



File: PA-05804

December 1, 2005

**REGISTERED: RT 895 184 839 CA**

Quesnel River Pulp Company, a division of West Fraser Mills Ltd.  
1000 Finning Road  
Quesnel, BC V2J 6A1

Dear Permittee:

Enclosed is Amended Permit PA-05804 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.

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Administration of this permit will be carried out by staff from the Thompson and Cariboo Regions. Plans, data and reports pertinent to the permit are to be submitted to the Regional Manager, Environmental Protection, at Ministry of Environment, Regional Operations, Thompson and Cariboo Regions, Suite 400 - 640 Borland St, Williams Lake, British Columbia V2G 4T1.

Yours truly,

A handwritten signature in black ink, appearing to read "Douglas Hill". The signature is written in a cursive, flowing style.

Douglas Hill, P.Eng.  
for Director, *Environmental Management Act*  
Cariboo Region

Enclosure

cc: Environment Canada

**PERMIT  
PA-05804**

*Under the Provisions of the Environmental Management Act*

**West Fraser Mills Ltd.  
doing business under the firm name and style of  
Quesnel River Pulp Company,  
1000 Finning Road  
Quesnel, British Columbia  
V2J 6A1**

is authorized to discharge contaminants to the air from a thermo-mechanical/chemi-thermo-mechanical pulp (TMP/CTMP) mill located in Quesnel, British Columbia, subject to the conditions listed below. Contravention of any of these conditions is a violation of the *Environmental Management Act* and may result in prosecution.

This permit supersedes and amends all previous versions of Permit PA-05804 issued under Part 2, Section 14 of the *Environmental Management Act*.

**1. AUTHORIZED DISCHARGES**

1.1. This section applies to the discharge of air contaminants from seven cyclones. The site reference number for this discharge is E214088.

1.1.1 The maximum authorized rate of discharge is 173 m<sup>3</sup>/s.

1.1.2 The authorized discharge period is continuous.

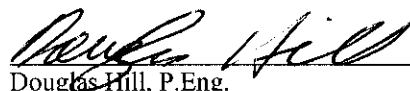
1.1.3 The characteristics of the discharge shall be equivalent to or better than:

Total Particulate	115 mg/m <sup>3</sup>
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1.1.4 The authorized works are seven cyclones, six primary refiners, four chip pre-heaters, three flash drying systems, vents and related appurtenances approximately located as shown on Site Plan A.

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(most recent)



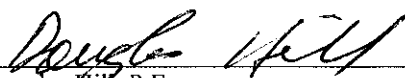
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for Director, *Environmental Management Act*  
Cariboo Region  
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- 1.1.5 The location of the facilities from which the discharge originates and the location of the point of discharge is Plan 26442, Lot 1, District Lot 5013, except Plan 27974 and R/W 27072 subject to stat R/W PGP 39252.
- 1.2. This section applies to the discharge of air contaminants from pulp refining system vents. The site reference number for this discharge is E214087.
- 1.2.1 The maximum authorized rate of discharge is 30 m<sup>3</sup>/s.
- 1.2.2 The authorized discharge period is continuous.
- 1.2.3 The characteristics of the discharge shall be of a nature originating from a refining system including air, water vapour and wood volatiles.
- 1.2.4 The authorized works are two chip bins, three atmospheric refiner exhausts, two chip/pulp feed conveyors and related appurtenances approximately located as shown on Site Plan A.
- 1.2.5 The location of the facilities from which the discharge originates and the location of the point of discharge is the same location as set out in Section 1.1.
- 1.3. This section applies to the discharge of air contaminants from TMP/CTMP process equipment and storage tank vents. The site reference number for this discharge is E214086.
- 1.3.1 The maximum authorized rate of discharge is 213 m<sup>3</sup>/s.
- 1.3.2 The authorized discharge period is continuous.
- 1.3.3 The characteristics of the discharge shall be of a nature originating from TMP and CTMP processing equipment and storage tanks including air and water vapour.
- 1.3.4 The authorized works are vents associated with cleaning and screening areas, tailings chest, bleached pulp thickener, pulp press, two sludge presses, spray coolers associated with effluent treatment and related appurtenances approximately located as shown on Site Plan A.
- 1.3.5 The location of the facilities from which the discharge originates and the location of the point of discharge is the same location as set out in Section 1.1.
- 1.4. This section applies to the discharge of air contaminants from a natural gas fired package boiler. The site reference number for this discharge is E214085.
- 1.4.1 The maximum authorized rate of discharge is 6.7 m<sup>3</sup>/s.

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- 1.4.2 The authorized discharge period is continuous.
- 1.4.3 The characteristics of the discharge shall be of a nature originating from a natural gas fired boiler.
- 1.4.4 The authorized works are a natural gas fired package boiler and related appurtenances approximately located as shown on Site Plan A.
- 1.4.5 The location of the facilities from which the discharge originates and the location of the point of discharge is the same location as set out in Section 1.1.

## 2. GENERAL REQUIREMENTS

### 2.1. Maintenance of Works

The Permittee shall inspect the authorized works regularly and maintain them in good working order. Notify the Regional Manager, Environmental Protection, of any malfunction of these works.

### 2.2. 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.

### 2.3. Emergency Procedures

In the event of an emergency or condition beyond the control of the Permittee which prevents effective operation of the approved method of pollution control, the Permittee shall immediately take appropriate remedial action and shall notify the Regional Manager, Environmental Protection:

(a) by telephone at (250) 398-4530 if the condition occurs between the hours of 08:30 and 16:30, Monday to Friday, excluding statutory holidays; or

(b) by facsimile transmission at (250) 398-4214 if the condition occurs at any other time.

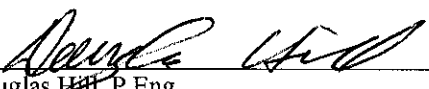
All such reports must be received within 24 hours of the detection of the occurrence.

In addition, all reportable spills to the environment (as defined in the Spill Reporting Regulation) shall be reported to the Provincial Emergency program at 1-800-663-3456, as prescribed in the Spill Reporting Regulation.

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2.4. **Process Modifications**

The Regional Manager, Environmental Protection, shall be notified prior to implementing changes to any process that may adversely affect the quality and/or quantity of the discharge.

2.5. **Water Vapour**

The Permittee shall provide additional works or take the necessary steps to decrease the amount of water vapour discharged to the air, if, in the opinion of the Regional Manager, Environmental Protection, conditions develop which may interfere with visibility of the normal conduct of transport or business.

2.6. **Odour Control**

The Permittee shall provide additional works or take the necessary steps to decrease the amount of odorous gasses discharged to the air, if, in the opinion of the Regional Manager, Environmental Protection, local odour levels become excessive.

3. **MONITORING AND REPORTING REQUIREMENTS**

3.1. **Discharges - Cyclones**

Visual monitoring of the discharges authorized by Subsection 1.1 may be carried out by Environmental Protection personnel as part of an ambient monitoring program for the entire mill operation. Based on these monitoring results, the Permittee may be required to undertake source monitoring.

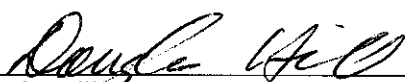
3.2. **Discharges – Exhausts, Vents and Boiler**

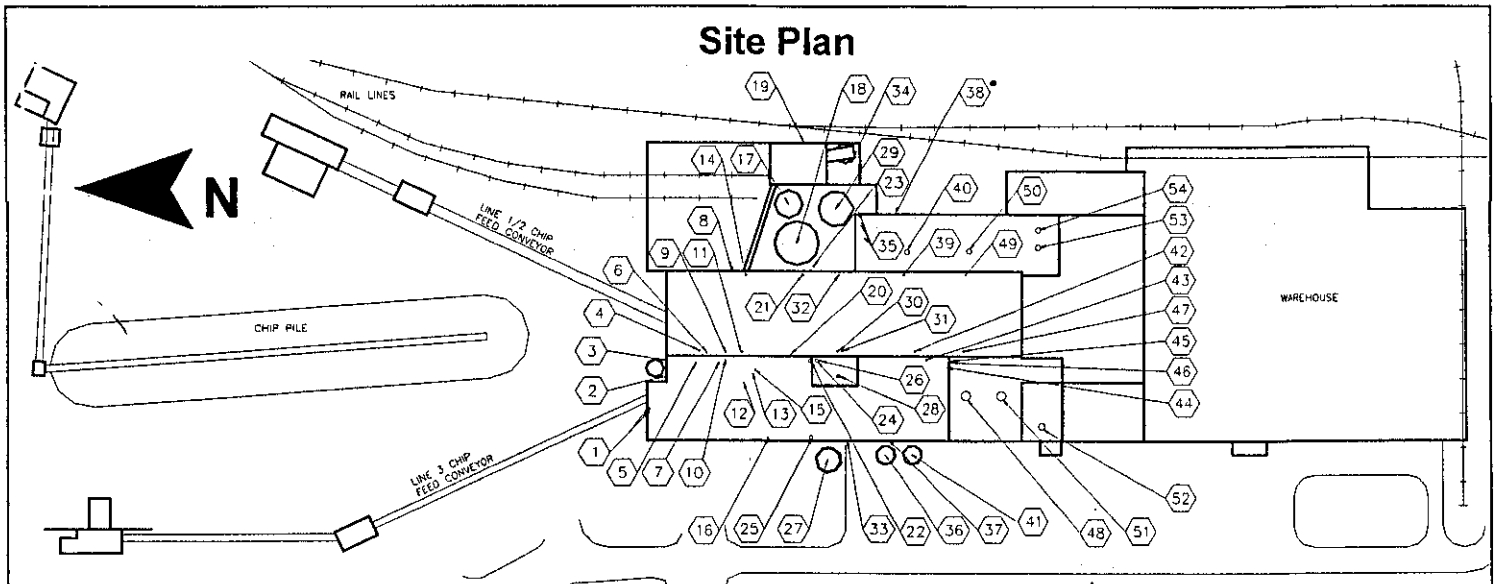
Monitoring of the TMP/CTMP refining systems and equipment and storage tank exhausts and vents and the natural gas fired boiler emissions, authorized in Subsections 1.2., 1.3 and 1.4, respectively, may be undertaken by Environmental Protection personnel as part of an ambient monitoring program for the entire mill operation. Based on these monitoring results, the Permittee may be required to undertake source monitoring.

3.3. **Odour Monitoring**

The Permittee shall undertake monitoring for odorous TRS compounds, if, in the opinion of the Regional Manager, Environmental Protection, odour level become excessive.

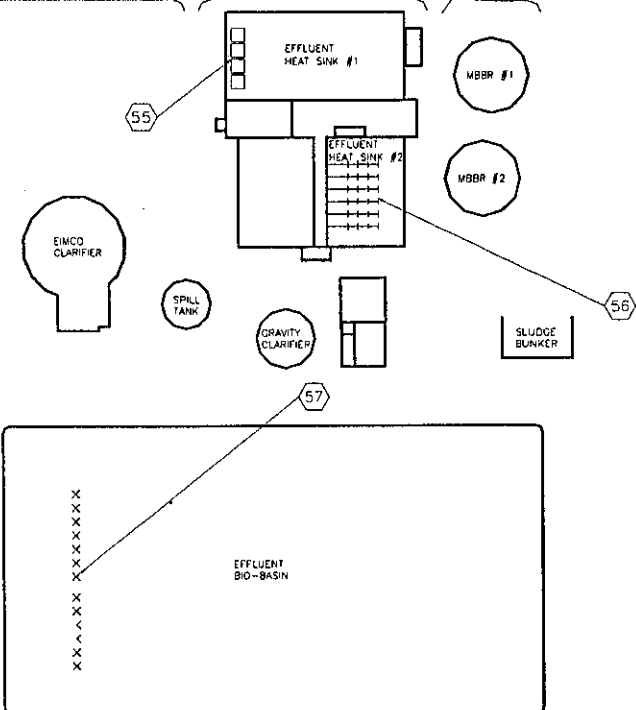
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- 11) Line 1/2 - Condensing Scrubber Exhaust
- 12) Line 3 - A.P.S. Bin #2 & Inter-stage Pressate Tank Exhaust
- 13) Line 3 - Hot White Water Tank Exhaust
- 14) Line 1 - Disc Filter Exhaust
- 15) Line 3 - Chip Impreg. Bin Exhaust
- 16) Line 3 - Refiner Plant Exhaust
- 17) Line 1/2 - White Water Storage Tank Vent
- 18) Line 1/2 - High Density Storage Vent
- 19) Line 1/2 - Bleach Plant P1 Process Exhaust
- 20) Line 1/2 - Chip Conveyor Exhaust
- 21) Line 2 - Disc Filter Exhaust
- 22) Line 1 - Pulp Cyclone Exhaust
- 23) Water Glycol Boiler Exhaust
- 24) Line 2 - Pulp Cyclone Exhaust
- 25) Line 3 - Thickening Plant Exhaust
- 26) Line 1/2 - A.P.S. Bin #4 Exhaust
- 27) Line 3 - High Density Storage Vent
- 28) Line 1/2 - F.O.P. Process Exhaust
- 29) Line 1/2 - Blending Tank Vent
- 30) Line 1/2 - Pulp Cyclone Exhaust
- 31) Line 1/2 - Secondary & Rejects Refiner Exhaust
- 32) Line 1/2 - Tailings Chest Exhaust
- 33) Line 3 - Bleach Plant P1 Stage Exhaust
- 34) Line 1/2 - P2 Bleach Tower Exhaust
- 35) Package Boiler Exhaust
- 36) Line 3 - White Water Storage Tank Vent
- 37) Line 3 - Bleach Plant P2-Stage Exhaust
- 38) Line 1/2 - Flash Dryer Condensate Collection Tank Vent
- 39) Line 1 - Twin Roll Press Exhaust
- 40) Line 1 - First Stage Cyclone
- 41) Line 3 - Broke Tank Vent
- 42) Line 1 - Disc Filter Exhaust
- 43) Line 3 - Dewatering Plant Exhaust
- 44) Line 3 - Reboiler Non-Condensable Vent
- 45) Line 3 - Condensate Collecting Tank Vent
- 46) Line 3 - Reboiler Pressure Relief Vent
- 47) Line 2 - Disc Filter Exhaust
- 48) Line 3 - Second Stage Cyclone
- 49) Line 2 - Twin Roll Press Exhaust
- 50) Line 2 - First Stage Cyclone
- 51) Line 3 - First Stage Cyclone
- 52) Line 3 - Cooling Cyclone
- 53) Line 2 - Cooling Cyclone
- 54) Line 1 - Cooling Cyclone
- 55) Effluent Heat Sink #1 Spray Cooler
- 56) Effluent Heat Sink #2 Spray Cooler
- 57) Effluent Lagoon Spray Cooler

- LOCATIONS OF DISCHARGE:**
- 1) Line 3 - Chip Conveyors & A.P.S. Bin #1 Exhaust
  - 2) Line 3 - Chip Drainer Tank Exhaust
  - 3) Line 3 - Chip Drainer Exhaust
  - 4) Line 1/2 - Chip Conveyor Exhaust
  - 5) Line 3 - Chem. Impreg. Plant Process Exhaust
  - 6) Line 1/2 - Chip Washer Exhaust
  - 7) Line 3 - Heat Recovery Plant Exhaust
  - 8) Line 1/2 - Clear & Cloudy Chest Exhaust
  - 9) Line 1/2 - Preheater Vent
  - 10) Line 1/2 - Chip Conveyor Exhaust



Scale (Approx.): 1: 2250

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(Office Use Only)

*David Hill*  
Regional Manager, Environmental Protection  
for Director, Environmental Management Act  
Region:  
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