



September 20, 2017

Tracking Number: 363759

Authorization Number: 114

REGISTERED MAIL

Catalyst Paper Corporation and Catalyst Pulp Operations Limited
doing business as Catalyst Paper, General Partnership
2nd Floor, 3600 Lysander Lane
Richmond BC V7B 1C3

Dear Permittee:

Enclosed is Amended Permit 114 issued under the provisions of the *Environmental Management Act*. Your attention is respectfully directed to the terms and conditions outlined in the permit. An annual fee will be determined according to the Permit Fees Regulation.

This permit does not authorize entry upon, crossing over, or use for any purpose of private or Crown lands or works, unless and except as authorized by the owner of such lands or works. The responsibility for obtaining such authority rests with the Permittee. This permit is issued pursuant to the provisions of the *Environmental Management Act* to ensure compliance with Section 120(3) of that statute, which makes it an offence to discharge waste, from a prescribed industry or activity, without proper authorization. It is also the responsibility of the Permittee to ensure that all activities conducted under this authorization are carried out with regard to the rights of third parties, and comply with other applicable legislation that may be in force.

This decision may be appealed to the Environmental Appeal Board in accordance with Part 8 of the *Environmental Management Act*. An appeal must be delivered within 30 days from the date that notice of this decision is given. For further information, please contact the Environmental Appeal Board at (250) 387-3464.

Please be advised that to meet reporting requirements in a form and manner acceptable to the Director, plans, reports and notifications related to the administration of this permit must be submitted electronically to the following ministry email addresses:

- EnvAuthorizationsReporting@gov.bc.ca, for monitoring and annual reports.
- EnvironmentalCompliance@gov.bc.ca, for non-compliance reports, notifications and emergency notifications.

For further information, including correspondence subject line and document naming conventions, please visit the ministry's Data and Report Submissions web page at

<http://www2.gov.bc.ca/gov/content/environment/waste-management/waste-discharge-authorization/data-and-report-submissions>

Additional requirements may also be specified by regulations under the *Environmental Management Act* including, but not limited to, Pulp Mill and Pulp and Paper Mill Liquid Effluent Control Regulation, Hazardous Waste Regulation, Spill Reporting Regulation, Contaminated Sites Regulation, Public Notification Regulation, and Environmental Data Quality Assurance Regulation.

Administration of this permit will be carried out by staff from the Environmental Protection Division's Regional Operations Branch. Plans, data and reports pertinent to the permit are to be submitted by email or electronic transfer to the Director, designated Officer, or as further instructed.

Yours truly,



Bryan Vroom
for Director, *Environmental Management Act*
Authorizations - South Region

Enclosure

cc: Environment Canada

Catalyst Paper General Partnership, 8541 Hay Road, Crofton BC V0R 1R0



MINISTRY OF ENVIRONMENT

PERMIT

114

Under the Provisions of the Environmental Management Act
Catalyst Paper Corporation and Catalyst Pulp Operations Limited doing business
as Catalyst Paper, General Partnership

2nd Floor, 3600 Lysander Lane
Richmond BC V7B 1C3

is authorized to discharge effluent to marine water from a pulp and paper mill, located near
Crofton, British Columbia, to Stuart Channel subject to the terms and conditions listed below.
Contravention of any of these conditions is a violation of the Environmental Management Act
and may lead to prosecution.

This permit supersedes and amends all previous versions of Permit PE-00114 issued under Part
2, Section 14 of the Environmental Management Act.

1. AUTHORIZED DISCHARGES

1.1. EFFLUENT: PROCESS WASTE WATER, SANITARY WASTE WATER, LANDFILL
LEACHATE AND STORM-WATER RUNOFF which discharges through submerged
outfalls identified as north (N) and south (S) approximately located as shown on Site
Plan A. The site reference number for this discharge is E212008.

1.1.1 The maximum authorized rate of discharge is 230 000 m³/d.

1.1.2 The characteristics of the discharge must be equivalent to or better than:


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for Director, Environmental Management Act
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Parameter	Limit			
pH Range	5.0 – 8.0			
Acute Toxicity	96h LC50 at 100% effluent concentration			
AOX _m	Monthly average = the more stringent of: 0.6 kg/ADt bleached pulp production; or, as specified in applicable legislation.			
	Concentration maximum		Loading maximum	
	Daily maximum mg/L	Monthly average mg/L	Daily maximum kg/day	Monthly average kg/day
TSS	18.75*PROD* 1000/EFF	7.26*PROD* 1000/EFF	18.75*DPROD = 46,875	7.26*DPROD = 18,150
BOD ₅	7.5*PROD* 1000/EFF	3.63*PROD* 1000/EFF	7.5*DPROD = 18,750	3.63*DPROD = 9,075

- 1.1.2.1 A minimum **96h LC50** bioassay means the calculated concentration of effluent that is lethal to 50% of the test fish (Rainbow Trout – *Oncorhynchus mykiss*) during a 96 hour exposure to effluent of 100% concentration. A sample is considered to have failed if more than 50% of the test fish die in a 100% effluent solution.
- 1.1.2.2 **DPROD** represents the 90th percentile level determined from production design figures for combined kraft and paper mill production as air dried tonnes, ADt/day. DPROD is 2500 ADt/day and is used for calculating loading maximums.
- 1.1.2.3 **EFF** means the statistically derived 90th percentile of the rate of effluent discharge, expressed as m³/day, for the days the mill operated during the year corresponding to the PROD.
- 1.1.2.4 **PROD** means a production rate determined using the method described in Section 12 and 13 of the federal Pulp and Paper Effluent Regulations SOR/92-269, under the Fisheries Act for determining the federal **reference production rate (RPR)** and **interim reference production rate (IRPR)**.
- 1.1.2.5 Concentration limits for **Total Suspended Solids (TSS)** and **5-day Biochemical Oxygen Demand (BOD₅)** must be calculated in January of each year based on the values for PROD and EFF and are applicable to the effluent discharged during the calendar year.

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for Director, *Environmental Management Act*
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- 1.1.2.6 **ADt** means air dry tonne of paper product and pulp where the weight of the pulp is corrected to reflect the weight that the product would be if the product were composed of 10% water and 90% fibre.
- 1.1.2.7 When there are less than 3 consecutive years of data available to calculate PROD and EFF, the mill operator may apply to the Director for an **Interim PROD** and **EFF**, or the Director may use the mill's design figures until 3 consecutive years of data is available for calculation of these parameters in accordance with the definitions stated above.
- 1.1.2.8 **AOX_m** means a monthly arithmetic average AOX value expressed as kg of AOX/ADt bleached pulp production. AOX_m is the sum of the daily AOX values in a month (Daily AOX(kg/ADt)) divided by the number of daily AOX values in that month and rounded to one decimal place.
- 1.1.2.9 **Daily AOX_(kg/ADt)** = $(\text{AOX}_{(\text{mg/L})} \times \text{F}_{(\text{m}^3/\text{d})}) / (\text{P}_{(\text{ADt/d})} \times 1,000_{(\text{mg/kg-m}^3/\text{L})})$.
- 1.1.2.10 **F** means the effluent rate of discharge obtained on the day the AOX sample is taken and expressed as m³/day. If F is not recorded on the day the AOX sample is taken, F must be taken as the effluent rate of discharge on the closest prior day on which effluent flow data was recorded.
- 1.1.2.11 **P** means bleached pulp reference production rate (applicable to the year in which AOX_m is calculated) expressed as ADt/day. P must be determined using the method described in sections 12 and 13 of the federal Pulp and Paper Effluent Regulations SOR/92-269 for determining the federal **RPR** (for Kraft mill bleached pulp production).
- 1.1.3 The authorized works are primary clarifier, 3-cell effluent cooling towers, oxygen activated sludge treatment system (UNOX) consisting of a reactor and three secondary clarifiers including one clarifier that can be operated (as needed) as a spare primary or secondary clarifier, two foam control tanks, spill control system including two spill and equalization tanks, a storm-water runoff and collection and pumping system and two submerged outfalls with diffusers and related appurtenances approximately located as shown on Site Plan A. Water conditioning additives for pH control and prevention of algal growth in the cooling towers must be according to manufacturer specifications and Chromium-based water treatment chemicals are not to be used. The authorized works must be installed and operating during authorized discharge.

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1.1.4 The location of the facilities from which the discharges originate is Chemainus District and Municipality of North Cowichan Parcel D (DD105460-1) of Sections 5 & 6; Range 10, Lot 1 of Sections 4 & 5; Range 10, Plan 8971, Lot 5 of Section 4; Range 10, Composite Plan 3198 except Plans 8791 and 484 BL, Lot 104, Lots 475, 407, and 506 and Plan 974 Cowichan Land District and portion of Range 9, Section 3 and Section 4.

1.1.5 The location of the point of discharge is Stuart Channel: Main mill effluent pipeline outfalls (outfall N&S) – Lot 506 and 407. Order in council 796, surveyed right of way 827.

1.2. EFFLUENT: OVERFLOW – FROM THE STORM WATER COLLECTION AND PUMPING SYSTEM AND FORESHORE LEACHATE CONTAINMENT DITCH which discharges through outfall 04 approximately located as shown on Site Plan A. The site reference number for this discharge is E216515.

1.2.1. The maximum authorized rate of discharge is indeterminate and is authorized only when the capacity of the pumping system is exceeded as a result of extreme precipitation events.

1.2.2. The characteristics of the discharge must be equivalent to or better than:

Acute Toxicity	96h LC20 at 100% effluent concentration
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1.2.2.1 **96h LC20** bioassay means the calculated concentration of effluent that is lethal to 20% of the test fish (Rainbow Trout - *Oncorhynchus mykiss*) during a 96 hour exposure to effluent of 100% concentration. A sample is considered to have failed if more than 20% of the test fish die in a 100% effluent solution.


1.2.3. The authorized works are a storm water conveyance system, foreshore outfall and related appurtenances approximately located as shown on Site Plan A.

The authorized works must be installed and operating during authorized discharge.

1.2.4. The location of the facilities from which the discharges originate is the same location as set out in Subsection 1.1.4.

The location of the point of discharge is Stuart Channel: #3 dock overflow (outfall 04): Water-lot lease #102130.

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1.3. EFFLUENT: NON-CONTACT COOLING WATER which discharges through submerged outfalls identified as north (N) and south (S) approximately located as shown on Site Plan A. The site reference number for this discharge is E216514.

1.3.1 The maximum authorized rate of discharge is not specified.

1.3.2 The characteristics of the discharge must be equivalent to or better than:

Acute Toxicity	96h LC20 at 100% effluent concentration
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1.3.2.1 **96h LC20** bioassay is defined in 1.2.2.1

1.3.3 The authorized works are a cooling water conveyance system, two submerged outfalls north (N) and south (S) (as authorized in Subsection 1.1.3) and related appurtenances approximately located as shown on Site Plan A.

The authorized works must be installed and operating during authorized discharge.

1.3.4 The location of the facilities from which the discharges originate is the same location as set out in Subsection 1.1.4.

1.4. EFFLUENT: WATER TREATMENT PLANT BACKWASH which discharges through outfall 03 approximately located as shown on Site Plan A. The site reference number for this discharge is E216517.

1.4.1 The maximum authorized rate of discharge is indeterminate and is authorized only during an emergency overflow event at the water treatment plant.

1.4.2 The characteristics of the discharge must be equivalent to or better than:

Acute Toxicity	96h LC20 at 100% effluent concentration
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1.4.2.1 **96h LC20** bioassay is defined in 1.2.2.1

1.4.3 The authorized works are a backwash collection tank, conveyance pipe and related appurtenances approximately located as shown on Site Plan A.

The authorized works must be installed and operating during authorized discharge.

1.4.4 The location of the facilities from which the discharges originate is the same location as set out in Subsection 1.1.4.

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The location of the point of discharge is Stuart Channel: Filter-plant overflow discharge pipeline (outfall 03): Part on plan 924RW, section 4, range 9; part on parcel B (DD996041) on plan 925RW, section 5, range 10; part on lot 2, plan 5803, section 5.

1.5. EFFLUENT: STORM-WATER POND discharge through outfall 07 approximately located as shown on the attached Site Plan A. The site reference number for this discharge is E100003.

1.5.1 The maximum authorized rate of discharge is indeterminate and is authorized only when the capacity of the pumping system is exceeded as a result of extreme precipitation events.

1.5.2 The characteristics of the discharge must be equivalent to or better than:

Acute Toxicity	96h LC20 at 100% effluent concentration
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1.5.2.1 **96h LC20** bioassay is defined in 1.2.2.1


1.5.3 The authorized works are two storm-water ponds, the storm-water pond pumps and two outfalls located approximately as shown on the attached Site Plan A.

The authorized works must be installed and operating during authorized discharge.

1.5.4 The location of the facilities from which the discharges originate is the same location as set out in Subsection 1.1.4.

The location of the point of discharge is Stuart Channel: Woodroom pond overflow (outfall 07): Waterlot lease #106051 Block E in district lots 565, 676 and 2008.

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2. GENERAL REQUIREMENTS

2.1 SLUDGE WASTING AND DISPOSAL

Sludge wasted from the treatment plant must be disposed of to a site and in a manner approved by the Director, or as authorized by regulation under the Environmental Management Act.

2.2 MAINTENANCE OF WORKS AND EMERGENCY PROCEDURES

2.2.1 The Permittee must inspect the authorized works regularly and maintain them in good working order. In the event of an emergency or condition beyond the control of the Permittee which prevents effective operation of the authorized works or leads to unauthorized discharge, the Permittee must immediately notify the Regional Manager, Environmental Protection, and take appropriate remedial action for the prevention or mitigation of pollution. All statutory requirements will remain in effect, and the Director may reduce or suspend operations to protect the environment until the authorized works have been restored and/or corrective steps have been taken to prevent unauthorized discharges.

2.2.2 During and/or after the emergency event or condition, the Permittee must conduct sampling and analysis of discharges which might be non-compliant with this permit and/or applicable statutory requirements, and as they become available, provide the results to the Regional Manager, Environmental Protection.

2.2.3 Within 30 days of the emergency event or condition, provide a report including results of sampling and analysis, non-compliance with this permit and/or applicable statutory requirements, corrections to the operational system, root cause of the emergency event or condition, and schedule for corrective and preventive action.

2.3 PROCESS MODIFICATION

The Permittee must notify the Director prior to implementing process change which prevents effective operation of the authorized works or leads to unauthorized discharge.

2.4 FLOW MEASUREMENT

Provide and maintain suitable flow measuring device, which is calibrated to be accurate to within 10%, and record once per day the effluent volume discharged over a 24-hour period via the outfalls specified in Subsection 1.1.

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2.5 BYPASSES

The discharge of effluent which has bypassed the authorized treatment works is prohibited unless the approval of the Director is obtained and confirmed in writing.

2.6 FOAM

Should foam attributable to the effluent become objectionable on the receiving waters, the Director may require measures to be taken to either eliminate the cause of the foam or to eliminate the foam by additional treatment in a manner acceptable to the Director.

2.7 COLOUR

Should colour attributable to the effluent become objectionable in the receiving environment, the Director may require additional treatment to remove the colour forming constituents from the effluent prior to discharge.

2.8 NUTRIENTS

Should nutrients be added to increase the efficiency of any biological treatment system, the quantity of nutrient must be so controlled such that excess nutrients are not discharged to the receiving waters. The ratio of BOD₅:N:P must be recorded and data kept available for inspection.

2.9 POSTING OF OUTFALL

A sign must be erected along the alignment of the outfall above high water mark. The sign must identify the nature of the works. The wording and size of the sign must be acceptable to the Director.

2.10 EMERGENCY RESPONSE PLAN

The Permittee must prepare and maintain an Emergency Response Plan that describes the procedures to be taken to prevent or mitigate any deposit of deleterious substance out of the normal course of events including loss of electric power. The Emergency Response Plan must be immediately implemented if there is a deposit, or any risk of a deposit, of a deleterious substance out of the normal course of events. In addition, an updated emergency response plan, including a report on any emergency responses, taken in the previous year, must be kept available, on site for inspection.

The Permittee must also prepare, update annually and keep available for inspection, a remedial plan describing procedures to be taken by the Permittee to eliminate all unauthorized deposits of deleterious substances if the effluent fails an acute lethality test using rainbow trout.

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3. MONITORING and REPORTING REQUIREMENTS

3.1 OPERATIONAL SYSTEM DISCHARGES

The Permittee must maintain suitable sampling facilities and obtain samples (as flows allow) and analyses of effluents authorized in Subsections 1.1, 1.2, 1.3, 1.4 and 1.5 as follows:


Parameter	Sample Type/Frequency				
	Subsection 1.1 Sampling Site 1.1 Outfall Site N & S E212008	Subsection 1.2 Sampling Site 1.2 Outfall Site 04 E216515	Subsection 1.3 Sampling Site 1.3 Outfall Site N & S E216514	Subsection 1.4 Sampling Site 1.4 Outfall Site 03 E216517	Subsection 1.5 Sampling Site 1.5 Outfall Site 07 E100003
Effluent Discharge Flow Rate	CONT		CONT		
pH	CONT	GRAB/O	CONT		GRAB/O
Temperature	CONT		CONT		
Acute Toxicity (96h LC50)	GRAB/M				
Acute Toxicity (96h LC20)		GRAB/O	GRAB/M	GRAB/O	GRAB/O
Total Suspended Solids – TSS	DC/D	GRAB/O	GRAB/M	GRAB/O	GRAB/O
5-day Biochemical Oxygen Demand – BOD ₅	DC/2D	GRAB/O	GRAB/M	GRAB/O	GRAB/O
Adsorbable Organic Halides (AOX)	DC/W Note: Subsection 3.1.6 & 3.1.7				
Oil & Grease		GRAB/O			GRAB/O
Sample Type/Frequency (description of abbreviations)					
GRAB = grab sample		D = daily		2D = every second day	
CONT = continuous		DC = daily composite sample		W = weekly	
O = during overflow events, and weekly thereafter if overflow continues				M = monthly	

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- 3.1.1 For continuous monitoring of pH, flow and temperature for sampling sites 1.1 & 1.3, the daily minimum, daily maximum, daily average and monthly average values must be recorded.
- 3.1.2 For the 96h LC50 and 96h LC20 tests, the LC50, LC20 and the percent fish mortalities must be recorded.
- 3.1.3 Acute toxicity testing must be increased from once per month to once per week if a sample of effluent fails a toxicity test. Samples must continue to be collected and tested weekly until they pass three consecutive tests, at which time testing may revert to once per month.
- 3.1.4 The compliance sampling method used to provide samples of effluent authorized in Subsection 1.1 for determination of TSS, BOD₅ and daily AOX must consist of collecting an effluent sample during a period of 24 hours by taking a composite of equal-volume samples in the outlet from the secondary effluent treatment facility (UNOX) identified as sampling site 1.1 as shown on the attached Site Plan A at least every fifteen (15) minutes.
- 3.1.5 For TSS and BOD₅ from sampling site 1.1, the monthly minimum, maximum and average concentrations (mg/L) and the total daily loads (kg/d) must be recorded. The daily total loads are calculated by multiplying the TSS (DC/D) and BOD₅ (DC/2D) values by the corresponding daily Effluent Discharge Flow Rates in 1 000 m³/day.
- 3.1.6 For AOX, the daily discharge concentration of AOX in the effluent in milligrams per litre on the days in which an AOX sample is taken, the calculated monthly average AOX (AOX_m) level in kilograms per air-dried tonne of pulp, and the corresponding values of F and P, as specified in Subsection 1.1, must be recorded.
- 3.1.7 Subject to Subsection 2.2, monitoring and reporting for AOX is not required after periods exceeding 30 consecutive days when the bleached kraft pulp mill operation is shut down. Upon re-start of the bleached kraft pulp mill operation, monitoring and reporting for AOX must be carried out as specified in Subsection 3.1.
- 3.1.8 Based on the results of effluent monitoring or receiving environment monitoring, the effluent monitoring, analysis and reporting requirements specified in Subsection 3.1 may be extended or altered by the Director.

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3.2 RECEIVING ENVIRONMENT MONITORING

Based on the federal environmental effects monitoring interpretive reports or other information on the receiving environment, additional receiving environment monitoring requirements or additional measures for the protection of the environment may be specified by the Director.

3.3 SAMPLING AND ANALYTICAL PROCEDURES

Sampling must be carried out in accordance with the procedures described in the most recent edition of the "British Columbia Field Sampling Manual for Continuous Monitoring Plus the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment, and Biological Samples" or by suitable alternative procedures as authorized by the Director.

Analyses are to be carried out in accordance with procedures described in the most recent edition of "British Columbia Laboratory Methods Manual for the Analysis of Water, Wastewater, Sediment, Biological Materials and Discrete Ambient Air Samples" or by suitable alternative procedures as authorized by the Director.

Copies of the above manuals may be purchased from Queen's Printer Publications Centre, P. O. Box 9452, Stn. Prov. Gov't. Victoria, British Columbia, V8W 9V7 (1-800-663-6105 or (250) 387-6409). The manuals are also available at <http://www.env.gov.bc.ca/epd/wamr/> and at all Environmental Protection offices.

3.4 QUALITY ASSURANCE

All data of analyses required to be submitted by the Permittee must be conducted by a laboratory acceptable to the Director. At the request of the Director, the Permittee must provide all relevant on-site or contracted laboratory quality assurance information with respect to data required under Subsection 3.1. including but not limited to:

- 3.4.1 The ratio of samples to blanks for each parameter and the acceptable blank values;
- 3.4.2 The ratio of samples to duplicates for each parameter and the acceptable relative percent difference between duplicates;
- 3.4.3 The ratio of samples to reference standards for each parameter and the acceptable percent recovery for reference standards; and,
- 3.4.4 The corrective measures to be taken if duplicates, blanks or reference standards are outside acceptable ranges.

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3.5 REPORTING

The Permittee must submit reports in a form and manner acceptable to the Director including:

3.5.1 Information required by Subsection 2.2.

3.5.2 Once each month within 30 days of each month:

- the results of monitoring as specified in Subsection 3.1.

3.5.3 For the calendar year, by January 31 of each year, and within 30 days of assignment of an IRPR, values as specified in Subsection 1.1.2:

- PROD; EFF; and, P;
- Limits for TSS and BOD5;
- The 90th percentiles of the daily production of finished product at the mill and the 90th percentile of effluent rate of discharge for the previous three years.

3.5.4 Within 30 days of occurrences of non-compliance with the requirements of this permit and/or applicable statutory requirements, all relevant results of monitoring, explanation of the most probable cause(s) of the occurrences, and corresponding corrective and preventive actions taken and/or scheduled.

3.5.5 Each year on or before March 1, a compilation and interpretation of all occurrences of non-compliance with this permit and/or applicable statutory requirements, and failures of continuous monitors used to measure parameters as specified in Subsection 3.1 during the previous calendar year, with an evaluation of the effectiveness of corrective and preventive actions taken.

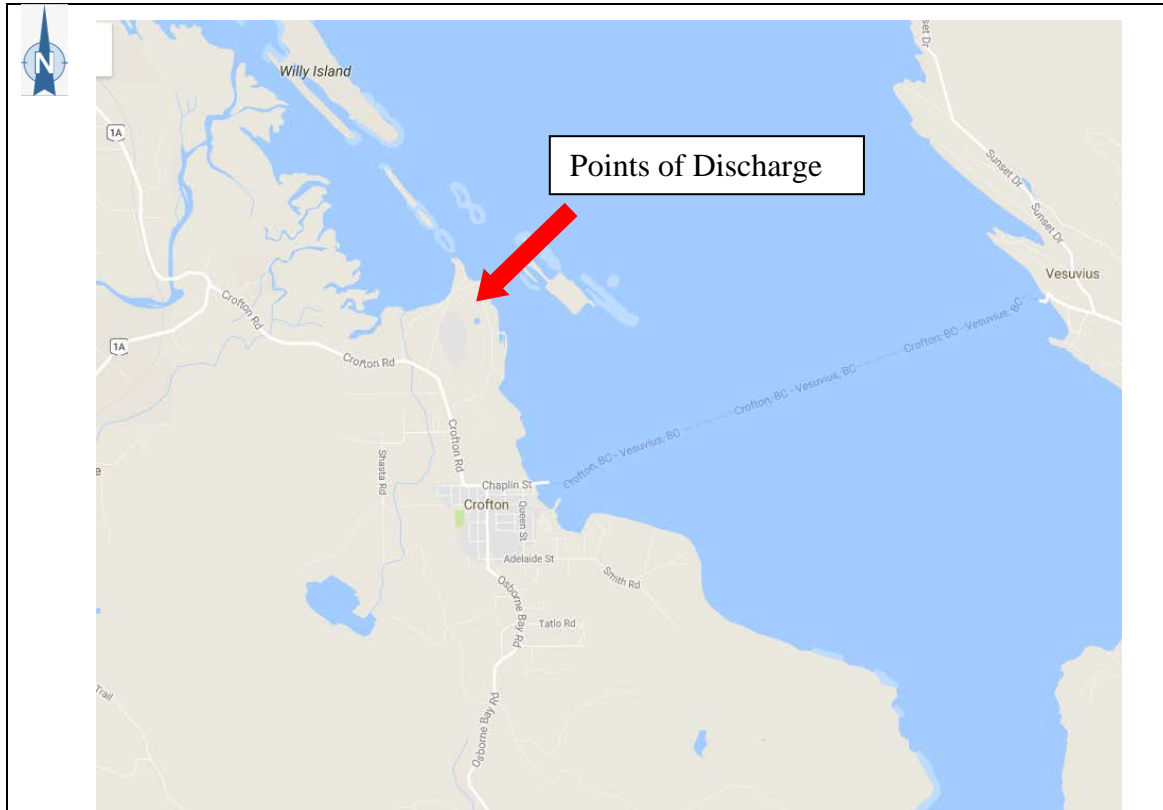
3.5.6 Annually, within 30 days of the issuance of each required interpretive report for the federal Environmental Effects Monitoring (EEM), the findings of the interpretive reports and any other available information on environmental impacts and trends in the receiving environment.

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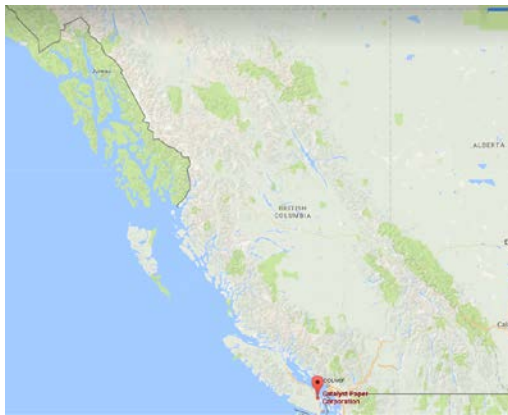


Bryan Vroom
for Director, *Environmental Management Act*
Authorizations - South Region

LOCATION MAP



Scale: Not to scale



The facility where the points of discharge are authorized is approximately located at:
48.877448° N, 123.648853° W

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