

Operational Certificate
MR-4223

*Under the Provisions of the Environmental Management Act and in Accordance with the
Approved Central Coast Regional District Solid Waste Management Plan*

Central Coast Regional District

P.O. Box 186

Bella Coola BC V0T 1C0

is authorised to discharge refuse to land and air contaminants to air from municipal solid waste sources located near Bella Coola, 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.

The issuance of this Operational Certificate supersedes all previous versions of Permit PR-4223 issued the *Environmental Management Act*.

1. AUTHORISED DISCHARGES

1.1. This subsection applies to the discharge of municipal solid waste from the Bella Coola Valley and surrounding area to land. The site reference number for this discharge is E210037.

1.1.1. Rate of Discharge

The maximum authorised rate of discharge is 1,300 tonnes/yr.


1.1.2. Characteristics of the Discharge

The refuse shall be typical municipal solid waste. Hazardous Waste shall be excluded from the landfill except waste asbestos, hydrocarbon contaminated soils, and household hazardous waste.

The disposal of waste asbestos in compliance with the Hazardous Waste Regulation is authorised at the landfill.

Date Issued: **APR 12 2006**

Page: 1 of 8



Douglas J. Hill, P.Eng.
For Director, Environmental Management Act

Operational Certificate: MR 4223

The management of hydrocarbon contaminated soils, in compliance with the Contaminated Sites Regulation is authorised in an area of the landfill approved by the Director. Hydrocarbon contaminated soils meeting the "Industrial" standard of the Contaminated Sites Regulation may be used as intermediate cover.

1.1.3. Authorised Works

The authorised works are a landfill, surface drainage diversion works and related appurtenances approximately located as shown on the attached Site Plan.

1.1.4. Location of the Point of Discharge

The location of the point of discharge is unsurveyed portion of the NW ¼ of Section 30, Township 1, Range 3, Coast District, approximately as shown on the Site Plan

- 1.2. This subsection applies to the discharge of air contaminants from regulated open burning of cardboard and wood residue from municipal sources.

1.2.1. Rate of Discharge

The maximum cumulative number of days during which air contaminants may be released shall not exceed 150 days per year. The maximum authorised quantity of waste that may be burned is 400 tonnes/year.

1.2.2. Characteristics of the Discharge

The characteristics of the discharge shall be typical of open burning of cardboard and wood residue conducted under well controlled conditions.

1.2.3. Location of the Point of Discharge

The location of the point of discharge is the same as described in Section 1.1.4.

2. GENERAL REQUIREMENTS

2.1. Maintenance of Works and Emergency Procedures

The Operational Certificate Holder 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 Operational Certificate Holder which prevents effective operation of the approved method of pollution

Date Issued: **APR 12 2006**

Page: 2 of 8



Douglas J. Hill, P.Eng.
For Director, Environmental Management Act

Operational Certificate: MR 4223

control, the Operational Certificate Holder shall immediately take appropriate remedial action and shall notify the Director or an Officer designated by the Director:

2.1.1. by telephone if the condition occurs between the hours of 08:00 and 16:30, Monday to Friday on normal working days; and

2.1.2. by facsimile transmission 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, emergencies involving major effluent discharges that could affect public health and spills subject to the requirements of the Spill Reporting Regulation, shall be immediately reported to the Provincial Emergency Program at 1-800-663-3456.

2.2. Process Modifications

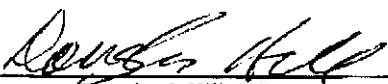
The Operational Certificate Holder shall have written approval from the Director prior to implementing changes to the authorised works that may result in discharges exceeding the characteristics authorised under this Operational Certificate.

2.3. Site Access

The Operational Certificate Holder shall control access to the site. An attendant shall be on duty on all days that the facility is open. The gate to the site shall stay locked on non-operational days. The Operational Certificate Holder may allow access to the site on non-operational days to selected individuals to deposit refuse which is not attractive to bears. Food waste or waste contaminated by food shall not be deposited on non-operational days. The applicants for extra access privileges shall be required to return any keys upon request, and shall be instructed not to make duplicate keys. After hours discharge of putrescible waste is prohibited.

Date Issued: **APR 12 2006**

Page: 3 of 8



Douglas J. Hill, P.Eng.
For Director, Environmental Management Act

Operational Certificate: MR 4223

2.4. Landfill Operation

- 2.4.1. The Operational Certificate Holder shall develop the landfill in a strip shaped cell pattern. The width of each strip cell shall not exceed 6 metres and the height shall not exceed 2 metres.
- 2.4.2. Refuse placed in the active putrescible waste cell shall be compacted at the end of each operating day. The top surface and the working face of the active putrescible waste cell shall be covered with a minimum of 15 cm of clean fill no less than once per week. Suitable alternatives to cover material on the surface of the working face may be used if approved by the Director
- 2.4.3. Final cover of the landfill surface shall be with a layer of compacted soil no less than 1 metre deep plus a minimum of 0.15 metres of topsoil with appropriate vegetation established. The final surface of the landfill shall be crowned to promote runoff of surface waters and to prevent ponding
- 2.4.4. Provision of surface water diversion works and site restoration as required, shall be carried out to the satisfaction of the Director.
- 2.4.5. Vegetation shall be removed from the surface of the entire site annually.

2.5. Litter Control

The Operational Certificate Holder shall control refuse scattered in the neighboring forested area, along the roads and trails accessing the site, in the drainage ditches, and within the site area. A thorough pick up of scattered litter shall be conducted at least twice per year around the site.

2.6. Segregation of Recyclable Materials

The Operational Certificate Holder shall segregate large recyclable wastes, such as large metallic waste and rubber tires of rim size less than or equal to 16 inches, in a separate area of the site for recycling. Lead acid batteries shall not be accepted for disposal or storage at the site unless authorized by the Director.

2.7. Electric Fencing

2.7.1. Bear Proof Containment of Putrescibles

All putrescible wastes that arrive at the landfill facility must be immediately contained within a bear proof bin or within a compound enclosed by an electric fence. Metals and tires stockpiled for recycling,

wood residue and clean cardboard stockpiled for incineration are not considered putrescible for the purposes of this Operational Certificate.

2.7.2. Electric Fence Design, Construction and Maintenance

Electric fencing at the landfill site shall be designed, constructed, and maintained such that bears are prevented from penetrating the fencing at all times throughout the Period of Operation.

2.7.3. Period of Operation

Electric fencing shall be fully operational during the period of March 1st to December 15th inclusive each year. If snow is present during this period, any electrified strands above the snow line shall be isolated from the remainder of the system and energized. The Operational Certificate Holder shall not vary the operating period without prior written authorization from the Director.

2.7.4. Minimum Voltage

Electric fencing shall be operated with a minimum voltage of 6,000 volts.

2.7.5. Gate Operation

Any access through the electric fencing for vehicles, equipment and personnel shall consist of an electrified gate system that is closed during non-operating hours. The gate system shall be electrified to a minimum voltage of 6,000 volts at all times except when being opened or closed. Any gate that is open during operating hours shall be monitored for bear activity during hours of operation

2.7.6. Fence Inspections

The entire perimeter of the electric fencing shall be inspected at least once every seven days and the voltage of the fencing measured at several points along the fencing and at each gate using a proper electric fence voltmeter compatible with the brand of the fence charging unit. Any results less than the minimum 6,000 volts or any problems which affect operation of the fence shall be immediately investigated and corrected. In addition, the Director shall be notified as per section 2.1 in the event that the voltage is not maintained above 6,000 volts.

In cases of low voltage or signs of penetration attempts, inspections shall be increased from once per week to once per day until proper voltage is

3. MONITORING AND REPORTING REQUIREMENTS

3.1. Water Sampling and Analysis

The Operational Certificate Holder shall collect grab samples from the locations and at the frequencies listed in Table 1 of this Operational Certificate and have the samples analyzed for the parameters listed in Table 2 of this Operational Certificate. The minimum detection limit for analysis shall be as shown in Table 2 of this Operational Certificate.

3.2. Sampling Procedure

At sites where sampling is required, the Operational Certificate Holder shall install a suitable sampling facility and obtain samples 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," November, 1996, or by suitable alternative procedures as authorized by the Director. Proper care should be taken in sampling, storing and transporting the samples to adequately control temperature and avoid contamination, breakage, etc.

Copies of the above mentioned manual are available from the Queen's Printer Publication Centre, P.O. Box 9452, Stn. Prov. Govt, Victoria, British Columbia, V8W 9V7 (1-800-663-6105 or (250) 387-6409), and also available for inspection at all Environmental Protection Program Offices.

3.3. Analytical Procedures

Analyses are to be carried out in accordance with procedures described in the most recent version of the "British Columbia Environmental Laboratory 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.

A copy of the above manual may be purchased from Queen's Printer Publications Centre, P.O. Box 9452, Stn. Prov. Govt, 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 Program Offices.

3.4. Quality Assurance

Analysis of samples for parameters designated under the Environmental Data Quality Assurance Regulation shall be at a laboratory registered for the designated

Date Issued: **APR 12 2006**

Page: 7 of 8


Douglas J. Hill, P.Eng.
For Director, Environmental Management Act

Operational Certificate: MR 4223

parameter under the Regulation. In addition, the Operational Certificate Holder shall participate in quality assurance audits as required by the Regulation.

3.5. Reporting

The Operational Certificate Holder shall report the results of the previous years' sampling and quality assurance program to the Director by no later than January 31 of each year.

TABLE 1 - Monitoring Sites and Frequencies

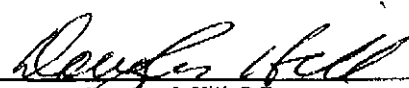
Site Code	Site Name	Water Quality Sample Frequency
E239642	Noohalk Creek upstream of highway 20	field parameters only: once in late winter all parameters: once in early summer
E245136	Noohalk Creek upstream of landfill	field parameters only: once in late winter all parameters: once in early summer

TABLE 2 - Water Quality Parameters

Parameter	Sites	MDL
field pH	all	0.1 pH units
field temperature	all	0.1 °C
field conductivity	all	1 µS/cm
alkalinity	all	1 mg/L
chloride	all	1 mg/L
sulphate	all	1 mg/L
nitrate plus nitrite - N	all	0.005 mg/L
ortho-phosphorus	all	0.005 mg/L
hardness	all	1 mg/L
dissolved calcium	all	0.1 mg/L
dissolved iron	all	0.05 mg/L
dissolved magnesium	all	0.1 mg/L
dissolved manganese	all	0.001 mg/L
dissolved sodium	all	0.01 mg/L

Date Issued: **APR 12 2006**

Page: 8 of 8


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Operational Certificate: MR 4223