



File: PR-07322

Date: MAR 30 2005

**REGISTERED MAIL**

WESTERN PULP LIMITED  
2100 - 1075 West Georgia Street  
Vancouver, British Columbia V6E 2G2

Dear Permittee:

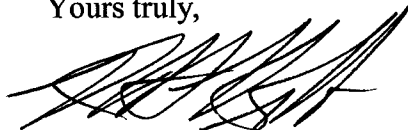
Enclosed is Amended Permit PR-07322 issued under the provisions of the *Environmental Management Act*. Your attention is respectfully directed to the terms and conditions outlined in the permit. An annual fee will be determined according to the Permit Fees Regulation.

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.

Administration of this permit will be carried out by staff from the Lower Mainland Region. Plans, data and reports pertinent to the permit are to be submitted to the Regional Manager, Environmental Protection, at Ministry of Water, Land and Air Protection, Regional Operations, Lower Mainland Region, 10470 - 152 Street, Surrey, BC, V3R 0Y3.

Yours truly,

A handwritten signature in black ink, appearing to read 'R. H. Robb', written over a horizontal line.

R. H. Robb  
for Director, *Environmental Management Act*  
Lower Mainland Region

Enclosure

cc: Environment Canada  
Jeanne Taylor, Western Pulp Limited, PO Box 5000, Squamish, BC V0N 3G0



**PERMIT  
PR-07322**

*Under the Provisions of the Environmental Management Act*

**WESTERN PULP LIMITED  
2100 – 1075 West Georgia Street  
Vancouver, British Columbia  
V6E 2G2**

is authorized to discharge refuse to the land from a kraft pulp mill located at Woodfibre, 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 PR-07322 issued under Part 2, Section 14 of the *Environmental Management Act*.

**1. AUTHORIZED DISCHARGES**

**1.1.** This section applies to the discharge of refuse from a **KRAFT PULP MILL**. The site reference number for this discharge is E213497.

**1.1.1** The maximum authorized rate of discharge is 20 000 cubic metres per year (uncompacted volume). The maximum authorized discharge to Phase 1&2 landfill is 300 000 cubic metres (compacted volume).

**1.1.2** The components of the refuse which may be discharged are approximately:

Wood residue boiler ash	30% by volume
Dreg washer reject	15% by volume
Lime slaker reject	15% by volume
Lime kiln reject	18% by volume
Wood waste	14% by volume
Miscellaneous wastes	8% by volume

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Date amended:  
(most recent)

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for Director, *Environmental Management Act*  
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- 1.1.3 The authorized works are a landfill operation in an approximately three (3) hectare site developed in two (2) phases, which comprises of a single cell. The landfill (Phase 1&2) shall be bermed, lined at bottom with a 1.5 mm (60 mil) thick high density polyethylene liner, leachate collection system, leak detection and collection system, leachate conveyance system, leachate treatment system, surface water diversion works, and related appurtenances approximately located as shown on Site Plan A. Plans and specifications of the authorized works are as described in Gartner Lee Limited report number GLL 96738, dated January 1997, titled "Report on Phase 2 Landfill Woodfibre, B.C." or alternatives which give equivalent or better environmental protection.
- 1.1.4 The permittee shall install and complete the authorized pollution prevention and abatement works prior to commencement of discharge in each phase of landfill operation. Phase 1 landfill shall remain in operation and shall be closed at the same time as Phase 2 landfill.
- 1.1.5 The legal description for the location of the facilities from which the discharge originates is Block 3, Plan 21182 of Lot 1364, Lot 6103, Lot 6986, Block 2 of Lot 1364, Lot 6986, Plan 11981, and Lot 1366, all of Group 1, New Westminster District.
- 1.1.6 The legal description for the location of the point of discharge is District Lots 5899, Group 1, New Westminster District.

## 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.

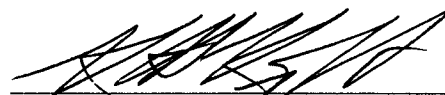
### 2.3. Emergency Procedures

In the event of an emergency which prevents compliance with a requirement of this permit, that requirement shall be suspended for such time as the emergency continues or until otherwise directed by the Director provided that:

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- (a) Due diligence was exercised in relation to the process, operation or event which caused the emergency and that the emergency occurred notwithstanding this exercise of due diligence;
- (b) The Regional Manager, Environmental Protection, is immediately notified of the emergency; and
- (c) It can be demonstrated that every thing possible is being done to restore compliance in the shortest possible time.

Notwithstanding (a), (b) and (c) above, the Director may require the operation to be suspended or production levels to be reduced to protect the environment while the situation is corrected.

**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. Site Preparation and Restoration**

Provision of fencing, site access, vehicle safety barriers, surface water diversionary works, firebreaks and site restoration as required, shall be carried out to the satisfaction of the Director.

**2.6. Buffer Zones for Water Courses**

The permittee shall maintain buffer zones at least 40 metres wide between the landfill site and the channel of the Mill Creek.

**2.7. Landfill Operation**


The permittee shall maintain the landfill authorized in Section 1.1 as a Level B operation in accordance with the Pollution Control Objectives for the Forest Products Industry of British Columbia, dated November 23, 1977, which requires that suitable cover material shall be applied on all exposed solid waste once every 20 operating days and at least once per month. Wood residue boiler fly ash and grate ash are considered to constitute suitable cover for the other wastes disposed in the landfill. The Director may vary the frequency of covering when freezing conditions adversely affect normal operation.

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No wood waste contaminated with wood preserving chemicals or wastes that contain chemicals that can penetrate the high density polyethylene liner shall be incorporated into the landfill. Waste asbestos may be discharged to the landfill authorized in subsection 1.1. and shall be managed in accordance with the Hazardous Waste Regulation.

**2.8. Fugitive Particulate Emission**

The permittee shall control fugitive particulate emissions generated from the property. Should the Director have reasonable grounds to believe that fugitive particulate emissions cause pollution outside the property boundary, the permittee shall undertake additional measures and/or curtail operations to control the emissions.

**2.9. Miscellaneous Mill Waste**

The miscellaneous mill waste authorized for discharge in Section 1.1.2. shall include asphalt, concrete, bricks and the like from minor construction/demolition projects and/or road repair; road sweepings; shop floor sweepings; empty barrels; and used rope and occasionally effluent treatment plant sludges. The discharge of any miscellaneous mill waste other than the types specified above must be approved by the Director.

**2.10. Waste Reduction and Alternate Disposal**

The Ministry of Water, Land and Air Protection has developed a policy to reduce, recycle and reuse solid wastes. The permittee is encouraged to segregate for recycling and reuse, where possible, materials destined for disposal at this site.

In certain landfill environments, some construction and demolition debris may create air and water quality concerns. If problems arise at this site that are attributable to specific wastes, the Director may require that alternate disposal procedures be implemented.

**2.11. Maintenance of Contiguous Point – District Lot 5899 and District Lot 2351**

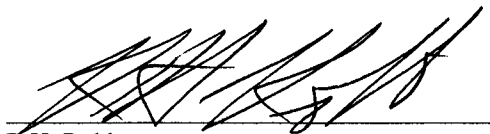
The Permittee shall ensure that District Lot 5899, Group 1, New Westminster District remains contiguous with District Lot 2351, Group 1, New Westminster District. The Permittee shall notify the Regional Manager, Environmental Protection, in writing at least 90 days prior to any subdivision of the aforementioned district lots.

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**3. MONITORING AND REPORTING REQUIREMENTS**

**3.1. Discharge Monitoring**

**3.1.1 Monitoring (leachates, surface waters and groundwaters)**

The permittee shall obtain grab samples of the leachate collected from the old landfill and the lined landfill in Phase 1&2, surface waters and groundwaters, at locations as shown in the attached site plan A, and have the samples analyzed as shown in the following monitoring program:

<u>Sample Types</u>	<u>Locations</u>	<u>Parameters</u>	<u>Frequency</u>
Leachate	L1A, L1B L2A, L2B MH1	pH, sp.conductivity, BOD	2 x/y
	L1B, L2B	Fish toxicity 96HLC50	2 x/y
Surface water	S4, S6, S8	pH, sp.conductivity, BOD flow, Fish toxicity LC50	2 x/y
Groundwater	MW1, MW2 MW3, MW4 MW12, MW13 MW14	pH, sp.conductivity, BOD, TOC, TDS, metals	2 x/y
	MW1, MW2 MW3, MW4 MW14	Daphnia toxicity 48HLC50	1 x/y

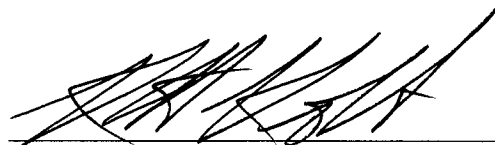
The leakage detection/collection system shall be monitored semi-annually for the presence of flow. Should any groundwater be collected by the leakage detection/collection system, the collected groundwater shall also be analyzed for the same parameters and on the same frequency as groundwater listed above.

**3.1.2 Discharge Quantities**

The permittee shall record the types and volumes (uncompacted cubic metres) of refuse discharge to the landfill (not including natural soil used as intermediate cover). These records shall be maintained on site for inspection and shall be submitted to the Regional Manager, Environmental Protection, as required.

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### 3.2. Monitoring Procedures

#### 3.2.1 Sampling Procedures

Sampling is to be carried out in accordance with the procedures described in the "British Columbia Field Sampling Manual for Continuous Monitoring Plus the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment, and Biological Samples, 2003 Edition (Permittee)", or most recent edition, or by suitable alternative procedures as authorized by the Director.

A copy of the above manual may be purchased from the 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). A copy of the manual is also available for inspection at all Environmental Protection offices.

#### 3.2.2 Chemical Analysis - Water

Analyses are to be carried out in accordance with procedures described in the "British Columbia Laboratory Methods Manual for the Analysis of Water, Wastewater, Sediment, Biological Materials and Discrete Ambient Air Samples (2003 Permittee Edition)", or the most recent edition, or by suitable alternative procedures as authorized by the Director.

A copy of the above manual may be purchased from the 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), and are also available for inspection at all Environmental Protection offices.

### 3.3. Reporting

An annual report shall be prepared by the permittee and submitted to the Regional Manager, Environmental Protection. The report shall include but is not limited to the following items:

- i) types and volumes (uncompacted cubic metres) of refuse discharged as required by section 3.1.2,
- ii) monitoring data as required by section 3.1.1 and analysis of the data,
- iii) remaining capacity of landfill (uncompacted cubic metres)
- v) review of operating plans.

The reports for each year are to be submitted by January 31 of the following year.

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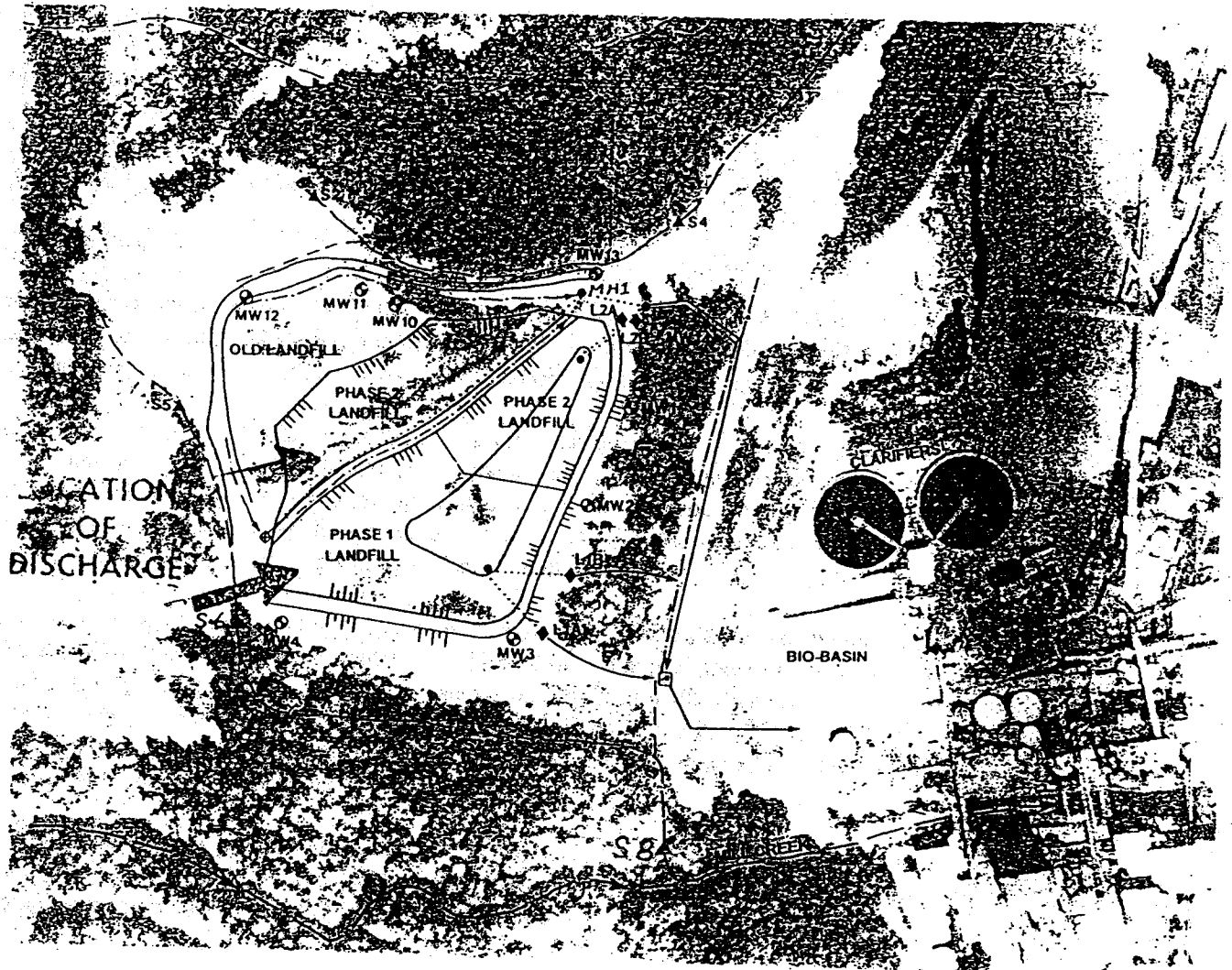
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R.H. Robb

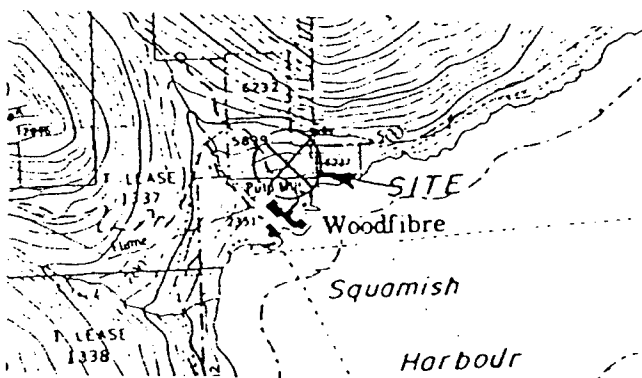
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# SITE PLAN A



Legal description: District Lots 5899, Group 1, New Westminster District.

Location Map

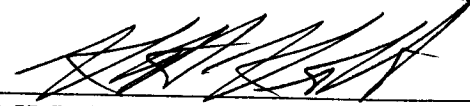


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