



FILE COPY

File No: PR-1521 (05)
May 26, 2003

Weyerhaeuser Company Limited
2005 Mission Flats Road
PO Box 800
Kamloops BC V2C 5M7

Dear Permittee:

**RE: Notice of Amendment to Waste Management Permit PR-1521 (05)
Issued in the Name of Weyerhaeuser Company Ltd.**

Pursuant to Section 13 of the Waste Management Act, Permit PR-1521 is hereby amended by:

Deleting Section 2.2.1 which reads:

Quicklime and wet lime mud shall be segregated from organic material and covered daily.

and replacing it with the following:

Quicklime shall be segregated from organic material and covered daily.

All other requirements of Permit PR-1521 remain unchanged.

It is the responsibility of the Permittee to ensure that all activities conducted under this authorisation are carried out with regard to the rights of third parties, and comply with other applicable legislation that may be in force.

Yours truly,

A handwritten signature in black ink that reads "Rick Adams".

Rick Adams
Regional Waste Manager
Thompson & Okanagan Regions

Ministry of Water,
Land and Air
Protection

Telephone: (250) 571-5250
Facsimile: (250) 314-0615

Mailing Address & Location:
970A Camosun Crescent,
Kamloops, B.C.
V2C 6G2



MINISTRY OF WATER,
LAND AND AIR PROTECTION

Southern Interior Region
Pollution Prevention
1259 Dalhousie Drive
Kamloops, BC
V2C 5Z5
Telephone: (250) 371-6200
Fax: (250) 828-4000

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PERMIT

PR-01521 (05)

Under the Provisions of the Waste Management Act

Weyerhaeuser Company Ltd
Box 800, 2005 Mission Flats Road
Kamloops, British Columbia
V2C 5M7

is authorized to discharge refuse to the land from a pulp mill and sawmill located in Kamloops, 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-01521, issued under Part 2 Section 10 of the Waste Management Act.

Date Issued: November 27, 1972
Date Amended: June 1, 1978; September 19, 1990; January 28, 1992;
November 28, 2001 (most recent)
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Regional Waste Manager

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1. AUTHORIZED DISCHARGES

1.1 This subsection applies to the discharge of refuse from a **PULP MILL AND SAWMILL**. The Ministry's site reference number for this discharge is E216756.

1.1.1 The maximum authorised rate of discharge is 110,000 cubic metres per year.

1.1.2 The authorized discharge from the operation of the pulp mill and sawmill shall consist of: quicklime, slurry type material such as settling pond sludge and lime mud, and dry material such as ash, general refuse, dregs, grits and sawmill waste.

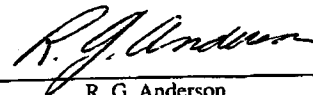
1.1.3 Special wastes as defined in the Special Waste Regulation under the Waste Management Act (B.C. Reg. 63/88, O.C. 268/88) shall not be discharged unless specifically approved in writing by the Regional Waste Manager. The disposal of waste asbestos in compliance with the requirements of the Special Waste Regulation under the Waste Management Act (B.C. Reg. 63/88, O.C. 268/88) is hereby authorized.

1.1.4 The authorized works are a landfill operation, and related appurtenances approximately located as shown on attached Site Plan A.

1.1.5 The locations of the facilities, which the discharge originates from, are a pulp mill and a sawmill located on Mission Flats Road in Kamloops, BC.

1.1.6 The location of the point of discharge is District Lot B, Group 2, Lytton Division, Kamloops Land District and District Lot 443 KDYD and that part of the north half of Section 9, Township 20, Range 18, W6M, lying outside of the said District Lot 443 and that part 244.3 acres more or less of Section 8, which is not included within the limits of the Hudson Bay Company's Lots "A" and "B" Group 2, Lytton Division Yale District and of the said District Lot 443, KDYD and the South half of Section 9 all of Township 20, Range 18, W6M, KDYD.

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2. GENERAL REQUIREMENTS


2.1 Operation and Closure Plan

The Permittee shall submit to the Regional Waste Manager an Operation and Closure Plan by December 31, 2002. The Operation and Closure Plan shall be prepared by a Professional Engineer or Geoscientist knowledgeable in landfill design and operation, and licensed to practice in British Columbia. The Permittee shall seek the approval of the Regional Waste Manager for the Operation and Closure Plan.

The Operation and Closure Plan shall meet the requirements of this Permit, and the Landfill Criteria for Municipal Solid Waste (1993) and shall include any information relevant to the development, operation and maintenance of the subject site, including at least the following:

- 1) Location and extent of area to be landfilled.
- 2) Anticipated total volume of waste to be landfilled.
- 3) Estimated site life.
- 4) A site plan(s) showing the location of discharged wastes, existing and approximate final elevation contours of the landfill and surface water diversion and drainage works.
- 5) Operational procedures including but not limited to the method of placement, compaction and covering of wastes, type of equipment to be used and operator/attendant training procedures.
- 6) Design and construction of surface water diversion works.
- 7) A review of the existing leachate collection system and an evaluation of its effectiveness in intercepting landfill leachate.
- 8) Recommendations on the necessity of additional leachate collection works and/or groundwater monitoring.
- 9) Construction techniques required to ensure long term stability.
- 10) Availability of suitable material for both intermediate and final cover, soil types to be classified as to type and permeability.
- 11) Design of the final cover including the thickness, type and permeability of barrier layers and drainage layers, and information on topsoil, vegetative cover and erosion prevention controls.
- 12) Post-closure care of the site including; maintenance of vegetative cover and erosion prevention controls, surface water diversion and drainage works and proposed monitoring of ground water, surface water, landfill gas and settlement for a minimum post-closure period of 25 years.
- 13) Long term operation of any required pollution abatement engineering works such as leachate collection and treatment systems or landfill gas collection for a minimum post-closure period of 25 years.
- 14) Proposed land use following closure.

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The Permittee shall implement all the specifications of the approved Operation and Closure Plan, subject to any conditions imposed by the Regional Waste Manager. Written authorization from the Regional Waste Manager shall be obtained prior to implementing any change to the approved plan. The Regional Waste Manager may require revision of the Operation and Closure plan when warranted.

2.2 Interim Landfill Operation

Until such time as the Operation and Closure plan is submitted to the Regional Waste Manager and approved, the landfill operation shall include the following actions.

- 2.2.1 Quicklime and wet lime mud shall be segregated from organic material and covered daily.
- 2.2.2 Materials such as settling pond sludge, clarifier sludge and reject fibre shall be segregated, dried for a one week period and covered.
- 2.2.3 Dry refuse such as ash, dregs, grits and sawmill waste shall be applied in lifts up to 3 m thick and shall have intermediate cover of at least 30 centimetres of compacted soils, or a functionally equivalent depth of other cover material acceptable to the Regional Waste Manager between lifts.
- 2.2.4 General garbage shall be covered daily.
- 2.2.5 Waste asbestos shall be confined during handling, storage and transportation by:
- a. Dry airtight containment techniques such as:
 - i. Packing in 6 mil plastic bags placed within a non-reusable drum and then sealed, or
 - ii. Packing in a 6 mil plastic bag placed within a second 6 mil plastic bag and then sealed, or
 - b. Wet containment techniques such as saturation with water and containment in non-leaking sealed drums or equivalent, or
 - c. Approved containment techniques.
- 2.2.6 Waste asbestos shall be disposed of at the landfill by being immediately buried with a minimum of 0.5 m of cover material. The source of waste asbestos shall only be Weyerhaeuser Company Limited's Kamloops pulp mill.



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Regional Waste Manager

2.2.7 Liquid separated from slurry type materials shall be contained with berms, dams, or other suitable means. Excess liquid shall be prevented from entering surface water or leaking from containment berms.

2.3 Maintenance of Works and Emergency Procedures

The Permittee shall maintain the authorized works in good working order. No fires are permitted in the refuse site. Should a fire, be detected in the refuse site, the Permittee shall immediately extinguish the fire and notify the Regional Waste Manager as soon as practical.

2.4 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 the discharge.

2.5 Surface Water Diversions

The Permittee shall install and maintain surface water diversions to prevent water run-off from entering the waste discharge area.

2.6 Fugitive Dust Control

The Permittee shall control dust and noise created within the landfill property using methods and materials acceptable to the Regional Waste Manager, such that it does not cause a public nuisance.

2.7 Future Upgrading

The Regional Waste Manager may require future upgrading of the landfill control works to protect the environment during the operating life of the landfill and for a minimum post-closure period of 25 years.

2.8 Covenant

Upon closure the boundaries of the landfilled area shall be legally surveyed. A covenant that the property was used for the purpose of waste disposal shall be registered by the Permittee against the land title as provided for under Section 215.1 of the Land Title Act.



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3. MONITORING AND REPORTING REQUIREMENTS

3.1 Leachate Sampling and Analysis

The Permittee shall obtain a sample of the leachate from the existing leachate collection spring and fall of each year. The leachate shall be analyzed for the following parameters:

1. pH
2. total dissolved solids
3. major anions
4. total metals

3.2 Sampling & Analytical Procedures

The Permittee shall ensure that the sampling and monitoring requirements specified above are carried out by a suitably qualified person, in accordance with the appropriate procedures listed in the table below. Alternative test methods may be used provided that the alternative test methods are authorized by the Regional Waste Manager prior to performing the sampling. Test methods for parameters not listed below require the consent of the Regional Waste Manager.

| LIQUID EFFLUENTS, SURFACE WATER, GROUND WATER, SOILS, SEDIMENTS, VEGETATIVE MATTER: | | |
|---|--|--|
| Parameter | Sampling Procedure | Analytical Procedure |
| Metals Nutrients Organics Toxicity | British Columbia Field Sampling Manual for Continuous Monitoring plus the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment, and Biological Samples, 1996 Permittee Edition | British Columbia Environmental Laboratory Manual for the Analysis of Water, Wastewater, Sediment and Biological Materials, March, 1994, Permittee Edition and subsequent supplements |

The above manuals are available from Queen's Printer Publications Centre, P.O. Box 9452, Stn. Prov. Govt, Victoria, BC, V8W 9V7 (1-800-663-6105 or (250) 387-4609).



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Regional Waste Manager

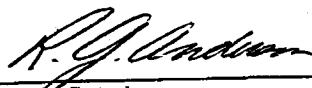
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3.3 Reporting

An annual report shall be submitted by February 28 of each year for the previous calendar year of landfill operation or post-closure activities. The annual report shall include a review and interpretation of the analytical data from the collected leachate and surface water sampling. Proposed changes to the monitoring program shall be identified in the annual report. The annual report shall summarize the findings of the landfill supervisor's routine inspections and identify any proposed changes from the approved plans. The annual report shall include an estimate of the solid waste landfilled in the preceding year in both tonnes and compacted in-situ cubic metres and review the remaining site capacity. The annual report shall include documentation of the method used to quantify the volume of waste discharged.

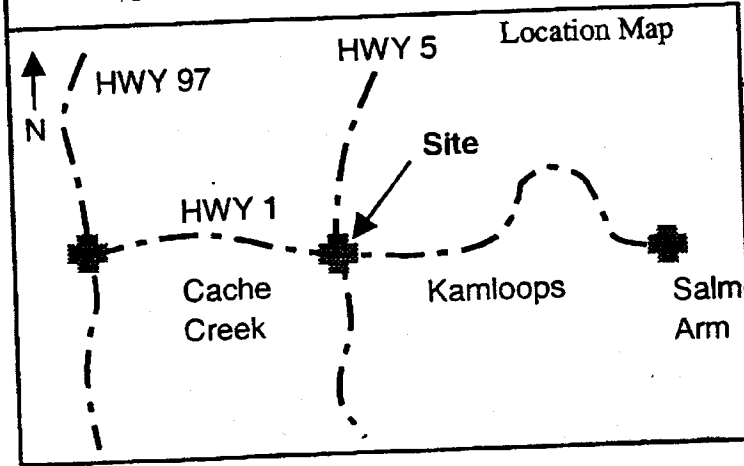
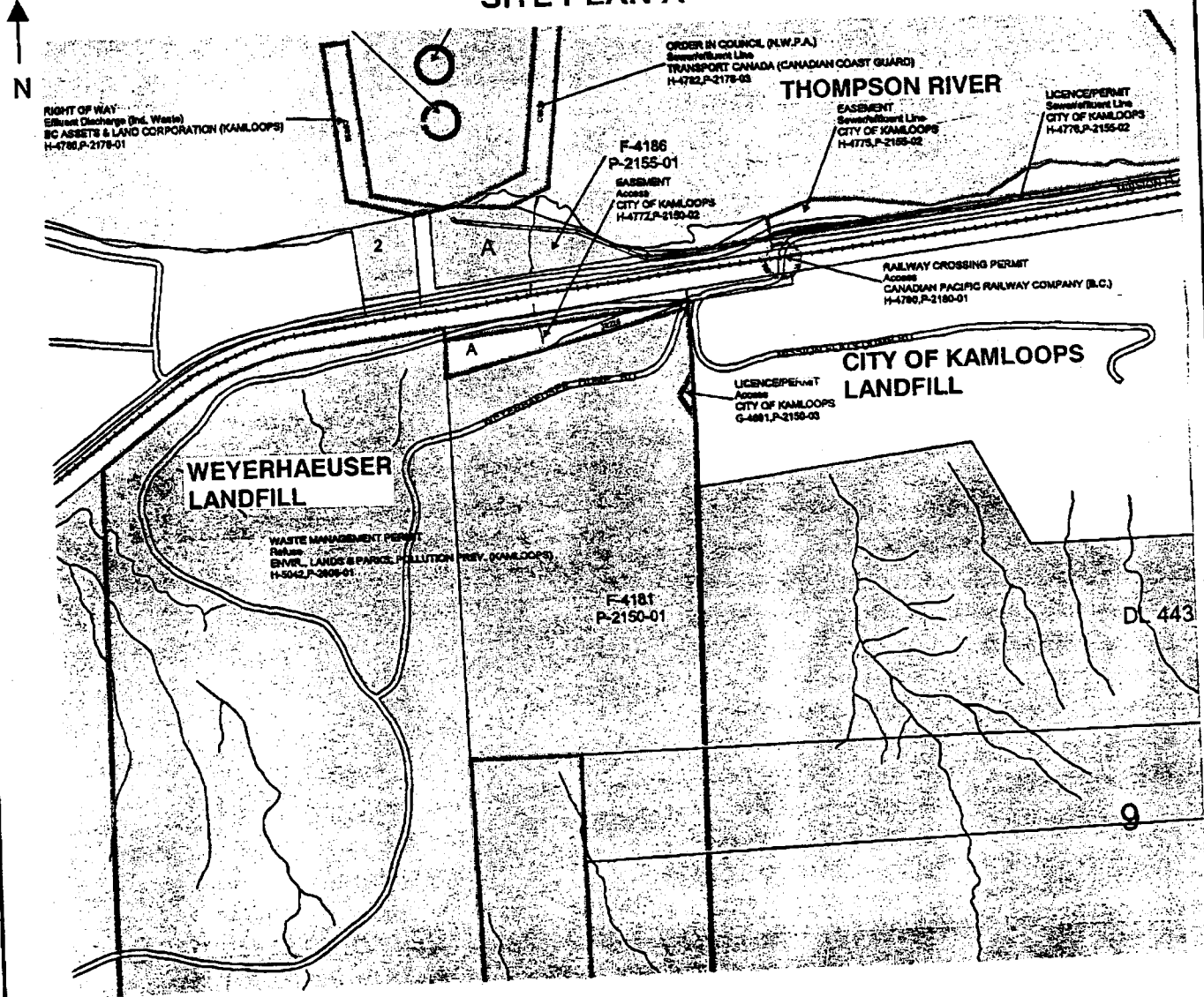
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SITE PLAN A



Permit No.: PR 01521(05)
Date: November 28, 2001

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Regional Waste Manager