



**Abandonment and Restoration Plan**  
**Roche Bay PLC/West Melville Metals Inc.**

**January 31, 2012**

## Amendment Instruction Sheet

Amendment No.	Amendment Date	Date Entered	Entered By
1	January 31, 2012	January 31, 2012	A. Maynes

Page	Section//Description of Change
3	2. Introduction & 3. Schedule//Change in scheduled work dates
3	Table 1. Roche Bay PLC Camp and Cache location//Inclusion of new proposed camp location requiring AANDC approval
3	4. Infrastructure//Change in size of tents for kitchen and dry, change in number of sleeper tents
4	4. Infrastructure; Structures//Change in size of tents for kitchen and dry, change in number of sleeper tents
4	5. Seasonal Shutdowns//Inclusion of berm use in fuel storage
5	5. Seasonal Shutdowns; Combustible Waste//Change from open burning to burning of combustible waste in closed cyclonic combustion system
5	6. Final Abandonment and Restoration; Drilling// Change from open burning to burning of combustible waste in closed cyclonic combustion system
6	8. Emergency Contact Information//Addition of Rory Moore to Emergency Contacts

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# Abandonment and Restoration Plan

## 1. Preface

This Abandonment and Restoration Plan applies specifically to the Fraser Bay 1-3 Property. Included in the Appendix are a property map and a camp layout. Roche Bay PLC is committed to the protection and conservation of the natural environment and the safety and health of all employees and contractors from any potential harmful effects from operations and stored materials. The proposed work for this project includes drilling, fuel transport, fuel caches and establishing a temporary camp.

## 2. Introduction

Roche Bay PLC has been an active member in mineral exploration on the Melville Peninsula since 1997. The lands in the exploration area are Federal and Qikiqtani region Inuit owned lands (IOL). Land use for the exploration activity on the Mineral Lease #2826 is in the process of being authorized by Qikiqtani Inuit Association (QIA), Indian and Northern Affairs Canada (INAC) and the Nunavut Water Board (NWB). Within practical and possible means, Roche Bay PLC is obliged to restore the land to its original natural state. This abandonment and reclamation plan will be filed with the relevant regulatory bodies.

Roche Bay PLC will be operating one camp site on the property as well as approximately twelve drill sites in 2012. To accommodate twelve to sixteen people, four or five tents will be set up to allow for an office, a kitchen, a dry and four to five sleepers. Drill sites are to be located on the west side of the property in geologically favorable locations where equipment and/or fuel may be temporarily stored in small remote fuel caches. The DEW line airstrip known as the Mackar Inlet airstrip on the Peninsula will act to transport personnel and equipment to the general area. Helicopter transportation will be used to move personnel and equipment to and from camp while on the property.

**Table 1. Roche Bay PLC Camp and Cache location**

Camp	Latitude	Longitude
Original Proposed Location	68°11'54" N	85°31'13" W
New Proposed Location	68°20'14" N	85°44'14" W

## 3. Schedule

Equipment and supplies, as the proposal presents, will be mobilized to camp the second and third week of June 2012. The last week in June will be designated to building drills and setting up camp. Exploration including drilling is expected to start in July 2012, and is expected to continue through to August 2012 or as weather allows; a seasonal shutdown of the camp will commence and thereafter the annual field season will begin in May.

## 4. Infrastructure

Camp will consist of:

- Six to Seven 14'x16' insulated tents on wood flooring to function as, an office, core shack, a first aid station and storage, and 4 sleeper tents.
- Two 14' x 32' insulated tents on wood flooring to functions as a kitchen and a dry.
- Outhouse facilities using "Outhouse" toilets, which do not require electricity or water. If the camp gets larger in size Pacto toilets which use a flush foil to

encapsulate the waste may be brought in as well as an incinerator to properly incinerate the waste.

- A generator building to hold a 30 kW diesel generator.
- A helicopter landing area
- A water pump
- A dry tent will hold: 2 showers, 1-2 sets of washers and dryers, water tank

### **Structures**

- 4-5 14'x16' Sleeper tents
- 1 14'x16' Geology office and logistics/camp office
- 1 14'x32' Kitchen area tent
- 1 14'x32' Camp dry and water tank
- 1 12'x14' generator shed – housing a Lombardini LDW 2004 GenSet
- 1 14'x16' core processing and cutting tent
- 2 Outhouses or similar units

### **Vehicles**

- 2 All Terrain vehicles (quads)
- 1 Helicopter

### **Drilling Equipment**

- 1 A5 Diamond Drill plus miscellaneous drill equipment and spares.
- 20 Casing
- 50 100 ft Hose lengths
- 2 NQ Core Barrels
- 1 Overshot
- Tools Bits Misc Parts
- Water Tanks, Pressure Pump, Mud Pump Baskets
- Supply pump and Coil heater

### **Air Transport Equipment**

- C130 Hercules
- DCH5- Buffalo or similar
- Helicopter (A star, Long Ranger, 500, or similar)

## **5. Seasonal Shutdowns**

Prior to closure and/or shutdown, a complete inspection of all used areas will be carried out as well as an inventory check. The condition prior to leaving will be documented with photographs. Any contaminated soils around camp that have gone unnoticed will be treated as per the Spill Prevention and Response Plan. All fuel caches will be removed from the site and efforts will be made to use partially filled drums. Drums at site will be stored in fuel berms secured with rocks and gravel to mitigate the risk of an unlikely fuel leakage, and in the event partial drums are left for the season, they will be angled so snow and water do not enter the drum and no leakage occurs. Fuel drums will be stored on their sides with bungs in the three and nine o'clock positions. All chemicals will be stored in a sealed tent. Wood shacks and wood floors/frames will be secured and all pumps and hoses will be drained and stored to protect from winter damage.

## **Waste**

Combustible Waste: All combustible waste will be burned using a cyclonic barrel burner combustion system. This is a closed system that uses vacuum technology on a standard 205 L steel drum.

Non-Combustible Waste: All non-combustible waste will be shipped to the nearest approved disposal site.

Grey Water Sump: The sump will be covered securely and stakes will be placed around the sump to identify its location; an inspection of the grey water sump before departure will be conducted. The sump will be filled and leveled as required.

## **6. Final Abandonment and Restoration**

Prior to the lease termination, all structures, equipment and fuel will be removed from the property with the exception of the core stacks which will be permanently secured. Materials of value will be salvaged by Roche Bay PLC; Local persons and businesses will have the opportunity to salvage remaining buildings/materials that will otherwise be destroyed by Roche Bay PLC. Any contamination or debris will be removed and any contaminated soils will be treated as per the Spill Contingency Plan. Sumps will be inspected to make certain there is no leaching or run-off and will be back-filled and leveled as required. A thorough inspection of all areas will be conducted and documentation photographs will be taken and included in the final report submitted to the Water Resource Inspector and as part of the annual report submitted to QIA, INAC and the Nunavut water board. All designated agencies will be contacted and notified once the final clean-up as been performed.

### *Drilling*

All of the drill core will be permanently stored at the camp location on stable gravel pads for future access. As per the drilling contractor procedure, drills and additional drill equipment will be dismantled, packaged, secured, and flown out by the drilling contractor or as the contract describes. Inspection for soil contamination and any needed treatment at each drill site will be done. Remaining waste such as paper and large cardboards will be burned in a closed cyclonic barrel burner combustion system as per set guidelines; all other waste will be flown south to the nearest approved disposal location. If the camp expands then a larger incinerator may be purchased for the burning of combustible wastes. Grey water and black water sumps will be filled and levelled and will be inspected.

### *Reclamation*

Throughout the duration of the program and upon shutdown, areas on the property which have been disturbed may warrant the use of fertilizers to encourage natural re-vegetation. The removal of buildings infrastructures will allow plants to naturally re-establish themselves in the area as the structures will have prevented erosion of sediments; fertilizers will be used to aid plant re-growth in this situation and in areas where there have been heavy traffic flow.

## **7. Post Closure Site Monitoring**

After the completion of reclamation, annual terrestrial and aquatic monitoring can occur. The monitoring can consist of measuring and documenting plant re-growth and checking the stability of the permanent core racks and boxes and examining potential run-off and erosion problems. Reports with photographs of the conditions will be submitted to the relevant regulatory bodies.

## **8. Emergency Contact Information**

### **Contact Telephone Numbers**

Andrew Turner, Project and Camp Manager Primary  
Senior Geologist, APEX Geoscience Ltd, Edmonton, AB T6E 5V8  
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Benjamin Cox, - Roche Bay PLC Representative  
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Email: rmoore@westmelville.com

Environment Canada: 867-669-4728, 24-hr pager: 967-766-3737

Nunavut Government, Robert Eno: 867-875-7748

Department of Fisheries and Oceans: 867-669-4900

INAC Field Ops, Peter Kusugak: 867-979-6445

INAC Land Use Inspector: 867-882-4306

Qikiqtani Inuit Association: 867-975-8400, Toll-free: 1-800-667-2742