

## Birchwood Dairy Information Requirements: Commercial Waste Discharge Application Notice to Public

Application for a Permit under the provisions of the Environmental Management Act

We, Birchwood Dairy Inc, at the mailing address of 1154 Fadden Road, Abbotsford, BC, V3G 1T9, intend to submit an application to the Director to authorize the discharge of wastewater produced from a milk processing facility located at 1154 Fadden Road, Abbotsford. The legal description of the property is PID 012-907-537.

Birchwood Dairy is a well-established operating dairy farm which also processes raw milk into a variety of dairy products, including milk (skim, 1%, 2%, 5%, whole, homo), coffee cream whipping cream, yogurt, and our ever so popular and well-known ice-cream. These dairy products are sold to the public on site as well as shipping dairy products to marketing outlets in the Fraser Valley.

The operating period for the processing facility is Monday to Friday from 4:30 am to 3:00 pm during the spring to fall months and reduced hours during the winter months.

The wastewater from the dairy processing facility is blended with liquid dairy manure and stored in an upright metal slurry store and an earthen lagoon during the winter months and then applied as a crop fertilizer, based upon an agronomic basis, on adjacent farmland during the growing season.

The estimated volume of wastewater discharge from the processing facility amounts to approximately 2,500 cubic meters per year while the liquid manure from the dairy cattle generates about 4,500 cubic meters per year. In addition, rainwater coming into the uncovered storage facilities dilutes the mixture and increases the total volume to approximately 8,900 cubic meters per year.

The final discharge is primarily water (99.7 %), with the liquid manure providing most of the nutrients. The characteristics of the discharge water is based upon laboratory analysis as follows:

Parameters	Characteristics of Discharge
Total Nitrogen	0.026% = 260 mg/L
Phosphorous	0.0058% = 58 mg/L
Potassium	0.024% = 240 mg/L
Chloride	0.016% = 160 g/L
Sulfur	0.00188% = 18.8 mg/L
Sodium	0.01% = 100 mg/L
Copper	0.00016% = 1.6 mg/L
Iron	0.00018 = 1.8 mg/L
pH	6.2 to 7
BOD5	2050 ug/ml
Aluminum, Boron, Manganese, Zinc	Below Detectable Limit

Any person who may be adversely affected by the proposed discharge to the environment and wishes to provide relevant information may, within 30 days after the last day of posting, publishing, service or display, send written comments to the applicant with a copy to the Regional Director of Environmental Protection at [ENVCIA@gov.bc.ca](mailto:ENVCIA@gov.bc.ca). The identity of any respondents and contents of anything submitted in relation to this application will become part of the public record.

Dated: April 21, 2025

Contact: Nicole Parkinson/General Manager, Ph: 604 857-1315; [nicole@birchwooddairy.com](mailto:nicole@birchwooddairy.com)