Township of Hornepayne

Landfill Expansion Environmental Screening Process

Public Information Centre
April 25, 2023

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Welcome!

- Please sign in and take a comment sheet.
- The purpose of this Open House is to:
  - Provide an update of the study to the public.
  - Present the preliminary design concept for the landfill expansion.
  - Seek your input and comments.
- If you have questions, our team members are available to discuss the project with you.
- Please drop off your comment sheets before you leave. You can also e-mail your comments to the project team members or mail your comment sheet to the municipal office by **Wednesday, May 10, 2023**.

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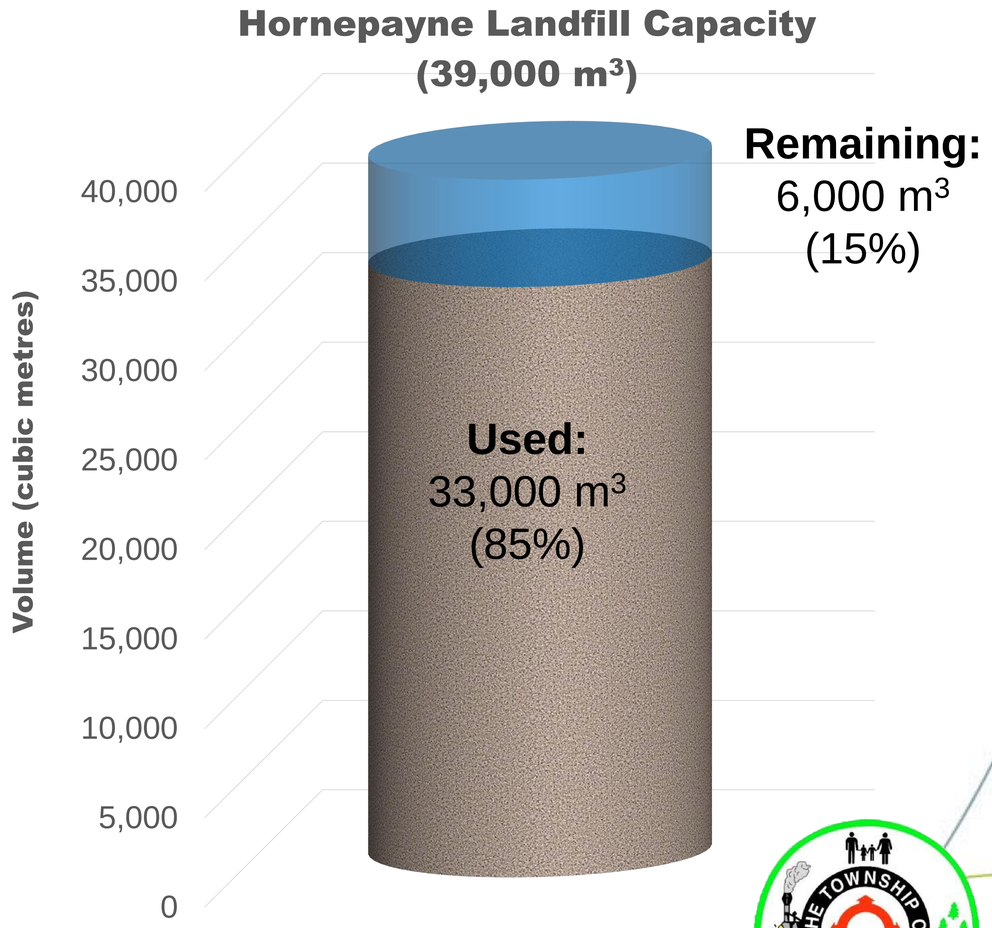
Project Background (1)

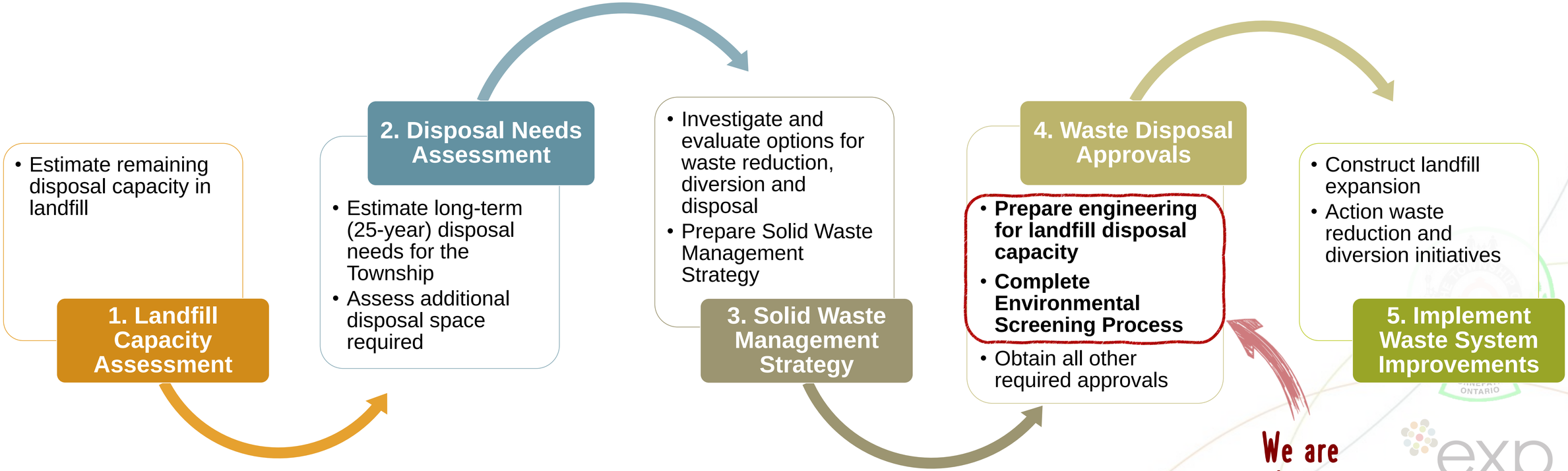
- Hornepayne's landfill was constructed in 2001, with a capacity for 39,000 m^3 of landfill waste*.
- In 2021, it was determined that the landfill had about 6,000 m^3 of disposal capacity remaining.
- Hornepayne's annual disposal rate is about 1,900 m^3 per year (after compaction in the landfill).
- Based on current disposal rates, the landfill will reach capacity in 2025.
- The Township is planning for at least 25 years of disposal capacity (i.e., a 25-year planning horizon).
- To achieve this planning horizon, the Township will need an additional 47,500 m^3 of disposal capacity.



* This includes both garbage plus landfill cover. Landfill cover is material such as soil that is used to cover the waste placed in the landfill. Landfill cover is needed to contain odours, discourage pests, reduce blown litter, and reduce water infiltration.

Project Background (2)

- In 2021, the Township began developing its Long-Range Waste Management Plan, which includes waste diversion and disposal.
- A landfill capacity assessment was completed that concluded the landfill had three or four years of disposal capacity remaining.
- A disposal needs assessment was then completed, which calculated the Township requires at least 47,500 m^3 of disposal capacity over the next 25 years.
- In 2022, a Solid Waste Management Strategy was completed that recommended:
  - Expansion of the existing landfill & relocation of the waste transfer station to the landfill site.
  - Implementation of household organics collection and composting.
  - Clear bag garbage collection.
- Preliminary design for the landfill expansion was initiated and determined the landfill could be expanded by about 59,000 m^3.
- The Environmental Screening Process is now underway.



Environmental Screening Process (1)

- The Environmental Assessment process for solid waste management projects is legislated by the *Waste Management Projects Regulation (O.Reg.101/07)* under Ontario's *Environmental Assessment Act.*

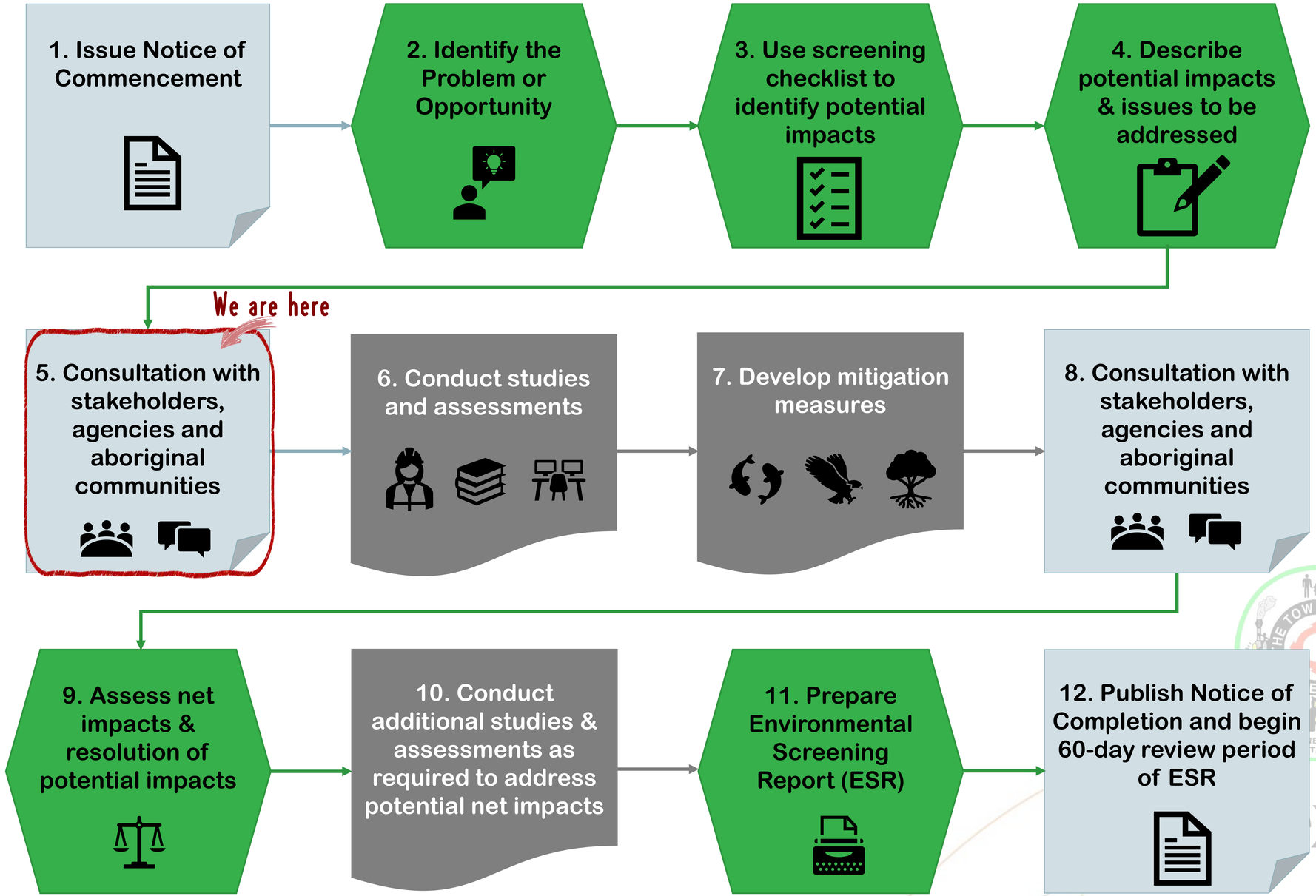
- *O.Reg.101/07* identifies what type and size of waste management projects must go through an Individual Environmental Assessment process or an Environmental Screening Process.

The Hornepayne Landfill Expansion falls under the **Environmental Screening Process** because:

- The existing landfill site has a current capacity of less than 40,000 m^3.
- It is changing to become a landfill site that is not more than 100,000 m^3.
- The change would add 40,000 m^3 or more but not more than 100,000 m^3 to the total waste disposal volume.

Environmental Screening Process (2)

- An overview of the Environmental Screening Process is illustrated (right).
- The steps have been categorized as:
  - Consultation.
  - Assessment.
  - Studies.
- If there is no approved request to elevate the project to an Individual EA, then the project may obtain any other required approvals and proceed.



Problem and Opportunity Identification

The Problem

- The Township only has approximately 6,000 m^3 of disposal capacity left in its landfill site.
- The Township needs at least 47,500 m^3 of additional disposal capacity over the next 25 years.

The Opportunity

- Undertaking a landfill expansion provides an opportunity to complete additional works to optimize the Township's waste management programs. This will help to increase waste diversion and improve the cost-effectiveness of waste operations.
- Preliminary design indicates that the existing landfill site can provide enough disposal capacity for beyond the planning horizon.

The Project

- **Expand the Township's existing landfill site to provide enough disposal capacity for the Township to go beyond its 25-year planning horizon.**
- **Build a new Waste Transfer Station / Drop-off site at the existing landfill site.**

Screening Criteria Checklist & Results

- An environmental screening checklist is used to identify whether certain potential environmental effects may be expected.
- The checklist considers many different types of criteria.
- The results of the checklist help guide what studies are needed during the design and engineering to mitigate these potential effects.
- Key results and findings from the screening are summarized below, based on the categories of criteria considered.

Surface and Ground Water

- As with any landfill activity, there is the potential for negative effects on surface and ground water.
- The landfill expansion design will include mitigation measures to address these potential negative effects.

Socio-Economic

- No negative socio-economic effects are anticipated.
- No negative effects to the Municipality's local economy (e.g., businesses and institutions, recreation, tourism, etc) are expected.

Natural Environment

- There are some trees on the property that would be impacted by the expansion.
- There are no woodlands, designated wetlands or significant natural areas near the expansion area.

Municipal Resources & Infrastructure

- No negative effects on the Municipality's resources or infrastructure are expected.
- The landfill expansion is taking place at the existing landfill site.

Heritage and Culture

- There are no archaeological sites, heritage buildings, structures or landscapes of cultural significance near the site.

Land Uses

- Because the proposed expansion would take place on an existing landfill site, no negative effects to existing surrounding land uses are expected.
- The proposed expansion is not inconsistent to any municipal, provincial or federal land use policies.

Air and Noise

- Landfills can create odour and air quality impacts due to the release of greenhouse gases and use of heavy equipment.
- No receptors or uses sensitive to noise, dust and odours are located near the airport.

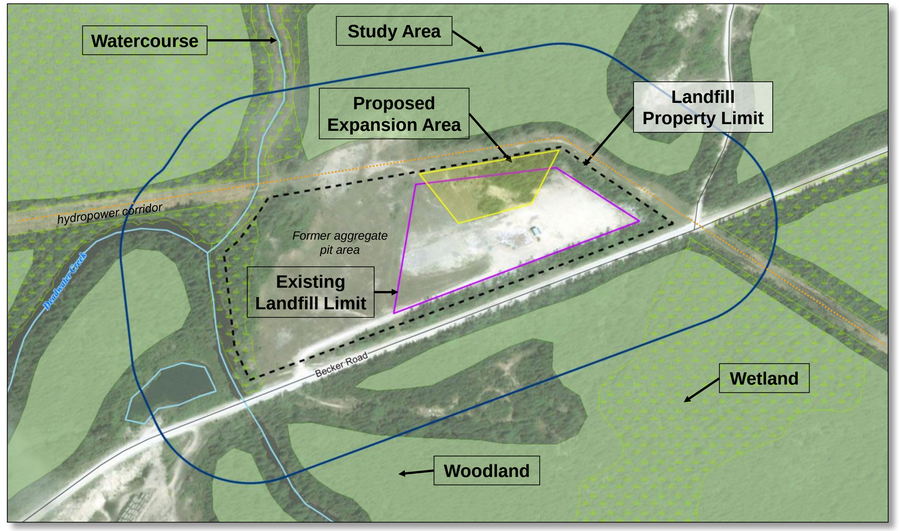
Aboriginal

- No negative effects on land, resources, traditional activities or other interests of Aboriginal communities is expected, as expansion is taking place on the existing landfill site.

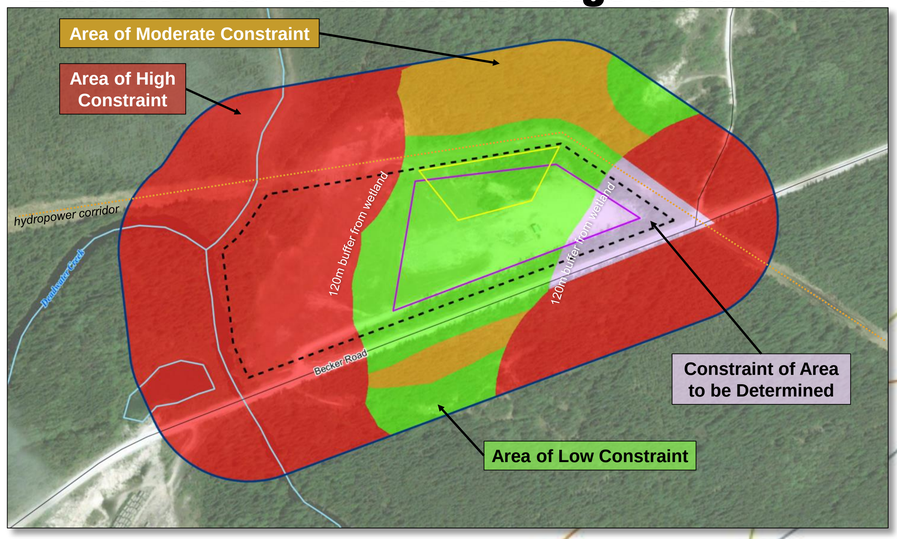
Natural Heritage Study

- A desktop review was undertaken to identify natural heritage (i.e., environmental) constraints at and around the landfill site.
- Key natural heritage features include wetlands west of the landfill, which are part of the Deadwater Creek riparian corridor. Wetlands are also located east of the landfill site but outside of the landfill property limits.
- Woodlands are located to the north and south of the landfill site, but they are beyond the hydropower corridor to the north and Becker Road to the south.
- Based on a 120m buffer from the wetlands, the proposed landfill expansion area does not extend into areas of high or moderate constraint. However, southeast corner of the existing landfill is located within the 120m buffer of the wetlands to the east.
- Natural Heritage review identified potential for Species at Risk and Species of Conservation Concern within the study area; however, these species would reside in the habitats situated outside of the landfill property (e.g., woodland and swamp areas, watercourses).
- Landfill site design would mitigate potential impacts to natural features beyond the landfill property.

Landfill Site – Ecological Characterization



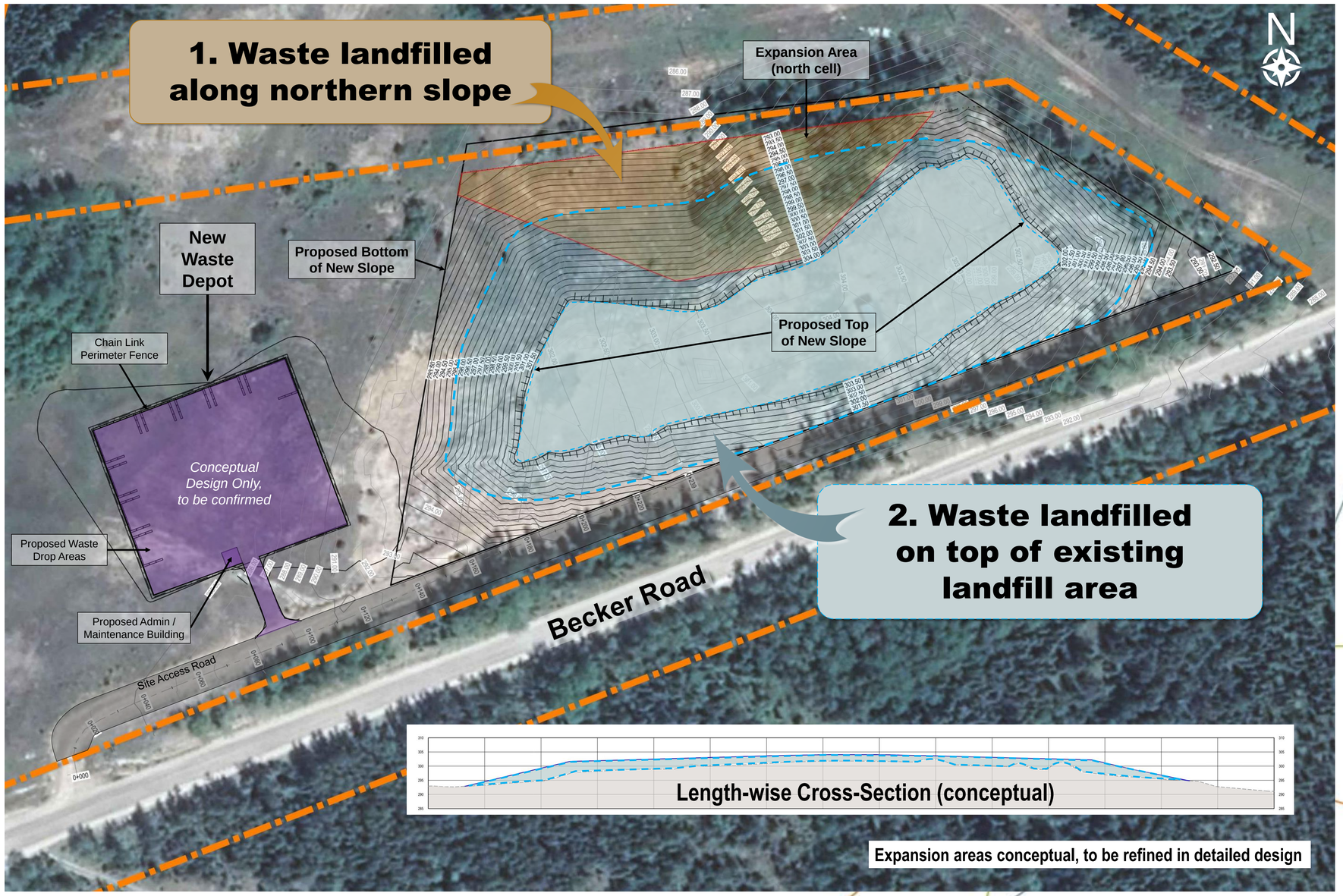
Landfill Site – Natural Heritage Constraints



Landfill Site - Proposed Expansion

- Proposed expansion would add up to 59,000 m^3 to site's existing capacity.
- Added capacity would be completed in two parts:
    1. Expansion northward, using space along northern slope.
    2. Expansion upward, adding a layer of waste to top of existing landfill site.
- Proposed expansion would provide enough disposal capacity for about 30 years.
- Proposed expansion will also include relocation of waste depot to landfill site.

Landfill Site Waste Disposal Areas – Proposed Expansion



Next Steps

1. **Review** comments from Public Open House.

REVIEW

2. **Update** the preliminary design concepts as required based on the feedback received.

UPDATE

3. **Complete** any additional required studies.

COMPLETE

4. **Develop** mitigation measures for potential impacts.

DEVELOP

5. Undertake additional **consultation** with stakeholders and agencies.

CONSULT

6. **Prepare and circulate** the Environmental Screening Report.

CIRCULATE

7. Provide **submission** for Ministry approval.

SUBMIT

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We Want to Hear from You!

- Please take a comment sheet to fill in now or send in by **Wednesday, May 10, 2023.**
- To e-mail or mail us your comments:

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