

P.O. Box 119 GJOA HAVEN, NU XOB 1JO TEL: (867) 360-6338 FAX: (867) 360-6369

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File No: NWB1NAN0208/TR

April 11<sup>th</sup>, 2003

## Summary of the March 29<sup>th</sup>, 2003 Nanisivik Technical Meeting in Iqaluit

On Saturday March 29<sup>th</sup>, 2003 a full-day technical meeting was held in Iqaluit to discuss the content of the following reports submitted by CanZinco Limited ("CanZinco") for approval by the Nunavut Water Board ("NWB"):

- 2002 Phase II Environmental Site Assessment ("Phase II ESA")
- Human Health and Ecological Risk Assessment ("HHERA")
- Emergency Response Plan ("ERP")

A list of persons who attended the meeting is found in Appendix 1 at the end of this summary.

Dionne Filiatrault, Senior Technical Advisor, NWB, was the facilitator of the meeting. Following a round of introductions, Eric Denholm, Environmental Consultant, Gartner Lee Limited ("GLL") - a representative of CanZinco, gave a presentation on the Phase II ESA. Throughout and following his presentation a number of questions and comments from the parties in attendance were raised. The topics included, but were not limited to the following:

Pre-mine baseline data; soil sampling methodology; concerns about metal concentration in Strathcona sound; marine mammal studies; acid-based accounting studies in soil samples and the potential of metal leaching from surface soils; the extent of deposition of wind blown tailings; soil sampling protocols for the Twin Lakes creek bed; differences in Phase II ESA protocols (Canadian Council of the Ministers of the Environment ("CCME") vs. the Canadian Standards Association); rational for the choice of the soil sampling methodology; concerns about the spreading of petroleum-based contaminants into permafrost; variation in soil metal concentrations results between laboratories employed for the study; PCBs as a potential contaminant at the Nanisivik site; anecdotal evidence about contaminants at the mine site from former workers residing in Arctic Bay; analytic methods to determine soil metal concentrations; concerns about heavy metals in fish found in Kuhulu Lake; acid-base accounting of haulage road material; oil drums in the landfill; and hydrocarbon contamination at the carpenter shop.

David Rae, Environmental Consultant, Jacques Whitford Limited ("JWL") - a representative of CanZinco presented a summary of the results of the human health portion of the HHERA. Throughout and following his presentation a number of questions and comments from the parties in attendance were raised. The topics included, but were not limited to the following:

The numbers of samples taken for the study; uptake potential of heavy metals by terrestrial animals; the exclusion of marine mammals in the study; the contribution of country foods in the total metal intake; the estimated daily intake of heavy metals in northern environments; the cleanup of "hot spots" of metal concentration; effects of natural mineralized zones on the study; quality and applicability of the 1985 background data set for the HHERA; the issue of hunters consuming dust-contaminated snow on site; concerns about lead-containing dust in homes at the Nanisivik town site; the scope of the traditional land-use study; the possibility of including residential activity at the dock area in the study; the prediction of likely future activities on the mine site area as determined by local people; CCME generic soil metal concentration standards versus remediation objectives determined through risk assessment; concerns about future contamination from the tailing disposal area; sampling from Kuhulu Lake; and lead as a potential carcinogen and its effects on human health, particularly children.

Malcolm Stephenson, Environmental Consultant, JWL - a representative of CanZinco, gave a presentation on the Ecological Risk Assessment ("ERA") portion of the HHERA. Throughout and following his presentation a number of questions and comments from the parties in attendance were raised. The topics included, but were not limited to the following:

Using Ontario Ministry of the Environment guidelines for soil metal concentrations versus those of CCME; the rational for choosing certain animals as Valued Ecological Components in the study; consideration of plant life in ERA; statistical fitness of the soil sampling regime; the comparison of end-points between human versus ecological risk; the possibility of biomagnification of metals in animals; the applicability of CCME generic guidelines for soil metal concentrations as an indicator of potential risk to human and ecological health; contribution of air-deposited metals (from southern latitudes) in the analysis.

Bob Carreau, Manager, Environmental Affairs, Breakwater Resources Limited, gave a presentation on the Nanisivik Mine's revised Emergency Response Plan. His presentation generated comments and questions on the following topics:

The numbers of persons available to respond to emergencies during the full reclamation and caretaking periods; availability of training opportunities for reclamation workers; levels of qualification among workers currently at the mine site; ability of the Nanisivik work crew, either in reclamation or care-taking scenarios, to respond to air disasters; capacity at the mine site to react to health emergencies; co-ordination with Arctic Bay to respond to fire emergencies; updating of contacts sheets; harmonization of requirements among government bodies.

After the completion of the presentations a timeline was proposed by Dionne Filiatrault, which would provide interested parties sufficient time to deliver comments and/or requests for clarifications on CanZinco's submissions, as well as give CanZinco the opportunity to respond to these before the final review and approval by the NWB.

During the meeting's wrap up the regulators identified the need for a coordinated approach to the approval of the reports.

The following dates have been established for the approval process:

April 25<sup>th</sup>, 2003, 5:00 pm MST - Interested parties to provide, to the NWB, comments/requests for clarification to CanZinco's three submissions

May 19<sup>th</sup>, 2003, 5:00 pm MST -Firm deadline for CanZinco to provide its response to the aforementioned comments/requests for clarification

May 23<sup>rd</sup>, 2003, 9:00 am MST- Proposed teleconference between regulators

The Board will meet as soon as possible following the deadlines outlined above to discuss the approval of the aforementioned documents.

Any question regarding this summary may be address to:

Patrick Duxbury Mine Reclamation Coordinator Nunavut Water Board

Telephone: (867)-439-8195 (Arctic Bay) or (867)-983-3018 (Cambridge Bay)

Email: <u>nunavutwaterboard@nt.sympatico.ca</u>

## Appendix 1 – Persons in Attendance at 29 March, 2003 Technical Meeting in Iqaluit, NU

Dionne Filiatrault – Nunavut Water Board Patrick Duxbury – Nunavut Water Board Ramli Halim – Acres International (Consultant to the NWB)

Levi Barnabas – Hamlet of Arctic Bay

Bill Heath – CanZinco Limited
Bob Carreau – CanZinco Limited
Eric Denholm – Gartner Lee Limited (Consultant to CanZinco Ltd.)
David Rae – Jacques Whitford Limited (Consultant to CanZinco Ltd.)
Malcolm Stephenson – Jacques Whitford Limited (Consultant to CanZinco Ltd.)

Stefan Lopataka – Nunavut Tunngavik Incorporated Neida Gonzalez - Nunavut Tunngavik Incorporated

Earle Baddaloo – Government of Nunavut, Department of Sustainable Development
Bernie MacIsaac – Government of Nunavut, Department of Sustainable Development
Bruce Trotter – Government of Nunavut, Department of Health and Social Services
Susan Hardy – Government of Nunavut, Department of Justice
Bob Moquin – Government of Nunavut
Brent Murphy – EBA Engineering Limited (Consultant to DIAND/Government of Nunavut)

Martin van Rooy - Workers Compensation Board

Michael Roy – Department of Indian Affairs and Northern Development Constantine Bodykevich - Department of Indian Affairs and Northern Development Colette Meloche – Environment Canada