



REGIONAL DISTRICT NORTH OKANAGAN

2020 Annual Report: Cherryville Diversion and Disposal Facility

Ministry of Environment & Climate Change Strategy
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1 INTRODUCTION

The Cherryville Diversion and Disposal Facility (CDDF) is located within Electoral Area E in the Regional District of North Okanagan (RDNO) at 205 Aumond Road, approximately 20 km northeast of the Village of Lumby, 6.5 km north of Cherryville.

The legal description of the property on which the CDDF is location is the southeast ¼ of Section 33, Township 57, Osoyoos Division of Yale District. The site, a Crown Lease (#331763), is approximately 6.5 hectares and serves the community of Cherryville and the surrounding Electoral Area (E). The location plan is presented as part of the 2020 Environmental Monitoring Report, Attachment A.

The transfer station facility was operated by Dan's Bobcat Services under a contract with the RDNO during 2020.

The CDDF has a maximum permitted filling rate of 1,000 tonnes per year. The works authorized are a modified sanitary landfill and related appurtenances.

A final cap was constructed on the north and south filling areas of the old landfill in 2016. This evapotranspirative cover was approved by the Ministry and appears to be working effectively.

2 BACKGROUND

Since 2008 the CDDF has operated as a transfer station. The CDDF was open Tuesday and Saturday from 9:00 a.m. to 4:00 p.m. throughout 2020.

The CDDF includes lockable entrance gate and gate house. The facility is surrounded by an electric bear fence. Customers entering the facility are required to check in with the Facility Attendant and pay the specified disposal fee based on the type and volume of material disposed.

The Regional District of North Okanagan Municipal Solid Waste Management Bylaw No.2832, 2019, establishes fees and sets standards for the use of diversion and disposal facilities owned and operated by the regional district. The Bylaw was originally adopted in April 2010 and took effect July 5, 2010. The bylaw has been amended on a number of occasions since 2010. A copy of the version of the Bylaw that took effect in 2019 is provided as Attachment B.

Prior to 2012, the RDNO solid waste management program operated on a 100 percent user pay system, with no financial contribution from taxation. However, in 2012 the RDNO implemented a region wide tax levy in the amount of \$420,000 to provide additional funding for solid waste management.

3 FACILITY OPERATIONS: 2020

This section describes on-site activities during 2020 including disposal methods and recycling initiatives.

3.1 DISPOSAL METHOD AND QUANTITIES

Landfilling of Municipal Solid Waste at the CDDF ceased in September 2008. The facility was then converted to a transfer station after completion of construction of a two bay transfer station. A 40 cubic yard lidded container is filled by facility customers and once full, the bin is hauled to the Lumby Diversion and Disposal Facility (LDDF), the Armstrong/Spallumcheen Diversion and Disposal Facility (ASDDF) or the Greater Vernon Diversion and Disposal Facility (GVDDF) for disposal.

The quantity of Municipal Solid Waste (MSW) transferred from the CDDF to the LDDF, ASDDF or GVDDF for disposal during 2019 was 282 tonnes. This is a slight increase from 2019.

According to 2016 census data the population in Cherryville (Electoral Area E) is 1,010. The per capita disposal rate in 2020 was 0.28 tonnes. The per capita disposal rate in this area has been relatively stable for a number of years.

In 1990, the province of British Columbia implemented a 10-year strategy with the goal of reducing that amount municipal solid waste disposed per capita by 50% by the year 2000. When compared to the 1991 regional filling rate of 0.61 tonnes per capita per, this goal was achieved at the CDDF, indicating that waste reduction programs have been effective in the Cherryville area have been effective.

The province of British Columbia has recently set a provincial waste disposal target to lower the municipal solid waste disposal rate to 350 kg per capita. This target was included in the most recent RDNO Solid Waste Management Plan and the RDNO is working to meet this target on a region wide basis.

3.2 RECYCLING

The following commodities are segregated at the CDDF and shipped off-site for recycling or reused on-site:

- Tires: Recycled under the Provincial Tire Recycling Program.

- Yard and Garden Waste and Wood Waste: Stockpiled material were transferred to the Lumby Diversion and Disposal Facility in the spring of 2020 to mitigate the fire risk.
- Propane Tanks: Removed by a contractor to be refurbished or recycled.
- White Goods and Other Metals: Refrigeration units are decommissioned and refrigerant removed by a qualified contractor under contract. Metal sold to a recycling contractor.
- Old corrugated cardboard (OCC): Was collected in a 40 cubic yard lidded container and transported to a processing facility.
- Electronic Waste: Collected and transported to an Encorp E-waste collection depot as required.
- Concrete and other crushable materials: Minor amounts are stockpiled for eventual crushing and use onsite.

3.3 OPERATION AND MAINTENANCE EXPENDITURES

Total operation and maintenance expenditures at the CDDF during 2020 were \$67,822.

4 OPERATIONAL MONITORING/INSPECTIONS

RDNO staff monitored all aspects of CDDF operations and met with the facility operator on a number of occasions during 2020 to ensure that operations were carried out in compliance with all Ministry of Environment and Climate Change Strategy and RDNO requirements. Any operational issues were noted and addressed as necessary.

5 ENVIRONMENTAL MONITORING

5.1 2020 ANNUAL ENVIRONMENTAL MONITORING REPORT

The Cherryville Diversion and Disposal Facility, 2020 Environmental Monitoring Report, dated February 2021, prepared by Regional District of North Okanagan Staff, is provided as Attachment A. The monitoring program is described and monitoring results are provided including the status of sampling points and recommendations for monitoring program improvements, where necessary.

5.2 ENVIRONMENTAL MONITORING REPORT RECOMMENDATIONS

- a) Continue with the currently established sampling program, and assess trends of exceedances.
- b) Re-evaluate potential trends in Cadmium, Chloride, Conductivity, Manganese, Selenium, Sulphate, and Uranium in 2021.
- c) Conduct the annual post closure inspection.

5.3 LANDFILL GAS

Landfill gases were not monitored in 2020, nor were any odour complaints received.

5.4 EROSION

No erosion was detected on-site in 2020.

5.5 LITTER, DUST AND VECTOR CONTROL

Litter was picked by the CDDF contractor when necessary, especially after wind events. The operator is required to collect litter on a regular basis.

Dust was not a significant issue at the CDDF in 2020, nor were bears or other vectors. A bear fence was installed around the perimeter of the site in 2006 and proved to be effective throughout 2020. The refuse and recycling containers, when not in use are closed (lidded containers).

6 FINANCIAL

Approximately \$659 was spent on environmental monitoring at the Cherryville Diversion and Disposal Facility in 2020.

A Statutory Closure Reserve was established in 2010 for closure and post closure costs at all RDNO Diversion and Disposal Facilities. The balance in the Statutory Closure Reserve at the end of 2020 was approximately \$11,681,000. It is projected that the annual contribution to the Statutory Closure Reserve for 2021 will be approximately \$1,360,000.

7 DESIGN, OPERATIONS AND CLOSURE PLAN

Final closure of the landfill was completed in 2016 as outlined in XCG Consultants Ltd's 2007 Landfill Closure Design Brief. The north filling area was filled with layered native soil and compost facility overs to an elevation allowing the runoff of precipitation and seeded to complete the evapotranspirative cover system. The south filling area was graded and a similar cover system applied. Fencing and gates were realigned and the security (including bear fencing) of the site was maintained. No changes to the Transfer Station were made in 2020.