



Brooks Road Landfill Public Liaison Committee In-Person Meeting

November 1, 2023



Brooks Road Landfill Site



Overview

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





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 June 2023 meeting minutes and presentation were posted to the Brooks Road Environmental website.
- Question/ Comments on Draft June 2023 Meeting Minutes?





Site Update - BRE





Site Update

Leachate and Effluent Hauling

- Hauling of treated effluent to the Haldimand County treatment plant continues
- Additional hauling of raw leachate to a licenced treatment plant if needed
- Batch Discharge of treated effluent to the roadside ditch has resumed

Leachate Treatment Plant Maintenance

- A new set of membranes has been ordered. Installation is expected before the end of the year.
- Leachate collection pipe flushing and inspection is scheduled for November.

Leachate treatment Plant ECA Amendment

- Waiting on MECP comments to take next step.





Odour Complaints Summary



0
Complaints



0
Complaints



0
Complaints



0
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 June to October 2023:

Month	Volume (L)	Leachate Elevation (m)
June 2023	626,800	193.8
July 2023	693,000	195.1
August 2023	969,330	195.9
September 2023	2,118,000	194.4
October 2023	1,936,000	192.5
Total	6,343,130	-





Schedule "C" from ECA: target leachate elevation by date (highlighted in blue)

The following Schedule "C" forms part of this Approval

Schedule "C"

Table C1: Target leachate elevations to reach leachate elevation 191 m AMSL based on the date of March 27, 2020.

Date	Required Leachate Elevation (m AMSL)	Estimated Leachate Volume in Landfill (m ³)	Volume Removed in Excess of Generation (m ³)	Forecasted Leachate Generation Rate (m ³ /day)	LTS Discharge to Ditch (m ³ /day)	Required Average Excess Leachate Removal (m ³ /day)
March 27, 2020	198.5	40,000	-	44	45	0
March 27, 2021	196	28,000	12,000	44	45	32
March 27, 2022	193.8	18,000	10,000	42	45	24
March 27, 2023	192.1	10,000	8,000	44	45	21
March 27, 2024	191.3	4,000	6,000	45	45	16
March 27, 2025	191	2,000	2,000	49	45	9.5
March 27, 2026	191	2,000	0	33	45	0



Schedule "D" from ECA: target leachate elevation by capacity (estimated target elevation in blue based on tonnage and volume estimates)

The following Schedule "D" forms part of this Approval

Schedule "D"

Table D1: Capacity-Based Target Leachate Elevations

Estimated Landfilled Volume (m ³)	Required Leachate Elevation (m AMSL)
680,000	197.9
710,000	197.4
740,000	196.8
770,000	196.2
800,000	195.7
830,000	195.1
860,000	194.5
890,000	193.9
920,000	193.4
950,000	192.8
980,000	192.2
1,010,000	191.7
1,040,000	191.1
1,045,065	191.0



Landfill Life Expectancy

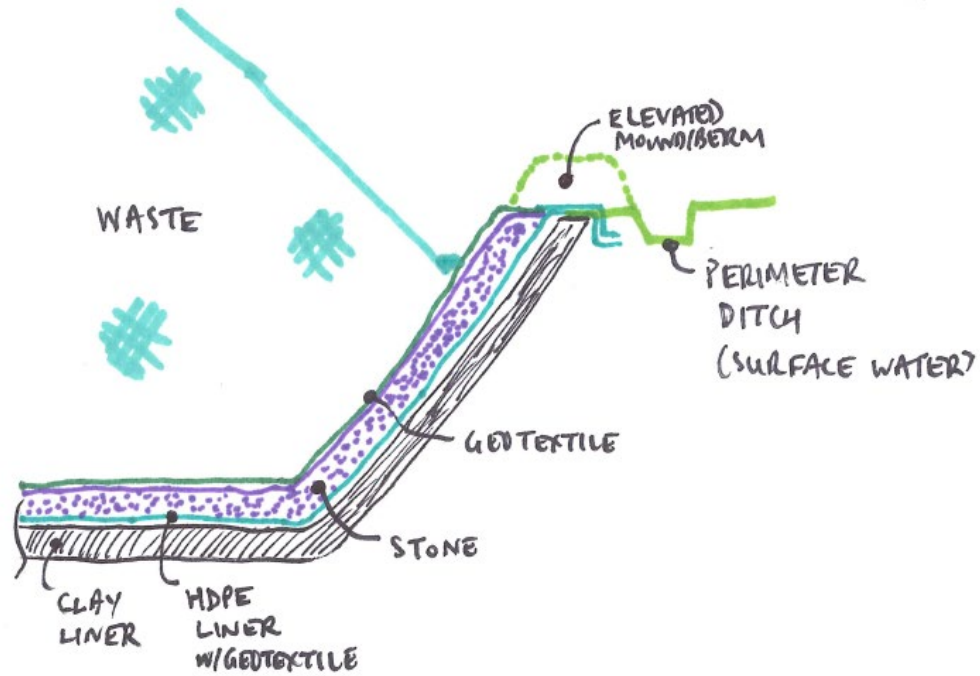
- ~100,000 m³ capacity remaining based on annual survey (Dec 20, 2022)
- Survey scheduled for December 2023 for capacity survey
- Remaining capacity varies based on waste type, compaction, tonnage received, and consolidation of existing waste within the landfill.
 - Based on these factors, and tonnage received since December 2022, the estimated average remaining landfill life expectancy is ~ 4-6 months.





Waste Filling Detail

FIGURE 1



BROOKS ROAD LANDFILL
LINER AND WASTE DETAIL

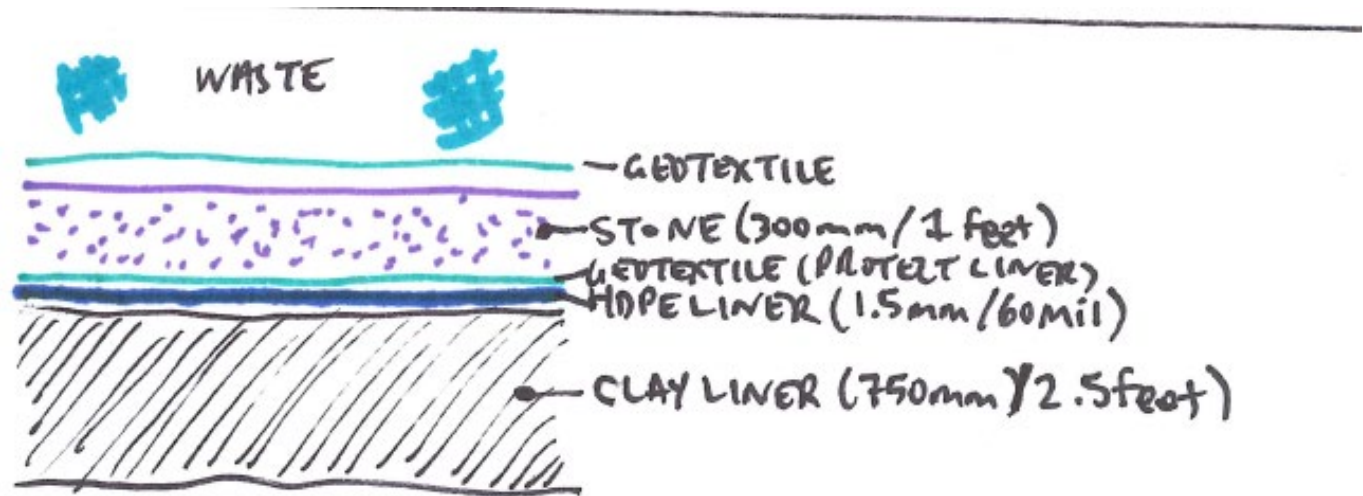
OCTOBER 2023





Landfill Cell Liner Detail

FIGURE 2



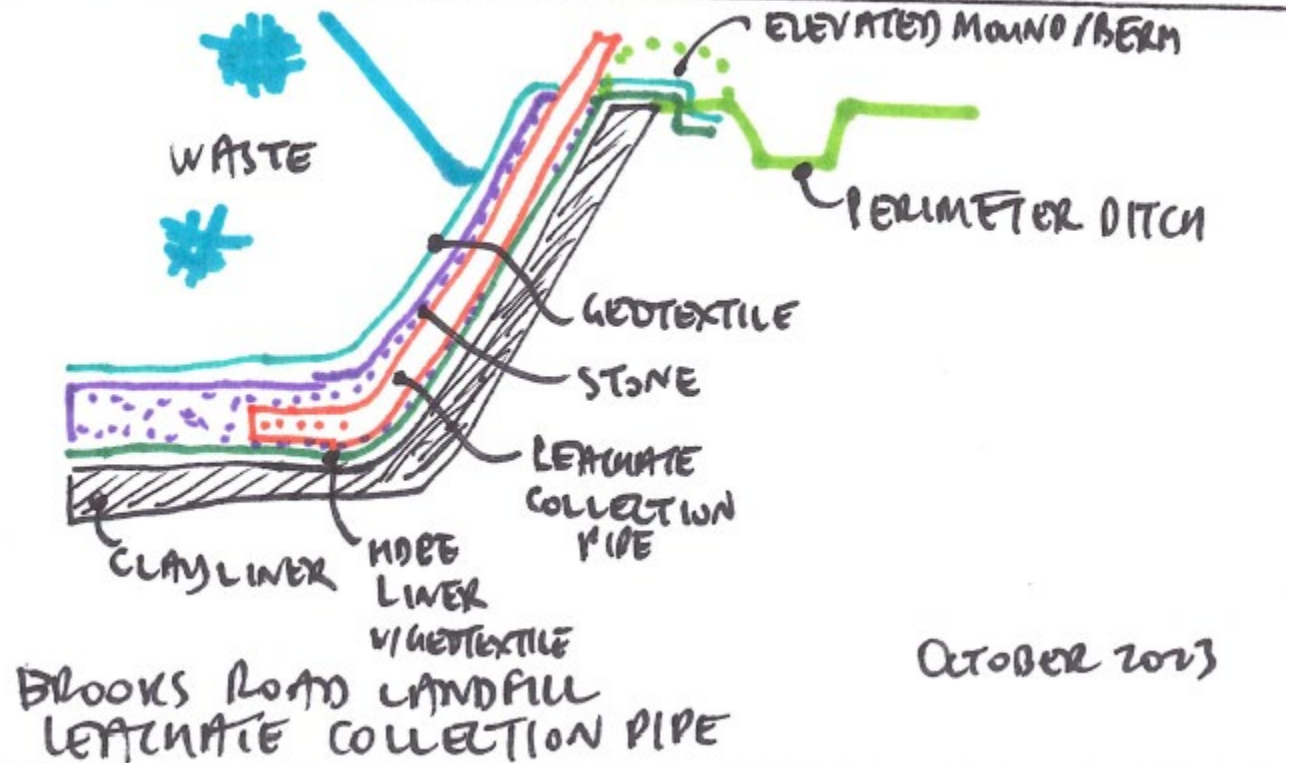
BROOKS ROAD LANDFILL
LINER DETAIL

OCTOBER 2023



Landfill Cell Leachate Collection Pipe Detail

FIGURE 3





MECP Update



Brooks Road Landfill Site



Site Approvals – EA & ECA



Brooks Road Landfill Site



Site Approvals – EA

- BRE are in the middle of an Environmental Screening process to add additional capacity by 219,400 m³. This capacity increase is a change from the previously proposed increase of 100,000 cubic metres due to a change in O. Reg 101/07. The approved footprint is expected to change as a result of the increase capacity
- The Environmental Screening is being 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 were carried out for the Screening Process including Public Open House #1 (occurred in late June 2022) and Open House #2 (occurred on October 24, 2023).



Other Business/ Next Meeting

- The proposed PLC Meetings for 2024 are as follows:
 - Wednesday March 6, 2024
 - Wednesday June 5, 2024
 - Wednesday November 6, 2024
- Today's presentation along with the meeting minutes will be posted on the Brooks Road Environmental website

