

FAX TRANSMITTAL**TO:** Distribution List**ORGANIZATION:****FAX NO.:** (867)**FROM:** Kerry Walsh**SUBJECT:** Giant Mine Arsenic Trioxide Technical Workshop**DATE:** June 16, 1999**FILE NO(S).:** 98-5603-04**TOTAL PAGES** 11
(Including this page):**IF YOU DO NOT RECEIVE ALL PAGES OF THIS FAX, PLEASE CALL: (867) 920-4555**

CONFIDENTIALITY WARNING: This transmission may contain confidential documents and/or information. If you are not the intended recipient, please notify us immediately and be advised that any disclosure, copying, or distribution of this facsimile or its contents is strictly prohibited by law.

With the workshop set to run next week, please find enclosed a final purpose and objectives, as well as an agenda.


**DILLON
CONSULTING**

5102
51st Street,
Yellowknife,
Northwest Territories,
Canada
X1A 1S7
Telephone
(867) 920-4555
Fax
(867) 873-3328

**Dillon Consulting
Limited**

Giant Mine Arsenic Trioxide Technical Workshop Contact List

Participants

<u>Name</u>	<u>Agency</u>	<u>Phone</u>	<u>Fax</u>
Allan, Rick	Manhattan Resources	(604) 669-3397	(604) 669-3357
Bengts, Peter	WCB - Mines	920-3888	873-0262
Borden, Mike	Con Mine	873-2783 ext 5605	920-4238
Brodie, John	Brodie Consultants	(604) 922-2034	(604) 922-9520
Colpitts, Brad	Stanton Regional Health	669-7042	669-7517
Connell, Larry	Royal Oak Mines		(604) 522-5874
Corriveau, Andre	Dept of Health	920-3231	873-0442
Cullen, Bill	UBC	(604) 822-4435	(604) 822-2847
Dahl, Julie	DFO	669-4911	669-4941
Peterson, Steve	Canadian Autoworkers	873-5192	873-5174
Domville, Serena			011 562 235 5100
Dutrizac, John	Canmet	(613) 995-4823	(613) 996-9041
Dyer, Lisa	GNWT-RWED	873-7654	873-0221
Edwards, Richard	Waterhouse Cooper	669-3704	669-3821
Erasmus, Bill	Dene Nation	873-4081	920-2254
Frostiak, John	Barrick Gold	(416) 252-5311	(416) 252-4374
Gale, John	FracFlow	(902) 468-4700	(902) 468-4700
Harbicht, Steve	Environment Canada	669-4733	873-8185
Craig, Gary	City of Yellowknife	920-5653	920-5649
Johnston, Laura	Environment Canada	669-4725	873-8185
Klein, Heidi	MVEIRB	873-9636	920-4761
Vincent, Andre	Dept of Health - Fed	(613) 941-3890	(613) 941-8921
Quiring, Annette	MVLWWG	669-0506	873-6610
Purkiss, Simon	Pacific Ore Technologies Ltd		
McElroy, Rod	Fluor Daniel Wright	(604) 488-2240	(604) 488-2027
Coughlin, Jim	GNWT - MACA	873-7118	873-0309
Morton, Kent	Royal Oak Mines	669-3700	669-3821
Sparling, Andrew	Ecology North	873-6019	
Sangris, Fred	Yknives Dene 1 st Nation	873-8951	873-8545
Sangris, Jonas	Yknives Dene 1 st Nation	873-4307	873-5969
Schultz, Steve	Royal Oak Mines	669-3700	669-3821
Stard, John	Royal Oak Mines	669-3700	669-3821
Tranquilla, Dr. J.M.	EMR Technologies	(506) 459-4334	(506) 444-8707
Turner, Bob	North Slave Metis	873-9176	669-7442

Giant Mine Arsenic Trioxide Technical Workshop

June 22 - 24, 1999

*Katimavik Room "B" (Plenary Session Location), 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***Final - June 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 impact assessment 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**

Agenda Day 1: Tuesday, June 22, 1999

Sessions Open To The Public & Media For Observation

08:30 - 09:00

Arrival and Registration

09:00 - 09:30

Welcome and Opening Remarks

- Welcome (Andy Swiderski, Facilitator)
(Dave Nutter, DIAND)
(Bob McLeod, GNWT)
- Introduction of participants
- Purpose, Objectives and Anticipated Workshop Results (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
Options (Objective 1)**

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

Giant Mine Arsenic Trioxide Technical Workshop

Final - June 14, 1999

- 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 Impact Assessment Process, 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*
- 2:30 - 2:45 **Break**

Glant Mine Arsenic Trioxide Technical Workshop**Final - June 14, 1999**

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)
- Designated Recorders in each working group

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 - 6:30**Public Questions & Discussions****6:30 - 7:00****Media Questions****7:00 -****Day One Wrap Up and Instructions for Day 2**

Giant Mine Arsenic Trioxide Technical Workshop

June 22 - 24, 1999

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

Agenda Day 2: Wednesday, June 23, 1999

Sessions Open To The Public & Media For Observation

08:30 - 8:45

Arrival, Welcome and Opening Remarks

- Purpose, Objectives and Anticipated Workshop Results (Facilitator)
- Day 2 Agenda Review (Facilitator)
- Roles & Responsibilities (Facilitator)
- Questions/discussion

PART TWO: DEVELOPMENT & APPLICATION OF OPTIONS EVALUATION CRITERIA AND PROCESS (Continued from Day 1)

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
- 15 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 Rodney McElroy
- 15 minute questions/discussion

Giant Mine Arsenic Trioxide Technical Workshop

Final - June 14, 1999

- 11:15 - 12:00 **Option Number 4: Sublimation (WAROX & El Indio)**
• 30 minute presentation by Serena Domville & Kent Morton
• 15 minute questions/discussion
- 12:00 - 1:00 Lunch (lunch will not be provided)
(* Progress dependent there is the 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 Patricio Riveros
• 15 minute questions/discussion
- 1:45 - 2:30 **Option Number 6: EMR Technologies**
• 30 minute presentation by Jim 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 The Application Of The Comparative Evaluation Matrix To The Options (Objective 5 and 6)**

• Working Group A: Katimavik "A", (Andy Swiderski, Facilitator)
• Working Group B: Katimavik "C", (Jim Micak, Facilitator)
• Designated Recorders in each working group
- 4:30 - 5:30 **Agenda Item No.10: Plenary Session On Task 2: Working Towards Consensus On The Application Of The Comparative Evaluation Matrix To The Options (Objective 5 and 6)**

• 10 minute presentations by Working Group A and B on Task 2
• plenary open discussion
• Questions/discussion
- 5:30 - 6:30 **Public Questions & Discussions**
- 6:30 - 7:00 **Media Questions**
- 7:00 - **Day Two Wrap Up and Instructions for Day 3**

Giant Mine Arsenic Trioxide Technical Workshop

June 22 - 24, 1999

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

Agenda Day 3: Thursday, June 24, 1999

Sessions Open To The Public & Media For Observation

08:30 - 08:45

Arrival, Welcome and Opening Remarks

- Purpose, Objectives and Anticipated Workshop Results (Facilitator)
- Day 3 Agenda Review (Facilitator)
- Roles & Responsibilities (Facilitator)
- Questions/discussion

08:45 - 10:30

Agenda Item No.11: Review of Ranking of Options and Confirmation of Selection of Preferred Options (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.12: Task 3 Working Groups: Development Of An Action Plan For Detailed Options Analysis: Strategic Considerations, Approaches and Key Elements (Objective. 8)

- Working Group A: Katimavik "A",
(Andy Swiderski, Facilitator)
- Working Group B: Cumberland Room,

*Giant Mine Arsenic Trioxide Technical Workshop**Final - June 14, 1999*

(Jim Micak, Facilitator)

- Working Group C: **(If Required)**, Location TBD,
(Craig Thomas, Facilitator)
- Designated Recorders in each working group

12:00 - 1:00

Lunch (lunch will not be provided)

1:15 - 2:30

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

2:30 - 2:45

Break

2:45 - 4:30

Agenda Item No.14: Plenary Session On Task 3: Working Towards Consensus On The Action Plan For Detailed Options Analysis (Objective 8)

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

4:30 - 5:00

Agenda Item No.15: Findings and Results Of The Workshop: Next Steps (Objective. 9)

- presentation by Facilitator
- Questions/discussion

5:00 - 6:00

Public Questions & Discussion

6:00 - 6:30

Media Questions

6:30

Workshop Closing Comments and Wrap Up

- Dave Nutter, DIAND