

Giant Mine Arsenic Trioxide Technical Workshop

June 22 - 24, 1999

Katimavik Room "B", Explorer Hotel, Yellowknife, Northwest Territories

Workshop Purpose and Objectives

Context

The *Giant Mine Arsenic Trioxide Technical Workshop* is a key part of a commitment to a broader *Giant Mine Arsenic Trioxide Management Strategy* being led by the federal government. The *Technical Workshop* is a key element in developing the engineering and scientific aspects and consider the public health and environmental safety issues of the broader *Management Strategy*. Other elements of this *Management Strategy* will address: public information and communication; future ownership and operations; and, legal liabilities. Taken together, the elements provide the basis for informing the public and addressing the issues related to the management of arsenic trioxide.

Workshop Purpose

The workshop will help develop a common understanding of the arsenic trioxide problem at Giant Mine, provide a forum to develop and apply arsenic trioxide management options evaluation criteria and process, and collectively determine an *Action Plan* to identify what needs to be done to more fully develop the most promising and appropriate option(s), including addressing data gaps, tasks, responsibilities, required resources and time lines.

Workshop Objectives

The *Technical Workshop* is structured in three parts and is intended to achieve the following specific objectives:

Part One: Developing A Common Understanding Of The Problem

1. Provide an historical overview of arsenic trioxide management at Giant Mine and the chronology of events related to the work completed to date on arsenic trioxide management practices and options at Giant Mine, including a summary of the legislative and regulatory regime, operational, geophysical, engineering & environmental parameters and the associated issues and challenges;

2. Outline the commitment to and elements of a broader Giant Mine Arsenic Trioxide *Management Strategy* being led by the federal government;
3. Confirm the proposed objectives of the *Giant Mine Arsenic Trioxide Management Project Description*. This will include an outline of the planning, and anticipated environmental review and decision making processes;

Part Two: Development & Application Of Options Evaluation Criteria and Process

4. Present a detailed overview of the range of available engineering and scientific options explored to date, including existing issues, data gaps, and work (ie. research and technology development; marketing and feasibility studies) in progress related to the various options;
5. Present and discuss a comparative evaluation matrix to *assess and rank* the various options using engineering, scientific, public health, environmental safety, economic, and social criteria that need to be considered;
6. Amend (as necessary) the comparative evaluation matrix to achieve *agreement* on suitable and appropriate criteria for the evaluation of arsenic trioxide management options;
7. Based on objective application of the evaluation criteria determine which arsenic trioxide management option(s) are the most promising and appropriate;

Part Three: Development Of An Action Plan For Detailed Options Analysis

8. Identify and discuss what needs to be done to more fully develop the selected option(s), including the development of a detailed *Action Plan* identifying tasks, responsibilities, required resources and time lines; and,
9. Present the findings and results of the workshop to the public and interested organizations.

Giant Mine Arsenic Trioxide Technical Workshop

June 22 - 24, 1999
Katimavik Room "B" (Plenary Session Location), Explorer Hotel,
Yellowknife, Northwest Territories

Draft Agenda Day 1: June 22, 1999

MANDY NIB PT
PRESIDENTS MTG.

08:30 - 09:00

Arrival and Registration

Plenary Sessions Open To The Public & Media For Observation

09:00 - 09:30

Welcome and Opening Remarks

- Welcome (Andy Swiderski, Chair)
(Senior Representative, DIAND) → LORNE FOR DNGN?
(Senior Representative, GNWT) → BOB McLEOD
- Introduction of participants
- Purpose, Objectives and Anticipated Results From Workshop (Facilitator)
- Roles & Responsibilities and workshop "ground rules and procedures" (Facilitator)
- Overview of Logistics & Organization, Reference Materials and Displays (including a "reading and resource room" located in the Frobisher Room)
- Keeping track and recording of discussions (Facilitator)
- Review of Participant Reference Binder (Facilitator)
- Agenda Review (Facilitator)
- Questions/discussion

WE'LL COORDINATE
AND GET
NOTES.

WRITE A NOTE
TO CTNCL W/
AGENDA / INVITE
LIST.

PART ONE: DEVELOPING A COMMON UNDERSTANDING OF THE PROBLEM

09:30 - 10:10

Agenda Item No. 1: Overview of Arsenic Trioxide Management At Giant Mine and the Chronology of events Related to the Work Completed To date On Arsenic Trioxide Management Practices and Options (Objective 1)

- 30 minute presentation by Rick Allan, Manhattan Resources; Neill Thompson, DIAND and John Gale, FracFlow

- Questions/discussion

10:10 - 10:45

Agenda Item No. 2: The Giant Mine Arsenic Trioxide Management Strategy Being Led By The Federal Government: Commitment and Action (Obj. 2)

- 20 minute presentation by Dave Nutter, DIAND.
- Questions/discussion

REUSE TO
VROUSE OF
WORKSHOP.

10:45 - 11:00

Break

11:00 - 11:30

Agenda Item No. 3: Development Of The Giant Mine Arsenic Trioxide Project Description: Objectives & Performance Standards, Environmental Review & Decision Making Processes (Obj. 3)

- 20 minute presentation David Livingstone, DIAND
- Questions/discussion

11:30 - 12:00

Agenda Item No. 4: Environmental Review Processes, Criteria, Factors and Considerations To Ensure Public Health and Environmental Safety. (Obj. 3)

- 20 minute presentation by Heidi Klein, MVEIRB
- Questions/discussion

12:00 - 1:00

Lunch (lunch will not be provided)

**PART TWO: DEVELOPMENT & APPLICATION OF OPTIONS
EVALUATION CRITERIA AND PROCESS**

1:15 - 2:30

Agenda Item No. 5: Framework For Assessing The Options: Preliminary Evaluation Criteria & Comparative Matrix

- 15 minute presentation on evaluation approach, principles & methods by Jim Micak, Facilitator
- 30 minute presentation on the development and application of performance screening criteria and introduction to the preliminary evaluation criteria by Gary Strong, Dillon
- Questions/discussion
- Instructions for *Task 1 Working Groups*

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Draft Agenda Day 2: June 23, 1999

Plenary Sessions Open To The Public & Media For Observation

08:30 - 8:45 **Arrival, Welcome and Opening Remarks**

PART TWO: DEVELOPMENT & APPLICATION OF OPTIONS EVALUATION CRITERIA AND PROCESS (Continued)

8:45 - 3:15 **Agenda Item No. 8: Engineering & Scientific Options Explored To
Date: Minimum Performance Criteria, Issues,
Data Gaps and Work In Progress (Obj. 4)**

8:45 - 9:30 **Option Number 1: Storage in Place**
· 30 minute presentation by John Brodie
· 10 minute questions/discussion

9:30 - 10:15 **Option Number 2: Stabilization/Solidification**
· 30 minute presentation by Bill Cullen
· 15 minute questions/discussion

10:15 - 10:30 **Break**

10:30 - 11:15 **Option Number 3: Autoclave** ✓
· 30 minute presentation by Miramar Con Mine
· 15 minute questions/discussion

11:15 - 12:00 **Option Number 4: Sublimation (WAROX & El Indio)** ✓
· 30 minute presentation by Serena Domvile & Kent Morton
· 15 minute questions/discussion

- 12:00 - 1:00 Lunch (lunch will not be provided)
* Option To Serve Lunch for 30 minutes and continue with presentations to allow more time for Working Groups
- 1:00 - 1:45 **Option Number 5: Hot Water Leach** —
· 30 minute presentation by John Dutrizak
· 15 minute questions/discussion
- 1:45 - 2:30 **Option Number 6: EMR Technologies**
· 30 minute presentation by John Tranquilla
· 15 minute questions/discussion
- 2:30 - 3:15 **Option Number 7: Bio Leaching**
· 30 minute presentation by Simon Purkiss
· 15 minute questions/discussion
- 3:15 - 3:30 Break
- 3:30 - 4:30 **Agenda Item No. 9: Task 2 Working Groups: To Discuss Comparative Evaluation Matrix (Objective 5 and 6)**

· Working Group A: Katimavik "A", (Andy Swiderski, Facilitator)
· Working Group B: Katimavik "C", (Jim Micak, Facilitator)
· Recorders (XX)
- 4:30 - 5:30 **Agenda Item No.10: Plenary Session On Task 2: Working Towards Consensus On The Comparative Evaluation Matrix (Objective 5 and 6)**
· 10 minute presentations by Working Group A and B on Task 2
· plenary open discussion
· Questions/discussion
- 5:30 - 5:45 **Day Two Wrap Up and Instructions For Day Three**
- 5:45 - 6:15 **Public Questions**

CORE GROUP
SCORES
MATRIX