

VOLUME II

**APPENDICES
ENVIRONMENTAL REGISTRATION
DOCUMENT FOR THE PROPOSED
WHITE ROCK QUARTZ MINE**

APPENDIX A

ENVIRONMENTAL SCREENING – NOVA SCOTIA MUSEUM

NOV 8 2000

Nova Scotia Museum
Heritage Resource Services

Memorandum

File No. F:\2000-01\28000-55 Environmental Screenings\00-10-12 Yarmouth County\Response.wpd

TO: Peter Oram
MGI Limited

FROM: Robert Ogilvie
Nova Scotia Museum

DATE: November 2, 2000

RE: **Environmental Screening 00-10-12**
Yarmouth County

Staff of the Nova Scotia Museum have reviewed the documents related to the above screening request.

With respect to cultural resources, there are two recorded archaeological sites in the study area (BaDi-1 and BaDi-2), both on the Roseway River system. They were reported to the Nova Scotia Museum by an Archaeological Survey of Canada in 1973. We have no record of revisitation to these sites. We also have had unconfirmed anecdotal reports of more recent artifact finds in the Indian Fields area (BaDi-1).

It is highly likely that additional pre and post-contact First Nations archaeological sites are located within the study area, particularly with the extensive drainage for the Roseway and Clyde rivers. An historical background study will determine the potential for Euro-Canadian archaeological resources.

W.r.t. natural heritate components of interest, staff make the following observations.

The following plant species-at-risk are known from within the identified area of interest:

Alnus serrulata
Bartonia virginica
Galium obtusum
Spiranthes ochroleuca
Symplocarpus foetidus
Utricularia gibba (aquatic)

The following plant species-at-risk are known from adjacent squares. Those marked with asterisks should be highlighted as they have national recognition as being 'at risk'. Two asterisks signify those species with provincial legal protection:

Carex atlantica ssp. *capillacea* * Canadian Priority of 2
Cephalanthus occidentalis
Clethra alnifolia **
Coreopsis rosea **
Decodon verticillatus
Eleocharis flavescens
Eupatorium dubium
Euthamia galetorum
E. tenuifolia
Panicum rigidulum * Canadian Priority of 3
Platanthera flava, var. *flava* *
Rhexia virginica *
Sabatia kennedyana * Canadian Priority of 1
Spiranthes casei
Woodwardia areolata *

Many of these species belong to the coastal plain floral element and are at the northernmost station of their range in Yarmouth County. As many are not found elsewhere in Canada, their presence or absence should be ascertained during timely field inventories, i.e. when they are in flower or fruit.

Of this list, many are associated only with wetlands or lake shores. The nature of the undertaken was not provided so at this point we cannot give a narrower list of plant species. This list is based almost solely on geographical area. Those species known to be found only in brackish or estuarine conditions have been excluded.

It should also be noted that in the vicinity of Flintstone Rock, there are several regions of seeded Pitch Pine (*Pinus rigida*), from an aerial spray program (DLF, 1960s). This species has naturalized in the barrens, but is not native this far north.

Depending on which watersheds are to be affected, there are two significant fish species of concern. The first is in the Tusket drainage, that is the Atlantic Whitefish (*Coregonus huntsmani*), which is COSEWIC-listed as endangered. There have been no recent records for the system, so the species may be seriously-imperiled in the watershed. Alternatively, the Clyde Drainage supports a fragile population of Atlantic Salmon (*Salmo salar*).

Although there are no records for the specific site, the site is within 25 km of the only Provincial records for both Blandings Turtles (*Emydoidea blandingii*) - COSEWIC-listed as threatened and the Northern Ribbon Snake (*Thamnophis sauritis*) - Provincially listed. We would recommend before development took place that the potential areas of impact be surveyed for these two species.

There are no records of breeding birds of note in the study area although we observe that the area was only reviewed in a cursory manner for the Maritime Breeding Bird Atlas.

Mr. Peter Oram
November 2, 2000
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The Museum has no records of significant paleontological resources within the development area.

I have attached an invoice for the staff time spent reviewing museum records and compiling this response.

If you have any questions, please contact Robert Ogilvie at 424-6475.