

***CONTINENTAL STONE LTD.***

**Spill Contingency Plan (Revised)  
Belleoram Crushed Rock Export Quarry**

**July 08, 2007**

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## **1.0 INTRODUCTION**

Continental Stone Limited (“Continental Stone”) requires the implementation of a site-specific spill contingency plan for the Belleoram Crushed Rock Export Quarry (“Belleoram Quarry”). The Spill Contingency Plan (SCP) has been developed to provide an appropriate and consistent response capability to any spill event

### **1.1 Purpose of the Spill Contingency Plan**

The purpose of the SCP is to have a system in place in the event of an emergency spill situation for the protection of life, environment and property/equipment. It is also intended to identify predetermined courses of action for accidents, system failures or other situations resulting in a spill event.

This plan defines the roles and responsibilities of key personnel and outlines the general procedures to be followed when responding to a spill event in a manner that will avoid or minimize health and safety risks, as well as environmental damage.

### **1.2 Contents of the Spill Contingency Plan**

The Spill Contingency Plan will include the following elements:

- Notification and alerting procedures in the event of a spill;
- Contact information for spill reporting;
- Duties and responsibilities of the “On Scene Commander”;
- Duties and Responsibilities of the “Operations Manager” and other staff;
- Clean up Procedures in the event of a spill;
- Spill site rehabilitation procedures;
- An inventory of available resources in the event of a spill.

### **1.3 Continental Stone Environmental Policy**

A key ingredient of Corporate Policy for Continental Stone is a commitment, in the conduct of its activities, to reduce or eliminate any adverse effects on the natural environment. As well, Continental Stone will endeavor to protect the health and safety of its employees and others who may be affected by these activities.

The environmental policy will be subject to review and revision when necessary. All employees will have changes brought to their attention as soon as practicable after they have been made.

Continental Stone is committed to a strong environmental plan that protects and preserves the biophysical environment in which its activities are carried out.

Employees at every level, including management, are responsible and accountable for the company’s overall environmental initiatives. Complete and active participation by everyone, everyday, in every job, is necessary for the environmental excellence the company expects. Management supports coordination of environmental initiatives and issues among all workers on the jobsite.

Management supports participation in the plan by all employees, and requires that all employees and contractors comply with the company environmental requirements as they relate to planning and the operation and maintenance of facilities and equipment. Employees are responsible for following all procedures and, wherever possible, improving on environmental measures.

The protection and preservation of the biophysical environment is our objective. Through heightened environmental awareness and action this can be accomplished.

## **1.4 Project Overview**

Site plan figures for the Belleoram Quarry are presented in Appendix A.

The Belleoram operations of Continental Stone will quarry granite from a "Greenfield" site located north of the town. Surface facilities at the site will include a crusher setup and a rinsing station. Water will be used from site ponds and streams for the rinsing of materials. Settling ponds will be constructed on site for the containment of silt laden water.

Additional site facilities will include a laboratory for geotechnical analysis, office space, a garage, welding shop, and a stores warehouse. Municipal facilities will be used for potable water and garbage disposal. A septic system will be constructed for domestic wastewater. Private contractors will be retained for sewage collection and disposal.

A marine loading facility will be built to accommodate panamax size bulk carriers.

Continental Stone will not have on-site storage of blasting materials. NFLD HARD-ROK INC. will be contracted to provide blasting for the Belleoram Quarry and have established Spill Contingency Plans in place for all of their operations (Appendix B).

Continental Stone will be the owner of all project-related facilities in Belleoram.

## **2.0 ROLES AND RESPONSIBILITIES**

The initial stage of any spill situation is critical. An effective and timely response is essential in preventing a situation from escalating. However, in reaching decisions on containment and clean-up procedures, the following criteria will be applied:

- Minimize danger to persons;
- Protect water bodies;
- Minimize area affected by the leak or spill;
- Minimize pollution of watercourses;
- Minimize the degree of disturbance to the area and watercourses during the clean up.

Specific responsibilities and duties of personnel are outlined below.

## 2.1 Owners Responsibilities

- Continental Stone will ensure that its employees and agents comply with all applicable environmental laws, regulations, permits and requirements of federal and provincial authorities, and other relevant rules and requirements which Continental Stone shall establish with respect to its operations;
- Continental Stone will ensure that its Belleoram Quarry operations are operated in compliance with all applicable laws, regulations, permits, and any other requirements;
- Continental Stone will ensure employees responding in the event of a spill at the Belleoram Quarry site are trained and practiced in spill response, containment and clean-up, including equipment deployment.
- In the event of a spill, Continental Stone will ensure that every effort is made to clean up and restore the affected area as rapidly as possible as a first priority of operations;
- Continental Stone will report all incidents of spillage or leakage of a regulated substance within one working day to the Province of Newfoundland Government Services Center in Grand Falls by phoning (709) 292 4206 or faxing (709) 292 4528;
- Continental Stone will submit a written report including a detailed description of the incident, a summary of the contributing factors, measures taken to clean up and monitor the area surrounding the spill and an action plan to prevent future occurrences. This report will be submitted within 30 days of the original incident to:

The Director  
Pollution Prevention Division  
Department of Environment and Conservation  
PO Box 8700 St. John's, NL  
A1B 4J6  
Telephone (709) 729 2556  
Fax (709) 729 6969

## 2.2 First On-Scene

The individual who discovers a leak will do the following:

- If safe to do so, attempt to stop the leakage and contain the flow.
- If the person is unable to immediately stop the leak, report immediately to the senior on-site employee of Continental Stone.
- This senior employee will act as the "On Scene Commander" ("OSC") for the purposes of cleaning up the spill and containing the spilled material.

In the event that the spill material is coming into contact with, or close to, live wires or electrical equipment:

**DO NOTHING, STAY AT LEAST 10 METERS AWAY FROM THE WATER AND THE WIRES, SECURE THE AREA, CALL OUT THE ON CALL ELECTRICAL FOREMAN.**

The electrical foreman will isolate the electrical supply and make the area safe prior to anybody working on the spill response.

### **2.3 On-Scene Commander**

Personnel designated “On Scene Commanders” will be trained in spill clean-up procedures and how to mobilize the clean-up equipment.

The On Scene Commander, upon being notified of a leak or spill, will do the following:

- Determine the substance accidentally released or spilled if not already known;
- Secure the spill scene and take all safety measures for the protection of human life;
- Identify potential fire hazards and eliminate them;
- Assess the requirement for evacuation of the area proximal to the spill;
- Assess the size and nature of the spill area and assess the requirement for additional personnel and resources;
- Contact **Robert Rose, Project Manager, (709) 746-3117** to act as Operations Manager (“OM”). If Robert Rose is not available, then contact should be made with the next person on the relevant telephone list at the end of this document.
- Commence efforts to contain the spill under direction of designated personnel (OM) and applicable procedures;
- Any leakage or spill of fuel of 70 Litres or more will be reported immediately to the Canadian Coast Guard spill report number at (709) 772-2083 by the OSC. The following information will be provided if possible:
  - Name of reporter and phone number;
  - Time of leak or spill;
  - Time of detection of leak or spill;
  - Type of product leaked or spilled;
  - Location of product leaked or spilled;
  - Amount of product leaked or spilled;
  - The source of the leak or spill;
  - If the leak or spill is still occurring;
  - If the leaked or spilled product is contained; if not contained, where it is flowing;
  - Wind speed and direction;
  - Temperature;
  - Proximity to water bodies, wells, water intakes, buildings;
  - Snow cover and depth, terrain, and soil conditions;
  - Type of accident, if one has occurred- (e.g. collision, rupture, overflows,);
  - Owners of product and phone number.

The “On Scene Commander” will act in consultation with the OM and regulating authorities to accomplish the following:

- Assess site conditions and environmental impacts of various clean up procedures;
- Assess potential for material recovery;
- Deploy on-site staff to build containment dykes and commence pumping spilled material into drums;
- Apply absorbents if necessary;
- Dispose of all contaminated debris, cleaning materials and absorbents appropriately;

- Take all necessary precautions to ensure that the incident does not occur.

## **2.4 Operations Manager**

The Operations Manager (“OM”) will assume the overall responsibility of coordinating a clean up and maintaining this contingency plan current and up-to-date. The Operations Manager will have full authority to take necessary and appropriate action with unnecessary delay.

The “Operations Manager” will be responsible for the preparation of a written report, including a detailed summary of the incident, summary of contributing factors, and an action plan to prevent future incidents of a similar nature. This report shall be submitted to the Director, Pollution Prevention Division. The action plan will include a description of actions already taken and future actions to be implemented. This report will be submitted as soon as possible and no later than 30 days after the leak or spill to the following:

Director, Pollution Prevention Division  
Department of Environment and Conservation  
P.O. Box 8700  
St. John’s, Newfoundland  
A1B 4J6

As well as:

Environment Canada  
Emergency Response Coordinator  
P.O. Box 5037  
St. John’s, Newfoundland  
A1C 5V3

The Town of Belleoram will be notified by the OM in the event of a spill.

## **3.0 CLASSES OF SPILL**

Spills of fuel and hazardous materials, as well as silt-laden water, can be damaging to vegetation, soil, surface water, groundwater, wildlife and aquatic organisms. Spills anywhere within the boundary of the Granite Quarry will be immediately dealt with, and any contaminated soils removed and transported to an approved disposal area.

### **3.1 Spill of Diesel, Lubricating Oils, or Other Hazardous Materials**

Continental Stone will not have on-site bulk storage for diesel fuel, lubricating oils, or other combustible fuels. The largest quantities of fuel will therefore be restricted to the tank capacity of site equipment (maximum 1000 litres).

The following measures will minimize the potential for spills affecting the aquatic environment:

- Bulk carriers will not be refueled at the Belleoram Quarry marine terminal; and

- All equipment will be serviced and fueled within the work site but at a specified location at least 30 m from any watercourse or in areas designated for spill containment.

There exists potential for a spill event associated with fuel delivery trucks, as well as spills associated with the fuelling of on-site equipment and leakage from associated fuel lines. Other petroleum products associated with equipment maintenance (e.g. hydraulic fluids, lubricating oils, solvents, and antifreeze) are used in relatively small quantities and represent a limited hazard.

### **3.2 Spill of Silt-Laden Water**

Used rinse water will be pumped via a High Density Polyethylene pipe to a series of engineered settling ponds from the rinsing station. This water will contain suspended silt, clay and other organic materials that have been rinsed from the crushed aggregate. During plant operations, the line will be inspected once each shift to detect any failures or leakages.

In the event of a failure or a leakage in this line, the water flow will be controlled if possible and the released water directed to the site drainage system so that no direct release to natural water bodies occurs.

The engineered settling ponds will accumulate sludge through deposition of the suspended material. In order for the settlement ponds to remain operational, the settled material will need to be excavated, transported and deposited in a suitable fill location. It is possible that, during transfer or transport, a spill of this material could occur. Geochemical analysis of the source rock has shown that it is not acid generating and does not contain harmful heavy metals.

Sediment control structures will be constructed prior to works in or around any waterbodies. The failure of these structures could result in the release of sediment laden water that has the potential to adversely affect the quality of the receiving waters. This can lead to detrimental effects on many forms of aquatic life, including direct effects on fish and their habitat, the smothering of benthic habitat including aquatic vegetation, and more indirect effects on the terrestrial species that depend on these waterbodies for food.

### **4.0 CLEAN-UP PROTOCOL**

Continental Stone shall assume the overall responsibility of coordinating a clean-up. In consultation with regulatory authorities, Continental Stone will:

- deploy on-site personnel to contain the spilled material using a dyke, pit, absorbent material or booms, as appropriate and necessary;
- assess site conditions and potential environmental impacts of various clean-up procedures;
- dispose of all contaminated debris, cleaning materials, and sorbent material (i.e., absorbents) using an approved disposal facility;
- choose and implement an appropriate clean-up procedure; and



## CONTINENTAL STONE LTD.

- take all necessary precautions to ensure that the incident does not recur.

Clean-up equipment present at the site will include, as a minimum, three 55 gallon drum spill kits. Each spill kit will comprise the following items:

- 55 gallon D.O.T. approved open top drum;
- 2 pr. chemical resistant rubber gloves;
- 6 - disposable non-toxic dust masks;
- 4 - 55 gallon collection bags;
- 1 light clean up broom
- 2 – 18 lb. bag OCLANSORB
- 6 – 4” x 4” Sorb Sox
- 1 blank Hazardous Label

In the unlikely event of a spill affecting a water body, a minimum of 100 ft. of boom will also be stored on site.

### 5.0 SITE REHABILITATION

Continental Stone shall, in consultation with regulatory authorities, attempt to restore any site effected by a spill event.

### 6.0 NOTIFICATION AND ACTION LIST

The persons on the list below should be called upon to act as an “On Scene Commander” in the event of a spill or hazardous incident at the Belleoram Quarry of Continental Stone.

<u>Name</u>	<u>Affiliation</u>	<u>Telephone</u>
Robert Rose	Project Manager/ Operations Manager	Cell 709 746 3117 Home 709 781 7535 Office 709 782 3404
Larry Puddister	COO Pennecon Limited	Cell 709 682 3865 Office 709 782 3404

### CANADIAN COAST GUARD

Traffic Centre  
Oil and Chemical Spills and Fish Kills  
St. John's, NL  
Tel: (709) 772-2083

24 hour Pollution Line  
Tel: 1-800-563-2444  
Fax: (709) 772-5369

24 hour Regional (NL) contact number for reporting a marine pollution incident:  
Tel: 1-800-563-9089

**ENVIRONMENT CANADA**

Glen Worthman  
Toxics and Emergencies  
Tel: (709) 772-4047  
(709) 687-0585 (cell)  
Fax: (709) 772-5097

**TRANSPORT CANADA**

Canutec  
613 996 6666

**Other useful Numbers and Contact List**

<b><u>Name</u></b>	<b><u>Affiliation</u></b>	<b><u>Telephone</u></b>
Ambulance		709 888 0000
Fire Alarm		709 881 3300
Harbour Breton Hospital		709 885 2359
Grand Falls Hospital		709 292 2500
Mose Ambrose Medical Clinic		709 888 3541
Community Health Nurse		709 881 6101
Belleoram Town Hall		709 881 6161
Mayor Stewart May		709 881 7300
Occupational Health and Safety	Industrial Accidents	709 729 4444
Poison Information Line	24 Hour Line	709 722 1110
Clariant Canada Inc.	Chemical Emergencies	613 996 6666
Newfoundland Hydro	Power Outages/Emergencies	888 764 9376
RCMP	Province Wide Emergencies	800 709 7267
Cooke Aquaculture		709 881 3151
Canadian Helicopters		709 258 5681
		709 686 2095
Universal Helicopters		709 686 2821
		709 256 5681
		709 576 4611

**7.0 SPILL REPORTING**

- Continental Stone will report all incidents of spillage or leakage of a regulated substance within one working day to the St. John's Office of The Newfoundland and Labrador Department of Environment by phoning (709) 729 2556 or faxing (709) 729 6969
- All issues relating to fish or fish habitat will be discussed between Continental Stone and Mr. John O'Rourke Area Habitat Coordinator, Fisheries and Oceans Canada, P.O. Box 5667, St. John's, NL A1C 5X1 Telephone 709 772 7345
- Continental Stone will submit a written report including a detailed description of the incident, a summary of contributing factors, measures taken to clean up and monitor the area surrounding the spill and an action plan to prevent future

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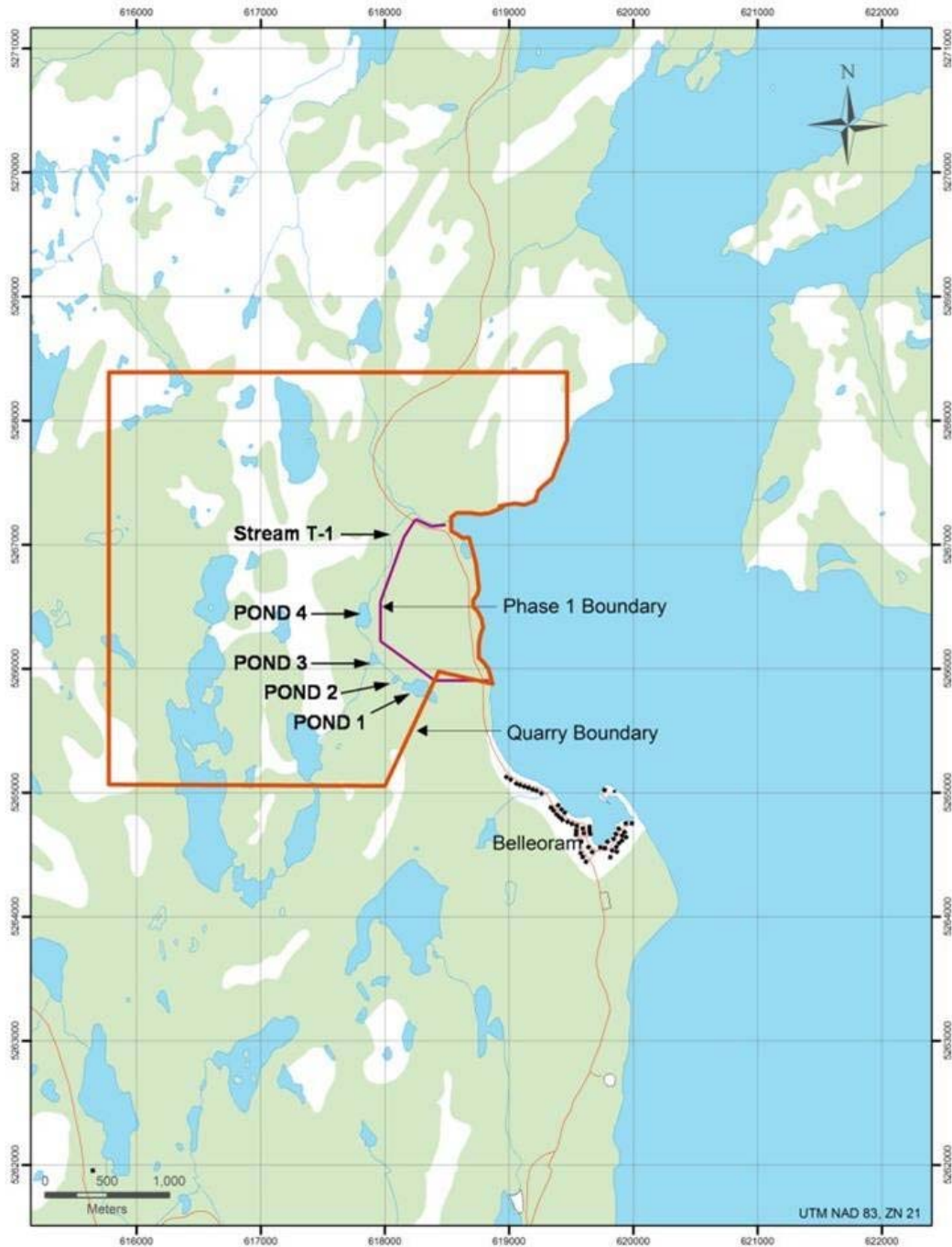
occurrences. Such reports will be submitted within 30 days of the original incident to:

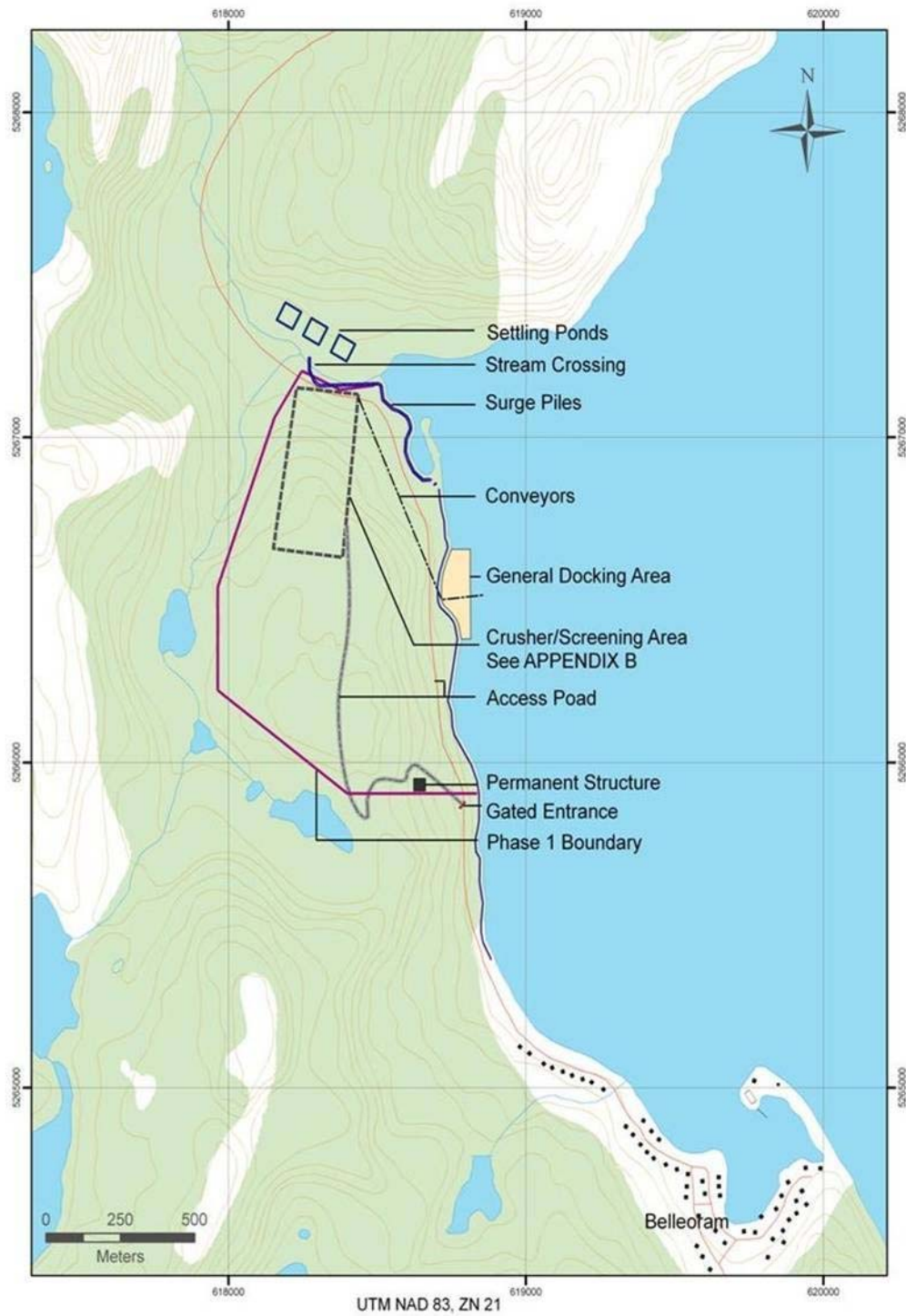
The Director, Pollution Prevention Division  
Department of Environment and Conservation  
P.O. Box 8700  
St. John's NL  
A1B 4J6

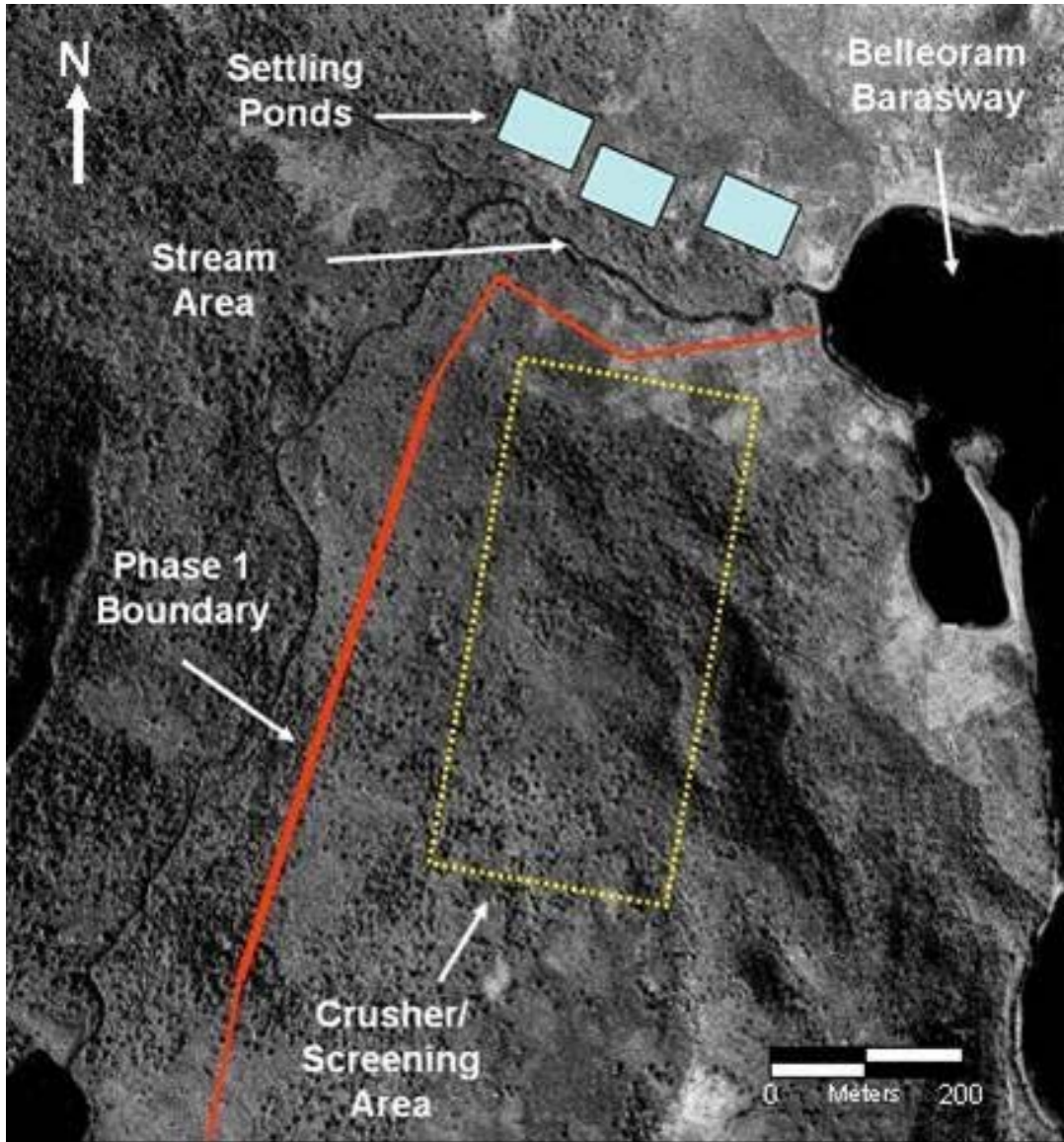
- Spills of silt laden water or other substances that could affect water quality will be reported to the Water Resources Management Division (709)729-2563.

# **APPENDIX A**

## **Site Figures**







## **APPENDIX B**

### **Newfoundland Hard-Rok Inc.: Emergency Response Assistance Plans**