



**Mackenzie Valley Land and Water Board**  
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## Staff Report

<b>Applicant:</b> City of Yellowknife	
<b>Location:</b> Yellowknife	<b>Application:</b> MV2009L3-0007
<b>Date Prepared:</b> February 2, 2015	<b>Meeting Date:</b> February 12, 2015
<b>Subject:</b> 2013 Biotreatment Pad Annual Report	

### 1. Purpose/Report Summary

The purpose of this Report is to present to the Mackenzie Valley Land and Water Board (the Board) the 2013 Biotreatment Pad Annual Report submitted by the City of Yellowknife (City).

### 2. Background

- May 31, 2010 – Water Licence (WL) MV2009L3-0007 issued for a period of 12 years;
- April 14, 2014 – 2013 Biotreatment Pad Annual Report received;
- May 5, 2014 – Biotreatment Pad Annual Report sent for review;
- July 8, 2014 – Reviewer comments due;
- July 24, 2014 – Proponent's response due;
- February 12, 2015 – Update presented to the Board; and
- February 29, 2020 – WL MV2009L3-0007 expires.

### 3. Discussion

The Biotreatment Pad Annual Report is not for Board approval; however, it is being presented as an update to the Board.

The operation of the City's Biotreatment Pad is regulated through the City's Type A WL MV2009L3-0007. The facility is located at the Solid Waste Disposal Facility (SWDF), just off of Hwy# 4 north of the City. The Biotreatment Pad accepts hydrocarbon-contaminated soil and water for treatment. Treated soil that meets criteria outlined in the WL is reused as

cover at the SWDF. Treated water meeting criteria is either reused at the Biotreatment Pad or discharged to land.

This Annual Report was filed in accordance with Part B, Item 3 and Schedule 1, Item 1 of the WL; these are included in Appendix A of this Staff Report.

#### **4. Comments**

The Biotreatment Pad Annual Report was produced by Biogénie, the City's operations contractor for the Biotreatment Pad.

#### **5. Review Comments**

No comment letters were received from Environment and Natural Resources (ENR) and Environment Canada (EC).

#### **6. Conclusion**

A breach of the lagoon liner was discovered during a liner inspection in 2012 and was temporarily repaired. Both the 2012 and 2013 Annual Reports recommend replacement of the liner, with the 2013 Annual Report emphasizing that the liner should be replaced soon to avoid environmental concerns.

#### **7. Recommendation**

The Annual Report is not for Board approval; however, the Board may wish to follow up with the City based on the information provided in the Annual Report.

Board staff has prepared a draft response letter. In the letter, the Board could note the recommendation to replace the lagoon liner that was made in the 2012 and 2013 Biotreatment Pad Annual Reports, and could encourage the City to follow the recommendation in a timely manner.

#### **8. Attachments**

- [2013 Biotreatment Pad Annual Report](#);
- Appendix A – Water Licence conditions pertaining to the Annual Report; and
- Draft Board response letter.

Respectfully submitted,



Miki Ehrlich  
Regulatory Officer

## **Appendix A**

### **Water Licence Conditions pertaining to the Annual Report**

B.3 The Licensee shall file an annual report with the Board not later than March 31 of the year following the calendar year reported which shall contain the information as set out in Schedule 1, Item 1, included in this Licence.

#### **Schedule 1 – General Conditions**

1. The Annual Report referred to in Part B, item 3 shall include, but not necessarily be limited to, the following:
  - a) The monthly and annual quantities in cubic metres of fresh Water obtained from all sources;
  - b) The monthly and annual quantities in cubic metres of each and all Waste discharged to the Waste Disposal Facilities;
  - c) The monthly and annual quantities of Waste removed from the Waste Disposal Facilities;
  - d) A summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures;
  - e) Tabular summaries of all data generated under the Surveillance Network Program;
  - f) A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;
  - g) A summary of any studies requested by the Board that relate to Waste disposal, Water use or reclamation, and a brief description of any future studies planned;
  - h) A list of unauthorized discharges;
  - i) Comparison of Waste volumes accepted to the remaining storage volume at the Waste Disposal Facilities;
  - j) The monthly and annual quantities of organics received and quantity of compost produced and/or distributed from the compost facility;
  - k) Record of Biotreatment Pad containment pond liner inspections;
  - l) Updates or revisions to the approved Stormwater Management Plan;
  - m) Updates or revisions to the approved Sewage Disposal Facilities Operation and Maintenance Plan;
  - n) Updates or revisions to the approved Spill Contingency Plan;
  - o) Updates or revisions to the approved Solid Waste Disposal Facilities Operation and Maintenance Plan;
  - p) Updates or revisions to the approved Biotreatment Pad Operation and Maintenance Plan;

- q) Updates or revisions to the approved Hazardous Waste Management Plan;
- r) Tabular summaries of all data generated from the Stormwater Effluent Monitoring Program;
- s) At each of the seven sampling locations for stormwater, provide trends of biological and heavy metal data collected in the Stormwater Effluent Monitoring Program (short term) and Surveillance Network Program monitoring station (long term);
- t) Comparison of the Surveillance Network Program data to Water Licence regulated limits and sampling and analysis requirements;
- u) The inclusion of all formal written correspondence between the Inspector and Licensee;
- v) A summary of efforts to monitor, manage, treat and dispose of sewage sludge at the Sewage Disposal Facilities; and
- w) Any other details on Water use or Waste disposal requested by the Board by November 1 of the year being reported.