

APPENDIX E

PUBLIC CONSULTATION MATERIALS



**Sovereign Resources Inc.
Quarry Modification Project
Public Open House**

Welcome

Quarry Modification Project Project Overview

- Sovereign Resources (subsidiary of Municipal Enterprises Ltd.) owns and operates a quarry on the east side of Rocky Lake Drive in Bedford, Nova Scotia
- The existing Industrial Approval allows for operation of a 19 ha (44 acres) quarry and includes crushing activities and aggregate production for up to 90,000 tonnes annually
- Sovereign Resources wishes to modify the approved operational activities and the permitted quarry area to allow for continued quarry operation and long-term development (*i.e.*, approximately 50 years).

Project Description

- Quarry activities will include: clearing, grubbing, stripping and stockpiling of topsoil and overburden and drilling, blasting, and hauling of blasted rock.
- **There will be no crushing at the Sovereign Resources quarry** - all rock will be hauled to the adjacent Municipal Enterprises quarry for processing (*i.e.*, crushing, stockpiling, and transportation to markets).
- **Truck traffic along public roads and highways will not increase** - hauling of blasted rock will be via a private access route between the two quarries. **The existing access point to Rocky Lake Drive will be closed.**

Project Description (Cont'd)

- Environmental management will include: dust and erosion control and progressive rehabilitation.
- The quarry will be designed and developed to **minimize visual impacts**. The proposed new quarry area was developed based on the property boundary, buffer zones around sensitive features (*i.e.*, wetlands and rare plants), and topography and visibility (*i.e.*, the 50 m elevation contour).
- Sovereign Resources will comply with all conditions of approval provided by Nova Scotia Environment and Labour (NSEL) for the modified quarry.

The Environmental Assessment

Sovereign Resources will register this project as a Class I Undertaking under the *Nova Scotia Environment Act* and Environmental Assessment Regulations. The environmental assessment (EA) report will evaluate potential environmental effects, mitigation and monitoring.

The following studies have been undertaken in support of the EA:

- Wetland survey
- Fish and fish habitat survey
- Vascular plant survey
- Breeding bird and other wildlife surveys
- Archeological and heritage resource survey
- Traffic study
- Groundwater resources study
- Review of adjacent land uses

Public Consultation

As part of the EA process, Sovereign Resources is implementing a consultation plan including distribution of Project information, meetings with various regulatory and elected officials and key stakeholder groups (i.e., the Waverley Ratepayers Association) and this Public Open House. The objectives are:

- Inform the public and key stakeholders about the Project and provide accurate and consistent information; and
- Obtain input from potentially affected parties/individuals to ensure the EA focuses on the issues of concern and that appropriate mitigation measures are identified and implemented.

Feedback from early consultations have been incorporated in Project design and planning (e.g., development to minimize visual impacts). The EA Report will be available for public review and comment.

Viewshed Analysis - Approach

A viewshed analysis has been conducted to predict potential visual impacts with regard to the surrounding residential communities.

A spatial model was created using computer modelling software (ESRI ArcGIS and ESRI Spatial Analyst). The following assumptions were built into the model:

- vegetative cover outside of the proposed quarry boundary will remain (conservatively estimated to be 8 m in height);
- total quarry development, including Sovereign Resources quarry and adjacent Municipal Enterprises' Rocky Lake Quarry, to an elevation of 50 m ASL; and
- no progressive reclamation of either quarry (conservative estimate assumes larger excavated footprint than what would actually be present at any given time).

Viewpoints were selected from residential areas from which the proposed Project area was most potentially visible (across Lake William and Lakeview). From all viewpoints selected, impacts to the viewshed are negligible.

Site Location and Project Basemap

Project Features

- Proposed Sovereign Resources Quarry Modification
- Approved Sovereign Resources Quarry

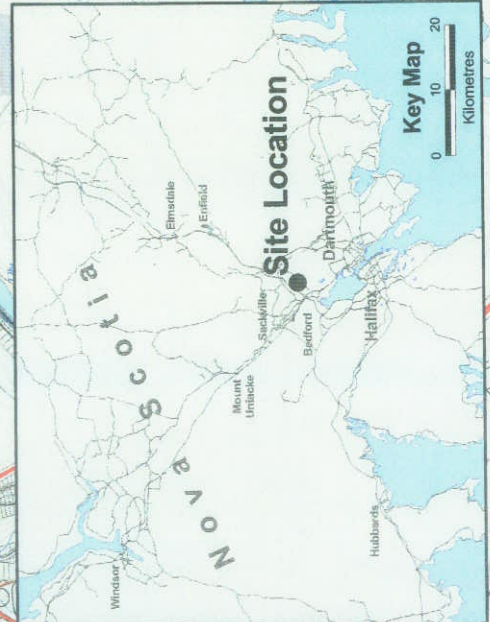
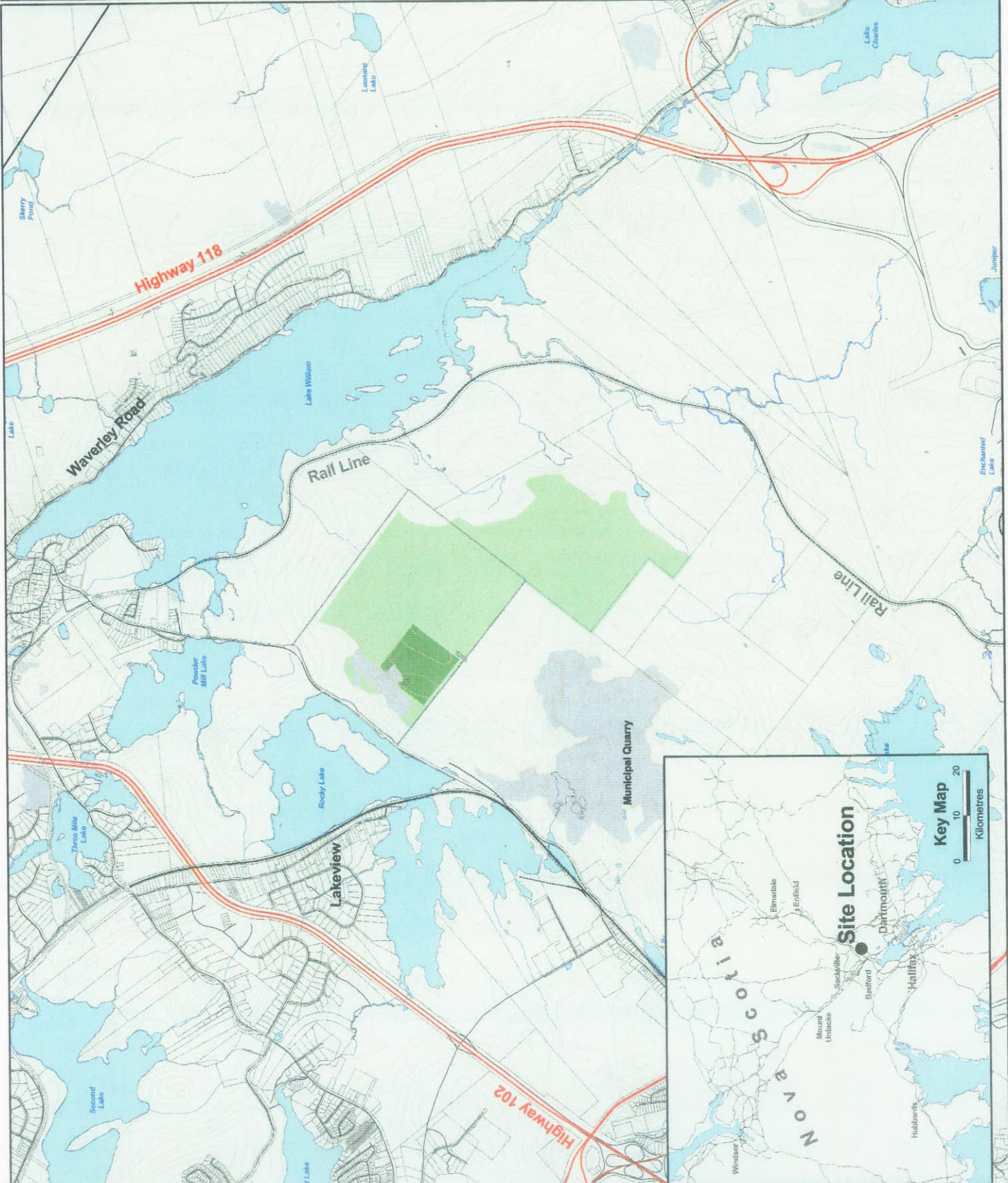
Topographic Features

- Existing Municipal Quarry
- Elevation Contour (m)
- Stream
- Waterbody
- Property Boundary

Scale 1:10,000



Map Parameters
 Projection: 3° MTM
 Datum: ATN77
 Zone: 5
 Date: December 2004
 Project: NSD17650

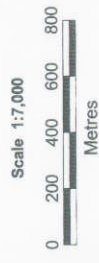


Potential Horizon Change From Lakeview

- Project Features**
- Proposed Quarry Modification Area
 - Approved Sovereign Resources Quarry
 - Approved Municipal Quarry
 - Existing Quarry

- Viewshed Features**
- Lakeview Viewpoints

- Topographic Features**
- Elevation Contour (m)
 - Stream
 - Waterbody



Map Parameters
Projection: 3° MTM
Datum: ATST77
Zone: 5
Date: December 2004
Project: NSD17650



Potential Horizon Change From Road Level

Project Features

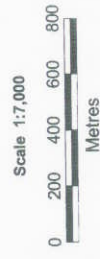
- Proposed Quarry Modification Area
- Approved Sovereign Resources Quarry
- Approved Municipal Quarry
- Existing Quarry

Viewshed Features

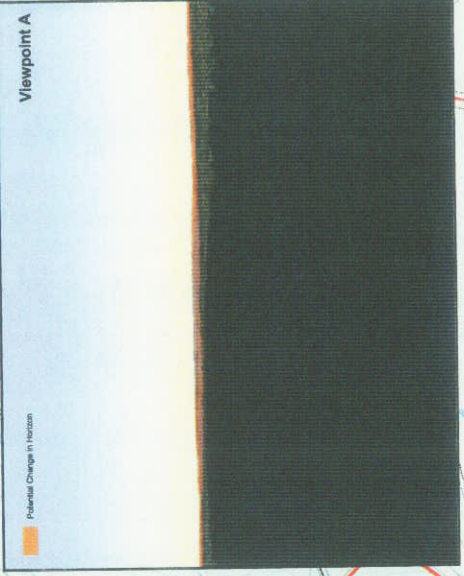
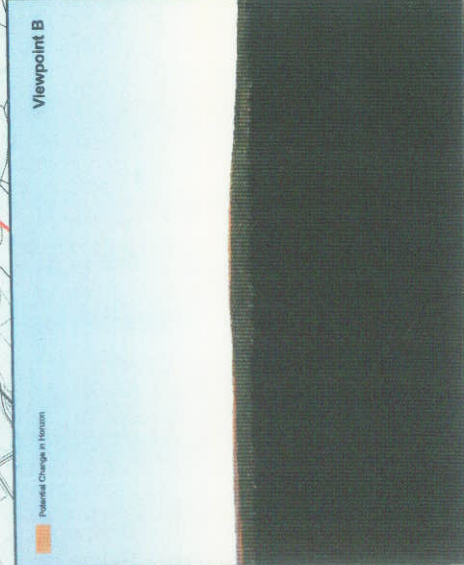
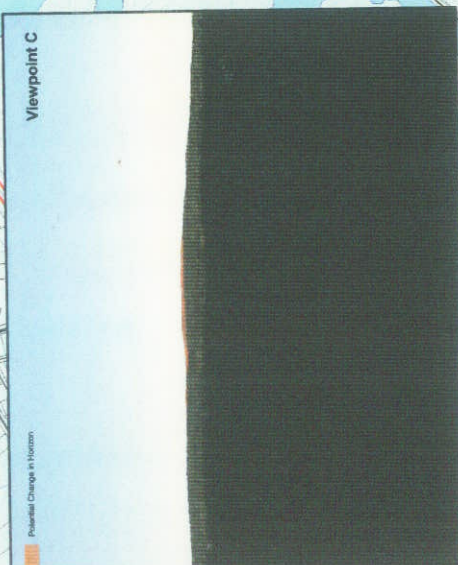
- Waverley Road Viewpoints

Topographic Features

- Elevation Contour (m)
- Stream
- Waterbody







Map Parameters
 Projection: 3° MTM
 Datum: ATS77
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Viewshed Analysis Results




Project Features

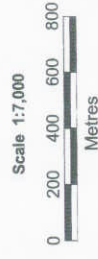
-  Proposed Quarry Modification Area
-  Approved Sovereign Resources
-  Approved Municipal Quarry
-  Existing Quarry

Viewshed Features

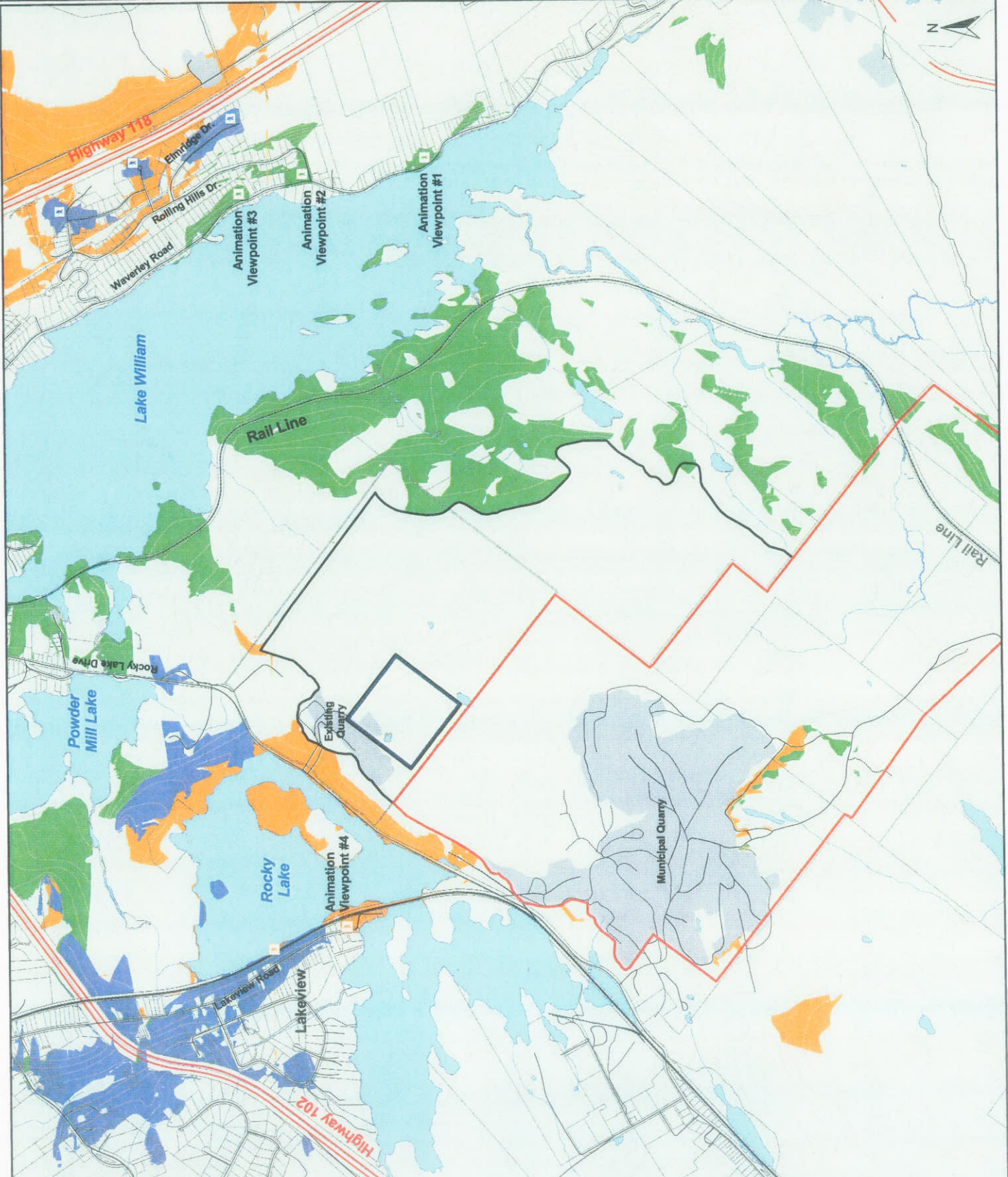
-  Rolling Hills Viewpoints
-  Waverley Road Viewpoints
-  Lakeview Viewpoints
-  Area visible from Rolling Hills Viewpoints
-  Area visible from Lakeview Viewpoints
-  Area visible from Waverley Road Viewpoints

Topographic Features

-  Elevation Contour (m)
-  Stream
-  Waterbody



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Projection: 3° MTM
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Sovereign Quarry Proposal

Planning and Operations Commitments

Sovereign Resources is currently in the initial stages of the environmental assessment of its proposed quarry modification project. It is important to Sovereign to have good relations with all of its neighbours and adjacent communities. In the initial stages of planning, Sovereign has identified several issues that may be of concern to local residents. To address these, Sovereign is making the following commitments.

1. Protect the Lake William watershed

Sovereign proposed to:

- Set aside approximately 600 acres of company-owned land facing Lake William as an environmental buffer.
- Acquired the Archibald lands (295 acres) to complete a buffer along Lake William and eliminate any potential development, including residential, in this area.
- Designed the proposed quarry modification to respect all water courses that lead to Lake William.

2. Reduce truck traffic through Waverley and Portabello Road

Sovereign will reduce truck traffic by:

- Closing the access from the former Tidewater quarry to Rocky Lake Drive (except for emergency access).
- Directing all quarry traffic to exit through the existing Municipal Quarry.
- No trucks carrying Sovereign quarry product will be allowed to travel through Waverley or Portabello Road, except for local deliveries.

3. Reduce quarry related noise

Sovereign will reduce noise by:

- Maintaining all crushing operations at the existing Municipal quarry.
- Deploying blasting techniques that minimize noise.
- Directing all trucks to avoid traveling through adjacent residential areas.

4. Minimize the amount of dust originating from the site

Sovereign will minimize dust impacts by:

- Directing all site traffic to utilize Sovereign site roads.
- Maintaining all crushing operations away from William Lake and populated areas.
- Deploying dust suppression systems.
- Creating a substantial buffer between the quarry and adjacent properties

5. Protect residential view planes

Sovereign will protect view planes by:

- Maintaining an extensive no development buffer along Lake William.
- Designing and developing the quarry to minimize visibility from residential areas (e.g., use of computer assisted visual modeling tools to assist with quarry design).

