



WASTE DISCHARGE PERMIT NO. SC-100047-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:

Safety-Kleen Canada Inc.
(the "Permittee")

To Authorize:

the discharge of Wastewater to Sewer from
a chemical blending operation and waste management and treatment facility

Located at

7803 Progress Way, Delta, BC V4G 1A3

Effective Period:

The terms and conditions set out in the Permit apply to the existing or planned works on
April 1, 2017

All previous versions of this Waste Discharge Permit are hereby rescinded and rendered null and void.

Issued: March 31, 1995
Amended: February 10, 2017


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: **220.00 m³/d**
- Maximum instantaneous peak flow rate: **3.33 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	
Total Oil & Grease	150 mg/L	
Cyanide	1 mg/L	
Sulphate	1500 mg/L	
Sulphide	1 mg/L	
Chlorophenols	0.05 mg/L	
Phenols	1 mg/L	
Polycyclic Aromatic Hydrocarbons	0.05 mg/L	
Total BETX	1 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	

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SCHEDULE A

Parameter	Authorized Limit	Notes
Nickel - total	2 mg/L	
Selenium - total	1 mg/L	
Silver - total	1 mg/L	
Zinc - total	3 mg/L	

- b) The Permittee shall not discharge Restricted Waste or other Waste, as defined in the Bylaw, with the following exceptions (regardless of sample type):

Parameter	Authorized Limit	Notes
Biochemical Oxygen Demand	No Limit	

- c) The Permittee shall not discharge Prohibited Waste, Storm Water or Uncontaminated Water, as defined in the bylaw.
- d) 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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GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

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: The above ground monitoring chamber.

Source: Concrete Wash Water

Type: Batch

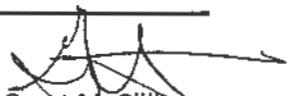
Works and Procedures	Completion Date
Oil/water separation	Completed
pH adjustment	Completed
Sludge removal	Completed
Multi-media filtration	Completed
Utility water tank	Completed
Activated carbon filtration	Completed
Continuous flow monitoring	Completed
Chemical treatment	Completed
Filter press	Completed
Air rotary vacuum	Completed
A combination of the above treatment works are utilized	Completed
Good operating practices	Completed

Source: Contaminated Cooling Water

Type: Batch

Works and Procedures	Completion Date
A combination of works and procedures listed for concrete wash water.	Completed

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SCHEDULE B

Source: Ink Press Cleaning Water

Type: Batch

Works and Procedures	Completion Date
A combination of works and procedures listed for concrete wash water.	Completed

Source: Jet Fuel Contaminated Waste

Type: Batch

Works and Procedures	Completion Date
A combination of works and procedures listed for concrete wash water.	Completed

Source: Latex Paint Waste

Type: Batch

Works and Procedures	Completion Date
A combination of works and procedures listed for concrete wash water.	Completed

Source: Mohawk Waste Water

Type: Batch

Works and Procedures	Completion Date
A combination of works and procedures listed for concrete wash water.	Completed
The Risk Assessment Program procedures detailed in the Safety-Kleen Canada Inc. submission dated August 2, 2002 must be implemented for each individual load of Mohawk water received.	Completed

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SCHEDULE B

Source: Oil Contaminated Waste < than 3% by weight

Type: Batch

Works and Procedures	Completion Date
A combination of works and procedures listed for concrete wash water.	Completed

Source: Oil Contaminated Waste > than 3% by weight

Type: Batch

Works and Procedures	Completion Date
A combination of works and procedures listed for concrete wash water.	Completed

Source: Plasma Cutting Water from Metal Manufacturing

Type: Batch

Works and Procedures	Completion Date
A combination of works and procedures listed for concrete wash water.	Completed

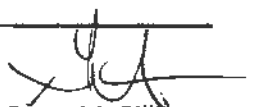
Source: Rinse Water from the Aerospace Industrial Sector

Contaminated with metals.

Type: Batch

Works and Procedures	Completion Date
A combination of works and procedures listed for concrete wash water.	Completed

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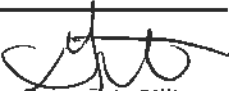
SCHEDULE B

Source: Spent Chromic Acid Waste Water

Type: Batch

Works and Procedures	Completion Date
A combination of works and procedures listed under concrete wash water.	Completed

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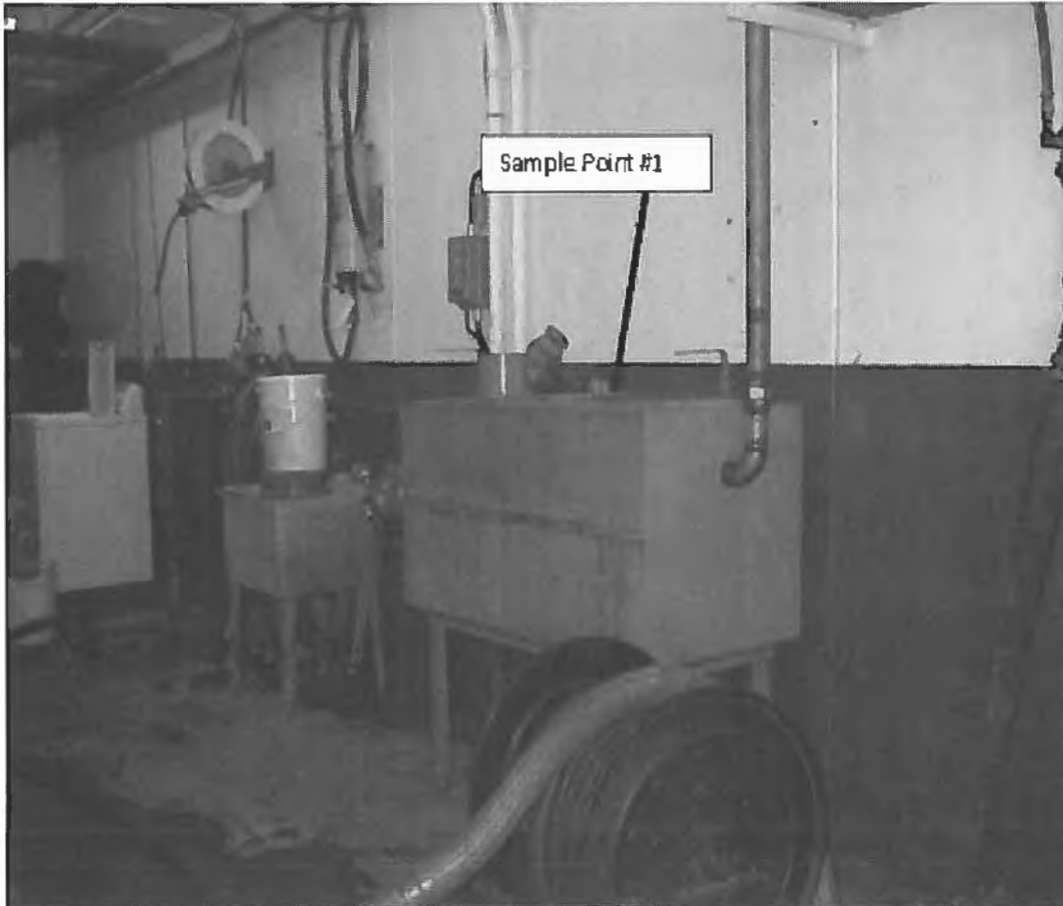

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SCHEDULE B

Photograph of Sample Point 1:



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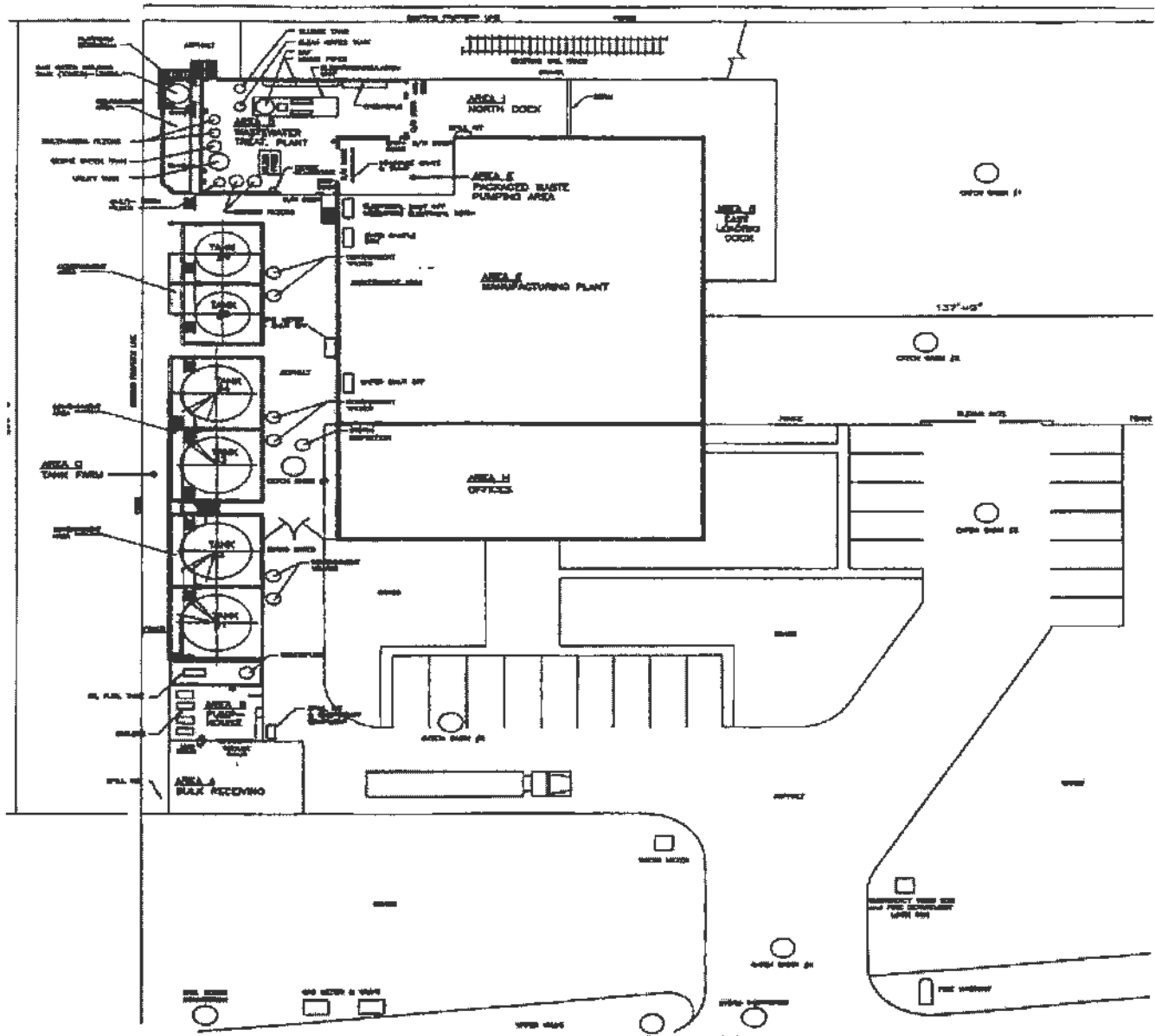
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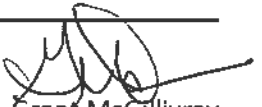
SCHEDULE B

2. SITE PLAN(S)



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GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

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, ISO/IEC 17025:2005 accredited laboratory 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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GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

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

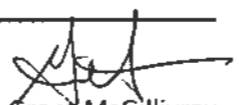
3. SAMPLING PROGRAM

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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GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

SCHEDULE D

SAMPLE POINT: 1

Batch Discharges:

Source: Concrete Wash Water

On one normal operating day once per month collect 1 set of grab samples if discharged to sanitary sewer during the month and analyze for:

- pH
- Biochemical Oxygen Demand
- Total Suspended Solids

Source: Contaminated Cooling Water

On one normal operating day once per month collect 1 set of grab samples if discharged to sanitary sewer during the month and analyze for:

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

Source: Ink Press Cleaning Water

On one normal operating day once per month collect 1 set of grab samples if discharged to sanitary sewer during the month and analyze for:

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

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GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

SCHEDULE D

Source: Jet Fuel Contaminated Waste

On one normal operating day once per month collect 1 set of grab samples if discharged to sanitary sewer during the month and analyze for:

- pH
- Biochemical Oxygen Demand
- Total Suspended Solids
- Oil & Grease Hydrocarbon
- Polycyclic Aromatic Hydrocarbons
- Total BETX
- Chemical Oxygen Demand
- Light Extractable Petroleum Hydrocarbons (LEPH)

Source: Latex Paint Waste

On one normal operating day once per month collect 1 set of grab samples if discharged to sanitary sewer during the month and analyze for:

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

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GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

SCHEDULE D

Source: Mohawk Waste Water

On one normal operating day once per month collect 1 set of grab samples if discharged to sanitary sewer during the month and analyze for:

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

Source: Oil Contaminated Waste < than 3% by weight

On one normal operating day once per month collect 1 set of grab samples if discharged to sanitary sewer during the month and analyze for:

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

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GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

SCHEDULE D

Source: Oil Contaminated Waste > than 3% by weight

On one normal operating day once per month collect 1 set of grab samples if discharged to sewer during the month and analyze for:

- pH
- Total Suspended Solids
- Oil & Grease Hydrocarbon
- Total Oil & Grease
- Sulphate
- Sulphide
- Polycyclic Aromatic Hydrocarbons
- Total BETX
- Chromium (hexavalent) - dissolved
- Total Metals by ICP Scan including:
 - Aluminum, Arsenic, Boron, Iron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Zinc
- Dissolved Metals including:
 - Aluminum, Antimony, Arsenic, Barium, Boron, Fluoride, Tin, Cadmium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Zinc

Source: Plasma Cutting Water from Metal Manufacturing

On one normal operating day once per month collect 1 set of grab samples if discharged to sanitary sewer during the month and analyze for:

- pH
- Biochemical Oxygen Demand
- Total Suspended Solids
- Oil & Grease Hydrocarbon
- Total Oil & Grease
- Total BETX
- Total Metals by ICP Scan including:
 - Aluminum, Arsenic, Boron, Iron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Zinc
- Dissolved Metals including:
 - Aluminum, Antimony, Arsenic, Barium, Boron, Tin, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Zinc

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GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

SCHEDULE D

Source: Rinse Water from the Aerospace Industrial Sector

On one normal operating day once per month collect 1 set of grab samples if discharged to sewer during the month and analyze for:

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

Source: Spent Chromic Acid Waste Water

On one normal operating day once per month collect 1 set of grab samples if discharged to sanitary sewer during the month and analyze for:

- pH
- Total Suspended Solids
- Oil & Grease Hydrocarbon
- Total Oil & Grease
- Cyanide
- Total BETX
- Total Metals by ICP Scan including:
Aluminum, Arsenic, Boron, Iron, Cadmium, Chromium, Cobalt, Copper, Lead,
Manganese, Molybdenum, Nickel, Selenium, Silver, Zinc
- Dissolved Metals including:
Aluminum, Antimony, Arsenic, Barium, Boron, Fluoride, Tin, Cadmium, Chromium,
Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, 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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GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT

SCHEDULE E

This Schedule sets out reporting requirements for this Permit.

1. REPORTING REQUIREMENTS

By April 30, 2017 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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