

Legal Description
PART OF LOTS 18, 19 and 20
CONCESSION 1
(Geographic Township of Puslinch)
TOWNSHIP OF PUSLINCH
COUNTY OF WELLINGTON

Boundary of Area to be Licensed

Additional Lands Owned by Applicant

Existing Fence

Public Road - Paved

Public Road - Gravel

Private Laneway

Existing Access

Hydro Pole

Provincially Significant Wetland

Unevaluated Wetland

Groundwater Monitor

Surface Water Monitor

Cross Sections

Limit of Excavation

Contour with Elevation

Existing Spot Height Elevation

Building/Structure

Existing Vegetation

Direction of Surface Drainage

Drainage Feature

Parcel Fabric

Archaeological Site

Floodplain Extent

WSP 2021 and 2025

Site Plan Amendments			

No.	Date	Description	By
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MHBC

PLANNING
URBAN DESIGN
& LANDSCAPE
ARCHITECTURE

200-540 BINGEMANS CENTRE DR. KITCHENER, ON. N2B 3K9 | P: 519.576.3650 | WWW.MHBCPLAN.COM

MNR Approval Stamp

Stamp

Applicant

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Andreeanne Simard

Director of Lands, Resources and Environment
Votorantim Cimentos North America (VCNA)

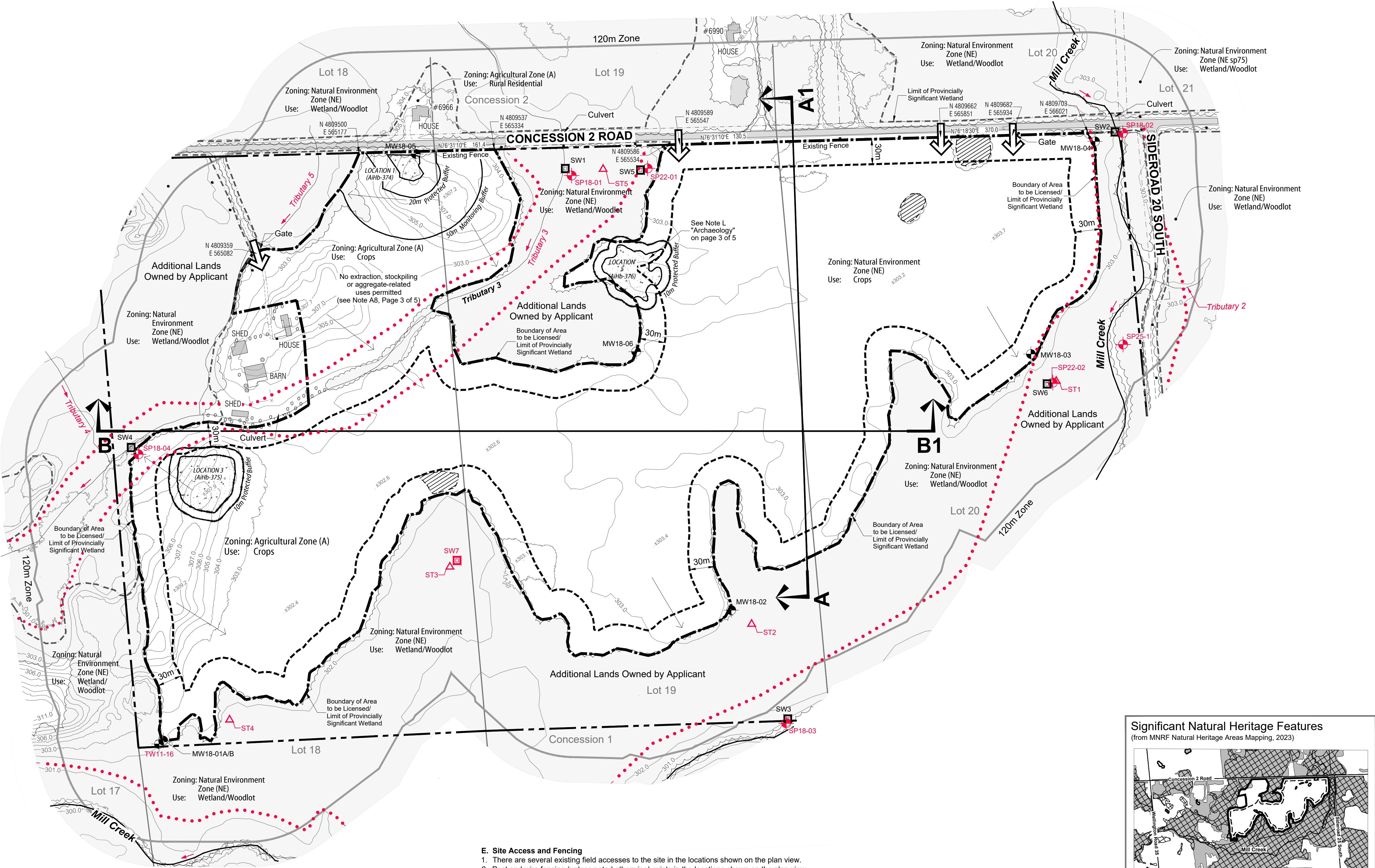
Project

ARA Licence Reference No.	Pre-approval review:	
	Revs. to address Agency and Public comments - Nov 2025	
	For application submission - November 2023	
Plan Scale 1:2,500 (Arch D)	Plot Scale	1:2.5 [1mm = 2.5 units] MODEL
<div><div>SCALE</div><div><div>0</div><div>25</div><div>50</div><div>100</div></div><div>METRES</div></div>	Drawn By	D. G. S.
	Checked By	N. D.
		File No.

File Name

Drawing No.

K:\Y321AB- CBM Aberfoyle South Pit Expansion\A\CBM Aberfoyle South Lake Pit Exfeplan 1of5 November2025 Agency and Public Comments.dwg



Notes

- A. General**
- This site plan is prepared under the Aggregate Resources Act (ARA) for a Class A licence for a pit below the ground water table and follows the Aggregate Resources of Ontario: Site Plan Standards August 2020, specifically Existing Features for all sites (Numbers 1-26 in the standards).
 - Area Calculations:
Licence Area: 44.8 hectares (110 acres)
Limit of Extraction: 27.6 hectares (67 acres)
 - All measurements shown are in metres unless specified otherwise.
- B. References**
- Topographic information compiled by GeoOptic (a division of Aeon Egmond Ltd.) with supplementary information from the Ontario Digital Terrain Model (contains information licensed under the Open Government Licence - Ontario). Data from GeoOptic was produced from aerial photography that was flown on June 4, 2021. Mapping is produced in real world scale and coordinates (NAD83 UTM Zone 17N). Contour interval is 1m. All elevations are geodetic (CGVD2013 hi2).
 - Plan of Survey prepared by Delph & Jenkins North Ltd. (2018).
 - The subject lands are zoned Agricultural (A) and Natural Environment (NE) and subject to an Environmental Protection Overlay in the Township of Puslinch Comprehensive Zoning By-law 2018-023 [April 2018 and Revised January 2020].
 - Ontario GeoHub © King's Printer for Ontario, 2023.
 - Grand River Conservation Authority (GRCA) for adjacent wetlands and WSP for floodline extent and field verified wetlands.
 - Land use information compiled from 2021 imagery, site visits and client input.

C. Drainage

- Surface drainage on and within 120 metres of the licence boundary is by overland flow in the directions shown by arrows on the plan view or by infiltration.

D. Groundwater

- Based on the available groundwater elevation data, the maximum predicted water table on the site is 301.91 metres asl in the western edge of the extraction area (as measured at SP18-04) to 304.33 masl in the northern portion of the site (as measured at MW18-04). The water table slopes downward moving from east to west across the site.

E. Site Access and Fencing

- There are several existing field accesses to the site in the locations shown on the plan view.
- Post and wire fencing (unless noted otherwise) exists in the locations shown on the plan view.

F. Aggregate Related Site Features

- There are no existing aggregate operations or features on-site such as processing areas with stationary or portable equipment, stockpiles, recyclable materials, scrap, haul roads, fuel storage, berms or excavation faces.

G. Significant Natural Features

- On-site: fish habitat (Tributary 3), unevaluated wetlands
- Off-site within 120m: Mill Creek-Puslinch Provincially Significant Wetland, significant woodlands, endangered and threatened species habitat (little brown myotis, northern myotis, eastern small-footed myotis, tri-coloured bat and black ash), fish habitat and significant wildlife habitat.

H. Cross Sections

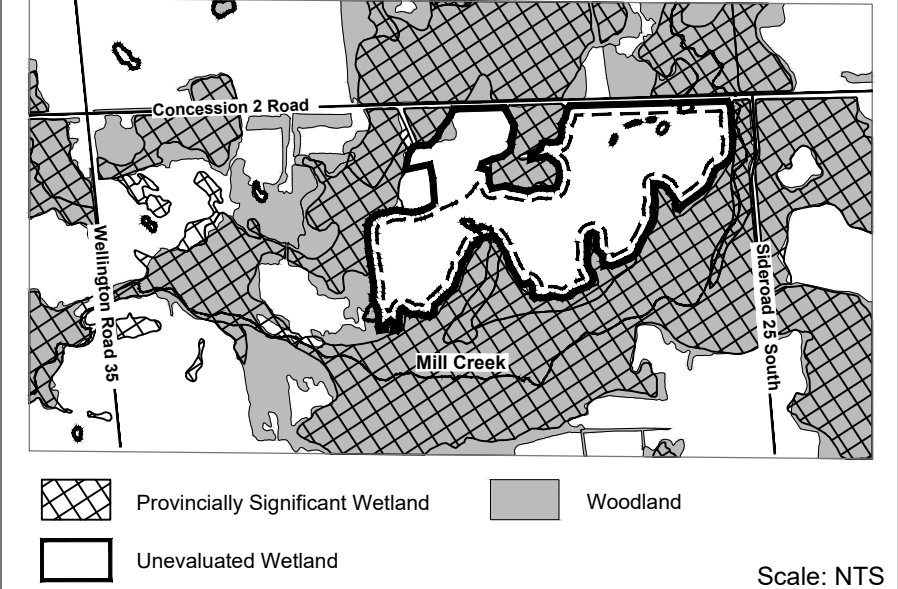
- As shown on this page. Detailed sections are shown on page 5 of 5.
- Cross section locations are identified on the plan view for each drawing.

I. Report References

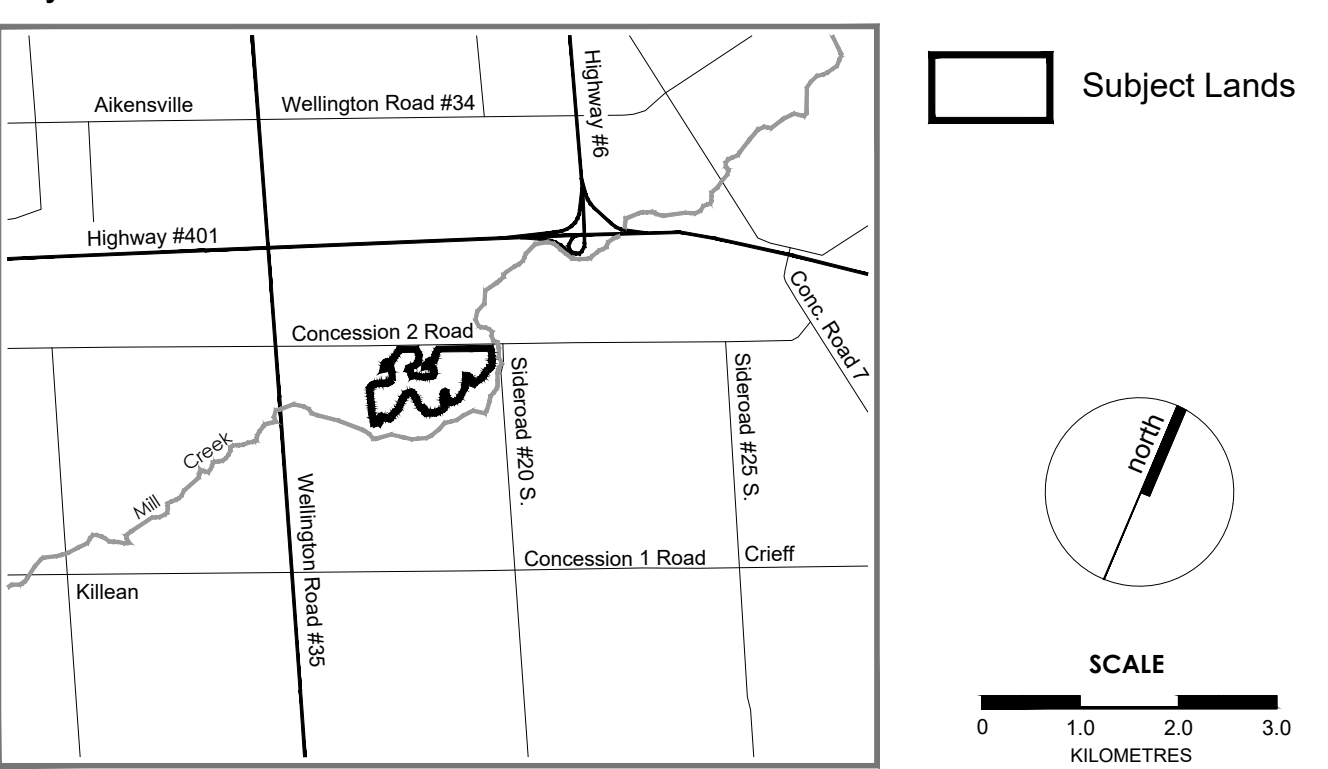
- Noise: "Noise Impact Assessment, Aberfoyle Pit Expansion" November 2023 (Source: WSP)
- Natural Environment: "Natural Environment Report, Proposed Aberfoyle South Pit Expansion" November 2023 (Source: WSP)
- Hydrogeology: "Water Report Level 1/2 Aberfoyle South Pit Expansion" November 2023 (Source: WSP)
- Maximum Predicted Water Table Report: "Maximum Predicted Water Table Report" November 2023 (Source: WSP)
- Archaeology: "Stage 1 and 2 Archaeological Assessment, Revised Report" August 28, 2023 and "Stage 3 Archaeological Assessment (Locations 3 & 5)" June 1, 2023 (Source: WSP)
- Traffic: "Revised Transportation Impact Study, CBM Aberfoyle South Lake Pit" February 2025 (Source: TYLin)
- Agricultural Review: "Proposed Aberfoyle South Pit Expansion: Agricultural Considerations" September 2023 (Source: MHBC Planning)
- Dust: "Best Management Practices Plan for the Control of Fugitive Dust at Aberfoyle South Pit Expansion" October 2023 (Source: WSP)
- Supplemental Assessment of Potential Impacts to Provincially Significant Wetlands, October 21, 2025 (Source: WSP)
- Hydrological and Ecological Monitoring Plan, October 21, 2025 (Source: WSP)
- Supplemental Assessment of Potential Impacts to Baseflow in Mill Creek and Tributary 3, October 31, 2025 (Source: WSP)
- Supplemental Assessment and Mitigation of Post-Rehabilitation Groundwater Uplift, October 21, 2025 (Source: WSP)

Significant Natural Heritage Features

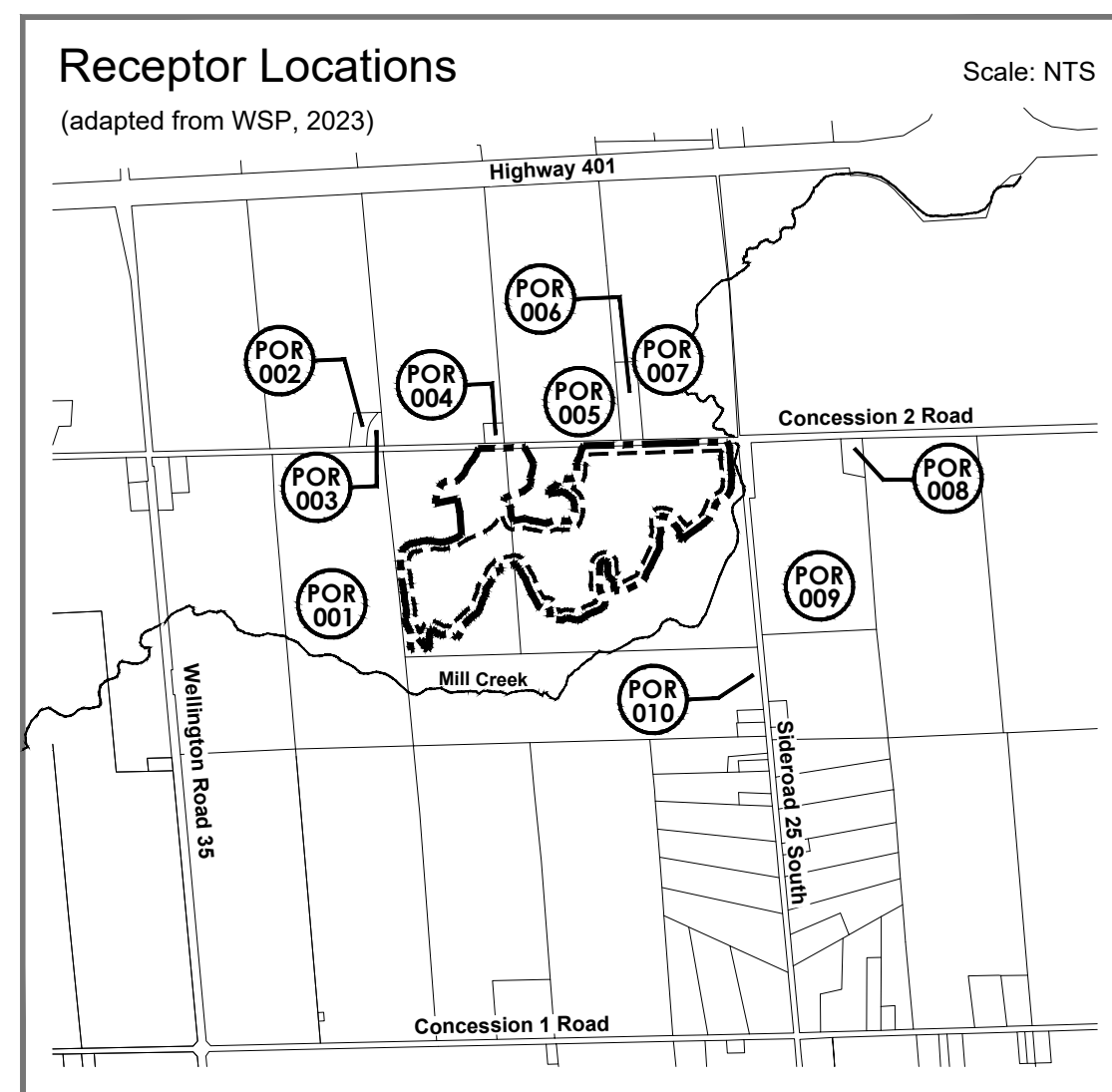
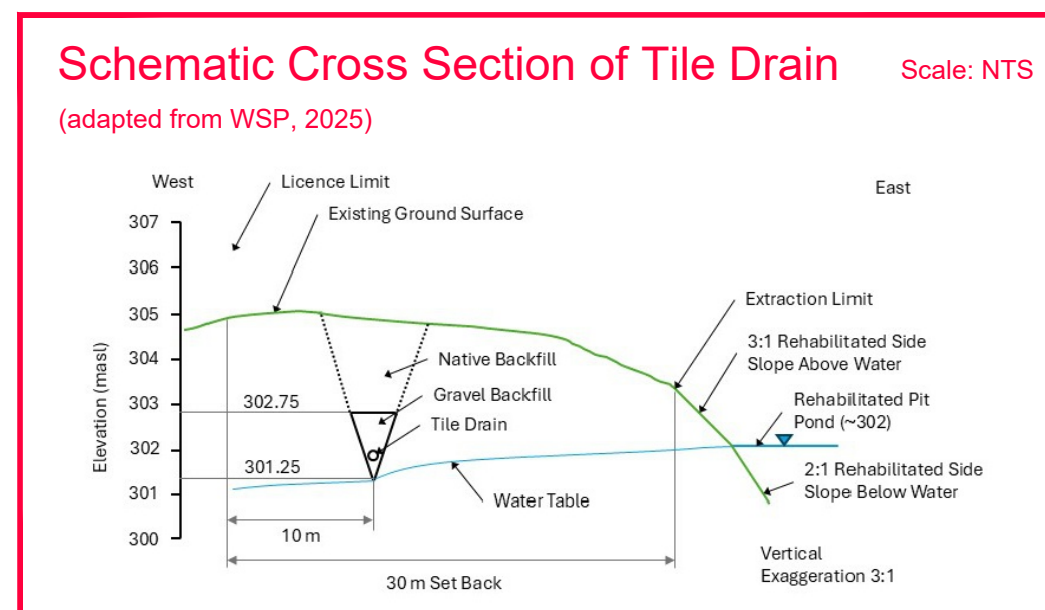
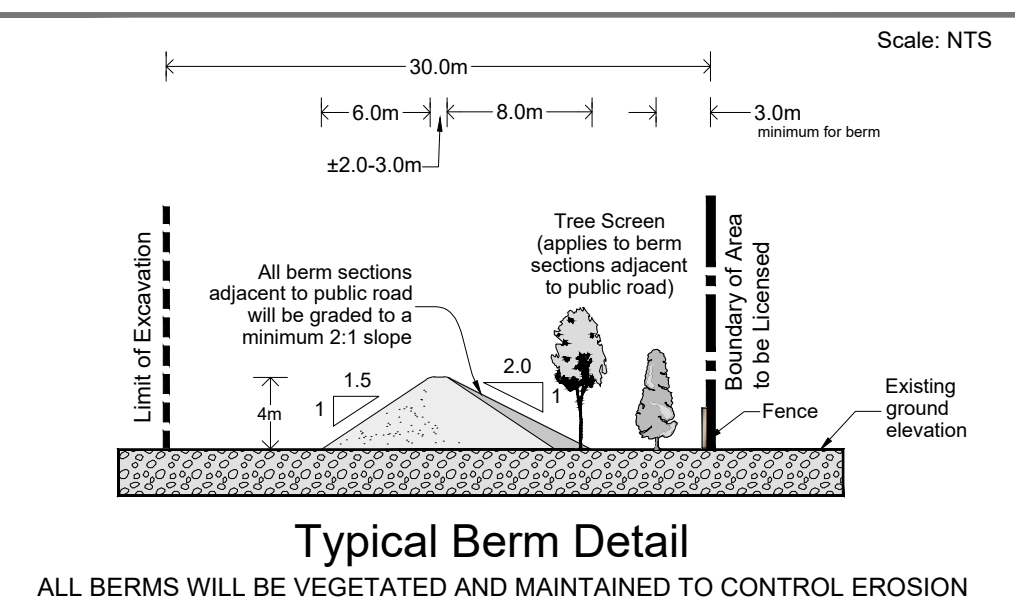
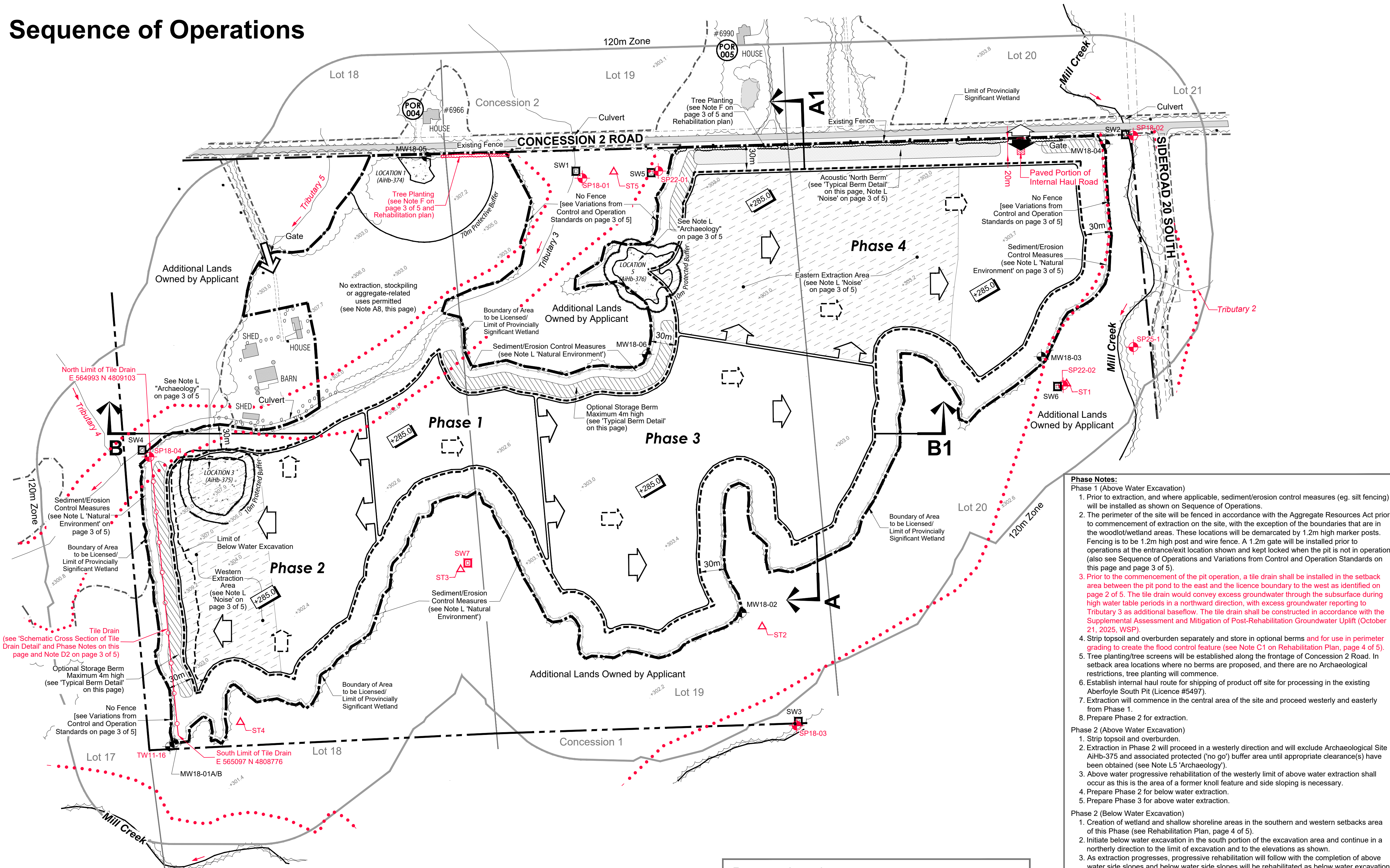
(from MNRF Natural Heritage Areas Mapping, 2023)



Key Plan



Sequence of Operations





<p>Legal Description</p> <p>PART OF LOTS 18, 19 and 20 CONCESSION 1 (Geographic Township of Puslinch) TOWNSHIP OF PUSLINCH COUNTY OF WELLINGTON</p>

Legend	
	Boundary of Area to be Licensed
	Additional Lands Owned by Applicant POST & WIRE FENCE UNLESS OTHERWISE NOTED
	Field Access
	Existing Spot Height Elevation METRES ABOVE SEA LEVEL
	Existing Fence POST & WIRE FENCE UNLESS OTHERWISE NOTED
	Existing Vegetation
	Drainage Feature AS INDICATED
	Parcel Fabric LOCATION APPROXIMATE
	Archaeological Site SITE RECOMMENDED FOR FURTHER ARCHAEOLOGICAL FIELD WORK
	Provincially Significant Wetland ON-SITE VERIFIED IN FIELD BY WSP 2021 AND OFF-SITE FROM ONTARIO GEOSUB AND GRCA OPEN DATA
	Groundwater Monitor Surface Water Monitor WSP 2021
	Cross Sections SEE PAGE 5 OF 5 FOR EXISTING AND REHABILITATED CROSS SECTIONS
	Limit of Excavation ALL SETBACKS ARE DRAWN TO SCALE AND SHOW LABELLED DISTANCES
	Operational Entrance/Exit MAINTAINED BY A GATE WHICH WILL BE CLOSED WHEN PIT IS NOT IN OPERATION
	General Direction of Above Water Excavation (SEE NOTES ON PAGE 3 OF 5)
	Below Water Excavation Limit (SEE NOTES ON THIS PAGE)
	Direction of Below Water Excavation (SEE NOTES ON PAGE 3 OF 5)
	Acoustic Berm SEE "TYPICAL BERM DETAIL" AND NOTES ON THIS PAGE AND PAGE 3 OF 5
	Optional Storage Berm SEE "TYPICAL BERM DETAIL" AND NOTES ON THIS PAGE AND PAGE 3 OF 5
	Proposed Spot Elevation PIT FLOOR (MAXIMUM DEPTH OF EXCAVATION)
	Receptor Locations WITHIN 120m OF THE SITE
	Loader and Dragline Restrictions SEE NOTE L "NOISE" ON PAGE 3 OF 5
	Sediment/Erosion Control Measures
	Tree Screen/Planting SEE NOTE F ON PAGE 3 OF 5
	Tile Drain WSP 2025


Site Plan Amendments			
No.	Date	Description	By


**MHBC** | PLANNING
URBAN DESIGN
& LANDSCAPE
ARCHITECTURE

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<p>MNR Approval Stamp</p>	<p>Stamp</p> 	
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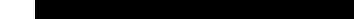
Applicant

 **VOTORANTIM**
cimentos

 **cbm**

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Applicant's Signature

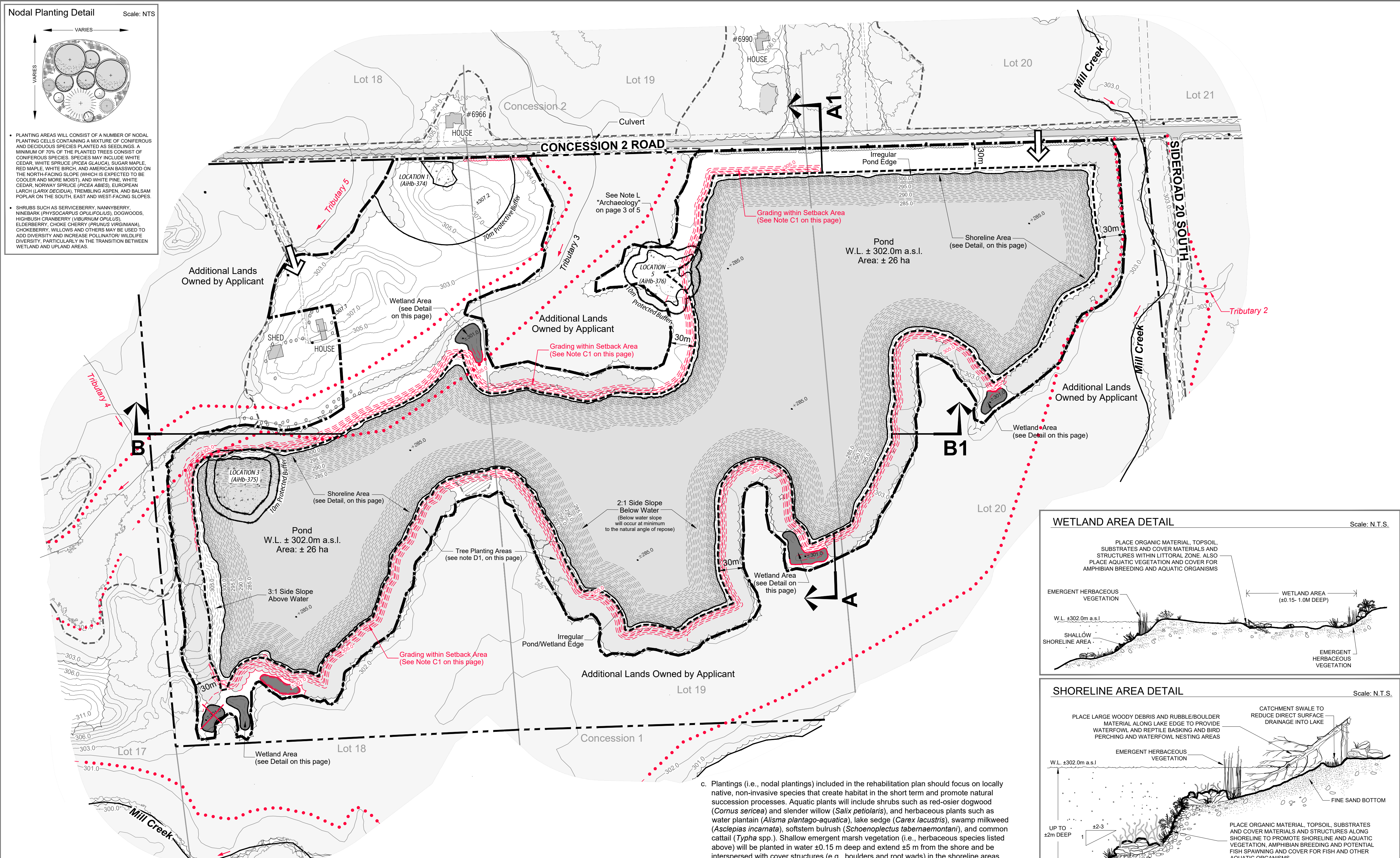


Andreeanne Simard
Director of Lands, Resources and Environment
Votorantim Cimentos North America (VCNA)

Project **Aberfoyle South Lake Pit**

ARA Licence Reference No.	Pre-approval review:	
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Plan Scale 1:2,500 (Arch D)	Plot Scale 1:2.5 [1mm = 2.5 units] MODEL	
<p>SCALE</p> <p>0 25 50 100</p> <p>METRES</p>	Drawn By D.G.S.	File No.
	Checked By N.D.	

File Name	OPERATIONAL PLAN
Drawing No.	2 OF 5

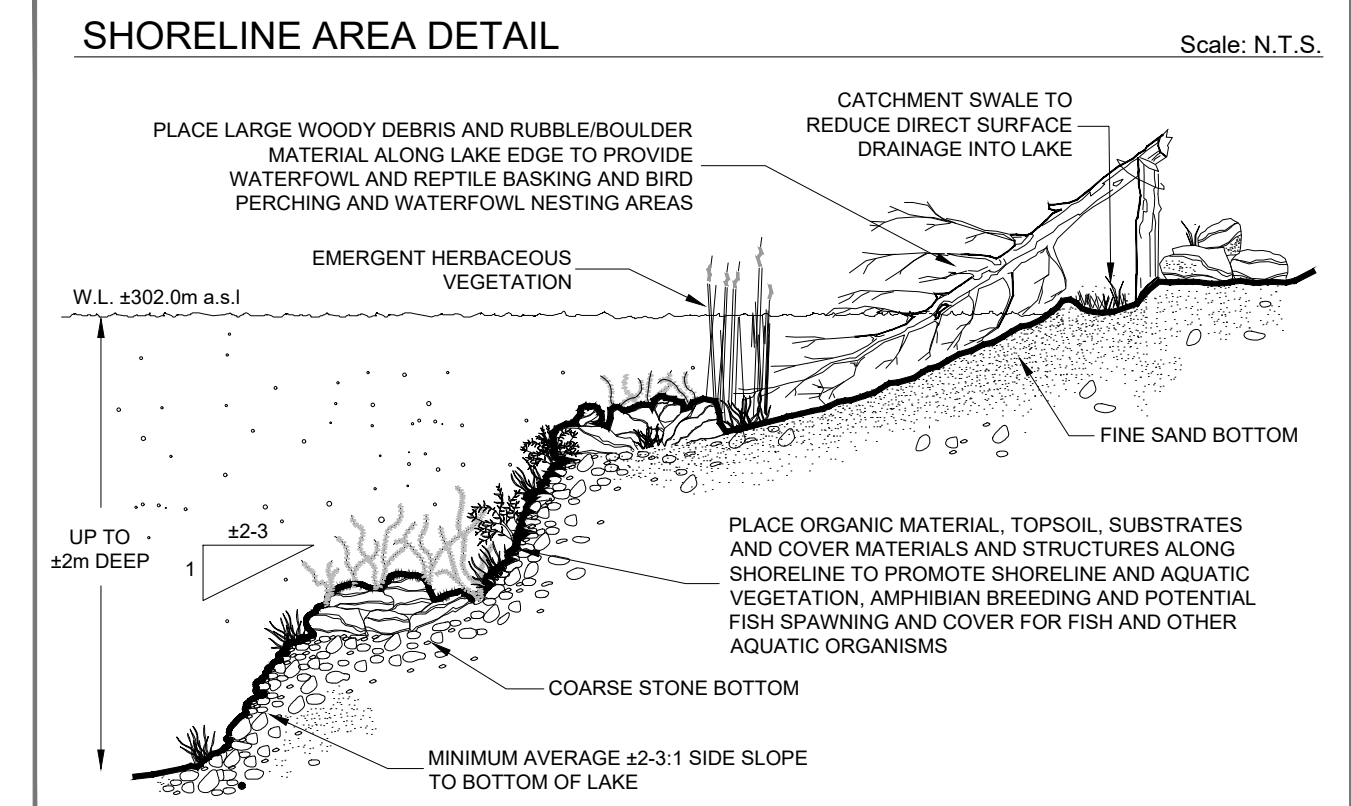


C. Slopes and Grading

1. Topsoil and overburden will be used in the progressive rehabilitation of the side slope areas. Overburden and/or unmarketable material will be used to backfill pit faces to create the topography of the side slopes (i.e. 3:2/1 slope). Above water side slope areas that will be vegetated will be covered with a minimum 15 cm of topsoil/organic matter prior to planting. **Areas along the shoreline lower than 302 m a.s.l. will be sculpted to an elevation of 304.6 m a.s.l. as a form of flood control within the setback area.**

- a. Final Rehabilitation
 - A. The proposed final rehabilitation plan includes the creation of a pond, and terrestrial habitats comprised of backfilled areas, overburden slopes, and terrestrial non-plantings. Shoreline wildlife and fish habitats will be varied to promote maximum diversity within the habitat for fish and wildlife. The natural influx of external organic matter (i.e., leaf litter) will be promoted along shoreline areas through management of forest edges and minimization of cleared areas between the extraction area and Mill Creek-Puslinch PSW to the south.
 - B. **In accordance with the Growth Plan, 35% Approximately** (6.7 ha) of the non-planting area of the license will be rehabilitated to forest cover at time of final rehabilitation. The tree planting areas will be planted in accordance with the applicable details on this plan and where indicated on the Rehabilitation Plan.

- a. **Progressive Rehabilitation**
- a. Rehabilitation will be progressive following the general direction of extraction and proceed as limits of extraction (area and depth) are reached. The sequence of rehabilitation will follow the "Sequence of Operations" diagram located on page 2 of 5. Minor deviations/variations in operational/rehabilitation sequence will be permitted in order to adjust for any variable resource and market conditions.
- b. Topsoil will be used in the progressive rehabilitation of the above water side slope areas. Side slope areas will be covered with a minimum 150mm of topsoil/organic matter. Organic topsoil will be backfilled pit face to desired finished grades (i.e. 3:1 slope) and to enhance areas within the setback along the southern portion of the shoreline as a form of flood control. This will be carried out prior to planting of trees/shrubs in this area.



- F. Final Rehabilitation**
1. No buildings or structures associated with aggregate operations will remain on site.
 2. The water level of the proposed pond ($\pm 302.0\text{m a.s.l.}$) and the post-extraction ground water table, are as shown on pages 1, 4 and 5 of 5 as per hydrogeological/ hydrological assessment

Legal Description

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CONCESSION 1
(Geographic Township of Puslinch)
TOWNSHIP OF PUSLINCH
COUNTY OF WELLINGTON

Legend

Boundary of Area to be Licensed

Additional Lands Owned by Applicant
POST & WIRE FENCE UNLESS OTHERWISE NOTED

Contour with Elevation
METRES ABOVE SEA LEVEL

Existing Fence
POST & WIRE FENCE UNLESS OTHERWISE NOTED

Existing Vegetation

Private Laneway

Access

Provincially Significant Wetland
ON-SITE VERIFIED IN FIELD BY WSP 2021 AND OFF-SITE FROM ONTARIO GEOHUB

Unevaluated Wetland
GRCA OPEN DATA

Archaeological Site
SITE RECOMMENDED FOR FURTHER ARCHAEOLOGICAL FIELD WORK

Cross Sections
SEE PAGE 5 OF 5 FOR EXISTING AND REHABILITATED CROSS SECTIONS

Limit of Excavation
ALL SETBACKS ARE DRAWN TO SCALE AND SHOW LABELLED DISTANCES

Proposed Contour
METRES ABOVE SEA LEVEL (m A.S.L.)

Proposed Elevation
REHABILITATED ELEVATION

Proposed Tree Planting Areas
LOCATION APPROXIMATE

Post Extraction Pond

Proposed Shoreline Area
(SEE DETAIL ON THIS PAGE)

Proposed Wetland Area
(SEE DETAIL ON THIS PAGE)

Floodplain Extent
WSP 2025

Site Plan Amendments

No.	Date	Description	By

PLANNING
URBAN DESIGN
& LANDSCAPE
ARCHITECTURE

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Project

Aberfoyle South

Lake Pit

ARA Licence Reference No.

Plot Scale 1:2,500 (Arch D)

SCALE

0 25 50 100 METRES

File Name

Pre-approval review:

Revs. to address Agency and Public comments - Nov.2025

For application submission - November 2023

Drawn By

Checked By

D.G.S.

N.D.

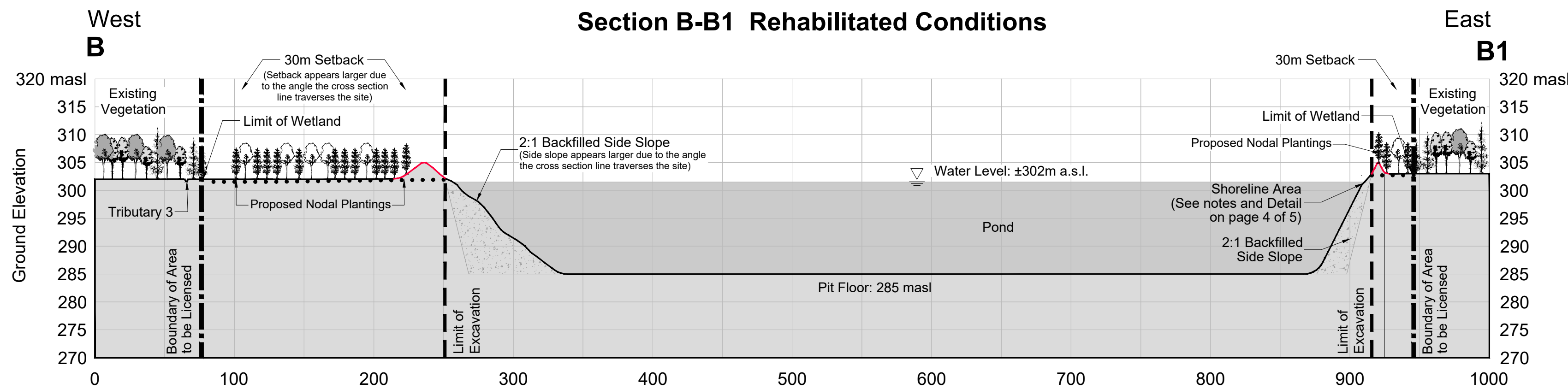
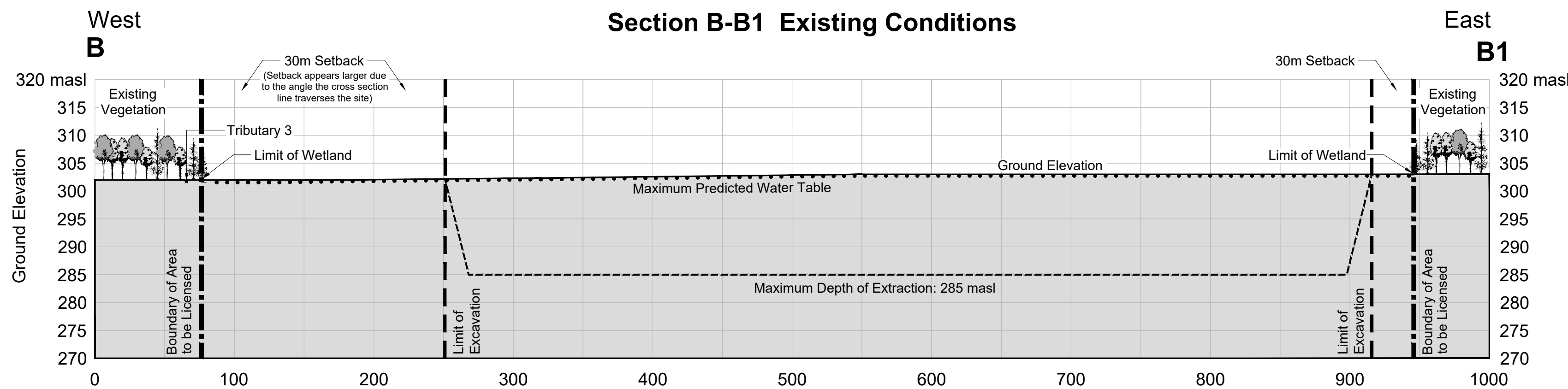
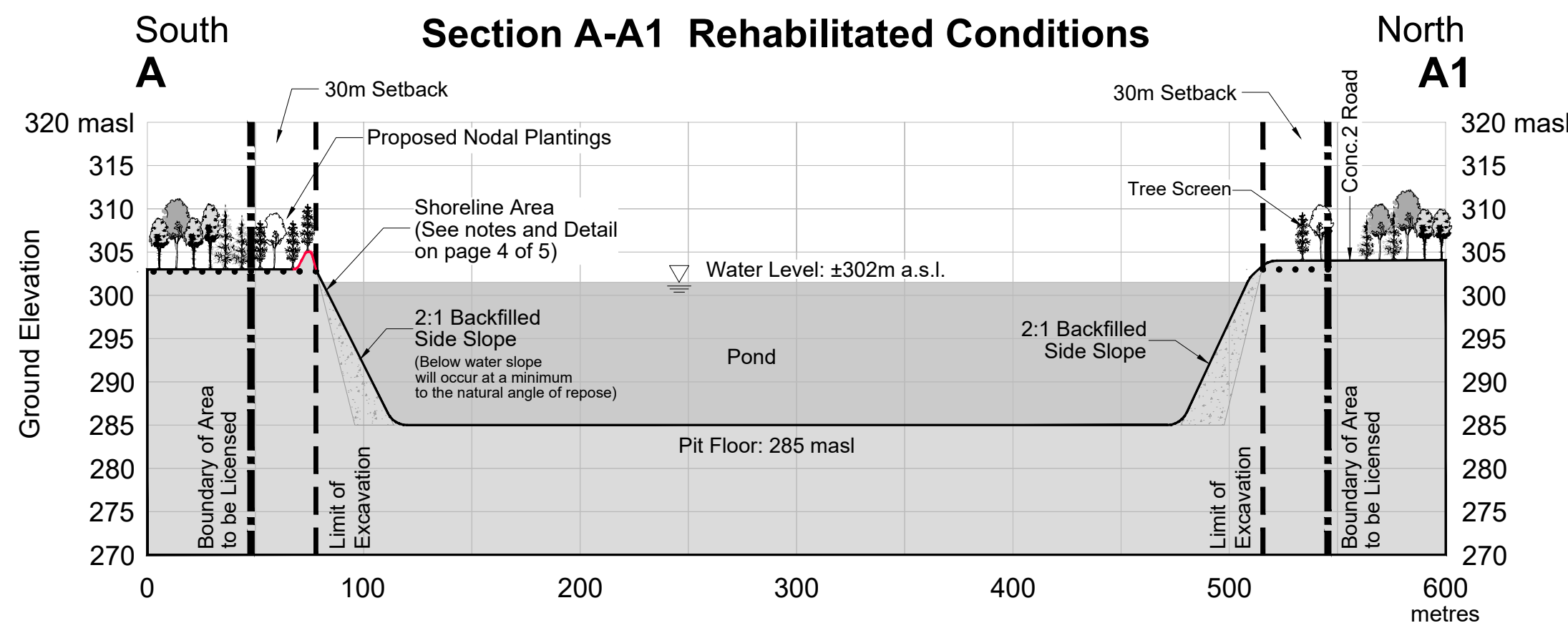
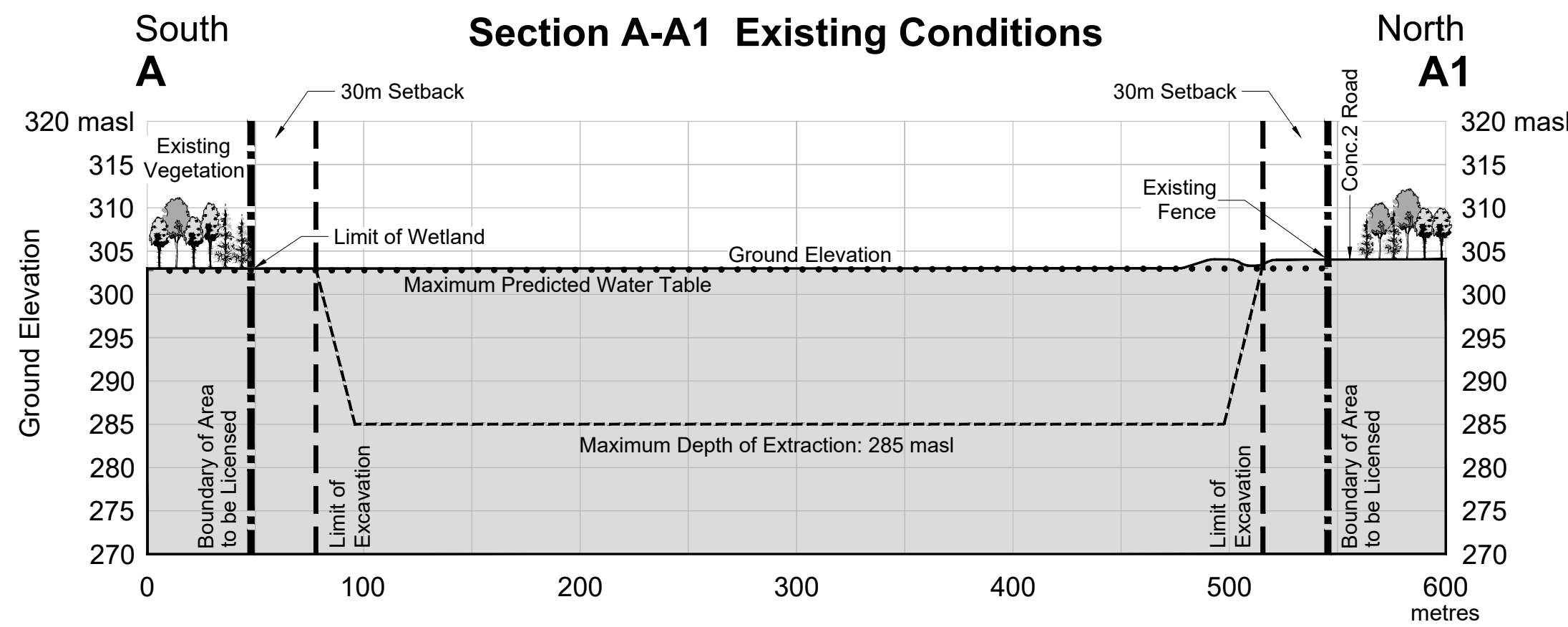
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Y321AB

REHABILITATION PLAN

4 OF 5

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Legal Description
PART OF LOTS 18, 19 and 20
CONCESSION 1
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TOWNSHIP OF PUSLINCH
COUNTY OF WELLINGTON

Legend

- Licensed Boundary
- Limit of Excavation
- Maximum Depth of Extraction
- Existing Vegetation/Trees
- Proposed Nodal Plantings
- Maximum Predicted Water Table (SEE NOTE D ON PAGE 1 OF 5)

Cross Sections
SEE PAGES 1, 2 & 4 OF 5 FOR PLAN VIEW LOCATION OF CROSS SECTIONS

Site Plan Amendments

No.	Date	Description	By

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Plan Scale: 1:2,500 (Horizontal) / 4x Exaggeration (Vertical)

Plot Scale: 1:2.5 [1mm = 2.5 units] MODEL

Horizontal Scale

50 0 50 100 METRES

Drawn By: D.G.S.
Checked By: N.D.

File No.: **Y321AB**

File Name: **CROSS SECTIONS PLAN**

Drawing No.: **5 OF 5**

K:\Y321AB- CBM Aberfoyle South Pit Expansion\A\CBM Aberfoyle South Lake Pit Xsecplan 5c15 November2025 Agency and Public Comments.dwg

For all Cross Sections
Horizontal Scale - 1:2,500
Vertical Scale - 4x Exaggeration (1:625)