

2018 ROSSWOOD LANDFILL ANNUAL REPORT

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Prepared for:

British Columbia Ministry of
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Strategy
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Site Overview

The Rosswood Landfill Facility is owned and operated by the Regional District of Kitimat-Stikine (Regional District). It is located approximately 10 km northwest of the community of Rosswood and approximately 50 km north of the City of Terrace on Highway 113, also known as the Nisga'a Highway.

The Rosswood Facility is responsible for the management of municipal solid waste generated in the Rosswood area. The majority of the community is residential, with few small businesses. All users of the facility self-haul to the landfill; there is no curbside collection in the area.

Landfill operations are regulated by the Ministry of Environment and Climate Change Strategy's Operational Certificate MR-5511, originally issued in August 1979 and updated in June 2012. Operations are conducted in accordance with the Rosswood Landfill Operations and Closure Plan prepared by Sperling Hansen Associates in February 1999.

The footprint for the entire Rosswood Facility is one hectare in size. The Rosswood Facility consists of a landfill with a separate area for the diversion of metal, tires, and clean wood. Metal is collected by a local scrap recycler and tires are collected annually by the Tire Stewardship of British Columbia. Clean wood is burned on site as outlined in the Operation Certificate.

During 2018, 52 tonnes of solid waste was deposited into the landfill, 50.8 tonnes of metal was diverted, and 1.5 tonnes of tires were diverted to be collected by the Tire Stewardship Program.

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1.0 Introduction

This annual report covers the period from January to December 2018 and has been prepared to fulfill the requirements of the Landfill's Operational Certificate MR-5511.

This report meets the requirements in Section (11.5) of the Operational Certificate by providing the following information:

- Total volume or tonnage of waste discharged to the landfill during 2018;
- Total volume or tonnage of waste recycled and diverted from landfill during 2018;
- Occurrences or observations of wildlife attempting to access the facility; and
- Monitoring program results.

2.0 Waste Disposal

The Rosswood Landfill serves the unincorporated community of Rosswood. The 2018, the approximate population that utilized the landfill was 110 residents.

2.1 Solid Waste Disposal

The total tonnages collected at Rosswood landfill from January through to December 2018 of municipal solid waste, metal, and tires are shown in Table 1. Details on these materials is included below.

Table 1: Waste Discharge Qualities for 2018

| Material | 2018 Quantity (tonnes) | |
|-----------------|------------------------|--------------------|
| Waste Discharge | | |
| Garbage | 52* | |
| Diverted Wastes | | |
| Metal | | 50.8 |
| Tires | | 1.5** |
| Totals | 240 tonnes | 52.3 tonnes |

Note: * This is an estimate based on the 0.473 tonne per-capita disposal rate of the Terrace/Thornhill area multiplied by 110 residents using the Rosswood Landfill. The 0.473 tonne per-capita value includes municipal solid waste and construction and demolition debris tonnage data.

** This is an estimate.

2.1.1 Garbage

Garbage is defined as discharged materials not including Restricted Waste (metal, organics, and recyclable materials) or Prohibited Waste (hazardous or radioactive waste, contaminated soil, smoldering or flammable material, explosive or highly combustible materials, or tires). Clean wood is segregated on site and burned as specified in the Operational Certificate.

In 2018, 52 tonnes garbage was disposed of in the Rosswood landfill.

3.0 Diverted Materials

At the Rosswood facility there are designated areas for the segregation of recyclable materials including; scrap metal, large appliances, tires, and clean wood which is burned on site.

3.1.1 Metal

In 2018, a total of 50.8 tonnes of scrap metal and large appliances was collected and diverted at the Rosswood Facility.

3.1.2 Tires

In 2018, a total of 1.5 tonnes of tires were collected at the Rosswood Facility for diversion through the Tire Stewardship of British Columbia.

4.0 Wildlife Occurrences and Observations

The Rosswood Landfill is located in an area with bears, wolves, coyotes, several species of birds of prey, and many other species of mammals that may attempt access to the facility. An electric fence is around the landfill area to prevent access and is kept charged from spring until late fall. Soil from site is used as daily and intermediate cover to prevent bird access, and to reduce odour and wind-blown litter.

To more effectively prevent vectors from gaining access to the landfill active face, as of November 2018 the Revelstoke Iron Grizzly (RIG), is used as an alternative daily cover. It is positioned each day to cover all waste, with soil from site continuing to be used as intermediate cover.

Facility operators are required to inspect the fence line weekly, testing for proper voltage, proper tension on fence stands, overall condition of the fence, and signs of wildlife activity. The result so the inspections are recorded on the Daily Operation Inspection Form.

There were no observed mammalian wildlife occurrences during 2018. There was minimal vector activity from birds, including raptor species (bald eagles), and corvid species (crows and ravens).

5.0 Monitoring Program Results

No monitoring was conducted during 2018, as the Operational Certificate does not require monitoring.

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