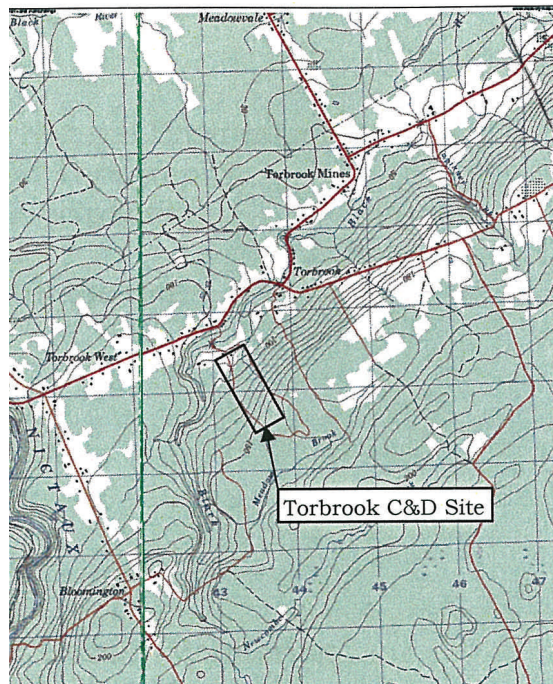


TORBROOK C & D DISPOSAL AND RECOVERY SITE
TORBROOK, ANNAPOLIS COUNTY, NOVA SCOTIA



ENVIRONMENTAL ASSESSMENT

PRESENTED TO:

THE DEPARTMENT OF ENVIRONMENT
PROVINCE OF NOVA SCOTIA

3033869 Nova Scotia Limited
Owner and Operator of
Torbrook C & D Disposal and Recovery

ENVIRONMENTAL ASSESSMENT APPLICATION

Minimum Requirements

The following is the minimum required for registration as prescribed in the Environment Assessment Regulations of the Province of Nova Scotia.

(a) **Name of the Undertaking**

The undertaking is a Class 1 “Disposal of Waste Dangerous Goods Facility (Asbestos)”.

(b) **Location of the Undertaking** (see Appendix “A”).

1031 Uhlman Branch Road, Torbrook, Annapolis County, Nova Scotia B0P 1W0.

(c) **Identification**

The Company name is 3033869 Nova Scotia Limited and operates under the firm name and style as Torbrook C & D Disposal and Recovery. The registered owners of the subject Company are Craig, John, Bruce and Raymond Parsons who collectively also own Mid Valley Construction (1997) Limited (see copy of letter Appendix “B”). The contact for this Environmental Assessment is Mr. Craig Parsons, President of 3033869 Nova Scotia Limited.

(d) **Nature of the Undertaking**

3033869 Nova Scotia Limited has been in operation for over ten years and is the owner of the land identified in the Location of the Undertaking. The Company operates an approved construction and demolition disposal and recovery site at this location. The approval number is 2009-070413-R01. As required by the approval conditions governing the operation of this site, the Company is required to closely monitor the site and its operations and has installed monitoring wells and settling ponds to ensure the ground water is not being materially affected by site operations. There is detailed quarterly water testing carried out not only on the monitoring wells water and settling pond water but surface water and upstream and downstream water of the Black Brook the main channel of which is located 1,400 feet west of the site. An annual report on operations is filed each year with the Department of Environment and the site is inspected regularly by the Department to ensure compliance with the approval.

In addition to construction and demolition debris, the site was approved as a disposal site for asbestos waste and the approval number is 2000-012836-R01 and currently the Company operates under approval number 2000-012836-R04 for the disposal of asbestos.

The site is improved with a scale house and a weigh scale for use in operations. In the case of asbestos waste, the waste is transported to the site by approved carriers, weighed, inspected and disposed of by entombing in an approved “Current Asbestos Cell” as identified on Hiltz and

Seamone Co Ltd Dwg No. 99-122-06. The Drawing is dated March 31, 2010 and a copy of the Drawing is shown in Appendix "C". Attention is also directed to Appendix "L" for copies of pertinent site pictures.

(e) **The Purpose and Need for the Undertaking**

As an approved site for the disposal of asbestos waste, the Nova Scotia Department of Environment has issued a temporary renewal of 3033869 Nova Scotia Limited's approval permitting the Company to continue to receive and dispose of asbestos waste at the subject site location pending an Environmental Assessment.

(f) **Operation Schedule**

The hours of operation of the facility are Monday to Friday 8:00 am to 5:00 pm and Saturday from 8:00 am to 12:00 pm. There are generally no planned shutdowns except for statutory holidays.

(g) **Description of the Undertaking**

3033869 Nova Scotia Limited will continue to receive asbestos waste and dispose of the waste in specially designated "Current Asbestos Cells" as set out in the Nature of the Undertaking pending the approval of this Environmental Assessment.

(h) **Approvals Required**

The Department has advised 3033869 Nova Scotia Limited the Company will require an Environmental Assessment as a requirement for approval as a Class 1 undertaking pursuant to Schedule "A" of the Environmental Assessment Regulations. 3033869 Nova Scotia Limited also requires approval as a facility for the disposal of asbestos waste being a waste dangerous goods for which the above Class 1 approval is required.

(i) **Sources of Public Funding**

There are no sources of public funding for this undertaking.

(j) **Archeological Survey**

The subject site is an existing disturbed site having been used for the disposal of construction and demolition debris and asbestos for over ten years. Nothing of any archeological consequence has been unearthed on the site since commencement of operations and based on this history an archeological survey was not considered as being meaningful for purposes of the subject application.

(k) **Botanical Survey of Site**

A botanical survey of the subject site was undertaken by Botanist Ruth E. Newell, B.Sc. (Hons.) M, Sc. and a copy of the survey and findings are included in Appendix "D".

(1) **Preliminary Habitat Assessment of Site**

A preliminary assessment of the site was undertaken by East Coast Aquatics Inc. and a copy of the assessment is included in Appendix “E”.

Environmental Details

1. Surrounding Area

The subject site is situated approximately 6 kilometers southwest of Greenwood, in the County of Kings, Province of Nova Scotia and approximately 1 kilometer from the Village of Torbrook, in the County of Annapolis, Province of Nova Scotia. While the subject parcel of land contains approximately 180 acres in total, the operating site being utilized for the disposal of construction and demolition debris and asbestos waste occupies an area of approximately 20 acres.

The subject land is unzoned and surrounding properties are basically woodland. There is a residence on the subject land adjacent to the site and is being leased to a tenant by 3033869 Nova Scotia Limited. There are existing residential housing units (independently owned) to the north-northeast of the subject land and these units are distant some 1,200 to 1,400 feet from the operating site.

2. Health Considerations (Asbestos Waste)

Asbestos waste is defined in the Asbestos Waste Management Regulations as a friable waste material containing asbestos fibre or asbestos dust in a concentration greater than 1% by weight. Friable waste material means a material that when dry can be crumbled, pulverized or reduced to powder by hand pressure. The primary hazard of asbestos exposure is due to the inhalation of asbestos fibres or asbestos dust. The hazard is managed at first instance by ensuring the asbestos waste entering the subject site for disposal is being transported by a carrier duly licensed to transport waste dangerous goods and secondly by ensuring the asbestos waste is properly contained and inspected to prevent the waste from becoming airborne. The health hazard is further managed by ensuring the contained asbestos waste is placed in a specially designated disposal cell and the contained material is covered within 24 hours of placement with proper ground cover material. Considering the location of the subject site and the asbestos waste management practices in place, the risk of asbestos waste in any material quantity entering the environment prior to or following placement and covering is considered remote. This is supported by operational history.

3. Volume of Asbestos Waste

The volume of asbestos waste being received at the subject site for disposal generally averages 425 metric tonnes on an annual basis.

4. Transportation, Site Maintenance and Security

The site is accessed off Highway # 201 on the Uhlman Branch Road. Highway 201 is a paved public secondary road and the Uhlman Branch Road is considered a tertiary public road. Both are maintained by the Department of Transportation and Infrastructure Renewal (Transportation

Division) of the Province of Nova Scotia. The site access road and the general site maintenance is carried out by personnel employed either by 3033869 Nova Scotia Limited directly or employees of Mid Valley Construction (1997) Limited under contract to 3033869 Nova Scotia Limited. A copy of the contract is shown in Appendix "H". Mid Valley Construction (1997) Limited is a general contracting Company and, in addition to making personnel available to 3033869 Nova Scotia Limited, the Company provides heavy equipment required for use on the site. The equipment would include trucks, bulldozers, backhoes and excavators. The subject site is secured at the entrance road by an entrance service gate which is closed and locked when the site is unattended.

5. **Handling Procedures and Documentation**

Prior to the delivery of asbestos waste to the subject site a licensed carrier is required to have the consent of 3033869 Nova Scotia Limited to receive the waste on a stated day and time. On arrival at the site the driver of the transporting vehicle is required to provide a copy of a shipping document identifying the nature and location of origin of the cargo being transported. Following inspection of the cargo to confirm proper containment of the asbestos waste, the cargo is weighed by site personnel and accepted for disposal. The asbestos waste material is subsequently placed in a specially designed disposal cell, inspected again and covered with approved cover material as required by regulation. All work on the site involved with the handling of asbestos waste is carried out by personnel trained in the handling of asbestos waste material. Personnel operating heavy equipment in the covering of the asbestos waste are licensed to operate the equipment and this minimizes the risk of the containers containing asbestos from being accidentally damaged in the covering process.

Accurate records of the asbestos waste received at the site are maintained by 3033869 Nova Scotia Limited and these records include the date and time the waste was received, the name of the carrier, the weight of the waste and, the date and time the waste was covered. Copies of a typical Asbestos Waste Shipping Document and Weigh Slip are provided for in Appendix "F".

Active, specially designated cells, are identified with strategically placed signage to guard against the possibility of the covered asbestos waste material being disturbed and asbestos fibres entering the environment. These cells are separate from other waste disposal cells and they have been approved by an Administrator.

When a specially designed cell for the disposal of asbestos is abandoned or use is discontinued, the practice is to close out the cell in accordance with a close out plan approved by an Administrator and have the cell suitably landscaped and appropriated marked.

6. **Activities and Staffing**

The site is dedicated for use as a construction and demolition debris disposal and recovery site and for the disposal of asbestos waste. No asbestos waste in bulk form is accepted at the site for disposal. There are normally a minimum of two trained personnel on site during the operating hours and, as required, additional trained personnel may be engaged on site work activities.

Personnel involved with the receiving, accepting, inspecting, and, placement and covering of asbestos waste in the specially designed cells, wear protective clothing and personal respiratory equipment during the course of their involvement. On an ongoing basis personnel carry out regular inspections of working asbestos cells as well as cells that have been closed out in accordance with the Asbestos Management Regulations.

7. **Survey Plan and Legal Description**

A copy of the land survey and a copy of the legal description of which the site forms a part are identified in Appendix “G”.

8. **Asbestos Waste Containment**

In the event a container containing asbestos waste is damaged prior to disposal resulting in the possibility of the waste particles becoming airborne, the container is wetted down and repackaged without the asbestos waste materials being removed from the original container. The repackaged container is then placed in the specially designed cell and the container covered. In the event a container containing asbestos waste is damaged following placement in the cell prior to covering, the damaged container is immediately wetted down and covered. In both instances the procedure will minimize the quantity of asbestos fibres entering the environment.

In cases of a containment incident, the incident is verbally reported as soon as possible to the administration office of 303389 Nova Scotia Limited. In addition, an asbestos incident report is completed and filed with this office. Where the incident is deemed significant, appropriate authorities are to be notified. A copy of the Incident Report is identified in Appendix “I”.

9. **Contingency Plan**

A contingency plan is in place in case of a major incident involving the release of asbestos waste into the environment. In addition, the contingency plan includes an emergency response plan - fire and copies of both plans are set out in Appendix “J”.

10. **Personnel Training**

As part of the orientation process, personnel involved in the handling of asbestos waste are given training in Asbestos Awareness and WHMIS. In addition, a number of personnel are trained on asbestos handling IAC OH&S Guidelines. Personnel are made aware of Asbestos Waste Management Regulations and receive on-the-job training on the handling of asbestos in situations where there is risk of asbestos fibres entering the environment. Copies of certificates of training cards issued to personnel on training received on Asbestos Handling IAC OHS Guidelines together with copies of certificates of training cards issued to personnel on Asbestos Awareness and a partial list of personnel with WHMIS training are included in Appendix “K”.

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- D. Botanical Survey of the Site
- E. Preliminary Habitat Assessment of the Site
- F. Copy of typical Asbestos Waste Shipping Document and Weigh Slip
- G. Copy of Land Survey and copy of Legal Description of Land Area
- H. Copy of Contract with Mid Valley Construction (1997) Limited
- I. Copy of Incident Report
- J. Copy of Contingency Plan and Emergency Response Plan – Fire
- K. Copy of Certificate of Personnel Training Cards on Asbestos Handling IAC & S Guidelines and Copy of Training Cards and Listing of WHIMIS Trained Personnel
- L. Pictures of the Torbrook C & D Disposal and Recovery Site