

NORTH RENFREW LANDFILL SITE 2007 ANNUAL STATUS REPORT



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2007 ANNUAL STATUS REPORT

NORTH RENFREW LANDFILL SITE

PROVISIONAL CERTIFICATE OF APPROVAL NO. A 420010

Submitted to:

Senior Environmental Officer
Ministry of Environment
Ottawa District Eastern Region
2435 Holly Lane
Ottawa, Ontario K1V 7P2

Prepared by:

North Renfrew Landfill Operations Board

and

Robinson Consultants Inc.

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EXECUTIVE SUMMARY

The Town of Deep River and the Town of Laurentian Hills are located in the northern portion of the County of Renfrew Ontario, in the Ottawa Valley. The North Renfrew Landfill Operations Board operates a 25.92-hectare landfill site property on Lot 5, Concession 11 in the Town of Deep River, Renfrew County, under the Ministry of the Environment (MOE) Certificate of Approval (C of A) No. A 420010. A condition of the C of A requires the Board to submit, by March 31 of each year, an annual status report for the previous year's operation of the site. The Landfill Site serves a population of about 7,200.

The landfill design waste capacity including daily cover is a total of 191,250 m³, which was originally estimated to last 25 years. This is 7,650 m³ per year. Approximately 6,115 m³ of waste and daily cover was landfilled during 2007. The total volume of waste and daily cover deposited to December 31, 2007 was 32,944 m³. The remaining capacity is 152,306 m³. From the average fill rate data during 2005, 2006, and 2007, the estimated remaining life of the site is 23 years.

Waste diversion has been increased during 2004, 2005, 2006 and 2007 by a weekly pickup of commercial recyclable cardboard and by diversion of construction and demolition waste from the Baggs Road Site to the Miller Road Site. The Miller Road Landfill Site is operated by the Town of Deep River.

An MOE Site Inspection was conducted on January 23, 2007 and it was reported in the 2006 Annual Status Report. The inspection findings and recommendations were addressed to the MOE's satisfaction during 2007 and are included in this Report.

1.0 INTRODUCTION

The Towns of Deep River and Laurentian Hills are located in the Ottawa Valley adjacent to the Ottawa River in the County of Renfrew. The combined population of both Towns is about 7,200.

The North Renfrew Landfill Operations Board serves the two Towns by operating a 25.92 hectare Landfill Site on Lot 5, Concession 11 in the Town of Deep River. The Site is operated under the Ministry of the Environment (MOE) Certificate of Approval No. A 420010.

2.0 PURPOSE OF ANNUAL REPORT

The purpose of this annual report is to satisfy Condition 55 of the May 28, 1999 Provisional Certificate of Approval No. A 420010. It states that a status report on the monitoring of the Landfill during the previous calendar year should be submitted to the Regional Director by March 31st of each year.

Condition 55 states that the report should include a location map, a site plan which shows the Site Boundaries, the fill area and buffer areas, the benchmark for the contour elevation survey, existing contours of the Site, the areas of excavation in the previous year, the areas of the Site completed to final grade, areas still to be completed to final grade, areas with completed final cover, the portions of the interim and final cover which have been vegetated or seeded, all surface water bodies and works, all significant landmarks, all nearby dwellings and groundwater users, location of all monitoring points, details of any works installed in the previous calendar year, a cross section which includes the Site footprint area, an update on any operating difficulties encountered, a report on types and volumes of waste diverted from disposal in the footprint by recycling, a report on the variances from Item 1 and Item 7 in Schedule "A" and a summary of any complaints made regarding Site operations and the Board's response.

Activities relating to hydrogeology, groundwater and surface water monitoring and compliance issues are addressed in PART B of this Report. It is titled "North Renfrew Landfill Site Baggs Road 2007 Monitoring Report" by Robinson Consultants Consulting Engineers. This Monitoring Report includes an interpretation of the surface water monitoring results including an assessment of the surface water quality at the Site boundaries with respect to the Provincial Water Quality Objectives, an assessment of the adequacy of the Attenuation Zone, and an assessment of the physical condition of the surface water monitoring installations. Included is an interpretation of the monitoring results by an experienced hydrogeologist including text, maps and diagrams sufficient to characterize the Site hydrogeology, documentation of the ground water sampling protocol with a description of the quality assurance and quality control measures and a description of any problems encountered during the sampling runs which may have impacted the reliability of analytical results. Also included is a presentation of data in a format that is easy to follow including presentation of all analytical results from the reporting period and a summary of analytical results from previous sampling in a tabular form. There is also an assessment of whether or not the Board is operating the Site in a manner consistent with the conditions of the C of A, an assessment every fifth year of the contingency plan which was prepared in July 2007 and is included in PART B of this Report, and recommendations respecting any proposed changes to the surface water or ground water programs or any repairs required to the monitoring well network, the operation of the Site and the requirement for any remedial works or contingency actions based on the monitoring results or operation of the Site.

3.0 SUMMARY OF SITE CONDITIONS

3.1 GUIDELINES FOR OPERATIONS - CERTIFICATE OF APPROVAL AND AMENDMENTS

The North Renfrew Landfill Operations Board must operate the North Renfrew Landfill Site according to the conditions of the May 28, 1999 Certificate of Approval (C of A) and subsequent notices between 1999 and 2007. Clear direction on duties imposed by the MOE is thus given to the Board for operating the Landfill Site.

The following items summarise the amendments to the 1999 certificate of Approval to December 31, 2007.

- July 9, 2001, the MOE amended the C of A - completed and revoked Condition 14 and a letter and attachments were added to Schedule A of the C of A.
- February 11, 2002, the MOE amended the C of A - Condition 9 and 10 were revoked and replaced to lower both the top and bottom contours by one metre.
- April 2, 2003, the MOE amended the C of A - Condition 26 was revoked and replaced to allow waste to be disposed of on statutory holidays.
- July 29, 2004, the MOE amended the C of A by changing the name of the Board to the North Renfrew Landfill Operations Board and by adding Conditions 65, 66, 67 and 68 to allow the use of Alternate Daily Cover at the Landfill. Items (9), (10) and (11) were added to Schedule "A".
- August 1, 2006, the MOE amended the C of A – Definition (j) and Conditions 17 were revoked and replaced to revise the waste types received at the on-site HHW Depot, and to revise the operations manual to reflect these changes and updates.
- August 23, 2007, the MOE's Regional Director – Eastern Region, Gayla Campney, approved the implementation of the amended Schedule "B" of the C of A. The amendment includes a letter dated July 23, 2007 signed by James Leon entitled "Amended Schedule "B" for review and approval of the Regional Director." Two surface water locations were deleted from Schedule "B". The earlier triggering mechanisms, were deleted and the statement "Anomalies or increasing trends in the surface water data reported in the Annual Status Report are addressed by preparing a contingency plan at that time. The Monitoring location for SW-2 has been relocated to upstream of Baggs Road as the original downstream location may be influenced by activities such as road salting."

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- November 19, 2007, the MOE amended the C of A to allow the use of additional alternative cover materials including the use of temporary or movable low permeability flexible membranes, revoking Condition 37 and adding Conditions 69., 70., 71., and 72. Item 12. was added to Schedule "A".

The following section describes the Conditions of the C of A which, were followed to operate the Baggs Road Landfill Site during 2007.

Condition 1. - *Definition of Terms* was understood in 2007 and item (c) that defines the Board's name has been changed to North Renfrew Landfill Operations Board according to the July 29, 2004 amendment to the C of A. Definition (j) was replaced to revise the HHW waste types received according to the August 1, 2006 C of A amendment.

Conditions 2. (i) and 2. (ii) had been completed prior to 2007 and had no impact on Site operations in 2007.

Condition 3. - *Requirements of this Certificate of Approval are severable.*
This Condition is understood.

Condition 4. - *In all matters requiring the interpretation and implementation of this Certificate, the decision of the Environmental Appeal Board shall take precedence followed in descending order by: the decision of the Environmental Assessment Board, the conditions of this Certificate, the documentation referred to the Environmental Assessment Board, the application entitled Application for Approval of a Landfill Site, and other supporting documentation included in Schedule "A" with the most recent documentation taking precedence.*

The order of precedence is and has been understood and respected.

Condition 5. - *The Board shall comply with the conditions and schedules in this Certificate. The requirements specified in this Certificate are minimum requirements and do not abrogate the need to take all reasonable steps to avoid violating the provisions of other applicable legislation.*

With guidance from the MOE, the Board has complied with the conditions and schedules in this Certificate during 2007. Provisions of other applicable legislation are being respected. Actions required according to Site Inspection Reports from the January 23, 2007 Inspection have been addressed by the Board.

Condition 6. - *The Board shall allow MOE personnel, or a MOE authorized representative(s), upon presentation of credentials to:*
(a) *carry out all inspections authorized by the Environmental Protection Act, The Ontario Water Resources Act, or the Pesticides Act, as amended from time to time, of any place to which this Certificate relates, and without restricting the generality of the foregoing, to:*
(b) *i. enter upon the premises or the location where the records required by the conditions of this Certificate are kept;*

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ii. have access to and copy, at any reasonable time, any records required by the conditions of this Certificate;

iii. inspect at any reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations required by the conditions of this Certificate; and

iv. sample and monitor, at reasonable times, for the purposes of assuring compliance with the conditions of this Certificate.

The Board has been and will continue to be cooperative with MOE personnel.

Condition 7. - The Site shall not be transferred without prior notice to the Director.

The Site was not and will not likely be transferred in the near future, but the required prior notice to the Director will be respected if the Board decides to consider a transfer.

Condition 8. - No water obtained from surface water or from a well constructed on the site shall be used for drinking purposes, and any water supply system obtaining water from these sources shall be clearly marked to indicate that the water is not potable.

Surface water and well water on Site was and is only being used for monitoring purposes. All monitoring wells on Site are kept locked.

Condition 9. - The excavation of the Footprint shall not go below the depths indicated on Figure No 4 in Item 1 of Schedule A. and Condition 10. - The maximum amount of waste and cover material shall not exceed the final contours shown in Figure No. 5 in Item 1 of Schedule A.

Conditions 9. and 10. were revoked and replaced to approve lowering the top and bottom contours by one metre by the Approved Amendment to the C of A dated February 11, 2002. Excavation has not, at any time, been below the amended depth and final contours have not yet been reached in any of the Landfill Phases.

Condition 11. - Waste may only be disposed of within the 2.8-hectare footprint.

Recent surveys conducted by Robinson Consultants indicate that no waste has been placed outside of the Footprint.

Condition 12. - Prior to any excavation or disposal of waste at the Site, the Site boundaries and Footprint area are to be marked and corner posts erected so as to be visible throughout the year, using proper surveying techniques.

The Footprint area boundaries were surveyed, marked and corner posts were erected prior to excavation and disposal of waste. The following information was reported in the 2006 Annual Status Report: "During a January 23, 2007 Site Inspection by the MOE's Marc-Etienne Lesieur, Senior Environmental Officer/Ottawa District, the positions of the corner posts were discussed. The corner posts were deemed to be not high enough and not as visible as required. In his Inspection Report dated January 24, 2007 Marc stated in section 2.3 of the Solid Non-Hazardous Waste Disposal Site Inspection Report "To prevent landfilling beyond approved limit adequate markings/posts must be installed in accordance with Condition 12. At the time of inspection, wood posts marked the corner limit of the approved landfilling footprint. To ensure continuous compliance with Condition 12, adequate posts must be erected and be visible throughout the year. This

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requires attention by the Board. In section 6.0 Other Inspection Findings, Marc stated “• Pursuant to Condition 12, install adequate posts clearly identifying the approved footprint.”

In correspondence to Board Members, the Coordinator reported that he had acted on this issue by contacting the Site Contractor - Tracy Lance of K&T Trucking. He requested that the existing wood posts be replaced with higher painted steel posts that will be visible throughout the year. Tracy agreed to install the new metal posts as required. They will be installed as soon as possible, which might have to be after the frost is out of the ground in April 2007. The required posts were installed in April 2007.

Condition 13. - The Site shall be constructed in accordance Item 1 and Item 7 in Schedule “A” and in accordance with all other documents listed in Schedule “A” to this Certificate.

The Site was constructed in accordance with the documents in Schedule “A”.

Condition 14. - No waste shall be deposited at the Site until the Director provides a written indication of receipt of the proof of ownership of the Site and a signed agreement for access to the Attenuation Zone.

On July 9, 2001, the MOE amended the C of A - completed and revoked Condition 14 and letter and attachments were added to Schedule “A” of the C of A.

Condition 15. - Notwithstanding Conditions 2 and 14, detailed design of major works to be constructed at the Site shall be submitted to the Director for approval and no waste shall be deposited until approval of such works is obtained from the Director. The detailed design shall follow the conceptual design framework outlined in Item 1 and Item 7 in Schedule “A”. Any significant design optimization or modification shall be clearly identified along with an explanation of the reasons.

A detailed design was included in C of A “Schedule A” 9. Report entitled “North Renfrew Landfill Site” prepared by Robinson Consultants Inc. and dated November 2005, not including the section entitled “Existing Manual” in Appendix C.

Condition 16. - The 30-metre Buffer adjacent to the Footprint shall not be used for waste disposal but may be used for receiving and recording waste arrivals, monitoring, surface water management, contingency measures, perimeter access road, and the operation of other approved ancillary waste management facilities to include, a scrap metal recycling pile, a tire recycling pile, recycling bins, a re-use area, a brush and wood chipping area, a yard and leaf waste composting area, a household hazardous wastes depot, and a heavy equipment bay, all in accordance with Item 1 and Item 7 in Schedule “A”. All parts of the Buffer, other than roadways, parking areas, surface water management areas, and structures shall be maintained with a healthy vegetative cover or other appropriate surface treatment, which will minimize erosion.

The Buffer has not been used for any unapproved purposes. The 30-meter Buffer adjacent to the Footprint is comprised of sand and has not demonstrated any erosion problems during the time that the Site has been operated.

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Condition 17. – An AMENDMENT TO PROVISIONAL CERTIFICATE OF APPROVAL
WASTE DISPOSAL SITE
NUMBER A420010

Notice No. 4

Issue Date: August 1, 2006 is as follows:

I. This certificate has been amended to revise the waste types received at the on-site HHW Depot, and to revise the operations manual to reflect these changes and updates.

II. Definition (j) and Conditions 17 are hereby revoked and replaced by:

(j) “Household Hazardous Waste” means hazardous wastes which have been generated by domestic households, including waste motor oil. Automotive batteries, refrigerants, acid wastes, heavy metals, alkaline wastes, paints/pigments, aliphatic solvents, light fuels, waste oils & lubricants, organic laboratory chemicals, inorganic laboratory chemicals, waste compressed gas cylinders, and fluorescent lights.

17. (a) The operation of the Household Hazardous Waste depot is limited to the collection, processing, and storage of the materials set out in the definition of Household Hazardous Waste, (Definition (j) above).

(b) All refrigerants and batteries received at the Site shall be handled in accordance with Item 9 of schedule “A”.

(C.) All white goods received at the Site shall be handled in accordance with Item 9 of Schedule “A”.

Items 17. (d), (e), (f) and (g) remain unchanged and are as follows:

(d) The amount of waste received at the Site, at any given time, shall not exceed 10 tonnes of Household Hazardous Wastes;

(e) All spills and upsets shall immediately be reported to the Ministry’s Spills Action Centre at (416) 325-3000 or 1-800-268-6060 and shall be recorded in the Site inspection record, referred to in Condition 32 of this Provisional Certificate of Approval, as to the nature of the spill or upset, and the action taken for clean-up, correction, and prevention of future occurrences;

(f) No PCBs shall be accepted at this Site. Oil and Oil-based paints which have been manufactured prior to 1972; or whose manufacturing date cannot be determined, may contain PCBs and shall be handled in the manner prescribed:

i. The oil and oil-based paints shall not be mixed (bulked) with other paints prior to testing. Paints which are lab-packed are not considered to be mixed under this Certificate;

ii. The oil and oil-based paints shall be tested for PCB content and shall be handled in the manner outlined in subcondition 17 (f) (iii) if found to contain PCB;

iii. If the oil and oil based paints are found to have PCBs at or above levels identified in subcondition 17 (f) (iv), it shall be forthwith reported to the District Manager and shall

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be managed in accordance with Ontario Regulation 363/92 and stored or removed from the Site to an approved PCB storage site, in accordance with written instructions from the District Manager; and

iv. The oil and oil-based paints shall not be distributed for reuse if they have any measurable PCB content. The oil and oil-based paint is considered to be a PCB waste, if measured levels are equal to or greater than 50 parts per million; and

v. Except as specified in subcondition 17 (f) (iv), paints collected at the Site may be returned or sold to the general public for reuse provided all transactions are recorded by invoice. Information on the type and volume of paint returned to the public through this Site shall be recorded in the daily record specified in Condition 33; and

(g) The local police and fire departments shall be informed of the existence of this Site and this Certificate. They shall also be notified in writing of operating hours and any changes to scheduled operating hours prior to the changes being made. In the event of an emergency change to operating hours there is no requirement for advance notification.

During 2007, only approved HHW materials have been accepted, processed and stored according to Conditions 17 of the C of A Amendment Notice No. 4 and according to Amended Definition (j).

Condition 18. - The Attenuation Zone shall not be used for waste disposal but may be used for monitoring and needed contingency plan to prevent excessive environmental impacts. All parts of the Attenuation Zone, other than access roads, shall be maintained in their existing natural state of vegetation, or re-vegetated as soon as possible, if disturbed for any reason.

The Attenuation Zone and its existing natural vegetation continues to be maintained in its natural state.

Condition 19. - Final cover shall be applied progressively, as weather conditions permit, as each part of the Footprint reaches its final grades. The design of the final cover shall comply with the specifications contained in Item 1 in Schedule "A". Vegetation of completed final cover shall occur within three months of its placement and final grading. Final grades have not yet been reached.

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Condition 20. - *Petroleum-contaminated soil may be disposed of as waste at the Site provided it is not hazardous according to O. Reg. 347 and subject to the following:*

- (a) so long as it does not cause a complaint about odour problems and if a complaint is made then petroleum-contaminated soil shall no longer be received, the District Manager shall be notified, and the soils shall not be received until the District Manager provides permission; and*
- (b) minimize the working face of these materials and ensure that it is covered quickly.*

A letter was received from J. Robert Bruce of the Environmental Assessment and Approvals Branch dated January 25, 1999 re Second Draft Provisional Certificate of Approval No. A 420010. In it, he states the following: “A condition will be included to enable the use of hydrocarbon-contaminated soil as daily cover provided the soil is not classified as hazardous waste and the soil odour is not offensive.”

There have been no complaints about odour problems from hydrocarbon-contaminated soil (CS). 1,328 cubic metres of contaminated soil were accepted for use as top cover material to December 31, 2007. An analysis of the CS from each cleanup project was received and each was classified as non-hazardous. The analysis results for hydrocarbon contaminated soil cleanup projects accepted at the Baggs Road Landfill Site during 2007 are attached in section 3.8 of this Report.

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ACCESS ROAD

Condition 21. – *Any proposed change to the location of the Landfill entrance or exit shall be submitted to the Director for approval.*

There have been no changes to the Landfill entrance or exit.

Condition 22. – *The Access Road shall be improved and hard-surfaced prior to the acceptance of any waste for disposal at the Landfill.*

The Access Road was improved and hard-surfaced prior to acceptance of wastes.

LITTER

Condition 23. – *The Board shall take all practical steps to prevent the escape of litter from the Site. Periodic pick-up of litter at the Site and along the Access Road shall be carried out as required, or every two weeks as a minimum. Private property adjacent to the Landfill shall be inspected weekly and litter shall be collected if needed, with permission of access from the property owner.*

The operation of an electric fence around the area being landfilled has denied access to bears. When opened in 2002, the Site experienced bears digging nightly in the landfilled residential waste. This gave raise to large amounts of scattered and wind-blown litter. This electric fence has greatly decreased litter in and from the Site.

Litter has been picked up at the Site and along the Access Road as required or every two weeks as a minimum. Private properties adjacent to the Landfill Site are inspected weekly and litter is removed when found, with permission of access from the property owner. During winter when deep snow makes walking difficult and most litter is snow covered, cleanups are done on accessible areas as required. A thorough cleanup is done in the spring after the snow has melted. Illegally dumped materials on Landfill Site access roads are removed by Site workers when required.

TRAINING

Condition 24. – *The Board shall ensure that prior to acceptance of waste at the Site that ongoing training of all Site supervisors be initiated with respect to the following:*

- (a) the terms, conditions, and operating requirements of this Certificate and the content of the schedules attached to the Certificate;*
- (b) the Design and Operations Report (Item 1 and Item 7 on Schedule “A”);*
- (c) relevant waste management regulations and legislation;*
- (d) environmental concerns related to the waste and other materials being handled at the Site;*
- (e) occupational health and safety concerns pertaining to the waste being handled at the Site;*

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- (f) emergency procedures and contingency plans in the event of fire, off-site impacts, and other emergency situations; and*
- (g) visual monitoring of Site conditions with respect to the potential for creation of dust impacts.*

The Landfill Site Contractor is experienced in the operations of landfill sites. The Site Attendants have been and continue to be instructed in the listed items of Condition 24. In 2006 the Board prepared, approved and issued a Health and Safety Guide for the Site which continued to be used during 2007.

SITE OPERATIONS

Condition 25. – Notwithstanding conditions number 4 and 39 the Site shall be operated in accordance with Item 1 and Item 7 in Schedule “A” and in accordance with all other documents listed in Schedule “A” to this Certificate.

The Landfill Site Contractor is experienced in the operations of landfill sites. The Site Attendants have been and continue to be instructed in the listed items of Condition 25.

Condition 26. - The maximum waste disposal operating hours have been amended. The amendment dated April 2, 2003 allows waste to be disposed of at the Site on statutory holidays, if necessary.

The amendment to the C of A states:

I Condition (26) is hereby revoked and replaced with:

(26) The maximum waste disposal operating hours of the Landfill shall be 7:00 a.m. to 7:00 p.m., Monday to Saturday. The Landfill shall be closed on Sundays. During days when the Landfill is open, on-site activity other than waste disposal may occur an hour before 7:00 a.m. or two hours after 7:00 p.m. or both. The Board may determine the actual hours of operation within these approved limits providing that the actual hours are posted at the landfill entrance gates. Equipment maintenance and administrative functions may occur at any time.

II The following is hereby amended to Schedule “A”;

(8) Application for a Provisional Certificate of Approval for a Waste Disposal Site dated December 18, 2002 and signed by James Leon, Waste Management Coordinator, North Renfrew Waste Management Board including attached supporting information and cover letter.

The reason for this amendment to the Certificate of Approval is as follows:

To allow waste to be disposed of at the Site on statutory holidays, if necessary.

The Site has and is being operated according to Condition 26, as amended.

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SUPERVISION AND SECURITY

Condition 27. – *No waste materials shall be accepted, placed, or removed from the Site unless a Site supervisor is present to oversee the operations.*

A Site Attendant is present for acceptance and placing of approved waste including removal of reusable materials from the Reuse Area.

Condition 28. – *During non-operating hours, the Landfill entrance and exit gates will be locked to secure against access by unauthorized persons.*

The Board is in compliance.

WASTES NOT ACCEPTABLE FOR LANDFILLING

Condition 29. – *The Board shall not allow liquid industrial wastes or hazardous wastes as defined under Ontario Regulation 347, as amended from time to time, to be disposed of at the Landfill. Only solid, nonhazardous residential, industrial, commercial, and institutional wastes from within the Service Area shall be disposed of at the Site.*

Only approved wastes from within the Service Area are disposed of at the Site. Liquid industrial wastes and hazardous wastes are not accepted for landfilling. Liquid industrial wastes and hazardous wastes that are placed in and thus hidden in regular garbage destined for landfilling might be a problem that should be addressed. Recommendations from the MOE about how the Board should address the problem of hidden hazardous wastes are welcome.

DAILY RECORDS OF REFUSED WASTE

Condition 30. – *Daily records shall be maintained, for all waste refused at the Site, which shall include the following:*

- (a) the date of refusal;*
- (b) time of arrival;*
- (c) name of hauler*
- (d) vehicle license plate number of hauler;*
- (e) type of waste or fill;*
- (f) quantity (by volume) of each load refused; and*
- (g) reason for refusal.*

The required records for waste refused are maintained in the Daily Logs. There were no refusals in 2007.

SITE INSPECTION

Condition 31. – *(a) A site supervisor shall inspect the Site each day that fill is received or regraded at the Site for any situation which may cause an*

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adverse effect and to ensure that the Site is being operated in accordance with this Certificate. The Board shall initiate remedial measures to remedy any situation which is causing or may cause an adverse effect; and

The Site Attendant/Supervisor completes the required inspections of the areas of the Site including the Landfilling area according to Condition 31. - (a).

(b) *Following completion of final cover construction, the surface water management system shall be inspected, by a Site supervisor, and maintained as described in the closure plan.*

No Landfilled area has yet reached final grade.

Condition 32. – *The Board shall maintain, at the Site, a written record of Site inspections including:*

- (a) *time and date of the inspection;*
- (b) *name, title, and signature of trained personnel conducting the inspection;*
- (c) *listing of all general site areas, fencing, gates, and systems inspected and all deficiencies observed;*
- (d) *assessment of the potential for creation of off-site dust impacts; and*
- (e) *recommendations for remedial action and the date that any recommended remedial action was taken.*

Condition 32. is being met with the completion of a daily Site Inspection form.

DAILY RECORDS

Condition 33. – *Daily records shall be maintained, for all waste received at the Site, which shall include the following:*

- (a) *all complaints from the public received by the Board and an indication of the action taken by the Board in response;*
- (b) *results of any tests done to determine the acceptability of waste or fill at the Site;*
and
- (c) *calculation of the total volume of fill received at the Site for each day.*

The Board is in compliance with the requirements of Condition 33.

Condition 34. – *Each daily record and Site inspection record shall be retained by the Board in fire-proof storage for at least five years following the date of the record or inspection. The Board shall make all daily records and site inspection records available for inspection by the MOE or the SLC upon request.*

The Board is in compliance with the requirements of Condition 34.

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WASTE COMPACTION AND COVER

Condition 35. – *Waste shall be deposited in a manner that minimizes the area of exposed waste at the Landfill working face.*

The Board is in compliance with this condition.

Condition 36. – *At the end of each day on which waste is received at the Site or existing waste is regraded, the Board shall ensure that the waste placed that day is compacted before cover material is applied.*

Waste is compacted daily with the Board-owned Liebherr compacting crawler/loader.

Condition 37. – *At the end of each working day, and within two hours of the entrance gate closure, weather permitting, cover material consisting of a minimum of 0.15m thickness of soil or a mixture of composted leaves and wood chips shall be applied to all exposed waste. Any proposed alternative cover material must first be submitted to the Regional Director for approval.*

The Board is in compliance with this condition. An amendment to the C of A dated July 29, 2004 allows alternative daily cover material including asphalt roofing shingles and an amendment dated November 19, 2007 allows alternative daily cover material including temporary or movable, low permeability, flexible membranes.

Condition 38. – *In landfilling areas where waste placement is below the final approved contours and landfilling is to be suspended for one month or more in these areas, an interim cover consisting of a minimum of 0.30 m thickness of soil or a mixture of composted leaves and wood chips shall be applied.*

A minimum of 0.30 m of interim cover material is being placed over the areas as specified in Condition 38. No areas of the Landfill have yet reached final contours.

Condition 39. – *The Board shall ensure that an interim cover material of at least 0.30 m depth is applied as soon as reasonably possible on all side slope areas where waste contours have been reached, and all areas where no waste is to be deposited for at least 180 days. Final cover shall be applied as soon as reasonably possible on all side slope areas. These areas should be seeded as soon as practical but not later than 9 months from the time of final cover application.*

Interim cover is placed over previously landfilled areas as specified in Condition 39. No areas of the Landfill have yet reached final contours.

Condition 40. – *Where existing cover material has eroded such that waste is exposed, the cover material shall be promptly replaced.*

The Board is in compliance with this condition.

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WASTE BURNING AND FIRE ACTIONS

Condition 41. – *The burning of wastes at the Landfill is prohibited except for natural wood products in accordance with the MOE Guidance Manual for Landfill Sites Receiving Municipal Waste, November 1993 as amended from time to time.*

The Board has not authorized any burning at the Landfill Site since the Site began operations.

Condition 42. – *Should any fires occur at the Site, remedial action shall be taken immediately in accordance with the procedures as shown in Item 7 and on page 34 of Item 1 in Schedule “A”.*

The Board is in compliance with this condition.

WASTE SCAVENGING

Condition 43. – *Scavenging at the Landfill is prohibited, except at the designated reuse area and under the supervision of the Site supervisor.*

The Board is in compliance with this condition.

NOISE

Condition 44 – *In addition to the general noise control measure contained in Item 1 of Schedule “A”, the Board shall abide by the applicable municipal noise control by-laws, if any. In case of a noise complaint, the Board shall verify that the above measures are being complied with and shall instigate measures deemed to be needed. If despite these efforts the complaint persists, the Board shall comply with the sound level limits for construction equipment as contained in the Ministry Model Municipal Noise Control By-Law as amended from time to time.*

The Board is in compliance with this condition. There have been no complaints about noise at or from the Site.

Condition 45. – *Noise from or related to the operation of the facility shall be kept to a minimum and in any event, the Board shall comply with the criteria set out in Item 4 of Schedule “A”.*

The Board is in compliance with this condition.

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DUST CONTROL

Condition 46. – *The Board shall take all reasonable steps to mitigate dust impacts from the Site including the measures outlined in Item 1 and Item 7 of Schedule “A”.*

The Board is in compliance with this condition.

Condition 47. – *If dust, odour, litter, traffic, or vermin associated with the operation of the Site must, in the opinion of the District Manager, be reduced or otherwise controlled to prevent adverse impacts, the Board shall implement reasonable contingency measures as approved by the District Manager.*

An electric fence was installed in 2003 to keep bears out of the areas being landfilled. An extension was added to the electric fence in 2005 so that the entire landfilling area is surrounded. Keeping out bears has reduced litter and dust at the Site. The Board is in compliance with Condition 47.

LANDFILL GAS

Condition 48. – *Any enclosed structure on the landfill Site shall be passively vented or equipped with a methane gas detector and an active venting system.*

Enclosed structures are passively vented. The Board is in compliance with this condition.

MONITORING

Condition 49. – *The Board shall monitor ground water and surface water according to Schedule “B” as may be amended with the prior written consent of the Regional Director.*

In a letter dated August 23, 2007 the Regional Director, Gayla Campney, approves C of A Number A420010 amended Schedule “B” and requires its implementation. Details of the amendment are included in the 2007 Monitoring Report in Appendix B of this Report.

Condition 50. – *All monitoring wells, which form part of any monitoring program shall be properly capped, locked, and protected from damage. Any ground water monitoring wells that are damaged shall be repaired or replaced forthwith in a manner that ensures that no more than one regular sampling event is missed. Prior written notification is required from the Regional Director to abandon a ground water monitoring well.*

Monitoring wells are inspected quarterly and their condition is addressed in the 2007 Monitoring Report in Appendix B of this Report.

Condition 51. – *All monitoring wells which are no longer required as part of the groundwater monitoring program, and which have been approved by the Regional Director for abandonment, shall be decommissioned in accordance with Ontario*

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Regulation 903, R.R.O. 1990, in a manner which will prevent contamination through the abandoned monitor. A report on the abandonment of the monitor shall be included in the annual report.

All monitoring wells are still required.

Condition 52. – In the event that the results of the monitoring programs listed in Schedule “B” indicate that an off-site exceedance of the PWQO or Reasonable Use Criteria has occurred as a result of the operation of the Site, the Board shall immediately implement the contingency plan, notify the Regional Director, and the SLC and shall specify the following in a report, submitted within 30 days of the exceedance, to the Regional Director for approval:

- (a) Details of the off-site exceedance, confirmatory monitoring requirements, and the potential off-site impacts to surface water and ground water users;*
- (b) The extent and timing of contingency measures implemented;*
- (c) Modifications, if any, which should be made to the monitoring program; and*
- (d) Other mitigation measures, if any, which may be needed to reduce or prevent off-site impacts.*

The Board is in compliance with this condition.

Condition 53. – In the event that the results of the monitoring programs listed in Schedule “B” are such that an off-site exceedance of the PWQO can be predicted to occur, the Board shall include in the annual status report:

- (a) The details of any such predicted off-site exceedance, including the assumptions upon which the prediction is based;*
- (b) A discussion of the modifications, if any, to operations which would be needed to prevent the predicted off-site exceedance;*
- (c) A discussion of the modifications, if any, which should be made to the monitoring program; and*
- (d) A discussion of other mitigation measures or contingency actions, if any, which may be needed to prevent off-site impacts.*

The Board is in compliance with this condition.

Condition 54. – Commencing from five years after the initial year of operation of the landfill Site and at every subsequent five year interval, the Board shall include in the status report an assessment and if appropriate an update of the groundwater contingency plan.

The first five-year report dated July 2007 was prepared for the Board by Robinson Consultants and is included in the 2007 Monitoring Report, Part B of this Report.

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STATUS REPORT

Condition 55. – *By March 31, 1999 and by March 31st of each subsequent year, the Company shall submit to the Regional Director, a status report on the monitoring of the Landfill during the previous calendar year. The status report shall be submitted annually for at least the first five (5) years following the year in which waste is first received for disposal. Thereafter, the frequency of the report may be reduced only with the prior written permission of the District Manager, and provided that the Board demonstrates to the District manager that the Site operations and monitoring results have become routine and consistent and the SLC has been consulted on the matter. Notwithstanding any approved change in reporting frequency, the District Manager may at any time require the Board to return to annual submission of the Status Report if there is reasonable evidence to conclude that the Site operations or monitoring results are no longer routine or consistent. This report shall include:*

- (a) a location map which locates the Site within the boundaries of the Service Area;*
- (b) a Site plan (s) which shows:
 - i. the Site boundaries;*
 - ii. the fill area and buffer areas;*
 - iii. the location of the benchmark for the contour elevation survey;*
 - iv. existing contours of the Site;*
 - v. areas of excavation in the previous year;*
 - vi. the areas of the Site completed to final grade in the previous year;*
 - vii. the areas of the Site still to be completed to final grade;*
 - viii. the areas of the Site with completed final cover;*
 - ix. the portions of the interim and final covers which have been vegetated or seeded;*
 - x. all surface water bodies and works;*
 - xi. all significant landmarks (roads, escarpment edge, etc.);*
 - xii. all nearby dwellings and ground water users;*
 - xiii. location of all monitoring points; and*
 - xiv. details of any works installed in the previous calendar year.**
- (c) a cross section which includes the Site footprint area;*
- (d) an update on any operating difficulties encountered;*
- (e) a report on the types and volumes of waste diverted from disposal in the footprint by recycling from the Site;*
- (f) a report on the variances from Item 1 and Item 7 in Schedule “A”;*
- (g) a summary of any complaints made regarding Site operations and the Board’s response;*
- (h) an interpretation of the surface water monitoring results including:
 - i. an assessment of the surface water quality at the Site boundaries with respect to PWQO;*
 - ii. an assessment of the adequacy of the Attenuation Zone; and**

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- iii. *an assessment of the physical condition of the surface water monitoring installations;*
- (i) *an interpretation of the monitoring results by an experienced hydrogeologist including:*
 - i. *text, maps, and diagrams sufficient to characterize the Site hydrogeology;*
 - ii. *documentation of the ground water sampling protocols, including a description of the quality assurance and quality control measures and a description of any problems encountered during the sampling runs which may have impacted the reliability of analytical results;*
 - iii. *presentation of data in a format that is easy to follow, including: presentation of all analytical results from the reporting period and a summary of analytical results from previous sampling in a tabular form;*
 - iv. *conclusions and recommendations with respect to future sampling parameters, frequency, and protocols;*
- (j) *an assessment of whether or not the Board is operating the Site in a manner consistent with the conditions of this Certificate;*
- (k) *an assessment every fifth year of the contingency plan; and*
- (l) *recommendations respecting any proposed changes to:*
 - i. *the surface water or ground water monitoring programs or any repairs required to the monitoring well network;*
 - ii. *the operation of the Site; and*
 - iii. *the requirement for any remedial works or contingency actions based on the monitoring results or operation of this Site.*

This 2007 Annual Status Report was prepared to satisfy this condition. Condition 55 (j) was discussed with Robinson Consultants, the Board's Consultant, and she stated that after viewing the Site's operations during 2007 her assessment is that the Board is operating the Site in a manner consistent with the conditions of this Certificate.

CLOSURE

Condition 56. – *At least five years before it is expected that waste will no longer be disposed of at the Site, the Board, following consultation with the SLC, shall submit for approval to the Director a complete plan for the closure, long term maintenance, long term monitoring, and after closure use of the Site. The plan shall include, but not be limited to, the following:*

- (a) *Plans for fencing and access control;*
- (b) *Details of any additional cover required;*
- (c) *Details of any vegetative cover required;*

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- (d) *Post-closure land use plans, including any further grading, filling or landscaping and the need for any structures;*
- (e) *The need for any municipal or provincial approvals that would be required to implement the proposed closure plan and the schedule for obtaining such approvals;*
- (f) *Plans for the continued maintenance, operation, and monitoring of the storm water management system, and landfill gas collection or destruction system (if implemented);*
- (g) *Plans for the continued monitoring of landfill gas, surface water and ground water;*
- (h) *Updated contingency plans to mitigate potential impacts from landfill gas, leachate, storm water, and ground water contingency; and*
- (i) *Details of post-closure ownership of the Site.*

The Site is expected to operate for an additional 23 years and Condition 56 will be addressed about five years prior to the expected closure.

Condition 57. – The Board shall continue to be responsible for the operation, maintenance and monitoring of the Site until such time as the Board can demonstrate to the Director’s satisfaction that the leachate and gas being produced at the Site would not cause an exceedance of the PWQO, ODWO, Reasonable Use Guideline, or any other relevant statutes and policies respecting ground water, surface water, and air as may be in effect at that time.

The Site is expected to operate for an additional 23 years.

Condition 58. – Closure of the Site, including post-closure care, shall be carried out in accordance with the conditions of this Certificate and the provisions of the Closure Plan.

The Site is expected to operate for an additional 23 years.

SITE LIAISON COMMITTEE

Condition 59. –The Board shall organize, support, and participate in a Site Liaison Committee (SLC) composed of the members of the public appointed by the Board following advertisement. Participation from neighbours of the Site will be encouraged. The public membership shall include, if available, two or more neighbours of the Site. The SLC shall serve as the focal point for public dissemination, review, and exchange of information relevant to municipal and local concerns on the operation of the landfill Site.

The Board is in compliance with this condition.

Condition 60. – The Board shall prepare a Terms of Reference for the SLC, prior to waste being deposited at the Site, and document any amendments to the Terms. The Terms of Reference shall include, but not be limited to, specification of the term of office and the basis for election or appointment to the SLC. The SLC is to function within the

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Terms of Reference. The Board shall submit a copy of the Terms of Reference for establishing the SLC to the Regional Director and ensure that the approved terms of Reference and any amendments are maintained in the office of the Board, the Municipal office, and the Public Library.

The Board is in compliance with this condition.

Condition 61. – The Board shall provide for the administrative costs to establish and to operate the SLC, including the cost of meeting places and clerical services.

The Board is in compliance with this condition.

Condition 62. – The Board shall provide the SLC with access to all records, final reports, and, consistent with the Freedom of Information and Privacy Act, communication with the Ministry relation to the landfill Site. The Terms of Reference for the SLC shall include protocols to govern such access.

The Board is in compliance with this condition.

Condition 63. – After notifying the Board, the SLC shall have reasonable access to inspect the Site during construction, operations, and closure.

The Board is in compliance with this condition.

PUBLIC COMPLAINT PROCEDURE

- Condition 64. –The Board shall establish a public complaints procedure that includes:*
- (a) Within 60 days of the date of this Certificate, posting and maintaining a copy of the landfill complaints procedures at the Site office, the Board office, and at each of the municipal offices comprising the Board;*
 - (b) Within 60 days of the date of this Certificate: placing a public notice containing the complaints procedures in local newspapers; and distributing a copy of the complaints procedures to all residences and commercial establishments within 500 m of the Landfill, and adjacent to Baggs Road and Plant Road;*
 - (c) Designating a person to receive any complaints and to respond within ten working-days and with a written notice of action;*
 - (d) Recording the name and address of the complainant, and the date, time, and nature of complaint; and*
 - (e) Reviewing at least twice annually with SLC, all complaints about the operations of the Landfill and the Board's response and action.*

The Board is in compliance with Condition 64. The Board did not receive any complaints during 2007.

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Alternative Daily Cover Material

Condition 65. - *The Board is hereby permitted to use the alternative daily cover material at the Site and shall take all precautions and mitigative measures regarding dust control, surface run-off, vermin, odour and vector control as outlined in Items (9) and (11) of Schedule "A".*

The Board is in compliance with this condition.

Condition 66. - *No final contours, capacity volumes or fill rates shall be affected by the use of alternative daily cover material.*

The Board is in compliance with this condition.

Condition 67. - *The stockpiling of waste to be processed into the alternative daily cover material shall be segregated from the other waste and stored in the location as outlined in Item (9) of Schedule "A".*

The Board is in compliance with this condition.

Condition 68. - *The waste that is to be processed into alternative daily cover material shall not exceed a volume of 6,000 cubic metres and shall be processed a minimum of once per year or more frequently as the volume of waste approaches the maximum allowed amount.*

The Board is in compliance with this condition.

Conditions 69, 70, 71 and 72. and item 12. of the C of A's Schedule "A" were added in the amendment to the C of A issued November 19, 2007. They are as follows:

Condition 69. – *The alternative daily cover shall be non-hazardous in accordance with Reg. 347 and will be expected to perform at least as well as soil in relation to the following functions:*

- (a) control of blowing litter, odours, dust, landfill gas, gulls, vectors, vermin and fires;*
- (b) provision for an aesthetic condition of the landfill during the active life of the Site;*
- (c) provision for vehicle access to the active tipping face; and*
- (d) compatibility with the design of the Site for groundwater protection, leachate management and landfill gas management.*

The Board is in compliance with Condition 69.

Condition 70. – *The Operator shall ensure that the material used as alternative daily cover, does cause an adverse environmental effect. If an adverse effect is caused, the Operator shall immediately stop the use of such material and resume the use of other approved daily cover or clean soil.*

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The Board is in compliance with Condition 70.

Condition 71. – The following material may be used as alternative daily cover:

- (a) construction and demolition waste consisting of size reduced concrete, brick, asphalt, gypsum board and wood;
- (b) brush and lumber chips, leaf and yard waste mixed with sand and composted leaf and yard waste;
- (c) asphalt shingles;
- (d) processed tires;
- (e) non-hazardous contaminated soil; and
- (f) temporary or movable, low permeability, flexible membranes.

The Board is in compliance with Condition 71.

Condition 72. – Cover material shall be applied as follows:

- (a) Daily Cover – A 150 mm layer of cover material, or a membrane as described in Condition 71.(f), or a minimum of three layers of asphalt shingles as described in Condition 71.(c), shall be placed in the operation area at the end of each operating day in a manner so that no waste is exposed to the atmosphere;
- (b) Intermediate Cover – In areas where landfilling has been temporarily discontinued for six (6) months or more, a minimum thickness of 300 millimetre of soil cover or an approved thickness of alternative cover material shall be placed; and
- (c) Final Cover – In areas where landfilling has been completed to final contours, a minimum of 600 millimetre thick layer of low permeability material/soil and 150 millimetres of top soil (final cover) shall be placed. Fill areas shall be progressively completed and rehabilitated as landfill development reaches final contours.

The Board is in compliance with Condition 72.

The following was added to Schedule “A” of the C of A’s Amendment dated November 19, 2007:

“The following items are added to Schedule “A”:

12. Application for a Provisional Certificate of Approval for a Waste Disposal Site with the supporting documents dated July 20, 2007 signed by James Leon, Waste Management Coordinator.

The reasons for this amendment to the Certificate of Approval are as follows:

The reasons for Conditions 69. and 70. is to specify the performance requirements of alternative cover material so that the use of alternative cover material does not cause an adverse effect.

The reason for Condition 71. is to approve alternative cover material.

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The reason for Condition 72. is to specify the thickness of the cover material so that the use of alternative cover material does not cause an adverse effect. The proper closure of a landfill site requires the application of a final cover which is aesthetically pleasing, and is suitable for the end use planned for the Site.”

3.2 2007 VARIANCES FROM ITEM 1 AND ITEM 7 IN SCHEDULE “A”

Item 1 and Item 7 in Schedule “A” of the Certificate of Approval were assessed to determine variances from Site operations.

Item 1 is the DESIGN & OPERATIONS REPORT - PROPOSED NORTH RENFREW LANDFILL SITE.

Prepared For: THE NORTH RENFREW WASTE MANAGEMENT BOARD

Prepared By: GARTNER LEE LIMITED

Dated FEBRUARY, 1997.

Sections 1.0 INTRODUCTION, 2.0 DESIGN BASIS AND 3.0 WASTE STREAM were examined and no variances were found.

Section 4.0 SITE DESIGN, part 4.1 BASE GRADES was examined and an Amendment to the C of A dated February 11, 2002 approves the request of the Board to excavate one (1) metre below the approved Footprint in order to obtain additional soil cover.

Sections 4.2 through 4.8.6 also had no variances. Section 4.8.7 Layout of Other Facilities at the Site was examined and updated in Figures No. 6 and 7 of Item 7 of Appendix “A” of the C of A - Addenda Design and Operations Report - Proposed North Renfrew Landfill Site. A 2005 updated Site Plan that includes the current locations of Site Facilities was prepared and included in a 2005 submission to amend the C of A. The approved Amendment dated August 1, 2006 from the MOE was received by the Board in August 2006.

In 2007 high winds often scattered the blue boxes and their contents and the Coordinator contacted Marc-Etienne Lesieur, Senior Environmental Officer, to discuss the relocation of the blue boxes to minimise the problems caused by the wind. Marc agreed with a suggestion to relocate the blue boxes to the sheltered North-East outer side of the Household Hazardous Waste Depot. Marc asked that the relocation be added to the SITE PLAN in the 2007 Annual Status Report. Figure A-3 - the 2007 SITE PLAN reflects this change.

Sections 4.9 and 4.10 had no variances.

Section 5.1 HOURS OF OPERATION was examined and Amendment to the C of A dated April 2, 2003 approves waste disposal on statutory holidays, if necessary.

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Section 5.2 **LANDFILL PHASING AND TRENCH DEVELOPMENT** was examined. The Board has not varied from the specifications of Section 5.2.

Sections 5.3 through 5.6 were found to have no variances.

Section 5.7 **OPERATION OF OTHER SITE WASTE MANAGEMENT FACILITIES** was examined. The updated Site Plan that includes the locations of Site Facilities was included in a 2005 submission to amend the C of A and the MOE approved Amendment dated August 1, 2006 was received by the Board in August 2006. This 2007 Report includes Figure A-3 – the 2007 SITE PLAN which has a minor change to the location of the blue boxes.

Section 5.8 had no variances.

Section 5.9 **PEST CONTROL** was addressed in 2003 and 2005 to eliminate the problems from bears. An electric fence was installed in 2003 to keep bears out of the areas being landfilled. An extension was added to the electric fence in 2005 so that the entire approved landfilling area is surrounded. Keeping out bears and other large pests has reduced litter and dust problems at the Site.

Sections 5.10, 5.11, 5.12 and 6.0 were examined and there were no variances.

Sections 7.0 **ENVIRONMENTAL MONITORING** parts 7.1, 7.2 and 7.3. This section was examined and determined to have no variances from Site operations.

Section 8.0 **RECORD KEEPING AND REPORTING**. The first section of 8.0 which stated that clear and consistent record keeping will be in place, parts a) through f) are followed and there have been no variances. The second section re the Annual Status Report parts a) through j) is addressed in this current Report.

9.0 CONTINGENCY PLANS

Condition 49. of the C of A states: *The Board shall monitor ground water and surface water according to Schedule “B” as may be amended with the prior written consent of the Regional Director.*

9.1.1 Triggering Mechanism

The Triggering Mechanism protocol was changed in 2007. In a letter dated August 23, 2007, the Regional Director, Gayla Campney, approves C of A Number A420010 amended Schedule “B” and requires its implementation. Details of the amendment are included in the 2007 Monitoring Report in Appendix B of this Report.

9.1.2 **Feasible Contingency Options** are addressed in the 2007 Monitoring Report in Appendix B of this Report, where applicable.

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9.2 CONTINGENCY PLANS RELATED TO LANDFILL GAS. This section was examined and there were no variances.

9.3 OTHER CONTINGENCIES. This section was examined and there were no variances.

10.0 SITE CLOSURE AND END USE. The Site's current estimated life is 23 years. Site closure and end use will be addressed in a formal closure plan at the specified time prior to closure.

Item 7 in Appendix "A" of the Certificate of Approval was then assessed to determine variances from Site operations.

Item 7 is the Addenda to the DESIGN & OPERATIONS REPORT - PROPOSED NORTH RENFREW LANDFILL SITE.

Prepared For: THE NORTH RENFREW WASTE MANAGEMENT BOARD

Prepared By: GARTNER LEE LIMITED

Dated FEBRUARY, 1997.

The Foreword states, "The addenda are organized (and referenced) according to the specific sections of the Design and Operations Report, and, therefore, are meant to be read in conjunction with that report."

Section 4.8.3 Site Access, Site Entrance and traffic levels. This section was examined and determined to have no variances from Site operations.

Section 4.8.7 Layout of Other Facilities at the Site. An updated Site Plan that includes the locations of Site Facilities was included in a 2005 submission to amend the C of A. The MOE approved Amendment dated August 1, 2006 was received by the Board in August 2006. This 2007 Annual Status Report includes Figure A-3 – the 2007 SITE PLAN which has a minor change to the location of the blue boxes

Section 5.7.1 Scrap Metal Pile. An updated Site Plan that includes the current location of the Scrap Metal Pile/Bin was included in a 2005 submission to amend the C of A. It is located such that it is easily monitored by the Site Attendant from the office. The MOE approved Amendment dated August 1, 2006 was received by the Board in August 2006.

Section 5.7.4 Recycling Area. This section was examined and determined to have one change. The blue boxes have been moved to the sheltered North-East outer side of the Household Hazardous Waste Depot. This relocation is added to the SITE PLAN in the 2007 Annual Status Report. Figure A-3 - the 2007 SITE PLAN reflects this change.

Section 5.7.4.2 Household Hazardous Waste Area.

On November 28, 2005 a submission to amend the C of A regarding Household Hazardous Waste Depot/Area operations was made by Robinson Consultants on behalf of the Board. The MOE approved Amendment dated August 1, 2006 was received by the

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Board in August 2006. In 2007, the Board has operated the HHW Area with no variances according to the C of A as Amended.

5.7.5 Composting Area. This section was examined and determined to have no variances from Site operations.

9.1.1 Triggering Mechanism.

The Triggering Mechanism protocol has been changed in 2007. In a letter dated August 23, 2007, the Regional Director, Gayla Campney, approves C of A Number A420010 amended Schedule "B" and requires its implementation. Details of the amendment are included in the 2007 Monitoring Report in Appendix B of this Report.

Appendices. This section was examined and determined to have no variances from Site operations.

3.3 WASTE LANDFILLED DURING 2007

Robinson Consultants completed a survey of waste including top cover and interim cover deposited in 2007 on November 15, 2007. This survey provided information to estimate the volume deposited in 2007. The estimated volume of waste and top cover deposited in the Landfill area in 2007 was 6,115 cubic metres. 2007 and historic volumes are included in TABLE 1 - HISTORICAL WASTE QUANTITIES, REMAINING VOLUME, YEARS TO CLOSURE AND PERCENT FILLED.

Figure A-4 identifies Landfill Design Base Grade Contours. Figure A-5 identifies Landfill Design Waste Contours. Figure A-6 shows Lift Development and Design Sections for 2007. Figure A-7 is Waste Contours 2007 and Figure A-8 is Waste Sections 2007.

Figure A-3 is the SITE PLAN 2007. Note that no waste was placed outside of the Footprint since Site operations began in July 2002.

3.4 SITE CAPACITY AND LANDFILL LAYOUT

Item 1 of Schedule "A" of the C of A is "Report entitled Design and Operations Report, Proposed North Renfrew Landfill Site dated February 1997 and prepared by Gartner Lee Limited." Section 4.3 on page 14 of that 1997 Report is SITE CAPACITY. The total Site capacity including waste and top cover but excluding final cover is 191,250 cubic meters. This value is included in TABLE 1 - HISTORICAL WASTE QUANTITIES, REMAINING VOLUME, YEARS TO CLOSURE AND PERCENT FILLED.

FIGURE A-3 Site Plan shows the layout of the Landfill Site - November 2007. This figure was prepared by Robinson Consultants.

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3.5 REMAINING SITE CAPACITY AND SITE LIFE

Robinson Consultants completed a survey of waste including top cover and interim cover deposited in 2007 on November 15, 2007. This survey provided the information to estimate the volume deposited in 2007. From estimates of waste and top cover landfilled, the remaining Site capacity and Site life were estimated. The estimated remaining Site capacity is 152,306 cubic metres and the estimated years to closure is 23 years. This information is presented in TABLE 1 - HISTORICAL WASTE QUANTITIES, REMAINING VOLUME AND YEARS TO CLOSURE.

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**TABLE 1 - HISTORICAL WASTE QUANTITIES,
REMAINING VOLUME AND YEARS TO CLOSURE**

YEAR	ESTIMATED VOLUME USED in m ³	ESTIMATED REMAINING VOLUME m ³	ESTIMATED YEARS TO CLOSURE	ESTIMATED PERCENT FILLED
Pre Development	0	191,250	25	0
2002 (0.5 of a year)	4,350	186,900	20	2.3
2003	9,473	177,427	19	7.2
2004	5,406	172,021	23	10.1
2005	7,000	165,021	26	13.7
2006	6,600	158,421	24	17.2
2007	6,115	152,306	23 (determined using the average fill rates of 2005 to 2007)	20.4
Total to December 31, 2007	38,944	152,306	23	20.4

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TABLE 2 - LIFT CAPACITY

Phase #	Lift #	Height m	Length m	Width m	Area m ²	Volume m ³	Service Ends	Service Years
1	2	1.6	115	60	6,900	11,040	2005	2
1	1	2.74	116	60.5	7,018	19,229	2004	2.5
2	2006 Fill 1	2.0	56	59	3,304	6,608	2007	1.5
2	2007 Fill 1	1.75	47.5	32	1,520	2,660	2007	0.4
2	2007 Fill 2	1.75	63	31.5	1,984	3472	2008	0.6

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TABLE 3 - CONDITION OF FACILITIES

Description of Item	Status or condition in Dec 2007	Work to be done in 2008
Grading on cover	Lift 2 on Phase 1 was covered with interim cover and being used for storage of the excavated soil from Phase 2. Lift 1 on Phase 2 was completed and covered with interim cover. Lift 2 – Phase 2 was started in 2007.	The thickness of interim cover should continue to be closely monitored and replaced as required. Interim cover on previous lifts should be removed before waste placement.
Grade/survey control	Grade depth is set by survey and metal stakes mark the corners of the phases being filled.	The location of stakes will be monitored to assure correct placement during 2008.
Site office/shelter	The office is a 30' construction trailer on concrete pillars.	Ongoing maintenance and cleaning.
Recycling Area	Cardboard is stored in a steel bin. Other blue box materials are stored in plastic containers and the location for these was changed in 2007 to keep them out of the wind. They are now adjacent to the North East side of the HHW Depot.	Continue recycling at the Site and in the two Towns.
Household Hazardous Waste (HHW) Area	The HHW Area continues to be operated according to the C of A as amended. There was one incident report in 2007 re 1-4 L of spilled oil. It was cleaned up immediately.	Continue to receive, handle, store and recycle approved HHW materials.
Tire Area	302 cubic metres of tires were recycled during 2007.	Continue accepting and recycling tires.
Scrap Metal	2,465 cubic metres of scrap metal were recycled during 2007.	Continue accepting and recycling scrap metal.
Re-Use Area	180 cubic metres of reusable materials was taken from the Re-Use Area by residents during 2006.	Continue accepting reusable materials in this area.
Brush and Wood Chipping Area	All Brush and wood accepted at the Chipping Area was chipped and added the compost piles in the adjacent Compost Area.	Continue to operate the Chipping area.
Compost Area	Chipped brush and wood are mixed with lawn and garden waste and composted in this area. Compost is occasionally used as top cover.	Continue to operate the Compost area.
Entrance gates and signs	Status - good condition.	Minor changes to signs as required.
Access road	Good condition.	Routine maintenance in 2008.
Visual barriers	Trees planted in 2001 continue to show increased growth.	Continue to monitor the trees.

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Surface drainage	There were no signs of erosion.	Continue to monitor for erosion.
Security and fences	Fences surrounding the Landfill Site are adequate	Continue inspections of the fences.
Traffic/disposal signs	The required signs were in place in December 2007.	Inspect signs in the spring of 2008 and repair or replace as necessary.
Trafficability on landfill cover	Problems are occasionally addressed during the spring and alternate gravelled routes are prepared as required.	Continue to inspect, build and improve roads as required.
Soil cover thickness and compaction of landfilled waste	The Site Attendant/Machine Operator compacts the waste at the end of each day with a compacting Liebherr LR-622 crawler/loader. 15 cm of cover material or alternative approved cover is then applied.	Continue to compact and cover the waste daily.
Waste side slopes	Waste side slopes have not yet been reached as of December 2007.	Add final cover and vegetation when waste side slopes reach Design level.
Wind blown litter	Waste exposure by animals has been minimized by erecting an electric fence to keep bears out of the landfill area. Litter is freed by birds digging up the waste. Litter is collected regularly on landowners' properties, where permission is given, weather permitting.	Continue to monitor, minimize and collect litter.
Vegetation	Vegetation on Landfill Site property is in healthy condition.	Continue to monitor vegetation in 2008.
Waste types accepted for landfilling	Only solid non-hazardous residential, commercial, industrial and institutional wastes generated in the Towns of Deep River and Laurentian Hills are accepted for disposal.	There will be no changes to wastes accepted for landfilling in 2008.

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3.6 SUMMARY OF LANDFILL OPERATIONS IN 2007

The 2007 hours of operation were: Winter hours during Standard Time - Tuesday through Saturday 9:00 a.m. to 4:00 p.m. and Summer hours during Daylight Savings Time - Tuesday 9:00 a.m. to 6:00 p.m. and Wednesday through Saturday 9:00 a.m. to 4:00 p.m. These hours of operation are within the times permitted in C of A Condition 26 as amended.

On April 2, 2003, the MOE amended the C of A - Condition 26 was revoked and replaced to allow waste to be disposed of on statutory holidays.

The amendment states:

I Condition (26) is hereby revoked and replaced with:

The maximum waste disposal operating hours of the Landfill shall be 7:00 a.m. to 7:00 p.m., Monday to Saturday. The Landfill shall be closed on Sundays. During days when the Landfill is open, on-site activity other than waste disposal may occur an hour before 7:00 a.m. or two hours after 7:00 p.m. or both. The Board may determine the actual hours of operation within these approved limits providing that the actual hours are posted at the landfill entrance gates. Equipment maintenance and administrative functions may occur at any time.

Item 1 of Schedule "A" of the C of A is "Report entitled Design and Operations Report, Proposed North Renfrew Landfill Site dated February 1997 and prepared by Gartner Lee Limited." Section 5.0 of this report - Site Operations, part 5.2 Landfill Phasing and Trench Development states: "The landfill will be generally filled in a sequence from southwest to northeast." Details of Phase 1 and 2 lift development are included in "TABLE 2 – LIFT CAPACITY". During 2007, there was no Landfill Area excavation.

The Waste Filling Concept and the Daily Landfilling Procedures that are used at the Landfill Site are presented as FIGURES A-9 and A-10. Temporary roads and/or ramps were prepared as required for access to the tipping face.

As seen in FIGURE A-9, the compacting crawler/loader was used to push the waste up on to the sloping face and the waste is compacted with several passes up and down the face. At the end of each day when compacting of the waste is complete, a minimum of 0.15 m of daily cover was applied over all exposed waste. Areas that are to be left inactive for more than one month are covered with 0.3 m of interim cover.

Most of the daily top cover and interim cover material consists of soil/sand from the excavation and development of Phases 1 and 2. Occasionally, on-site composed material or hydrocarbon contaminated soil is used or mixed with the native soil and used as daily cover. Final grades have not yet been reached in the area landfilled to the end of 2007.

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3.7 PROPOSED CHANGES TO LANDFILL OPERATIONS FOR 2008

In 2007 landfilling of Phase 2 – Lift 1 was completed and Phase 2 Lift 2 was begun. Excavated soil continues to be stored on Phase 1 – Lift 2. The landfilling of Phase 2 – Lift 2 will continue in 2008.

Top cover and interim cover will be closely monitored to assure compliance to the C of A and minimize animal and wind carried litter. In 2007 the Board applied to have the C of A amended for the use of other alternate daily cover materials including tarps/membranes. The approved amendment dated November 19, 2007 was received and the Board will begin using a tarp in the spring of 2008. Apart from using a tarp/membrane for daily cover, the Board has no other changes planned for 2008.

The 2008 Site Liaison Committee (SLC) will continue to take an active role in recycling and other forms of waste diversion by advertising and educating. It will promote several waste diversion ideas including alternate ways to curb the landfilling of yard and garden waste by promoting composting. Grass clippings, leaves and garden waste can be brought to the Composting Area at the Baggs Road Landfill Site or composted at home.

Increased recycling and other forms of waste diversion should be considered to help meet the MOE's 60% waste diversion target in 2008. The 2007 SLC suggested that the Towns consider measures to increase recycling such as garbage bag limits, the mandatory use of clear or translucent garbage bags and/or a recycling by-law. The Board might consider ways to refuse garbage containing recyclable materials that is destined to be landfilled.

3.8 ANALYSIS RESULTS OF 2007 HYDROCARBON CONTAMINATED SOILS

The analysis results of 2007 hydrocarbon contaminated soils that were accepted at the Baggs Road Landfill Site from four locations in the service area are attached as pages 38 – i, 38 – ii, 38 – iii and 38 - iv as follows:

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4.0 HYDROGEOLOGICAL MONITORING FOR 2007

Hydrogeological Monitoring for 2007 is addressed in PART B of this Report. Included in PART B of this 2007 Report is the fifth-year Assessment of Contingency Plan report to satisfy Condition 54. of the C of A.

5.0 WASTE DIVERSION AND WASTE REDUCTION

5.1 LIST OF WASTE DIVERSION AND WASTE REDUCTION INITIATIVES

- The Towns of Deep River and Laurentian Hills both collect curbside blue box materials for recycling
- The Town of Deep River operates the Miller Road Landfill Site for accepting C&D waste, which helps extend the life of the Baggs Road Landfill Site
- The Baggs Road Landfill Site has the following waste diversion areas:
 - a) Composting Area
 - b) Recycling Area
 - c) Reuse Area
 - d) Household Hazardous Waste Area
 - e) Brush Chipping Area
 - f) Scrap Metal Area
 - g) Tire Area
- The North Renfrew Landfill Operations Board has an agreement for the pickup of recyclable cardboard in both Towns and at the Baggs Road Landfill Site.

5.2 WASTE DIVERSION/RECYCLING DETAILS

5.2.1 Recycling in both Towns and at the Landfill Site

The North Renfrew Landfill Site began operations on July 6, 2002 and its design allows the segregation, storage and removal of several types of materials for diversion/recycling. The Site's areas for these materials are: recycling/blue box, reuse, metal, tires, household hazardous waste, brush chipping and compost. The Board has an agreement with a private contractor to pickup and recycle cardboard from both Towns and the Landfill Site. The cardboard pickup has had a positive impact on the volume of waste landfilled and thus the life expectancy of the Landfill Site.

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In addition to recycling at the Landfill Site, both Towns have implemented curbside blue box collection. The Town of Deep River and the Town of Laurentian Hills have been curbside recycling blue box materials for several years. Table 4 - Recycling Programs - 2007 identifies the types and estimated volumes of recyclable materials collected at the Landfill Site, the cardboard pickup and the two Towns in 2007.

TABLE 4 - RECYCLING PROGRAMS – 2007

Material	Recycling Volume m³ Deep River (Note 1)	Recycling Volume m³ Laurentian Hills (Note 1)	Recycling Volume m³ Cardboard Contracts(Note2)	Total m³ of each Material
Tin/Aluminium and Plastic (not segregated)	703	385		1,088
Clear Glass	269	150		419
Coloured Glass	154	60		214
Fibres	2,639	1,036	10,620	14,295
TOTAL	3,765	1,631	10,620	16,016
Total Recyclables	-----	-----	-----	16,016

Note 1: Includes Bluebox materials collected at the Landfill Site and weight to m³ determination is calculated using total load weight to full truck volume.

Note 2: Includes cardboard collected and recycled from both Towns and at the Landfill Site.

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5.2.2 Household Hazardous Waste

A Household Hazardous Waste (HHW) Area has operated at the Baggs Road Landfill Site since operations began on July 6, 2002. The 2007 volume of HHW materials that was diverted from landfilling was 21 cubic metres.

Determination of HHW volumes is seen in section 5.4 f. and g. of this Report.

On November 28, 2005 a submission to the MOE was made to expand the list of materials in the C of A to allow their acceptance, storage and removal. The approved amendment to the C of A was received in August 2006. The expanded list of HHW materials continued to be used during 2007.

5.3 STATUS OF WASTE DIVERSION INITIATIVES

The North Renfrew Landfill Operations Board, formerly the North Renfrew Waste Management Board, has operated the Baggs Road Landfill Site since 2002 with areas for recycling, reusable materials, white goods, household hazardous wastes, scrap metal, tires, brush chipping and composted yard and garden wastes. Since 2004, the Board has had an agreement with a contractor to pickup and recycle cardboard in the two Towns.

The Towns of Deep River and Laurentian Hills have agreements for the collection of curbside blue box recycling materials. TABLE 4 identifies volumes of recyclable/blue box materials collected in the Towns and at the Site. The results of 2007 Waste Diversion Initiatives are summarized in TABLE 5.

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TABLE 5 - WASTE DIVERSION INITIATIVES – 2007

Description	Waste Diverted in 2007 m³	% of Total Materials
Blue Box Recycling from Site and Both Towns	16,016	61.77
Tires	302	1.16
Scrap Metal	2,465	9.51
Reuse Area	180	0.69
Compost Area	150	0.58
Household Hazardous Waste	21	0.08
Total Materials Diverted	19,134	73.8
Landfilled Waste plus Materials Stored at Year-End	(6,115 plus 679) = 6,794	26.2
Total Waste Stream	(6,794 + 19,134) = 25,928	100
Diversion Rate By Volume	(19,134/25,928) = <u>73.8%</u>	

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5.4 WASTE DIVERTED AND RECYCLABLE MATERIALS RETAINED AT 2007 YEAR-END

The total landfill volume used in 2007 was 6,115 cubic meters. Description of recyclable materials diverted from disposal in the footprint is as follows:

- a. Scrap Metal
- b. Compost
- c. Tires
- d. Reuse
- e. Recycling/blue box
- f. Household Hazardous Waste (HHW)

NOTE: Large volumes of C&D waste have been diverted to the Town of Deep River's Miller Road Site for the purpose of saving landfill volume at the Baggs Road Site and to act as fill to complete the Millers Road Site to final grade.

2007 quantities of diverted and retained materials in cubic meters are as follows:

- a. 2007 Scrap Metal recycled from the Site and the Towns was 2,465 cubic meters. Volume stored at the Site at year-end 2006 was 27 cubic meters.
- b. The 2007 compost volume diverted was 150 cubic meters. Volume stored at the Site at year-end 2007 was 600 cubic meters.
- c. The 2007 volume of tires removed was 302 cubic meters. The volume stored at the Site at year-end 2007 was 24 cubic meters.
- d. 2007 Reuse Area material collected at Site was 200 cubic meters and of this, 180 cubic meters was diverted. Volume stored at the Site at year-end 2007 was 5 cubic meters.
- e. 2007 Recycling including the Board's cardboard recycling contract and other contracts for recyclable materials in the service area was 16,016 cubic meters. Volume stored at the Site at year-end 2007 was 21 cubic meters.
- f. Total 2007 HHW materials diverted was determined as follows:

Engine Oil:	15,322 L
Paint:	2600 L
Flammable liquids:	200 L
Antifreeze:	1700 L
Aerosols, Flammable:	44.4 L
Automotive Batteries	1134 L

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Refrigerant: 2.8 L
Fluorescent lamps: 120 L

Total of HHW materials removed in 2007 was: @ 1000 L/cu m = 15.322
+ 2.6 + .2 + 1.7 + .044 + 1.134 + .0028 + 0.12 = 21.12 = 21 cu m.

g. Household Hazardous Waste left over from 2007 was: 2.4 cu m.

Engine oil: 1,500 L
Paint: 800 L
Light fuels: 0 L
Antifreeze: 40 L
Aerosols, Flammables: 20 L
Automotive Batteries: 24.3 L
Alkaline Waste: 10 L
Refrigerant: 0 L
Fluorescent lights: 30 L

Total of additional HHW material accepted during 2007 but not removed
at year-end in cu m @ 1000 L/cu m = 2.4 cu m.

The total of 2007 HHW materials accepted is obtained as follows: 21 cu m removed less the 2006, December 31 left over materials of 3.5 cu m = 21 - 3.5 = 17.5 cubic meters + Total volume left over on 2007, December 31 = 2.4 cubic meters = 17.5 + 2.4 = 19.9 cubic meters.

Grand Total of 2007 materials left over for future recycling/removal is:

a. Scrap Metal: 27 m³
b. Compost Area - composting clean chipped wood and brush, leaves and garden waste: 600 m³
c. Tires: 24 m³
d. Reuse Area material: 5 m³
e. Recycling Area material: 21 m³
f. Household Hazardous Waste: 2.4 m³

2007 Grand Total of leftover materials = 679.4 m³

4. Total waste volume landfilled in 2007 was **6,115** cu m plus recyclable materials stored at year-end of 679 m³ = 6794 m³.

5. Total volumes of wastes diverted, landfilled and retained in 2007 = 19,134 + 6,794 = 25,928 cu m.

6. **2007 Waste Diversion %** = 19,134 / 25,928 = 0.738 * 100 = **73.8%**

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7. Conclusions and Recommendations:

- a. The 2007 total Waste Diversion percentage was 73.8%. This is a slight improvement over the 2006 diversion rate of 68.3%.
 - b. Continued efforts to increase recycling are necessary to maintain a 60 + % waste diversion rate as in future years it might be difficult to divert C&D waste and there might be some uncertainties in obtaining contracts for recycling.
-

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6.0 OTHER ISSUES

6.1 SITE LIAISON COMMITTEE TERMS OF REFERENCE AND ANNUAL REPORT

6.1.1 SITE LIAISON COMMITTEE TERMS OF REFERENCE

The Site Liaison Committee (SLC) Terms of Reference are as follows:

	<p>NORTH RENFREW LANDFILL OPERATIONS BOARD Laurentian Hills Municipal Building 34465 Hwy 17, R.R. #1, Deep River, Ontario KOJ 1P0</p> <p>Telephone: (613) 584-9194 Fax (613) 584-3285 Email: nrlob@town.laurentianhills.on.ca Web: www.magma.ca/~nrwmb/</p>
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SITE LIAISON COMMITTEE

TERMS OF REFERENCE

This document describes the terms of reference for the Site Liaison Committee referred to in the Provisional Certificate of Approval No. A420010 dated 28 May 1999 Item 60 for the North Renfrew Landfill Site.

1. The purpose of the SLC shall be to:
 - monitor the site operation, post-closure and post-care, including waste haulage traffic within the vicinity of the site, and pollution abatement strategy issues;
 - provide a forum for direct exchange between surrounding landowners, business interests, the M.O.E., and the North Renfrew Landfill Operations Board concerning landfill site operation and closure;
 - monitor annual reports;
 - monitor groundwater and surface water analysis;
 - monitor complaints and action taken;
 - monitor regulatory actions.
2. The SLC will act in an advisory role to the Board and will make formal recommendations to the Board. Additionally, the SLC will make a brief annual report to the Board outlining its activities for the previous period and any of its concerns relative to SLC function.
3. The public shall be advised by the Board of the formation of the SLC and requested to express interest in membership. The membership of the SLC shall be selected by the Board from interested residents of the Town of Deep River and the Town of Laurentian Hills in accordance with the following priorities:

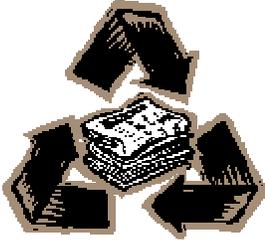
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- previous membership on the SLC.
 - proximity of their principal residence to the landfill site.
 - proximity of their property to the landfill site.
 - employed in AECL's Waste Management Department
 - representative of the municipal waste haulage department/contractor.
 - representative of the Board (no voting privileges)
4. The maximum number of members on the SLC shall be no greater than six (6).
 5. The MOE shall be notified of any SLC meeting as soon as the meeting is called and may attend any meeting in an advisory capacity.
 6. Non-member observers and the press shall be welcome at all meetings. Seating room shall be provided. All observers shall be provided the opportunity to make a presentation or otherwise be heard if they so wish. The Board shall provide meeting rooms as available.
 7. The Chairperson of the SLC established during the North Renfrew Waste Management Master Plan study will chair the initial meeting. A chairperson shall be elected by the membership of the SLC from voting members.
 8. A summary of each meeting will be documented and circulated to all members and observers. The Board will provide reasonable secretarial/clerk services to the SLC.
 9. The Board will make available background information, as required by the SLC.
 10. The SLC will review all information that is provided to it.
 11. The SLC will meet on a quarterly basis or as required.
 12. The Board shall supply the SLC with a reasonable annual budget for the purposes of informing the public.
 13. SLC Members will be entitled to compensation for mileage for SLC business and meetings as authorized by the Board at the current mileage rate paid by the Board.
 14. The SLC is encouraged to develop a consensus about any proposed recommendations to the Board. Alternatively, a vote of the majority attending will carry the recommendation.
 - The SLC will establish an appropriate schedule of meetings.
 - Meetings will normally not last for more than three hours.
 - Notice shall be provided by mail or other suitable form at least seven (7) days in advance of any scheduled meeting.
 - SLC members will be appointed for a period of one year, effective January 1st.
 15. Amendments to this Terms of Reference may only be made upon the recommendation of the SLC or the Board. No changes to this Charter shall be undertaken without approval of the North Renfrew Landfill Operations Board or its successor.

6.1.2 SITE LIAISON COMMITTEE ANNUAL REPORT

The Site Liaison Committee (SLC) 2007 Annual Report as compiled from 2007 SLC Minutes of Meetings is as follows:

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North Renfrew Site Liaison Committee
Laurentian Hills Municipal Building
34465 Highway 17
R.R. # 1 Deep River, Ontario K0J 1P0
Telephone: (613) 584-9194

2007 SLC ANNUAL REPORT

Date: December 28, 2007
Prepared by: 2007 North Renfrew Site Liaison Committee and the North Renfrew Landfill Operations Board Coordinator

This 2007 SLC Report contains the highlights of SLC and North Renfrew Landfill Operations Board (NRLOB) Minutes of 2007 Meetings.

1. Appointment of 2007 SLC Membership:

Extract from the February 26th, 2007 Board Meeting:

“Update from Site Liaison Committee.

12. a. Response from SLC application press release and appointment of SLC applicants for 2007 Membership.

The press release article in the NRT did not encourage any new SLC applicants. James stated that four of the five 2006 SLC Members are reapplying for 2007 Membership. Board Members agreed to the appointment of the four reapplying members.

At the last SLC Meeting on November 20th, 2007, Members reviewed the letters to the new and returning Council Members. They agreed that SLC Chair Gust sign the letters and that they be sent.

- b. Emails from 2006 SLC Members re December 27, 2006 NRT article “Council balks at recycling request”.

This topic was briefly discussed and Vice Chair Adams stated that both Towns are now in agreement with SLC advertising and educating residents about waste diversion and recycling. The Board will review the SLC’s advertising/educating information to eliminate possible controversy.”

The 2007 reappointed SLC Members were Earl Gust, Nora Waddell, Susan McBride and Anne Oesinghaus.

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Extract from the August 27th, 2007 Board Meeting:

“9. Update from the Site Liaison Committee.

c. Application for approval of new SLC applicant.

James stated that Susan Patterson has recently applied to be an SLC Member. Board Members discussed this application.

Moved by: Gary McAnulty
Seconded by: Dave Ethier

That Susan Patterson be appointed as an SLC Member for 2007. Carried.”

2. Highlights of March 5, 2007 SLC meeting.

“1. Election of 2007 SLC Chair and Vice Chair.

At 7:10 the newly appointed 2007 SLC Members began the 2007 elections. A call for nominees for 2007 SLC Chair was made and Nora Waddell nominated Earl Gust as 2007 Chair. No further nominations for the position of Chair were made and Earl Gust was thus appointed 2007 Chair.

A call for nominees for 2007 SLC Vice Chair was made and Earl Gust nominated Nora Waddell. No further nominations were made and Nora Waddell was thus appointed 2007 Vice Chair.

Chair Gust called the meeting to order at 7:15 pm.

3. Advertising.

a. Discussion of spring 2007 SLC Site Features ad to be prepared and run in the NRT - including LCBO recycling reminder.

The Draft Spring ad was examined and modified. The line “Bring Empty Spirits Containers to the Beer Store for Refund” was added. Members requested that James keep an eye on the Site’s Recycling Area to determine if spirits containers are still being placed in the blue boxes.

Chair Gust suggested that for safety reasons, James have the Site Attendant request that residents place cardboard and metal in front of the respective bins and the Attendant would later use the loader to move the materials into the bins.

Moved by: Nora Waddell

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Seconded by: Earl Gust

That the spring Site Features ad be accepted as modified. Carried.

James was requested to have it run in the NRT.

b. Update on printing and distribution of SLC Composting Brochures.

James reported that he had had 1,500 B/W copies of the brochure printed. James stated that he would make copies available, as required, in both Municipal Buildings. The Chair and the Vice Chair took copies to make them available at both AECL sites. Attending Members and the Coordinator each took home about 100 copies for folding.

Vice Chair Waddell offered to contact the Deep River Horticultural Society for assistance in distributing the brochure. She added that she would investigate sources of free or nearly free composting bins.

c. WDO In-Kind Advertising Program.

The Board Chair, Hank van der Horn, had given James a copy of a letter from Waste Diversion Ontario (WDO) re In-Kind Advertising. The letter stated that the Canadian and the Ontario Newspapers Associations can meet their obligation as stewards by contributing lineage to the value of their Blue Box fees.

The value of lineage available to Municipalities for waste diversion advertising depends on the costs of their annual Blue Box programs. James was asked by the Board to investigate the possibility of SLC/Board advertising to use the amounts of WDO funding available for 2007 for the two Towns as the Towns have not used them in earlier years. James would first have to obtain agreements from each town to allow this prior to obtaining a WDO password for advertising purposes.

4. Business Arising from Previous Meetings.

a. Replies re Town balks at recycling request and later decision to support SLC advertising/educating and preparation of SLC plan for presentation to Board.

SLC Members discussed this issue and prepared the following plan:

- i. The SLC will plan and prepare educational ads and have them approved by the Board and/or Councils.
- ii. The ads will be designed to be non controversial with the operations of both Towns.
- iii. The SLC will participate in the 2007 Extravaganza.
- iv. The SLC will determine how to distribute the Composting Brochure.
- v. Recycling in the Towns' schools will be addressed and the SLC will suggest that a fraction of the community service hours for high school students be used for cleanups and waste diversion.

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- vi. SLC Members will encourage residents to begin using re-usable shopping bags.
- vii. The Vice Chair will investigate having an occasional 3 Rs and diversion article in the NRT.

Moved by: Nora Waddell
Seconded by: Earl Gust

That the SLC plan for advertising/educating be presented to the Board for approval. Carried.

- c. NRT article "Town well short of diversion target" and reports of 2006 recycling.

The article was briefly discussed. James added that Jim Ungrin will have a letter dealing with SLC issues in this week's NRT.

4. Other Business

- a. Request for ideas and participation for SLC's and Board's participation in 2007 Extravaganza.

The Extravaganza was discussed. When the date is determined, James should email SLC Members with the information and request some help with the SLC table. SLC handouts including the Composting Brochure and the spring Site Features ad should be made available.

- b. Discussion of January 23, 2007 Site Inspection Report.

The two-part report was examined. Earl Gust suggested that the vertical control of H-8 and BH-9 could be obtained by using the water level of Maskinonge Lake. James stated that he would inform our consultants of this suggestion.

- d. Site closure costs letter for Auditor with updated Site life expectancy.

The letter to the Auditor with details of Site life expectancy for closure/post closure costs estimation was reviewed. It stated that the estimated Site life expectancy was 24 years.

- e. Discussion with Earl Gust re temporary cover drop mats and tarps.

Earl reported that the Town of Arnprior or Renfrew use a framed screen wire mesh daily cover that keeps out animals/birds and saves large volumes of daily cover. James stated that this was discussed at a recent Board Meeting. He had also looked into tarp use for daily cover and would visit the OVWRC for a demonstration and detailed information.

- f. Suggestions for inclusions of other diverted materials in both Towns.

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Chair Gust suggested that brush should not be landfilled. Brush, HHW and recyclable materials frequently become packed with regular household garbage in opaque and are then landfilled. This is a very wasteful and unsound environmental practice. Vice Chair Waddell suggested that the use of clear garbage bags and bylaws to not pickup these materials when they are seen by the garbage truck operators could solve the problem of having these materials landfilled.

Moved by: Nora Waddell
Seconded by: Earl Gust

That the Board examine the suggestion to have only have clear garbage bags used for garbage in the Towns for the purposes of saving volume at the landfill and protecting the environment. Carried.

3. Highlights of June 4, 2007 SLC meeting.

“3. Advertising.

b. Update on the distribution of SLC Composting Brochure.

The updated/completed SLC composting brochure was discussed. Nora stated that she would contact Doug Champ about getting some help with the distribution.

Brochures are now available in both Municipal Buildings. James stated that having both Towns insert a copy of the Brochure into the tax bills would be wasteful as many of the bills go directly to the mortgage companies.

c. Presentation and selection of WDO In-Kind ads.

SLC Members examined the draft ads and selected two of them for presentation to the Board.

Moved by: Nora Waddell
Seconded by: Susan McBride

That the two selected ads be presented to the Board for approval and publication. Carried.

Members discussed reluctant recyclers and difficulties that waste reduction is for large families. Earl suggested that the Towns give a blue box to each new family.

Moved by: Earl Gust
Seconded by: Susan McBride

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That the SLC suggests that the Board recommends that both Towns provide a blue box to new residents. Carried.

Members discussed the possibility of having the Welcome Wagon give the blue boxes along with other SLC and Board information and brochures to new residents.

4. Business Arising from Previous Meetings.

- a. Correspondence from and to MOE re 2006 Status Report, 75th percentile exceedences and access problems.

James reported that current correspondence with the MOE will lead to an amendment that should resolve these problems.

- b. Report from Nora Waddell re occasional NRT column and recent letter to editor.

Nora stated that Terry Myers had agreed earlier to her idea. Earl and Nora discussed naming the column. They will work on a name. Nora suggested that the column could recommend that part of the High School Student's ten hours of public service be used for waste diversion tasks.

Nora's recent letter with photos to the editor was examined and discussed. Members agreed that these letters are usually read by residents.

- c. Letter to editor from Jim Ungrin.

The letter from Jim Ungrin about earlier efforts by the SLC to enhance recycling and composting was discussed. Jim's letter was deemed to be very effective in getting the messages out.

5. Other Business.

- a. Correspondence re Deep River's spring pickup.

James summarized this issue and the Town agreed to not send recyclable materials to the Baggs Road Site during future spring pickups.

- b. Information re tarp covering.

The tarp covering information was examined by Members and deemed to be well worth considering. The Chair and James discussed the framed wire mesh covering that is used in Renfrew Town and agreed that this would be a second good option.

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Moved by: Earl Gust
Seconded by: Nora Waddell

That the Board considers applying to amend the C of A so that a tarp or framed wire mesh cover could be used. Carried.

b. Report on vandalism – May 26th – May 27th, 2007.

James reported that during a routine Site check on May 27th at 2:00 pm, spent fireworks were found along Baggs Road which could be considered to be a fire hazard as they were likely set off during the evening/night of May 26th - a dry evening.

At the Site's Re-Use Area, a large amount of broken material was discovered. Vandals had hit the Site likely on May 26th or May 27th. Items that were broken included two large thermo-pane and other glass windows, two toilets, a case of mason jars and a monitor.

James stopped and reported the incident to OPP officers in cruisers parked at the school bus parking lot and requested that the OPP patrol Baggs Road twice – afternoon and evening. As they had been called elsewhere, they took the information/request and assured him that at least one patrol of Baggs Road would be made that evening. The Deep River Police were then informed. There has been no further vandalism since then.

SLC Members discussed the results of the 2003 garbage audit at the Site that revealed that about two thirds of the waste being landfilled was recyclable material. Earl suggested that the Board conduct an audit in 2007 to determine if our recycling percentage has improved. If not, the audit would get the message out again.

Moved by: Nora Waddell
Seconded by: Earl Gust

That the SLC recommends that the Board conducts a 2007 garbage audit at the Landfill Site. Carried.”

5. Highlights of September 11, 2006 SLC meeting.

“1. Call to order, welcoming of new SLC Member and review of current Agenda.

Vice Chair Waddell was the acting Chair for this Meeting. The Chair welcomed Susan Patterson, the newly appointed SLC Member, to the Meeting. Susan Patterson stated that she has had earlier experience in waste matters and education in Sudbury and in Perry Sound. In Perry Sound she ran a program for family education – reducing, reusing and recycling called “One More Time Around”.

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Chair Waddell welcomed Janet McNeill as a guest to this evening's Meeting. Janet stated that she would like to present her ideas and brochures that would be made available in her handout unit and discuss Waste Reduction Week 2007.

3. Advertising.

a. Planning of fall 2007 SLC Site Features/Recycling ad in NRT.

The spring ad that would be updated for the fall was discussed. Susan McBride noted that the scissors were inside the dashed line frame and suggested that they would be better if placed on the dashed line.

Susan Patterson suggested that the line "REUSE - Reusable materials" should be expanded upon for clarity. Additions should be made to the fall ad to explain the functions of the reuse area. James Leon asked her if she would update this section and email the additions to him for inclusion in the fall ad. Susan McBride concurred and suggested that examples of gently used materials be added. Susan Patterson agreed to redo this section of the ad.

Chair Waddell stated that we could take some photos of the reuse area and send them along with a brief caption to the NRT as a press release for greater exposure to the benefits of the reuse area. Susan McBride agreed and added that photos of the HHW area would have similar benefits. The photos could include a resident that is dropping off or picking up materials from both areas.

b. Update on the distribution of SLC Composting Brochure.

Members discussed the SLC composting brochure. Chair Waddell asked James about the earlier contact with Doug Champ for distribution through the Deep River Horticultural Society. James replied that Doug had requested and was sent an electronic copy of the brochure for distribution, but he has not yet replied about if this has been done. Perhaps he has had some problems reading the Publisher/.pub file. The Chair accepted a bag of the brochures and stated that she would get them to Doug for distribution.

Janet McNeill stated that she has permission to place counter-top brochure handout units in the Deep River Post Office during Waste Reduction Week. Waste reduction, composting, What Goes Up Must Come Down/garbage burning information and pesticide information will be some of the handouts that will be made available at the Post Office that week. Janet offered to make the Composting Brochure available in her handout units. She added that it has been difficult to find a location for her large handout unit.

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James Leon presented an updated SLC Landfill Site Information brochure that had been recently approved for distribution and suggested that it might also be made available during Waste Reduction Week. Janet agreed to this suggestion.

Moved by: Susan McBride
Seconded by: Nora Waddell

That copies of brochures and information be prepared for distribution during Waste Reduction Week 2007. Carried.

Susan Patterson and Janet McNeill discussed composting production and sale at the OVWRC. Susan Patterson noted that the earlier composting program in Perry Sound was a huge success.

c. Discussion of WDO In-Kind ads and recommendations for 2008 WDO ads.

The 2007 SLC/WDO ads that were run and will be run in the NRT were examined and discussed. The ad “Recycling one pop can saves enough energy to power a TV for three hours” was deemed an excellent ad to get the message across.

d. Suggestion for SLC to get involved in Waste Reduction Week 2007.

SLC Members had agreed earlier in the meeting to provide help copying information/brochures for distribution at the Deep River Post Office during Waste Reduction Week (WRW) 2007. Susan McBride and Susan Patterson discussed WRW and suggested that the BMO could be contacted for help. Also, a banner could be ordered and hanged the same way as the Summerfest banner.

Janet McNeill suggested that the two Towns could be asked to proclaim WRW. Susan McBride noted that the Towns often have funds set aside for such reasons. Chair Waddell offered to send a letter to Council members of both Towns and request this proclamation.

4. Business Arising from Previous Meetings.

a. Status of C of A amendment re monitoring – Schedule “B”.

James summarized this issue as follows: The changes to Schedule “B” are to pages 20 and 22 of the C of A and refer to the relocation of SW-2, the deletion of SW-5 and SW-6 and the deletion of the original trigger mechanism for initiating the surface water contingency plan. Instead of a trigger mechanism, the Amended Schedule “B” page 22 states “Anomalies or increasing trends in the surface water data reported in the Annual Status Report are addressed by preparing a contingency plan at that time. The Monitoring location for SW-2 has been

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relocated to upstream of Baggs Road as the original downstream location may be influenced by activities such as road salting.”

This will save us money as the original trigger mechanism plan required us to go to monthly sampling instead of quarterly sampling and this could have happened this year as we have been exceeding our original trigger values. The annual monitoring costs might have nearly quadrupled from \$15K to \$50K or more.

b. Discussion of occasional NRT column.

Chair Waddell noted that the NRT column “The Greener Way” by Janet McNeill/North Renfrew Environmental Action does a great job of getting the messages out. The Chair added that the SLC could offer to help prepare articles in part or in full for this column.

Nora Waddell’s earlier letter with photos to the NRT editor “Garbage, garbage and MORE garbage” was discussed. Chair Waddell reported that all of the garbage in the photos was gone the next day.

c. Status of photo of SLC Member giving an ink cartridge to Marcel at Figaro’s and distribution of posters for recycling ink cartridges and cell phones for the food bank.

Susan McBride said that she would call the NRT and have the presentation photo taken.

Susan Patterson stated that she is considering writing a letter or article titled “The Crows Knows”. The letter would point out the recyclable materials in local residential garbage as revealed by crows that have torn open the garbage bags.

Anne Oesinghaus stated that she is encouraging the recycling of materials generated at the JL Grey Building. The material includes coffee cups, bottles, plastic containers etc. in the lunchroom.

Copies of posters “Support your local food bank, recycle your cell phones and inkjet cartridges” were distributed to Members for posting on bulletin boards.

d. Details of proposed garbage audit at Landfill Site.

James reported that fifth Board Member Gary McAnulty had volunteered to assist with the garbage audit that was recommended by the SLC. He had recently contacted Gary and the audit will take place during the next few weeks. Susan McBride suggested that high school students in the Tamarac class could be asked to participate in the audit. Susan Patterson agreed and added that they be informed that the audit is important as it will inform residents of the amount of materials

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that could be recycled that are actually being set out as garbage destined for landfilling. It is cool to help the environment.

f. Presentation of updated “Landfill Site Information” brochure.

This brochure had been discussed earlier during Agenda item 3. b. Anne Oesinghaus suggested that the SLC prepare 100 copies of this brochure for the handout unit in the post office during Waste Reduction Week.

Moved by: Anne Oesinghaus
Seconded by: Susan Patterson

That the SLC provide the required number of copies of the Landfill Site Information brochure for the handout unit during Waste Reduction Week.
Carried.

5. Other Business.

c. Illegal dumping incidents on the Baker’s property.

James summarized this issue. He had been contacted recently by the Bakers on two occasions about illegally dumped C&D waste on their property. On both occasions he was able to get the Site Contractor to assist with the cleanup. The information had been sent to the Board and discussed during the last Board Meeting. The Board’s position on events that are not related to the operation of the Landfill Site is that James should recommend that the property owners with problems contact the OPP for assistance.

d. Information on acceptance of Hydrocarbon contaminated soil.

This issue was discussed. Prior to accepting loads of contaminated soil, the owner must have an engineering consultant company sample the Site according to MOE protocol. The samples are then analyzed and if they meet the required levels of specified analytes, the soil can then be accepted. This material is usually stockpiled and used as future top cover material.

e. Discussion of ways to increase recycling.

SLC Members discussed small compostable garbage bags, transparent and translucent garbage bags and user-pay per bag or tag methods to decrease recyclable materials from being landfilled. James stated that the last Board discussed user-pay ideas and decided that a plan should be made to reduce garbage and increase the amount being recycled. Members agreed that a first step could be to use clear bags as people get embarrassed and refrain from putting recyclable materials in their garbage bags.

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Moved by: Susan Patterson
Seconded by: Anne Oesinghaus

That the SLC requests that the Board recommends to the two Town Councils that clear bags or user-pay bags or tags be mandated to increase recycling. Carried.

Susan McBride suggested that the Landfill Site Information brochure include the Whistle Stop and the Library as local locations that will accept good used materials and books.

Susan Patterson suggested that a better name for the Re-Use area should be added as an agenda item for the next SLC Meeting. One suggestion would be to call it the Baggs Road Re-Use Center.”

7. Highlights of the November 19, 2007 SLC meeting.

3. Advertising.

b. Discussion of fall 2007 SLC Site Features/Recycling ad in the NRT and planning for future ads.

The fall ad was examined. Susan Patterson suggested that an abbreviated form of the ad could be made as a magnet and distributed. She offered to prepare a draft of the text and look into the preparation and cost of the magnetic backing.

b. Approval of continued copying of information and brochures as required for distribution.

Members discussed the copying and distribution for Waste Reduction Week and deemed the free distribution to be a great success.

Moved by: Susan Patterson
Seconded by: Nora Waddell

That the SLC provide future copies of information and brochures for distribution as required. Carried.

c. Discussion and recommendations for 2008 WDO In-Kind ads.

The 2007 SLC/WDO ads were discussed. Members agreed that the ads size should be increased by reducing the number of ads from eight to five making the

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2008 ads 60% larger. Anne Oesinghaus volunteered to look for other suitable ads that might be used in 2008.

Environment Canada's poster "What Goes Up Must Come Down" poster was considered as a possible In-Kind ad for 2008. James Leon suggested that he check with Environment Canada for permission to use it and then he would contact the WDO to determine if this poster/ad is acceptable. He added that burning garbage pollutes and destroys recyclable materials including fibres and plastics.

d. Press Release/letter to NRT re dry-cell battery recycling by SLC and Fire Department and possible suggestions by SLC re expanding this recycling initiative.

James reported that the press release and photo had been sent to the NRT and it will be inserted in the near future. Members discussed this initiative and press release and agreed that it should be expanded to include Deep River. James was asked to look into this matter.

4. Business Arising from Previous Meetings.

a. Implementation of C of A Amendment re monitoring – Schedule "B" and savings for annual Landfill surveys.

James stated that the amended Schedule "B" requires fewer samples being gathered and analyzed so the cost of the quarterly monitoring events should be reduced. He had suggested that Robinson Consultants prepare a proposal for the required annual Landfill Site survey for each of four years and include the reduction in sample analysis amounts thus reducing the cost of the surveys. Members examined the quotes for the surveys for four years and agreed with these applications for cost savings.

b. Update on C of A amendment re tarp etc. daily covering.

James stated that a draft of the amendment had been bounced back and fourth a few times and he is satisfied with the current version. The final document should be completed and sent to us soon.

c. Discussion of future SLC involvement in NRT "The Greener Way" column and Letters to the editor.

Chair Waddell agreed that this column by Janet McNeill/North Renfrew Environmental Action is often very beneficial in SLC goals presentations. She suggested that SLC Members should get involved by occasionally writing a column, in whole or in part and continue sending letters with the three "R's" messages to the editor. Members agreed that ideas for the columns and letters and their preparation can be shared and edited by SLC Members.

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d. Results of garbage audit at Landfill Site and press release.

James reported that he and fifth Board Member, Gary McAnulty, had conducted the garbage audit on October 7th. The following press release was sent to the NRT and run in the October 17th edition:

“During a recent Board Meeting, the Board agreed to a request made by the North Renfrew Site Liaison Committee to conduct a waste audit on garbage arriving from both of our Towns. The purpose of the audit was to determine the rate of recycling by examining the contents of bags of garbage and separating the materials that are garbage that should be landfilled from the materials that should have been recycled using our blue box programs. Board Member Gary McAnulty and the Waste Manager Coordinator agreed to conduct this audit.

The first audit was conducted in 2004 by Councillor Hank van der Horn, Chairperson of the Board, and the Coordinator. At that time the audit revealed that garbage bags being brought to the Landfill Site to be landfilled contained about two-thirds by volume of materials that were not garbage but were recyclable materials that should have been recycled.

Random samples of the loads from the garbage trucks from both Towns were used during the audits.

The second audit conducted on October 6, 2007 painted a slightly brighter picture. This time the volumes were equal. This indicated that residents are becoming aware of the importance of recycling and its advantages to the environment and the economy. The actual message is that this change is just a step toward not landfilling any recyclable material. Residents are encouraged to recycle everything possible.

Two photos of the piles from the audit are attached. The pile on the left is the true garbage and the pile on the right is the recyclable material. Please accept this press release and one of the photos (your choice) for publication. Thank you on behalf of the Board and the Site Liaison committee.”

Susan Patterson suggested that several three-system recycling containers could be placed in strategic locations in the two Towns. Susan estimated that about six containers could be placed in Deep River and two or three in Laurentian Hills. The containers could be emptied by the blue box contractor and this should be included in the next contract.

Moved by: Susan Patterson
Seconded by: Anne Oesinghaus

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That the Board be asked to recommend that the two Towns add three-system recycling containers to strategic areas to increase recycling of materials that would otherwise be placed in garbage cans. Carried.

Susan added that she would look into availability and cost of the containers.

5. Other Business.

a. Discussions with OPG re “The Great Refrigerator Roundup”.

Fred Adams, the Board’s Vice Chair, had contacted James and informed him of the “The Great Refrigerator Roundup” information that had been enclosed with his recent hydro bill. He suggested the SLC should contact the Ontario Power Authority (OPA) and determine if they would take some of the units from our Site’s HHW Area. James consulted with the SLC and called and visited the OPA web site. Information about the Roundup was downloaded and he had several discussions with OPA’s Bill Wiley. Bill later agreed that when units that meet the Roundup criteria are received, they should be called to schedule a pickup. For a pickup to happen, 20 to 30 units in our area must be available including the units at the Landfill Site. An added bonus is that if there is room still available on their truck, they will take additional units. They will also provide amounts of refrigerant removed from our units for our Annual Status Report purposes. Everything that is recyclable including foam insulation and plastics are recycled by this OPA program.

SLC Members agreed that this is a worthwhile SLC initiative that should save money and assure the proper recycling of the units.

b. Summary of discussion with WDO’s Clayton Sampson re recycling.

James stated that he had had a request from the WDO’s Clayton Sampson, Northern Ontario Blue Box Technical Advisor, to visit and discuss recycling. James informed Clayton that the Board only has the authority to contract fibre recycling and other recyclables are contracted by the two Towns.

Members discussed possible WDO funding for SLC education programs for the three Rs. Susan Patterson suggested that Mackenzie High School be contacted re the status of recycling. Anne Oesinghaus noted that the SLC had contacted the High School earlier and was informed that a recycling program had been initiated.

Chair Waddell suggested that a portion of the 10 hours of public service required of students be used for SLC initiatives including litter cleanup. Members discussed ways that the SLC could be instrumental and decided that the SLC send a letter to the principle, Ms. Kinghorn, suggesting that SLC could become involved in recycling/waste diversion programs at the High School.

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Moved by: Susan Patterson
Seconded by: Anne Oesinghaus

That Chair Waddell prepare and send the suggested letter to Ms. Kinghorn and c.c. SLC Members. Carried.

- c. Update on motion to the Board re user-pay and/or clear bags recommendation.

James stated that this motion is on the Agenda for the November 26th Board Meeting. He gave Members a copy of an article in last Friday's The NEWS "LV council wants to cut the number of garbage bags".

The article was discussed and the Chair noted that LV Council is considering a three-bag limit. Members suggested that three bags are too many and one or two bags should be considered. James noted that Arnprior has a two bag limit and if a resident requires more, tags must be purchased from the Town. Members agreed that the maximum should be two bags for our Towns.

- d. Request for 2007 SLC Members to apply for 2008 Membership.

The 2007 SLC Members agreed to apply for 2008 Membership."

This completes the North Renfrew Site Liaison Committee's 2007 Annual Report.

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6.2 PLANNING FOR FUTURE WASTE DISPOSAL

During 2007, The Board did not undertake any planning with regard to future waste disposal capacity as the remaining life of the Baggs Road Site was expected to exceed twenty years. The estimate based on survey results and historic fill rates suggests that the Site will last another 23 years. Planning for future waste disposal should be addressed about ten years prior to closure of this Site. At that time, the Board will explore the various waste disposal options.

The life of the Landfill Site will depend on the success rate of future waste diversion including Construction and Demolition Waste, Blue Box Recycling and Composting of lawn and garden wastes. Assistance from the SLC will be beneficial.

6.3 2007 COMPLAINTS AND COMPLAINTS PROCEDURE

There were no complaints regarding the operations of the Baggs Road Landfill Site during 2007. Illegally dumped materials discovered near the Landfill Site were removed immediately by Site workers.

The operation of an electric fence around the area being landfilled has denied access to bears. When opened in 2002, the Site experienced bears digging nightly in the landfilled residential waste. This gave raise to large amounts of scattered and wind-blown litter. This electric fence has decreased litter in and from the Site.

Litter has been picked up at the Site and along the Access Road as required or every two weeks as a minimum, with the exception of winter months when deep snow conditions make walking and finding litter very difficult. After the snow melts the cleanup is addressed.

Private properties adjacent to the Landfill Site are inspected weekly and litter is removed when it is found, with permission of access from the property owner.

The Complaints Procedure is as follows:

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NORTH RENFREW LANDFILL OPERATIONS BOARD

Laurentian Hills Municipal Building
34465 Hwy 17, R.R. #1, Deep River, Ontario KOJ 1P0
Telephone: (613) 584-9194
Fax (613) 584-3285
Email: nrwmb@magma.ca

NORTH RENFREW LANDFILL SITE, BAGGS ROAD

COMPLAINTS PROCEDURE

April 28, 2003

1. All complaints regarding the operations of the landfill site will be directed to the Waste Management Coordinator/Operations Manager.
2. A complaint log will be maintained in which the name of the complainant as well as the date and nature of the complaint and the action taken will be recorded.
3. The Waste Management Coordinator/Operations Manager will respond to the complainant within ten working days of receiving the complaint with a written notice of action.
4. The Waste Management Coordinator/Operations Manager will report all complaints to the Chairperson of the North Renfrew Landfill Operations Board as soon as possible.
5. The Waste Management Coordinator/Operations Manager will report all complaints to the North Renfrew Landfill Operations Board at its regular meetings.
6. If the person making the complaint is not satisfied with the action taken, he/she may appeal to the North Renfrew Landfill Operations Board. If the person is still unsatisfied with the action taken, he/she may appeal to the Ministry of Environment and Energy.
7. The Board will review all complaints about the operations at the Landfill Site with the Site Liaison Committee twice annually.
8. This Complaints Procedure will be posted at the gate to the North Renfrew Landfill Site and at all municipal offices in the area served by the North Renfrew Landfill Site.
9. This Complaints Procedure will be published in a local newspaper.

Waste Management Coordinator James Leon 613-584-9194

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6.4 MOE INSPECTIONS AND CORRESPONDENCE

On June 16, 2005 Mr. Andrew Polley, the Ministry of the Environment's former Senior Environmental Officer of the Ottawa District conducted the first Site Inspection of the North Renfrew Landfill Site since the Site began operation on July 6, 2002. He recommended that a submission be made to the MOE to update and add to the C of A. A November 28, 2005 submission was made by Robinson Consultants on behalf of the Board. The submission included expanding the list of HHW materials to help keep these wastes from being landfilled. The Approved Amendment was received in August 2006.

The MOE's Senior Environmental Officer, Marc-Etienne Lesieur conducted a Site inspection on January 23, 2007. The cover letter and the Solid Non-Hazardous Waste Disposal Site Inspection Report and the Hazardous Waste Transfer Processing Inspection Report were received on February 8, 2007. In both Inspection Reports section 1.0 Introduction, Marc stated "A previous inspection (June 2005) performed by the Ministry has outlined non-compliance issues regarding the operation of the Site and a Voluntary Abatement Plan (VAP) was initiated to resolve the issues. In response to the VAP, the Board corresponded with the MOE several times outlining actions addressing the operational problems. The Ministry was satisfied with the actions taken by the Board."

The five parts of 4.0 Summary of Inspection Findings (Health/Environmental Impact) in the Waste Disposal Report stated that no problems were indicated. Section 5.0 Action(s) Required stated "None at this time."

Section 6.0 Other Inspection Findings stated "This Inspection Report contains issues which are underlined in the report which could potentially result in environmental compliance issues.

As such, the following actions are to be implemented by the Board. Results of the actions taken by the Board to address these issues must be included in the Annual Report to be provided to the Ministry no later than March 31, 2007 in accordance with Condition 55.

- As recommended in the 2005 Monitoring Report, resurvey for vertical control monitors requiring such action.
- Pursuant to Condition 12, install adequate posts clearly identifying the approved footprint.
- Pursuant to Condition 38, apply interim cover along the area of exposed waste near the tipping face.
- Include in the Annual Report a summary of the quantity of contaminated soil received at the Site along with a confirmation that TCLP analysis was received by the Board indicating the non-hazardous condition of the soil.

The Board is currently addressing these issues. The first one "resurvey vertical control of four bore hole monitors that do not yet have survey elevation is being acted on as follows: The Board's engineering consultant, Robinson Consultants' Frank

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Hendriksen, was informed that this problem would have to be solved. Bore Hole (BH) #s 5 I and 5 II will be surveyed for vertical control during the 2007 Site Survey. The surveyor had earlier been asked to survey these two BHs and the other BHs that were on Site Property but BH 5 I and 5 II were overlooked. The other BHs on Site were surveyed. The remaining two unsurveyed BHs are BH 8 and BH 9 are deep in the AECL swamps. They are difficult to survey as there are no survey lines cut to them. Robinson Consultants will address the surveys in 2008.

The adequate posts clearly identifying the approved footprint issue is being addressed. The existing posts are 2 x 2 wood, are not high enough if the snow gets deep and they require fresh paint. The Board's contractor replaced them with higher steel painted posts in the spring of 2007.

Interim cover was more than adequate in all areas except for a small area at the top of the tipping face. This area was immediately covered after the inspection. The Site contractor has assured the Board me that his workers will monitor and cover areas as required. The Coordinator will check the cover frequently.

Regarding the quantity and leachate extraction analysis (TCLP) under Ontario Regulation 347, during the inspection Marc requested the analysis for the contaminated soil hauled from a local property during December 2006 be faxed to him. The analysis results were faxed to him the following day. The total volume of soil was 524 cubic meters.

Included with the Inspection Reports, Marc Lesieur sent a copy of "PRINCIPLES OF SAMPLING AND ANALYSIS OF WASTE FOR TCLP UNDER ONTARIO REGULATION 347". The document was dated February, 2002.

During the January 23, 2007 Site Inspection, Marc Lesieur was asked if there was a small amount volume limit that could be accepted without an analysis. He was not aware of a small amount that could be accepted but he said that he would look into this and let us know.

After receiving the Inspection Reports, the Board has contacted both Towns and reminded them that contaminated soil must first be sampled and analyzed prior to the load(s) being taken to and accepted at the Baggs Road Landfill Site. In the future, results of the analysis will be included in the Annual Status Reports.

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7.0 RECOMMENDATIONS

It is recommended that Inspections, Reports and discussions with the former and the current Senior Environmental Officers be employed to ensure that the conditions of the C of A are respected. The site contractor was instructed to review the C of A, the D&O and the Operations Manual with his employees.

The Site Liaison Committee (SLC) was active by advertising and educating residents about the three Rs and following up earlier waste diversion efforts including composting of lawn and garden wastes. The SLC made recommendations to the Board during 2007 to enhance diversion and had several WDO In-Kind recycling ads placed in the local newspaper. The recommendations to the Board included requesting that the Towns consider measures to increase recycling such as garbage bag limits, using clear bags, pay per bag or tag and/or mandatory recycling by-laws.

During the 2007 Waste Diversion Week, the SLC distributed brochures and information sheets to the public. It is recommended that the 2008 SLC continue their efforts in educating the public about the Site and the three Rs.

Increased recycling and other forms of waste diversion should be encouraged to continue to meet the MOE's 60% waste diversion requirement in 2008. The life of the Landfill Site will depend on the success rate of future waste diversion including the diversion of Construction and Demolition Waste and Blue Box Recycling. Accepting Construction and Demolition Waste, when the Miller Road Site is filled, will likely decrease the waste diversion percentage to well below 60%. The Board will suggest ways to extend the life of the Miller Road Landfill Site which will in turn extend the life of the Baggs Road Site.

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8.0 LIMITATIONS AND USE OF REPORT

This Annual Status Report has been prepared by Robinson Consultants Inc. and the North Renfrew Landfill Operations Board. It was prepared with the benefit of the parties' professional judgement and experience.

This report has been prepared for the exclusive use of the North Renfrew Landfill Operations Board, the Town of Deep River and the Town of Laurentian Hills. Any use that a third party makes of this report, or any reliance on or decisions to be made on it, are the responsibility of such third parties. The participants that prepared this report accept no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Respectfully submitted by,

James W. Leon
Waste Management Coordinator
