Columbia Environmental Laboratory Manual" published by the Ministry of Environment, Province of British Columbia or "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, or an alternate standard authorized by the Manager.
- b) With the exception of pH measurements, all samples shall be analyzed by an independent laboratory accredited through the latest version of ISO/IEC 17025 unless otherwise authorized by the Manager.

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SCHEDULE C

- c) Laboratories used by the Permittee must also be accredited by the Canadian Association for Laboratory Accreditation and/or the Standards Council of Canada for all parameters analyzed and must participate in relevant proficiency testing programs for each parameter.
- d) Any changes in method or location of monitoring must be authorized by the Manager.
- e) Additional monitoring and/or reporting shall be undertaken by the Permittee when required by the Manager.

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SCHEDULE D

This Schedule sets out the requirements for the monitoring of the discharge to Sewer.

DISCHARGE SAMPLING AND ANALYSES

1. FLOW MEASUREMENTS

The Permittee shall measure or estimate the discharge flow to sanitary sewer during each month of operation using the method(s) authorized in Schedule B and record for reporting purposes the following:

- Maximum daily discharge flow rate (m^3/d) during the month for sample point(s) 1

2. BATCH MEASUREMENTS

For each month of operation, the Permittee shall record for reporting purposes for each batch discharge source, the following

- Type of batch discharge
- Total monthly volume (m^3)
- Number of days of discharge to sewer

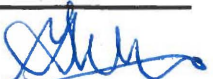
3. SAMPLING PROGRAM

Batch Discharge Sampling:

The Permittee shall record for reporting purposes for each sample the following:

- Sample date
- Sample collection time
- Total daily discharge volume (m^3) of the batch discharge source on the date of sampling

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SCHEDULE D

SAMPLE POINT: 1

Batch Discharges:

Source: Metal Cleaning Shop

On one normal operating day once per quarter collect 1 set of grab samples and analyze for:

- pH
- Total Suspended Solids
- Oil & Grease Hydrocarbon
- Sulphate
- Total Metals by ICP Scan including:
Aluminum, Arsenic, Boron, Iron, Cadmium, Chromium, Cobalt, Copper, Lead,
Manganese, Molybdenum, Nickel, Selenium, Silver, Zinc

Grab sample pH analysis must be conducted immediately upon sampling.

If composite sampling is specified, grab samples shall be taken during the period of composite sampling unless noted otherwise in this Schedule.

For batch discharges, sample(s) should represent the average quality of the total batch discharge.

Unless otherwise specified, all samples should be taken during normal operations.

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SCHEDULE E

This Schedule sets out reporting requirements for this Permit.

1. REPORTING REQUIREMENTS

By October 31, 2021 and quarterly thereafter for the term of this permit:

The Permittee shall submit a report detailing the results of the discharge sampling and analyses program, as specified, for the previous calendar quarter including lab reports. This information shall be submitted electronically using the supplied password-enabled web based application.

Should a violation of any term or condition of the Permit be noted, the report shall include a summary of the investigation into the cause of the violation and the corrective actions taken or proposed to prevent future violations. This does not preclude the immediate notification requirements specified in Schedule C.

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