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July 8, 2010

Angela Plautz  
Regulatory Officer  
Mackenzie Valley Land and Water Board  
P. O. Box 2130  
YELLOWKNIFE, NT, X1A 2P6

*Sent by Email*

**RE: MV2009L8-0008 – Incineration Management Plan**

As per Part D, Item 38 of the Water License MV2009L8-0008, INAC-CARD would like to provide this Incineration Management Plan of the Tundra Mine.  
If you have any questions or require additional information please do not hesitate to call me.

Regards,

Linh Nguyen  
Project Officer  
Indian and Northern Affairs Canada  
Contaminants and Remediation Directorate  
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CC: Jane Amphlett           INAC-CARD  
Melanie Burgess        INAC-CARD  
Michael Martin         INAC-South Mackenzie District



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# **Incineration Management Plan 2010**

**Prepared by**

**Aboriginal Engineering Limited**

**Wednesday July 8<sup>th</sup> 2010**



# ***Incineration Management Plan 2010***

**PROJECT ID:** *TUNDRA MINE PHASE 2 REMEDIATION*

**DATE OF RE-SUBMISSION:** July 7, 2010

**SUBMITTED BY:** Karen Lau (AEL)

**SUBMITTED TO:** Brad Thompson (PWGSC)

**CC.:** Bob Johnson (AEL), Jane Amphlett (INAC), Melanie Burgess (INAC)

## **1.0 INTRODUCTION**

Herein is contained the details of AEL’s Incineration Management Plan for the Tundra Mine Phase 2 Remediation Project. This plan makes use of the guidelines outlined in Environment Canada’s “Technical Document for Batch Waste Incineration”.

## **2.0 REVISION LIST**

The following table tracks the process of the Incineration Management Plan revision and ensures that all stakeholders have the most up to date copy. The table must be updated each time a revision is made to the document.

**Figure 1 - Revision Table**

REVISION NO.	AEL REVIEW	DATE	CROWN REVIEW	DATE	SECTIONS REVISED	COMMENTS	REVISION DISTRIBUTION DATE
1	BOB JOHNSON	July 1, 2010				FIRST APPROVAL	
2			INAC	July 2, 2010			
	REUBEN MAKOHO NIUK	July 7, 2010			1.0, 1.4, 1.7	REVISED	



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## ➤ Incineration Management Plan

### 1.1 General Procedures

It is important to incinerate waste generated on-site as food is a wildlife/bear attractant. All incinerated waste should be checked that it is fully incinerated, and waste ash shall be collected at least weekly in an overpack drum to be disposed of off-site at a licensed waste facility. Plastics, Styrofoam, aerosols, batteries, acid-containing substance, and other potentially explosive material will not be incinerated; such materials will be properly packaged in their TDG certified container for shipment off-site for disposal at a designated waste facility.

### 1.2 Roles and Responsibilities

The following outlines the roles and responsibilities of employees with respect to the Response to Incineration Concerns.

**Table 1 Roles and Responsibilities for Incineration Management Plan**

<b>POSITION</b>	<b>RESPONSIBILITY</b>
Project Manager	Preparing Incineration Plan and ensuring the necessary resources are available to efficiently implement the plan.
Site Superintendent	Implementing and monitoring Incineration Plan at site (i.e., Primary Designate)
	Ensuring that a worker is always in charge of waste incineration after every meal.
	Consult with PM for mitigation measures in response to potential issues.
	Maintain communications with PM to ensure monitoring and responses are appropriate.
Site Engineer	Implementing and monitoring Incineration Plan at site (i.e., Secondary Designate)
	Keep incineration record
Site Team Members	Be trained in proper incineration procedures, and at least one worker is responsible to incinerate waste after every meal and report to the Supervisor

### 1.3 Training

Employees will be trained to inspect the site with the Superintendent and Field Engineer. The team members will be trained in the following:

- Acceptable material for incineration (ie. Non-plastic, Non-aerosol material, non-explosive material, non-acid containing material)
- Appropriate use of the incinerator
- Checking to see if all material has been successfully incinerated

### 1.4 Acts, Regulation and Guidelines

The Incineration Plan has been developed in accordance with:

- requirements set forth in the Land Use License,
- burn permit,
- Specification put forward by PWGSC for this project,



- The recommendations on incineration outlined in Environment Canada’s “Technical Document for Batch Waste Incineration”.

### 1.5 Emergency Numbers

The following is the applicable list of emergency numbers for fire and wildlife response:

**Table 2 Overall List of Emergency Numbers**

Name	Position	CONTACT #	ORGANIZATION
<b>PROJECT MANAGEMENT</b>			
<b>Brad Thompson</b>	Project Manager	Ph: 780-497-3862 Cell: 780-918-6277 Fax: 780-497-3842	Public Works and Government Services Canada
<b>Jane Amphlett</b>	Project Manager	Ph: 867-669-2773 Fax: 867-669-2721	Indian and Northern Affairs Canada
<b>Melanie Burgess</b>	Project Officer	Ph: 867-669-2566 Fax: 867-669-2721	Indian and Northern Affairs Canada
<b>TBA</b>	Departmental Representative	Ph: TBA	TBA
<b>Robert Johnson</b>	Project Manager	Ph. (867) 669.9481 Cell: (867) 445-4523 Fax (867) 669.9482	TLICHO
<b>Peter Stenne</b>	Site Superintendent	Site Ph: TBA Office Ph: (867) 669.9481	TLICHO
<b>John Mackenzie</b>	Health & Safety Manager	Ph. (867) 920-7288 Cell: (867) 446-0452 Fax (867) 920-7328	TLICHO
<b>TBA</b>	Health & Safety Officer/Medic	Site Ph: TBA	TLICHO
<b>Karen Lau</b>	Field Engineer	Site Ph: TBA Office Ph: (867) 669.9481	TLICHO
<b>MEDICAL EMERGENCY</b>			
<b>24 Hour - Stanton Territorial Emergency Evacuation</b>	N/A	Ph. (867) 669 4115 (call collect if required), or Ph. (867) 669-4111 (Yellowknife Hospital) or Ph. (867) 873-2222 (Yellowknife Ambulance)	Triggers the resources required for an emergency evacuation for an injured or ill employee
<b>DISASTER RELIEF</b>			
<b>Canadian Red Cross</b>	-	Ph. (780) 423.2680 Fax. (780) 428.7092	Canadian Red Cross
<b>FIRE EMERGENCY</b>			
<b>24 Hour Forest Fire Emergency Phone Number (NWT Fire)</b>	N/A	Ph. 1-877-698-3473 Ph. (867) 873-2222	Yellowknife Fire and Rescue Services
<b>RCMP</b>			
<b>Yellowknife RCMP</b>	Yellowknife Headquarters	Ph. (867) 669-1111	RCMP
<b>OCCUPATIONAL HEALTH AND SAFETY</b>			
<b>Peter Bengts</b>	Chief Inspector of Mines	(867) 669 4412	NWT Workers Compensation Board – Mine Safety



Name	Position	CONTACT #	ORGANIZATION
<b>WORKERS' COMPENSATION BOARD</b>			
<b>WCB Accident- Incident Reporting</b>	WCB	Ph. 1-800-661-0792 Fax: 1-866-277-3677	Workers Compensation Board
<b>AIR CHARTERS</b>			
<b>Air Tindi</b>	Air Charter – Plane	Ph. (867) 669.8200 Fax. (867) 669.8219	Private Company
<b>Arctic Sun West</b>	Air Charter – Plane	Ph. (867) 873.4464 Fax (867) 873.9334	Private Company
<b>Summit Air</b>	Air Charter – Plane	Ph. (867) 669.9789 Fax (867) 669.9649	Private Company
<b>Great Slave Helicopters</b>	Air Charter - Helicopter	Ph. (867) 873.2081 Fax (867) 873.6087 After Hours Ph. (867) 873.2081	Private Company

### **1.6 Health and Safety/Emergency Procedures**

An ABC Fire Extinguisher will be stored near the Incinerator in the event of a fire. Workers are not to put out fires past the incipient stage. After the incipient stage, alert superintendent and camp of fire over radio as per fire response procedures.

#### **DISPOSAL OF OPERATION CENTER AND CAMP WASTE**

- Burn Operations Center and Camp combustible wastes in fuel fired incinerators, except for plastics, Styrofoam, aerosols, batteries, acid-containing substance, and other potentially explosive material. AEL will containerize incombustible waste and ash/debris resultant from burning, and transport back to Yellowknife to be placed in the landfill or an appropriate waste facility site;
- Kitchen and non-hazardous waste materials are to be kept to a minimum. Burn these wastes in the incinerator, and containerize and transport any residual waste to Yellowknife to be placed in the landfill;
- Materials not suitable for burning must be containerized and shipped to Yellowknife and either placed in the Yellowknife Landfill or AEL will find an appropriate disposal location once in Yellowknife.

### **1.7 Incinerator Type**

The incinerator is use at the Tundra Mine Site is a Westland CY1020FA-D Single Chamber Forced Air Incinerator. It has a capacity of 64 kg/hour of camp waste.



**Figure 1: The CY1020FA D**