



Presentation to West Kelowna City Council- November 16, 2021

Brenda Mines Location



What is Brenda Renewables?

- Brenda Renewables is an anaerobic digestion facility proposed for the former Brenda Mines site near Peachland, BC.
- The entire system is designed to ensure that local communities will not be disturbed by odour, noise or liquid discharge emissions.
- The system will process local municipal organic waste, yard waste, and biosolids to produce renewable natural gas and high-nutrient class A compost.



zero waste, just energy



reduce, reuse, reforest



create a diversion

Why are we developing Brenda Renewables?

The project will be developed in three phases:

1. **A compost facility consisting of a large dome structure, curing pads and support structures like a scale and office (this is the current phase)**
2. An anaerobic digestion facility
3. Additional Capacity

The Facility is safe, sustainable and will:

- Utilize up to 150,000 tonnes of local organic waste;
- Enter long term contracts with communities and First Nations in the Okanagan region for acceptance of organic inputs;
- Produce a Class A compost to be land-applied to help enhance site re-vegetation of the 780-hectare mine site.
- Produce up to 170,000 GJ/year of renewable natural gas to be used in Fortis BC's local residential natural gas system; and,
- Reduce local waste-disposal costs (with waste being processed locally rather than being shipped to Alberta)

Brenda Renewables Site Map

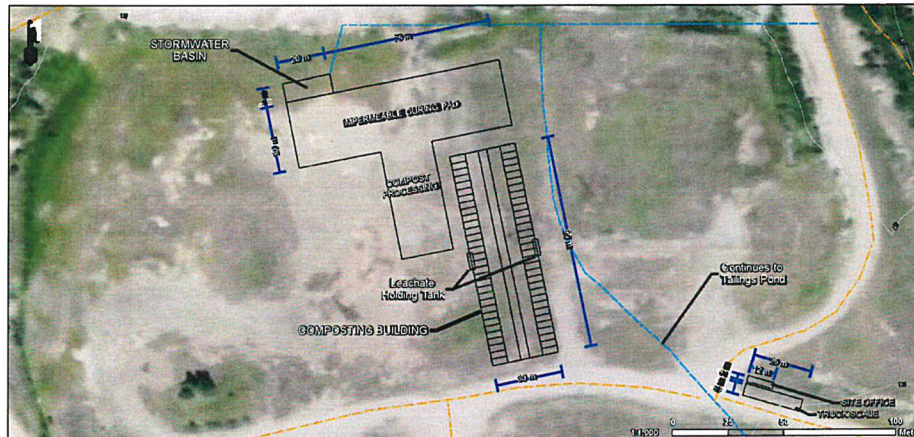


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7. This figure is to be read in conjunction with the accompanying document and figures.
8. This figure is not to be used to support construction.

BRENDA RENEWABLES SITE PLAN	
Ecometrix	BRENDA RENEWABLES PROJECT - BRENDA MINE RECLAMATION PERMIT M-12 AMENDMENT
GLENCORE	GLENCORE
Scale As Shown	March 2021
	Attachment 3

Phase 1 – Compost General Layout

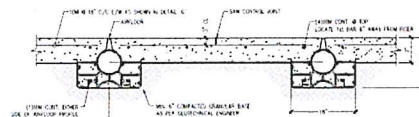
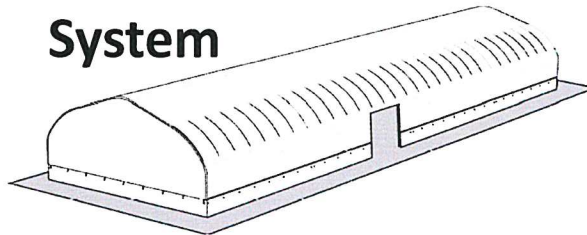


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Ecometrix	BRENDA RENEWABLES PROJECT - BRENDA MINE RECLAMATION PERMIT M-12 AMENDMENT
GLENCORE	GLENCORE
Scale As Shown	January 2021
	Attachment 5a

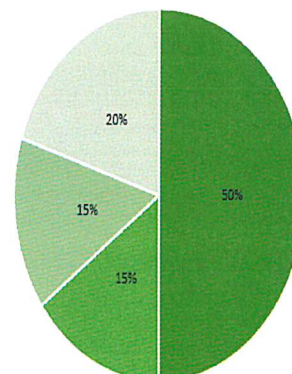
Enclosed Aerated Static Pile Compost System



Class A Compost

- Brenda Renewables will create a Class A compost, as classified by the Organic Matter Recycling Regulation (OMRR)
- It is processed by being kept at 55 degrees Celsius maintained throughout the compost pile for at least three days for static aerated pile composting. This will eliminate unpleasant odours
- Class A Compost is similar to Ogogrow, but contains less biosolids (about 95% in Ogogrow compared to 20% in Brenda Renewables' product)
- Class A Compost is not raw sewage. Raw sewage is untreated, whereas Class A compost is heavily processed to remove pathogens. The chemistry and odour of Class A compost is completely different from raw sewage.

Brenda Renewables
Feedstock Constituents



■ Residential Yard & Garden ■ Residential Food Waste ■ Agricultural Organics ■ Biosolids



Regulatory Status

Ministry	Status
Ministry of Environment (MOE)– Phase 1 Notification Approved	<ul style="list-style-type: none"> The Ministry has accepted the notice without objection authorizing us to produce up to 5,000 tonnes of compost (dry basis) as soon as the facility is constructed.
Ministry of Energy, Mines, and Low Carbon Innovation (MEMLCI) – Under Review	<ul style="list-style-type: none"> Glencore has submitted an application requesting modification of our existing permit to include application of compost to rock piles and tailings to enhance reclamation of the site.
Forest Lands, Natural Resource Operations, and Rural Development (FLNRORD) – Application for Crown Tenure	<ul style="list-style-type: none"> Glencore has applied for a Crown Land lease for the small parcel that the compost and digester facility will occupy within the Brenda Mine site. This change is required to assure the appropriate agencies have jurisdiction over mining and non-mining related activities



GLENCORE

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