



DATE: JAN 29 2001

**REGISTERED MAIL**

File: PR-7773

Ron Erickson  
Fibreco Pulp Inc.  
P.O. Box 330  
Taylor BC V0C 2K0

Dear Permittee:

Enclosed is amended Permit PR-7773 issued under the provisions of the Waste Management Act. Your attention is respectfully directed to the conditions outlined in the Permit. An annual permit fee will be determined according to the Waste Management Permit Fees Regulation.

This Permit does not authorise 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 shall rest with the Permittee.

The Permittee shall ensure that any discharge under this Permit meets the requirements of other regulatory agencies including, but not restricted to, Environment Canada and the Department of Fisheries and Oceans (Canada).

The administration of this Permit will be carried out by staff from our Regional Office located in Prince George, (telephone (250) 565-6451). Plans, data and reports pertinent to the Permit are to be submitted to the Environmental Protection office, 3rd Floor, 1011 Fourth Avenue, Prince George, British Columbia, V2L 3H9 and a copy of all plans, data and reports is to be submitted to the sub-Regional office at Room #400, 10003 - 110th Avenue, Fort St. John, British Columbia, V1J 6M7 (telephone (250) 787-3392).

This decision may be appealed to the Environmental Appeal Board. Notice of the appeal must (1) be in writing, (2) include the grounds for appeal, (3) be directed by registered mail or personally delivered to the Chair, Environmental Appeal Board, 4th Floor 836 Yates Street, Victoria B.C., V8V 1X5 (4) be delivered within 30 days from the date notice of the decision is given, and (5) be accompanied by a fee of \$25, payable to the Minister of Finance and Corporate Relations.

Yours truly,

R.W. Girard, R.P. Bio.  
Regional Waste Manager  
Omineca-Peace Region

enclosure

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**Ministry of  
Environment,  
Lands and Parks**

Pollution Prevention  
Environment and Lands  
Omineca-Peace Region

Mailing Address:  
325 - 1011 Fourth Avenue  
PRINCE GEORGE BC V2L 3H9

Telephone: (250) 565-6451  
Facsimile: (250) 565-6629



Pollution Prevention  
1011 Fourth Avenue  
Prince George  
British Columbia V2L 3H9  
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MINISTRY OF ENVIRONMENT,  
LANDS AND PARKS

**PERMIT**  
PR-7773

*Under the Provisions of the Waste Management Act*

**Fibreco Pulp Inc.**  
**P.O. Box 330**  
**Taylor, BC**  
**V0C 2K0**

is authorised to discharge refuse to the land from a **Bleached Chemi-Thermomechanical Pulp (BCTMP) Mill** located near the community of Taylor, British Columbia, subject to the conditions listed below. Contravention of any of these conditions is a violation of the Waste Management Act and may result in prosecution.

This permit supersedes and amends all previous versions of Permit PR-7773, issued under Part 2 Section 10 of the Waste Management Act.


**1. AUTHORIZED DISCHARGES**

- 1.1** This subsection applies to the discharge of refuse from operation of a **BCTMP Mill** to land. The site reference number for this discharge is E210639.
- 1.1.1** The maximum authorized rate of discharge to the landfill is 13,650 oven dry tonnes per year (calendar year basis).
- 1.1.2** The waste that may be discharged consists of wood residue, clarifier sludge and biosolids from BCTMP mill processing and effluent treatment.
- 1.1.3** The works authorized are a landfill operation comprising of two separate areas (a ravine adjacent to the existing landfill site and an abandoned ditch), located approximately as shown on the attached site plan.

Date Issued: March 11, 1988

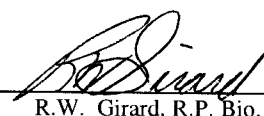
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Regional Waste Manager

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- 1.1.4 The location of the facilities from which the discharge originates is described as the NW<sup>1</sup>/<sub>4</sub>, Section 30, Township 82, Range 17, W6M, Peace River District, except plan 9623 and the SW<sup>1</sup>/<sub>4</sub>, Section 31, Township 82, Range 17, W6M, Peace River District except plan PGP36356.
- 1.2 The discharge to which this Sub-Section is applicable is from **direct application of pulp mill residual consisting of de-watered primary sludge, secondary clarifier sludge and wood fines to land as a soil amendment**. The BC Environment reference number for this discharge is E240463.
- 1.2.1 The rate of pulp mill residual removed from the mill site for application to land is variable.
- 1.2.2 The maximum rate of application is 40 oven dry tonnes per Hectare.
- 1.2.3 No pulp mill residual shall be deposited or stored within 30 metres of any watercourse or within 100 metres of any watercourse used as a source of potable water.
- 1.2.4 No pulp mill residual shall be deposited or stored within 100 metres of any groundwater well.
- 1.2.5 The permittee shall ensure that any run off from storage areas is contained and prevented from entering any watercourse, groundwater well or dugout.
- 1.2.6 The permittee shall take measures to minimise objectionable odours resulting from storage and application of pulp mill residual.
- 1.2.7 Re-application of pulp mill residual to any parcel of land within a period of five years will require the written consent of the Regional Waste Manager
- 1.2.8 Immediate neighbouring residents shall be contacted directly and notified that a pulp mill residual land application program is to be conducted
- 1.2.9 Selection of suitable application sites will be based on the foregoing requirements as assessed by a qualified professional and deemed acceptable to the Regional Waste Manager.
- 1.2.10 Land application of pulp mill residual shall be conducted in accordance with the "Operating Guidelines" referred to in sub-section 2.2, below.



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Regional Waste Manager

## 2. GENERAL REQUIREMENTS

### 2.1 Landfill Operation

- 2.1.1 The permittee shall compact the refuse and apply cover material as required by the Regional Waste Manager. The Regional Waste Manager may issue additional operating instructions related to covering and compaction as considered necessary.
- 2.1.2 All necessary berms and drainage diversion ditches shall be constructed and maintained, as required, at locations acceptable to the Regional Waste Manager to the satisfaction of the Regional Waste Manager.
- 2.1.3 Surface run-off shall be diverted around the landfill site and effluent treatment system and directed to a natural watercourse. The Regional Waste Manager may require additional measures related to run-off diversion as considered necessary.
- 2.1.4 There shall be no discharge of domestic type refuse or scrap metal to the landfill area unless prior authorization is obtained from the Regional Waste Manager.
- 2.1.5 There shall be no open burning of refuse

### 2.2 Pulp Mill Residual Application To Land

- 2.2.1 The permittee shall carry out the activity in accordance with the residual application, monitoring and reporting program described in the most current version of the permittee's document "Operating Guidelines for the Land Application of Fibreco Pulp Residual to Agricultural Lands" (Operating Guidelines).
- 2.2.2 The Regional Waste Manager may alter or accept changes to the Operating Guidelines based on a request by the permittee, results submitted or any other information obtained by Pollution Prevention regarding land application activity.
- 2.2.3 The permittee shall provide landowners or operators information related to the characteristics of the pulp mill residual, including guidelines for land application, and any other pertinent recommendations regarding specific on-site management and use.
- 2.2.4 For each land application site, the location of nearby water sources used for livestock drinking or domestic purposes shall be identified. The Regional Waste Manager may require the permittee to carry out surface water or



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Regional Waste Manager

groundwater monitoring at locations and in a manner required if, based on complaint, observation or other evidence monitoring is warranted.

- 2.2.5 Once each year, the permittee shall prepare a report, in accordance with the requirements set out in the Operating Guidelines, summarising the previous calendar year's activity. The report shall be in a format acceptable to the Regional Waste Manager.

### 2.3 Health Risk Assessment Related to Pathogenic Organisms

The permittee is authorized to transfer pulp residual to farm sites during the trial, land application phase occurring in the winter of 2001, provided the following activities take place.

The permittee shall assess human health risk related to pulp mill residual. This assessment shall be performed and submitted prior to proceeding with land application activity intended to take place after that related to the winter, 2001 program, be conducted in a manner acceptable to the Regional Waste Manager, and is recommended to include, but not be limited to, the following.

- 1) representative, composite sampling and analysis of pathogenic organisms (including E.coli, enterococcus and Salmonella) in Fibreco residual material
  - a) located at the mill site prior to transfer to land application sites,
  - b) located on application sites immediately (or within a reasonable time) prior to land application,
  - c) where surface application (top dressing) occurs, comparative sampling and analysis of affected soil, after application, and non-affected soil in the proximity of the affected field,
- 2) a literature review of studies related to health risk assessments conducted at other, similar facilities, and
- 3) information obtained from the experiences of other pulp and paper facilities operators employing land application as a residual management technique.

Sampling frequency shall be established in consultation with the Ministry of Environment. Lands and Parks staff.

### 2.4 Sampling

Sampling shall be carried out in accordance with procedures described in "British Columbia Field Sampling Manual for Continuous Monitoring plus the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment, and Biological Samples. 1996 Edition (Permittee)," or by suitable alternative procedures as authorized by the Regional Waste Manager.



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Regional Waste Manager

**2.5 Analysis**

Analysis shall be carried out in accordance with procedures described in "British Columbia Environmental Laboratory Manual the analysis of Water, Wastewater, Soil, Sediment, and Biological Materials, 1994 Edition (Permittee).

**2.6 Alternatives to Treatment of Domestic Sewage in the Pulp Mill Treatment System**

The permittee shall review the advantages and disadvantages, and feasibility of eliminating domestic sewage from the pulp mill effluent treatment system and provide a summary report, acceptable to the Regional Waste Manager, prior to progressing beyond the 2001 trial, land application phase.

**2.7 Maintenance Of Works**

The permittee shall 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 continuing operation of the authorized works or results in a malfunction of these works, the permittee shall notify Pollution Prevention staff within 60 hours and take appropriate remedial action.

**2.8 Emergency Procedures**

In the event of an emergency or condition beyond the control of the permittee, which prevents continuing operation of the approved method of pollution control, the permittee shall immediately notify Pollution Prevention staff and take appropriate remedial action.

**2.9 Process Modifications**

The permittee shall notify the Regional Waste Manager prior to implementing changes to any process that may affect the quality and/or quantity of discharge.

**3. MONITORING AND REPORTING REQUIREMENTS**

**3.1 Production Data**

For each month, the permittee shall separately record the annual cumulative mass (tonnes) of residue deposited at the landfill site and that removed for off-site land application. In addition, the permittee shall record the total annual cumulative mass (tonnes) of saleable pulp produced. From this information, the monthly, waste and utilized residue production figures shall be calculated as percentages of total production. Such records and calculations are to be kept available for inspection and are to be submitted, suitably tabulated, with other monitoring data.

3.2 Reporting

Submit the information from the monitoring program described in Section 3.1 above, within 30 days of the end of the month to which the data pertains.


Reporting related to the land application program described in Section 2.2.5, above, shall be submitted prior to May 31 of the year to which the data pertains.

Reporting related to the evaluation related to human health risk described in Section 2.3, above, shall be submitted prior to September 30, 2001.

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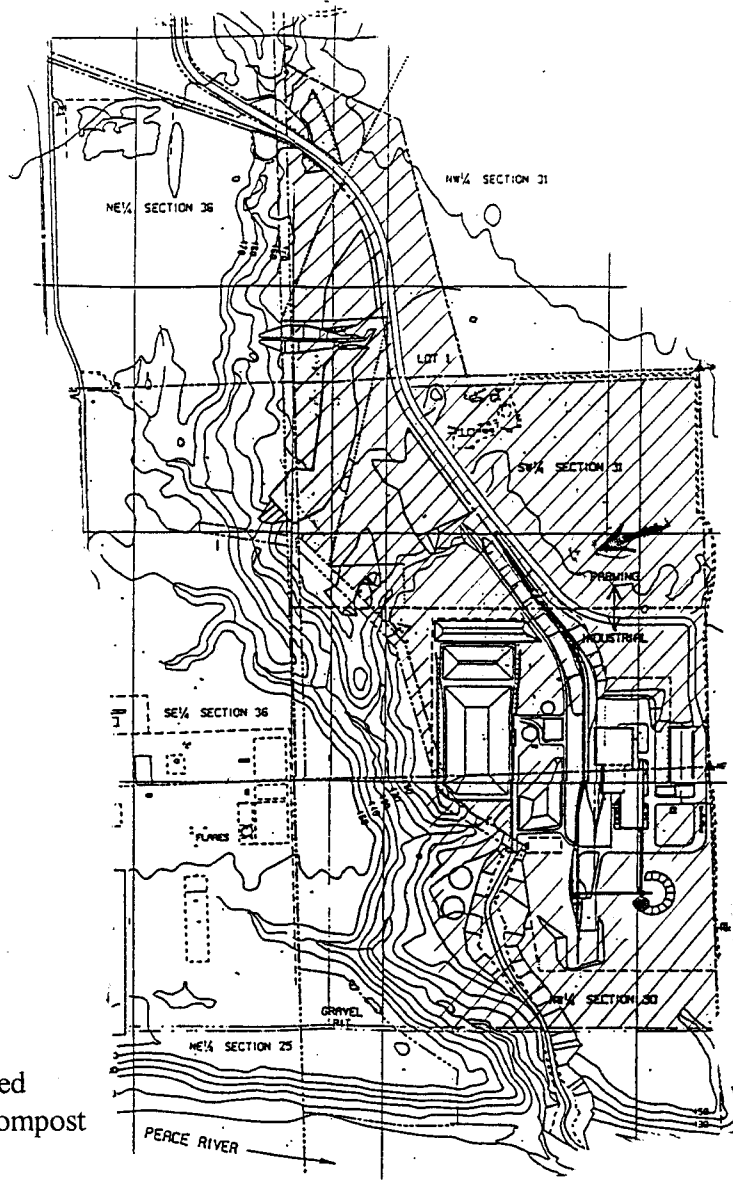


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Regional Waste Manager

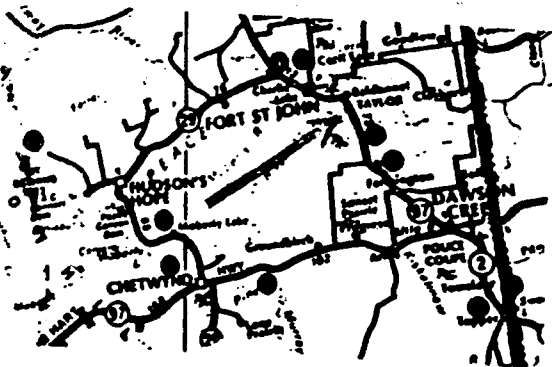
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### SITE PLAN A



Note:  
Shaded Area represents area reserved  
for land application of sludge and compost  
during trials and demonstrations.

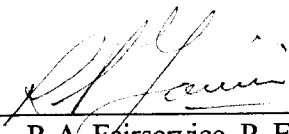
Location Map



Scale: Not to Scale

PERMIT: PR-7773

Date: SEP 03 1997

  
R.A. Fairservice, P. Eng.  
Assistant Regional Waste Manager  
Omineca-Peace Region