



February 9th, 2016

Rick Schwenger
Glencore Canada
8801 Transcanadienne, Suite 400
Saint-Laurent, Quebec H4S 1Z6

By email: Rick.Schwenger@glencore-ca.com

Re: Glencore Hackett River Project Camp Waste Incinerator

Dear Mr. Schwenger,

As per your request for information regarding the incinerator in operation at the Hackett River site, please see below.

In 2008, Eco Waste Solutions supplied a diesel-fired, two-stage, dual-chambered controlled air batch incinerator (model CA 50) that included its own steel building shelter to this site.

This unit's primary chamber operates in the 650 to 850°C range using an auxiliary burner sized to maintain adequate temperatures even when burning very low heat value materials. The secondary chamber operates above 1000°C with a retention time of 2 seconds. The incinerator has a computerized process controller to automate its operation.

The capacity of the machine, based on typical mixed camp waste, is approximately 200 lbs per batch. Depending on the site activities, a rule of thumb of approx 4 lbs per person per day is often used for waste generation rate estimation. Therefore, the waste from a 50 person camp can be processed in 1 - 2 batches per day. If the camp workforce increases to the projected number of 75 people, the waste can be processed over 2 - 3 batches in a 24 hour period.

The incinerator has been designed to accommodate a range of waste materials with differing characteristics (heat value, moisture content, etc). We recommend that materials with different characteristics are layered for maximum efficiency. A discussion about this was included in the operator's manual and in the on-site operator training program that was provided.

Extremely wet materials such as Pacto toilet waste should be layered among drier higher heat value materials such as cardboard, paper and plastics. No more than 1/5 of the batch should include this material. The Pacto toilets "flush foil" is polyethylene, a non-chloride plastic that burns very cleanly.

If you require anything further please don't hesitate to contact us.

Kind regards,

Tracey Fraser
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