

Fax

Name: Stephen Schultz
Fax: 669-3824
Phone: 669-3729
From: Paula Spencer (867) 669-2667
Date: May 31, 1999
Subject: Final Arsenic Workshop Agenda
Pages: 14 including cover sheet

Comments:

Hi Stephen,

I have a few questions regarding the agenda. With the current agenda, ROM and PricewaterhouseCoopers are not active in addressing workshop participants. Is ROM/Pricewaterhouse interested in participating in the "Welcome and Opening Remarks" section or in Agenda item #1. Please advise Neill (669-2653) or myself (669-2667) of your position on this matter. Thank you.

**Paula Spencer
Water Resources
DIAND**

Giant Mine Arsenic Trioxide Technical Workshop

May 14, 1999

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;

Giant Mine Arsenic Trioxide Technical Workshop***May 14, 1999***

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**Draft No.5 May 26, 1999*

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

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)
 (Senior Representative, GNWT)
- 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

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**

*Giant Mine Arsenic Trioxide Technical Workshop**Draft No.5 May 26, 1999***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

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

*Giant Mine Arsenic Trioxide Technical Workshop**Draft No.5 May 26, 1999*

- 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*

2:30 - 2:45

Break

2:45 - 4:30

Agenda Item No. 6: Task 1 Working Groups: To Discuss Evaluation Criteria (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. 7: Plenary Session On Task 1: Working Towards Consensus On The Options Evaluation Criteria (Objective 5 and 6)

- 10 minute presentations by Working Group A and B on Task 1
- plenary open discussion
- Questions/discussion
- Instructions for *Task 2 Working Groups (Day 2 activity)*

5:30 - 5:45

Day One Wrap Up and Instructions for Day Two

5:45 - 6:15

Public Questions

*Giant Mine Arsenic Trioxide Technical Workshop**Draft 5 May 26, 1999*

Giant Mine Arsenic Trioxide Technical Workshop

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

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)**

Giant Mine Arsenic Trioxide Technical Workshop

Draft 5 May 26, 1999

- 30 minute presentation by Serena Domville & 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. 8: 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**

Giant Mine Arsenic Trioxide Technical Workshop

Draft 5 May 26, 1999

Giant Mine Arsenic Trioxide Technical Workshop

June 22 - 24, 1999

*Katlmavik Room "B" (Plenary Session Location), Explorer Hotel,
Yellowknife, Northwest Territories*

Draft Agenda Day 3: June 24, 1999

Plenary Sessions Open To The Public & Media For Observation

08:30 - 08:45

Welcome and Opening Remarks

- Day 3 Welcome
- Reconfirm Purpose, Objectives & Anticipated Results From Workshop (Facilitator)
- Detailed Review of Day Three Structure and Processes (Facilitator)
- Questions/discussion

08:45 - 10:30

Agenda Item No.12: Review of Expert Ranking of Option and Confirmation of Selection of Preferred Option (Objective. 6 and 7)

- presentation by Andy Swiderski, Facilitator
- open plenary discussion
- Questions/discussion
- Instructions for Task 3 Working Groups

10:30 - 10:45

Break

PART THREE: DEVELOPMENT OF AN ACTION PLAN FOR DETAILED OPTIONS ANALYSIS

10:45 - 12:00

Agenda Item No.13: Task 3 Working Groups: Development Of An Action Plan For Detailed Option(s) Analysis: Strategic Considerations, Approaches and Key Elements (Objective. 8)

*Giant Mine Arsenic Trioxide Technical Workshop**Draft 5 May 26, 1999*

- Working Group A: Katimavik "A",
(Andy Swiderski, Facilitator)
- Working Group B: *Cumberland Room*,
(Jim Micak, Facilitator)
- Working Group C: *(If Required)*, Location TBD,
(Craig Thomas, Facilitator)
- Recorders (XX)

12:00 - 1:00

Lunch (lunch will not be provided)

1:15 - 2:30

**Agenda Item No.14: Task 3 Working Groups: Development Of An
Action Plan For Detailed Option(s) Analysis:
Strategic Considerations, Approaches and Key
Elements (Continued) (Objective. 8)**

2:30 - 2:45

Break

2:45 - 4:30

**Agenda Item No.15: Plenary Session On Task 3: Consensus On The
Action Plan For Detailed Option(s) Analysis
(Objective 8)**

- 10 minute presentations by Working Group A, B and C (?) on Task 3
- plenary open discussion
- Questions/discussion

4:30 - 5:30

**Agenda Item No.16: Findings and Results Of The Workshop:
Commitment and Action (Objective. 9)**

- presentation by Co-Chair(s) and/or Facilitator(s)
- Questions/discussion

5:30 - 5:45

Public Questions

5:45

Workshop Closing Comments and Wrap Up

DRAFT**Participant List**

Name	Organization	Phone	Address and fax
Tranquilla, Dr. J.R.	EMR Technologies	(506) 459-4334	(506) 444-8707
Frostiak, John	Barrick Gold	(416) 252-5311	P.O. Box 119 Toronto ON M5J 2J3 (416)252-4374
Brodie, John	Brodie Consultants	(604) 922-2034	(604) 922-9520 brodies@direct.ca
Dutrizac, John	Canmet	(613) 995-4823	555 Booth St Ottawa ON, K1A 0G1 (613) 996-9041
Borden, Mike	Con Mine	(867) 873-2783 ext5605	920-4238 bordini@ssimicro.com
Dahl, Julie	DFO	(867) 669-4900	101-5204-50th Ave Yellowknife, NT X1A 1E2 669-4941
Harbicht, Steve	Environment Canada	(867) 669-4733	P.O. Box 2970 Yellowknife NT X1A 2R2 873-8185
Johnston, Laura	Environment Canada	(867) 669-4725	P.O. Box 2970 Yellowknife NT X1A 2R2 873-8185
Colpitts, Brad	Health - Yellowknife	(867) 669-7042	Stanton Regional Health P.O. Box 10 Yellowknife NT X1A 2N1 669-7517
Allan, Rick	Manhattan Resources	(604) 669-3397	(604) 669-3357
Klein, Heidi	MVEIRB	(867) 873-9636	P.O. Box 938 Yellowknife NT X1A 2N7 920-4761

McCaul, Jim	MVLWWG	(867) 669-0506	873-6610
Turner, Bob	North Slave Metis	(867) 873-9176	669-7442
Morton, Kent	Royal Oak Mines	(867) 669-3700	P.O. Bag 3000 Yellowknife NT X1A 2M2 669-3821
Schultz, Steve	Royal Oak Mines	(867) 669-3700	P.O. Bag 3000 Yellowknife NT X1A 2M2 669-3821
Stard, John	Royal Oak Mines	(867) 669-3700	P.O. Bag 3000 Yellowknife NT X1A 2M2 669-3821
Cullen, Bill	UBC	(604) 822-4435	2036 Main Mall UBC Vancouver BC V6T 1Z1 (604) 822-3260
Bengts, Peter	WCB - Mines	(867) 920-3888	873-0262
Gale, John OR Bursey, Glen	FracFlow	(902)468-1317	(902)468 -4700
Domville, Serena	SJ Domvile and Associates	011 562 235 5100	011 562 235 5100
Neill Thompson	DIAND - Water Resources, NWT		
David Livingstone	DIAND - Renewable Resources & Envr		
Dave Nutter	DIAND - Special Advisor		
Kate Hearn	Minerals - DIAND		
Floyd Adlem or Alternate	Regional Operations /District - DIAND		
Cathy Jewison	Communications - DIAND		

Dave Milburn	Water Resources - DIAND		
--------------	----------------------------	--	--

Name	Delegate	Organization	Phone	Address
Max Hall	his discretion	City of YK	(867) 920-5624	P.O. Box 580 Yellowknife NT X1A 2N4 669-3465
Blondin, Ted	Zaby Nevit	Treaty 11	(867) 392-6381	(867) 392-6389
McLeod, Bob	Terry Brookes attended last one Jim Coughlin	GNWT - MACA	(867) 873-7118	P.O. Box 1320 Yellowknife NT X1A 2Y9 873-7965
Paquin, Emery	Lisa Dyer attended last one	GNWT - RWED	(867) 873-7654	EPS - RWED 600, 5102-50th Ave Yellowknife NT X1A 3S8 873-0221
Sangris, Fred	Rachel Crapeau	Yellowknives Dene Band	(867) 873-4307	873-5969
Bill Erasmus		Dene Nation	(867) 873-4081	Box 2338 Yellowknife NT X1A 2P7 920-2254
Richard Edwards		Pricewaterhouse Coopers Inc.	669-3704	c/o ROM - Giant
Mark Danis		Canadian Auto Workers Union	873-5192	Box 1628 Yellowknife NT X1A 2P2 873-5174
CARC/Ecology North	one delegate			
Roy Kwiatkowski	Health Canada			
Larry Connell	Viceroy Resources			

Rod McElroy	Flour Daniel Wright			
-------------	------------------------	--	--	--