



Date: November 26, 2015
To: PLC Members
Copies: Blue Mountain Modernization PLC Engagement files; Mary Kainer (Environmental Chair, LKRA); posted on www.CanadianNepheline.ca website
Subject: **Public Liaison Committee - Minutes of October 30, 2015 Meeting**

Meeting Date: Friday October 30, 2015

Meeting: 2:00 – 3:10 pm

Plant Tour: 3:10 – 4:15 pm

Hosted by: Bob Marshall (Unimin) – Blue Room (plus site tour)

Attendees: Lake Kasshabog representatives:

Dawn Mitchell – Member at large
John Davidson – East Lake rep
Mike Delsey – East Lake rep (GoTo Meeting)
Ron Kearns – West Lake rep (GoTo meeting)
Michael Rosin – West Lake rep (absent)
Jim Martin – Deputy Mayor (Attending as an observer)

Unimin personnel:

Bob Marshall – NSO Plant Manager
Mikhail Clarkson – NSO Assistant Plant Manager (Attending as an observer)
Paul Boivin – Blue Mountain Plant Superintendent (Attending as a presenter)
Cynthia Jamieson – Environmental Program Manager
Michele Oxlade – Environmental Specialist (Attending as an observer)
Doug Staples – NSO Senior Purchasing/Warehousing Supervisor (IT Coordinator)

Agenda Items:

1. Review of the minutes of the last meeting (June 26, 2015)

No error or omissions were brought forward

2. Update the Committee on the Canadian Nepheline Modernization Project

(Slides 1 -5 in the attached presentation)

• **Summary of the project process**

- The Plants currently have about 1,700 pieces of rotating equipment. It is expected that a single modernized plant will have about half or less the current combined plants number of pieces of equipment.
- Smaller environmental footprint due to less distance to move product (↓ diesel), and consolidation of processes, (↓ energy, ↓ water use)
- Closing the Nephon plant in 4 – 6 years
- Will eliminate a significant volume of traffic across the haul road each day

• **Project status update**

- Unimin CEO visited the site October 28, 2015
- He supports the project and will request Board approved funding to start the environmental permitting and final engineering design

November 26, 2015

Public Liaison Committee - Minutes of October 30, 2015 Meeting

- **Permitting & Consultation**

- Need final design details to go forward and start permitting
- Can start First Nations consultation
- Unimin will host a site visit for First Nations before it snows

3. Review the Blue Mountain Plant's ongoing improvements to sound control

(Slides 6 – 10 in the attached presentation)

- 2008 Unimin conducted sound testing to address noise complaints. Following testing Unimin installed 26 silencers at the Nephton plant
- 2013 Pinchin Environmental completed additional sound testing
- Acoustic Reports indicated an approximate 90% sound reduction from Nephton from the original 2008 results
- Unimin has installed 14 silencers at Blue Mountain
- Complaints have been generally due to the Haul Road traffic during the early morning
- Unimin has committed to not start mobile equipment before 8am on the weekend. Paul gave an overview of the silencers installed to date and explained that the 6 new silencers will be installed by late January 2016 at the Blue Mountain Plant

4. New Business

- Ron and Mike would like a tour of the plant next summer; Unimin agreed
- Bob explained that it is important to also have a tour of Nephton to see what will be eliminated as a result of closure

5. Next Meeting

- Tentatively scheduled for late February 2016

6. Group Walking Tour of the Blue Mountain Plant

- Walk through product warehouse
- Walk through fine grind plant, control room and sand plant

Meeting adjourned at 4:15 pm

ATTACHMENT: PowerPoint presentation

Unimin Public Liaison Committee Meeting
October 30, 2015 – 2:00pm

Agenda

1. Review of the Minutes of the last meeting.
2. Update the committee on the Canadian Nepheline Modernization Project.
3. Review the Blue Mountain Plant's ongoing improvements to sound control.
4. New Business.
5. Group Tour of the Blue Mountain Plant.

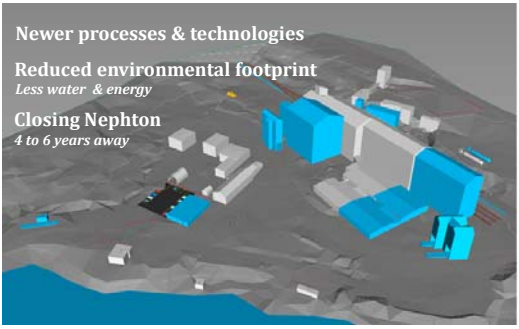
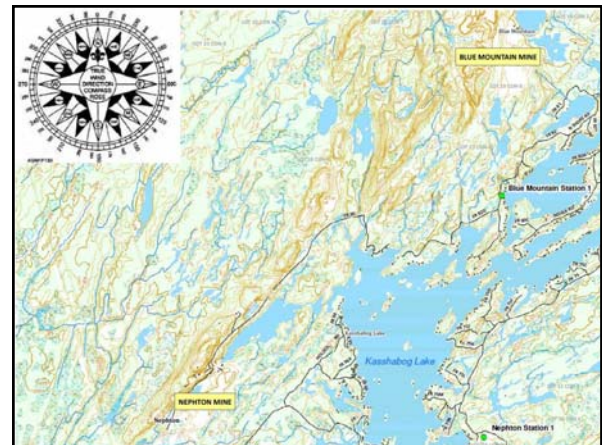
Canadian Nepheline Modernization

- *Equipment upgrades and additions*
- *Processing rearrangements*
- *Building removal and additions*
- *Currently conducting engineering and environmental assessments*
- *Environmental information will be used to develop plans to minimize impacts*
- *Buildings will be removed at time of mine closure*
- *From approval to completion will take 4 to 6 years*

Canadian Nepheline Modernization

Newer processes & technologies
Reduced environmental footprint
Less water & energy

Closing Nephton
4 to 6 years away

Canadian Nepheline Modernization

Project Status Update

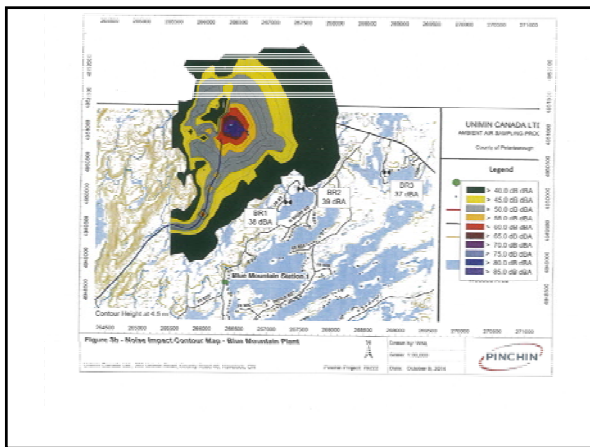
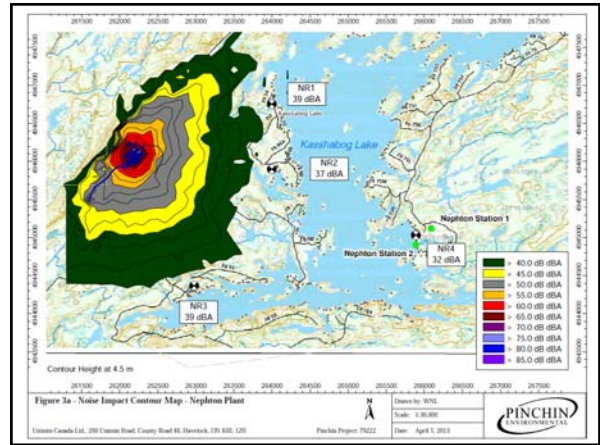
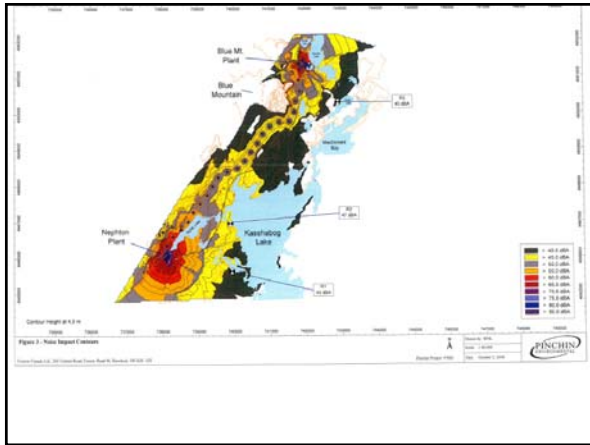
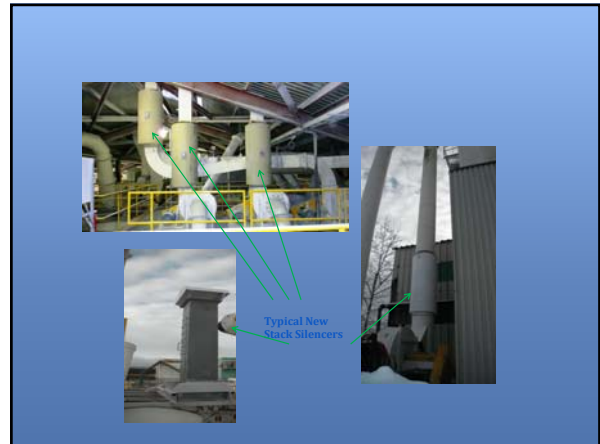
- Site Familiarization by Unimin CEO conducted October 28, 2015.
- Clear indication received that CEO supports the project and will request Board approved funding for Environmental Permitting and final Engineering.

Permitting & Consultation

- *Unimin will obtain environmental permits with appropriate municipal, provincial and federal agencies*
- *Unimin will engage the PLC and aboriginal communities in consultation*

Current Status of Unimin Efforts to Reduce Mine Related Sound

- **Nephton:** Silencers installed on 26 large fans
- **Blue Mountain:** Silencers installed on 14 large fans
- RPM on specific large fans adjusted to avoid low frequency sound
- Most **Mobile Equipment** retrofitted with white noise back-up alarms



Acoustic Assessment Report
Unimin Canada Ltd.

Location	Frequency	Level	Notes
Nephton Plant	125 Hz	39 dBA	NR1
	160 Hz	37 dBA	NR2
	200 Hz	39 dBA	NR3
	250 Hz	37 dBA	NR4
	315 Hz	39 dBA	NR1
	400 Hz	37 dBA	NR2
	500 Hz	39 dBA	NR3
	630 Hz	37 dBA	NR4
	800 Hz	39 dBA	NR1
	1000 Hz	37 dBA	NR2
Blue Mountain Plant	125 Hz	39 dBA	NR1
	160 Hz	37 dBA	NR2
	200 Hz	39 dBA	NR3
	250 Hz	37 dBA	NR4
	315 Hz	39 dBA	NR1
	400 Hz	37 dBA	NR2
	500 Hz	39 dBA	NR3
	630 Hz	37 dBA	NR4
	800 Hz	39 dBA	NR1
	1000 Hz	37 dBA	NR2

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Annual Assessment Report
Uminj Canada Ltd.

Project No. 1922

Item	Description	Assessment	Remarks
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A promotional flyer for Uminj, titled "Building for the Future". The flyer features the Uminj logo and several images of construction projects. To the right of the flyer is a registration form with the following fields: Name (with a dropdown menu), Email (with a dropdown menu), Phone, Cell Phone Number, and a Message field. Below the form, the website address "canadiannepheline.com" is displayed in blue text.