



Brooks Road Landfill Public Liaison Committee Virtual Meeting

June 1, 2022



Brooks Road Landfill Site



Overview

- COVID-19
- Ground Rules and PLC Objectives
- Site Update
- MECP Update
- Discussion of Landfill Life Expectancy
- Site Approvals
- Other Business





COVID-19

- Due to the situation regarding COVID-19, and restrictions on public events and gatherings, the first 2022 PLC meeting was carried out as a virtual meeting.
- On March 14, all mandatory vaccine policies came to an end and on March 21st all masking restrictions came to an end with the exception of health care facilities and public transit. With the health and safety of all public members in mind and in consultation with PLC Members, the June PLC Meeting is taking place in person.
- The format of the PLC meetings (virtual or in-person) for the remainder of 2022 will be determined in discussion with PLC Members.
- The goal is to continue to provide information to the PLC and the broader community. This presentation will be posted on the Brooks Road Environmental website for those who are unable to attend today's in-person meeting, and as always, members of the PLC and public are able to contact the Brooks Road team with any specific questions/concerns.





Ground Rules/ Objectives of Today's Meeting

Take the opportunity to be heard while respecting the viewpoints of others

Gain a deeper understanding of perspectives and opinions

Leave with a little more information than what you came in with

Ensure constructive dialogue that remains on topic

Begin and end on time



Purpose and Objectives of PLC

- PLC is a condition under the Environmental Compliance Approval (ECA)
- Function in accordance with the Terms of Reference for the PLC, as amended

“The PLC shall serve as a forum for dissemination, consultation, review and exchange of information regarding the operation of the landfill Site, including environmental monitoring, maintenance, complaint resolution, and new approvals or amendments to existing approvals related to the operation of this landfill Site.”

- PLC members and their roles
- PLC Meetings are open to the public and shall be held in public
- The PLC may hear deputations from any member of the public or interested agency pertaining to the Site and its operation



Review of Previous Minutes

- The March 2022 PLC Meeting was completed as a virtual meeting.
- The March 2022 meeting minutes were posted to the Brooks Road Environmental website
- Members of the PLC and MECP provided comments and edits to the Minutes, which will be re-circulated and re-posted to the website.





Site Update - BRE



Brooks Road Landfill Site



Site Update

Odour Mitigation

- Odour control measures - misting system operating and odour control granules are utilized if required.
- Staff are available on-site 7-days a week when required

Leachate Treatment Plant

- Hauling of treated effluent to the Haldimand County treatment plant continues
- Additional hauling of raw leachate to a licenced treatment plant





Odour Complaints



1
Complaints



1
Complaints



0
Complaints

**Complaint
Lines**

Corporate: 416-966-1100

Site Specific: (888) 402-7368

On-site Office: 416-389-8876

MECP Spills Action: (800) 268-6060





Hauling and Leachate Level Update

- Effluent and Leachate Summary for March to May:

Month	Volume	Leachate Elevation
March	4,409,020 L	193.4 m
April	808,780 L	193.4 m
May	1,016,330L	193.5m
Total	6,234,130 L	

- Target elevation for 2022 was determined to be 193.8m based on date related Schedule 'C' of the ECA. The target elevation was met on March 21, 2022, with a leachate level measurement of 193.3 m.
- Target elevation for 2023 is estimated to ~192.1m. Annual survey will determine the required leachate elevation.





Leachate Level Reduction Strategy

- **Increase treated effluent off-site haulage**
 - On-going
- **Work toward an ECA (sewage works) amendment application to modify the treatment system filtration technology to increase reliability and effluent production**
 - Pilot plant for sand filtration has been approved. Equipment has arrived and installation will commence shortly.
- **Continue monitoring membrane performance**
 - Intensive membrane cleaning is underway.
- **Increase interim cover installation to shed water to perimeter ditching to reduce further infiltration**
 - Interim cover installation continued on west side of landfill



Discussion of Landfill Life Expectancy - BRE





Landfill Life Expectancy

- 180,553 m³ capacity remaining based on annual survey (Dec 17, 2021)
- ~145,000 m³ capacity remaining based on waste received from 2022
- Remaining capacity varies based on waste type, compaction, tonnage received, and consolidation of existing waste within the landfill.
 - Based on these factors, the estimated remaining landfill life expectancy is ~ 1-2 years.





MECP Update



Brooks Road Landfill Site



Site Approvals – EA & ECA



Brooks Road Landfill Site



Site Approvals – Additional Capacity

- Waste generation in Ontario is estimated between 12 – 15 million tonnes annually.
- Recent reporting provided by the Ontario Waste Management Association (OWMA) determined based on waste disposal volumes/ weights from 2017 to 2019, coupled with additional approved capacity (but not yet built) shows that the province has approximately 144,476,000 tonnes, which translates to roughly 12 years of landfill capacity (depleted in 2034)
- There is a need for additional capacity in Ontario. Bill 197 has created issues with respect to new landfills resulting in a defacto policy for expansions to existing sites
- With this in mind and current customer needs, BRE will be seeking approval to increase the current approved capacity by 100,000 m³





Site Approvals – EA

- BRE are set to embark on an Environmental Screening process to add additional capacity by 100,000 m³. The approved footprint is expected to change as a result of the increase capacity
- The Environmental Screening will be conducted in accordance with the planning and design process outlined in Ontario's "*Guide to Environmental Assessment Requirements for Waste Management Projects*".
- The results of the Study will be documented in an Environmental Screening Report, which will be released for review to the public, Indigenous communities, and government agencies.
- Consultation activities are planned throughout the Screening Process and will be advertised via direct and/or electronic mail, in the local newspaper, and on the project website (www.brenvironmental.com)



Other Business/ Next Meeting

- The next PLC Meeting will be held on:
 - Wednesday November 2, 2022
- The PLC will be contacted in advance with respect to format (i.e. virtual or in-person) for the next PLC Meeting in light of COVID-19
- Today's presentation along with the meeting minutes will be posted on the Brooks Road Environmental website

