

Notes
A. General
 1. 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).
 2. **Area Calculations:**
 Licence Area: 44.8 hectares (110 acres)
 Limit of Extraction: 27.5 hectares (67 acres)
 3. All measurements shown are in metres unless specified otherwise.

B. References
 1. Topographic information compiled by GeoOptic (a division of Aeon Egmont 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 ht2).
 2. Plan of Survey prepared by Delph & Jenkins North Ltd. (2018).

2. 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).
 3. Ontario GeoHub © King's Printer for Ontario, 2023.
 4. PSW boundary verified by GRCA on Sept. 12, 2023. Adjacent wetland boundaries from GRCA Open Data.

5. Floodplain extent provided by WSP.
 6. Land use information compiled from 2021 imagery, site visits and client input.

C. Drainage
 1. 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
 1. 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.

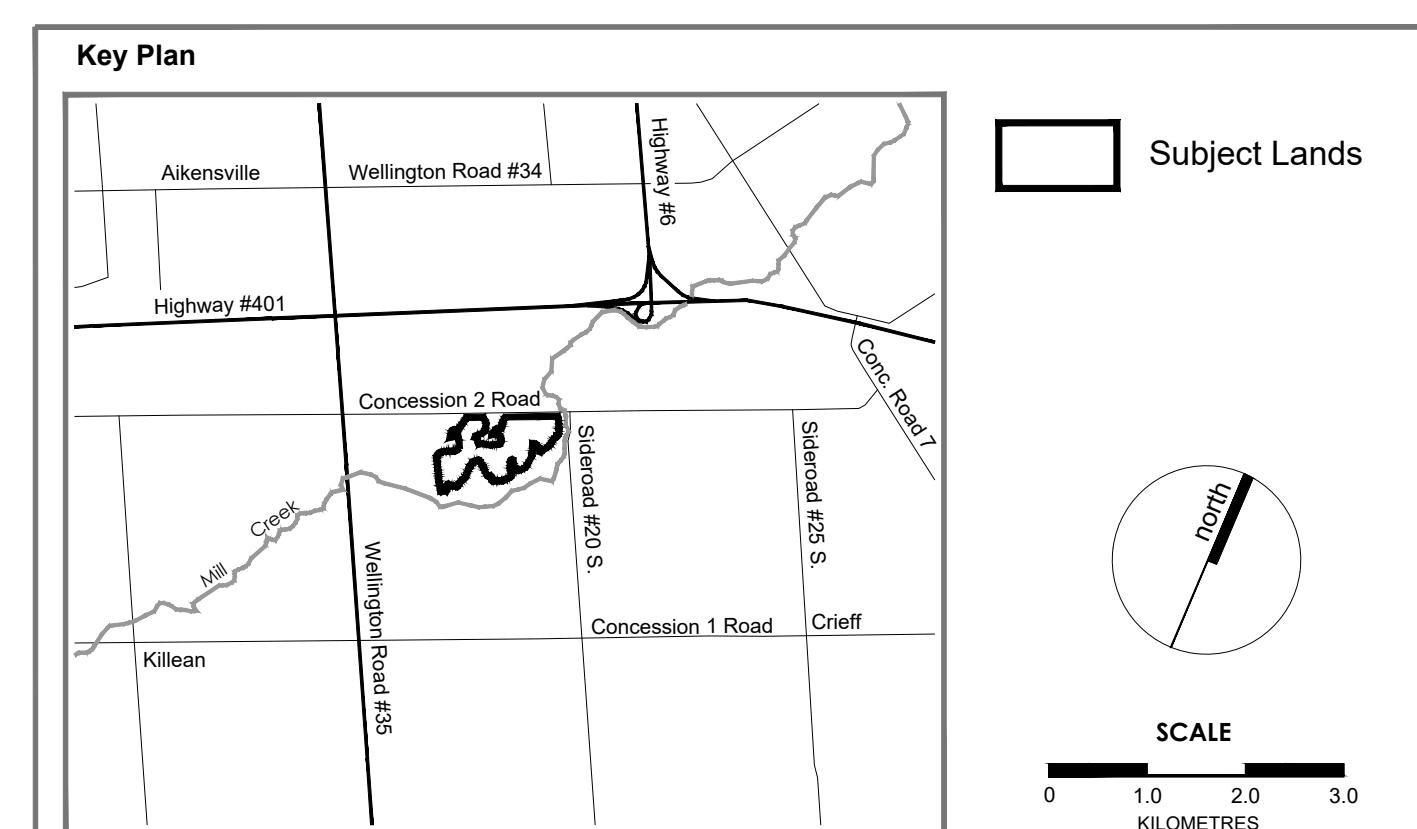
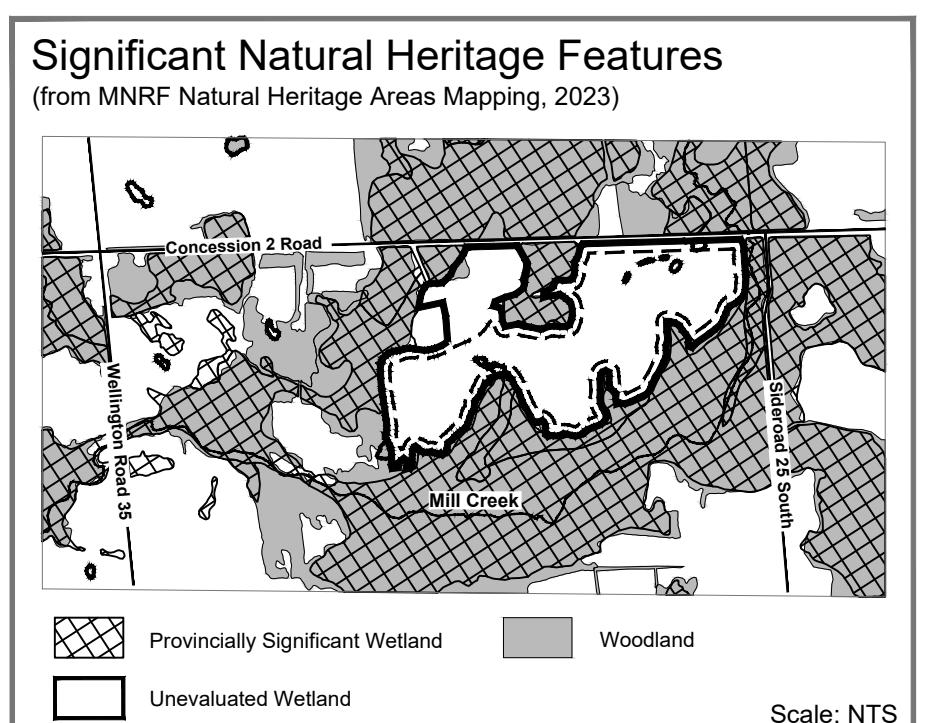
E. Site Access and Fencing
 1. There are several existing field accesses to the site in the locations shown on the plan view.
 2. Post and wire fencing (unless noted otherwise) exists in the locations shown on the plan view.

F. Aggregate Related Site Features
 1. 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
 1. On-site: fish habitat (Tributary 3), unevaluated wetlands
 2. 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
 1. As shown on this page. Detailed sections are shown on page 5 of 5.
 2. Cross section locations are identified on the plan view for each drawing.

I. Report References
 1. Noise: "Noise Impact Assessment, Aberfoyle Pit Expansion" November 2023 (Source: WSP)
 2. Natural Environment: "Natural Environment Report, Proposed Aberfoyle South Pit Expansion" November 2023 (Source: WSP)
 3. Hydrogeology: "Water Report Level 1/2 Aberfoyle South Pit Expansion" November 2023 (Source: WSP)
 4. Maximum Predicted Water Table Report: "Maximum Predicted Water Table Report" November 2023 (Source: WSP)
 5. Archaeology: "Stage 1 and Archaeological Assessment, Revised Report" August 28, 2023 and "Stage 3 Archaeological Assessment (Locations 3 & 5)" June 1, 2023 (Source: WSP)
 6. Traffic: "Revised Transportation Impact Study, CBM Aberfoyle South Lake Pit" February 2025 (Source: TYLin)
 7. Agricultural Review: "Proposed Aberfoyle South Pit Expansion: Agricultural Considerations" September 2023 (Source: MHBC Planning)
 8. Dust: "Best Management Practices Plan for the Control of Fugitive Dust at Aberfoyle South Pit Expansion" October 2023 (Source: WSP)
 9. Supplemental Assessment of Potential Impacts to Provincially Significant Wetlands, October 21, 2025 (Source: WSP)
 10. Hydrological and Ecological Monitoring Plan, January 2026 (Source: WSP)
 11. Supplemental Assessment of Potential Impacts to Baseflow in Mill Creek and Tributary 3, October 21, 2025 (Source: WSP)
 12. Supplemental Assessment and Mitigation of Post-Rehabilitation Groundwater Uplift, October 21, 2025 (Source: WSP)



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

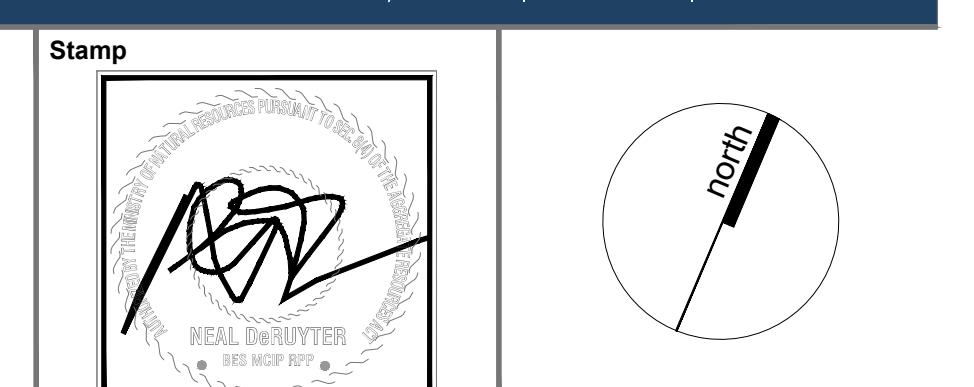
Legend		
	Boundary of Area to be Licensed	
	Additional Lands Owned by Applicant	
	Existing Fence	
	Building/Structure	
	Public Road - Gravel	
	Existing Vegetation	
	Existing Access	
	Hydro Pole	
	Provincially Significant Wetland	
	Unevaluated Wetland	
	Groundwater Monitor	
	Surface Water Monitor	
	Ecological Monitoring Survey Transect	
	Cross Sections	

Site Plan Amendments

No.	Date	Description	By

PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE
MHBC

200-540 BINGEMANS CENTRE DR. KITCHENER, ON N2B 3X9 | P: 519.576.3650 | WWW.MHBCPLAN.COM



Stamp
 Applicant
 Applicant's Signature

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 55 Industrial St. 4th Floor Toronto, Ontario M4G 3W9
 Telephone: (416) 696-4411
 Andreanne Simard
 Director of Lands, Resources and Environment
 Votorantim Cimento North America (VCNA)

Aberfoyle South Lake Pit

ARA Licence Reference No.

Pre-approval review:

Rev. to address Agency and Public comments - Jan. 2026

For application submission - November 2023

Plan Scale 1:2,500 (Arch D)

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

Drawn By D.G.S. File No.

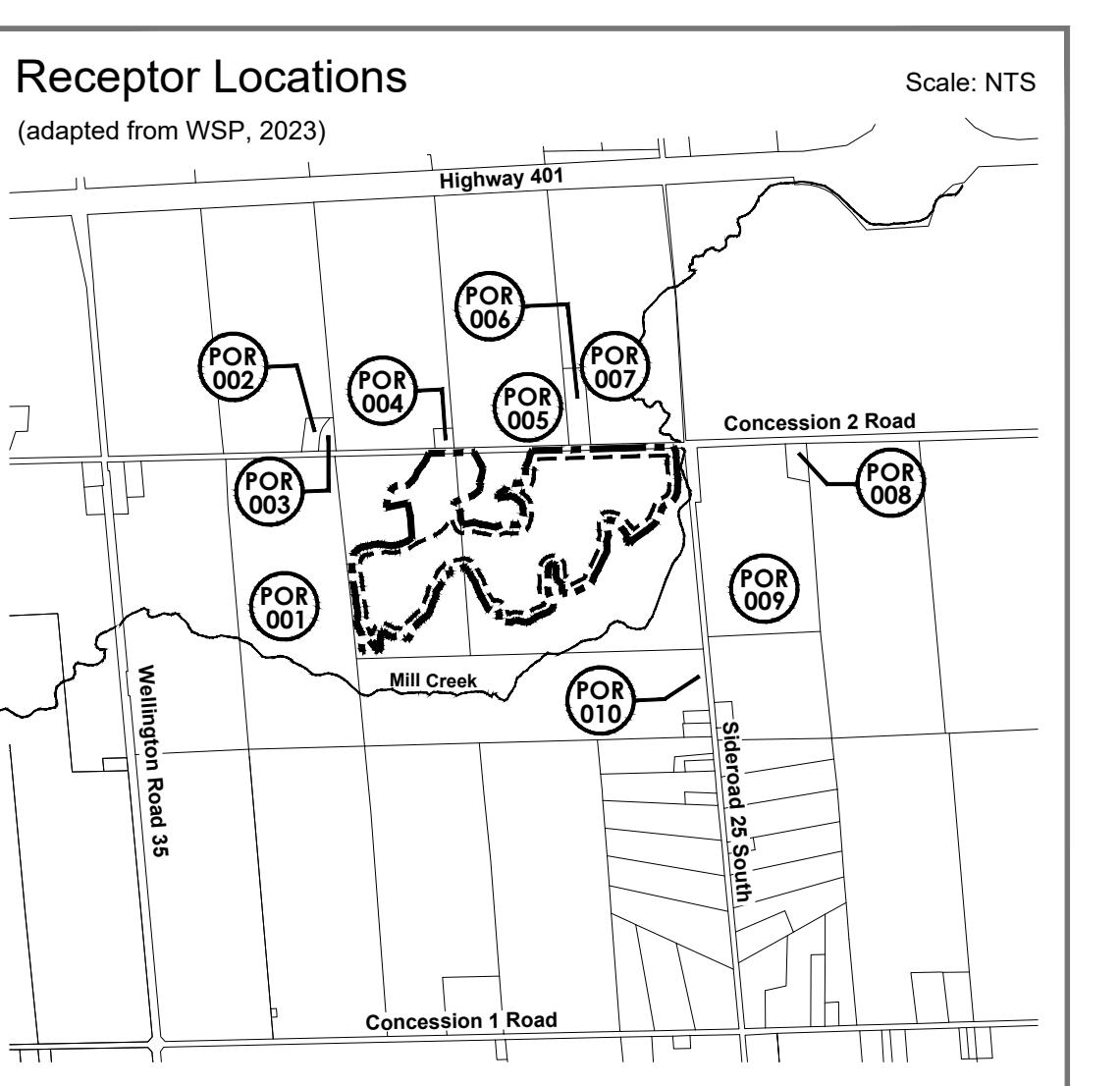
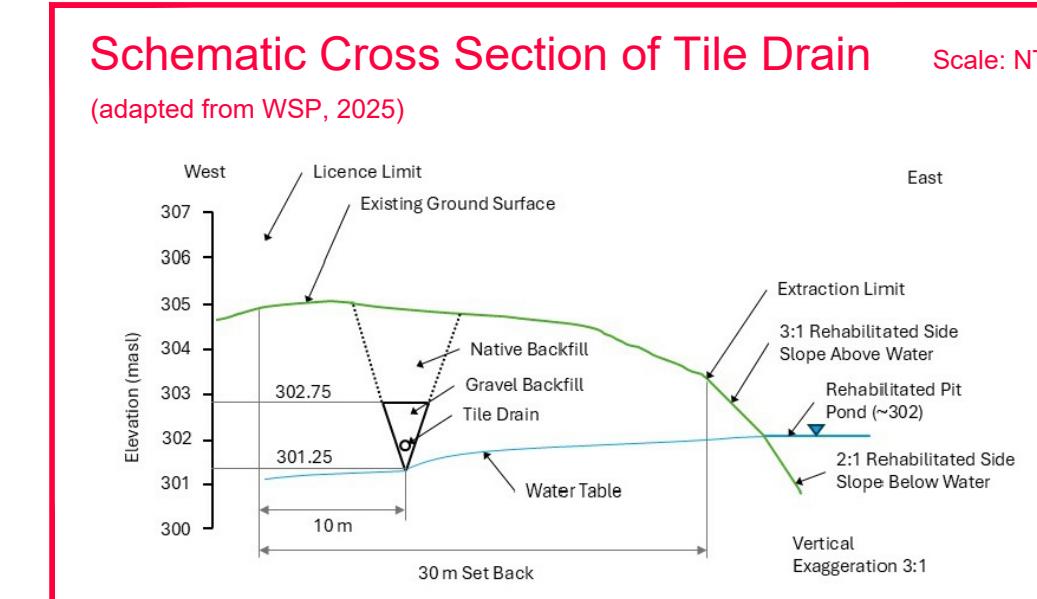
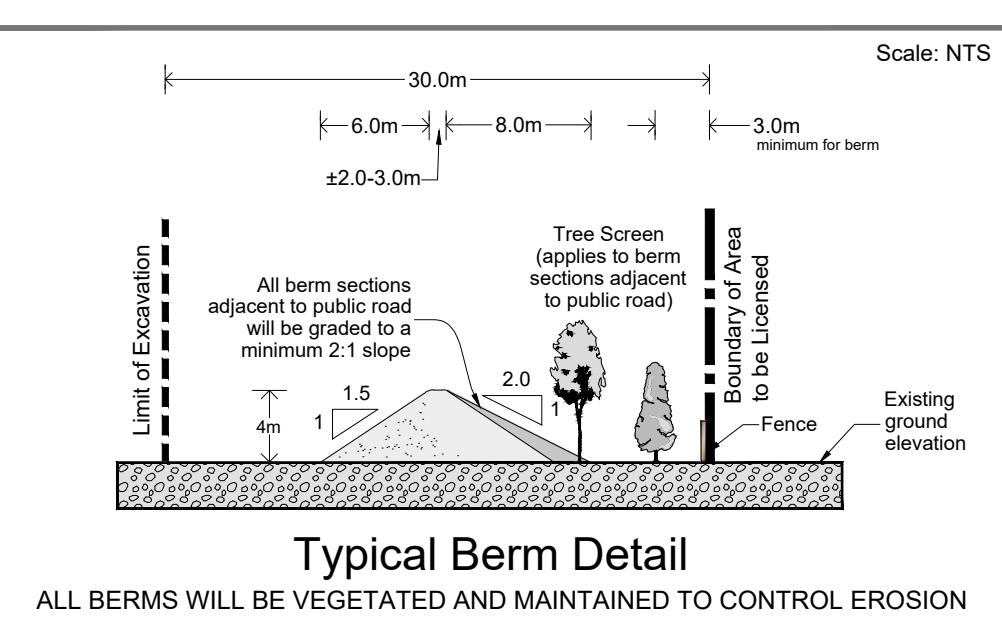
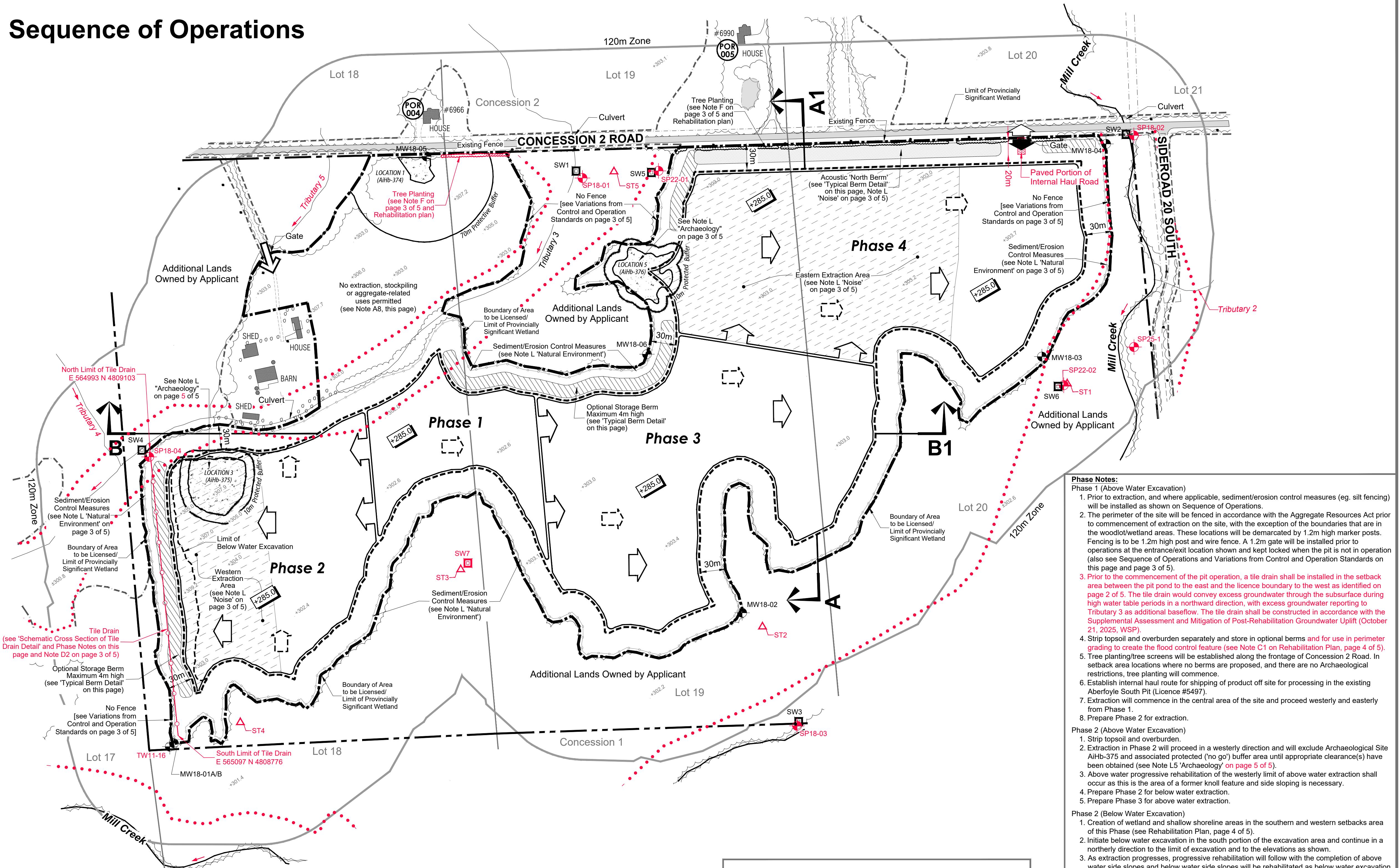
Checked By N.D.

File Name **EXISTING FEATURES PLAN**

Drawing No. **1 OF 5**

K:\Y321AB-CBM Aberfoyle South Lake Pit Expansion\A1\CBM Aberfoyle South Lake Pit Explan1of5 January2026.dwg

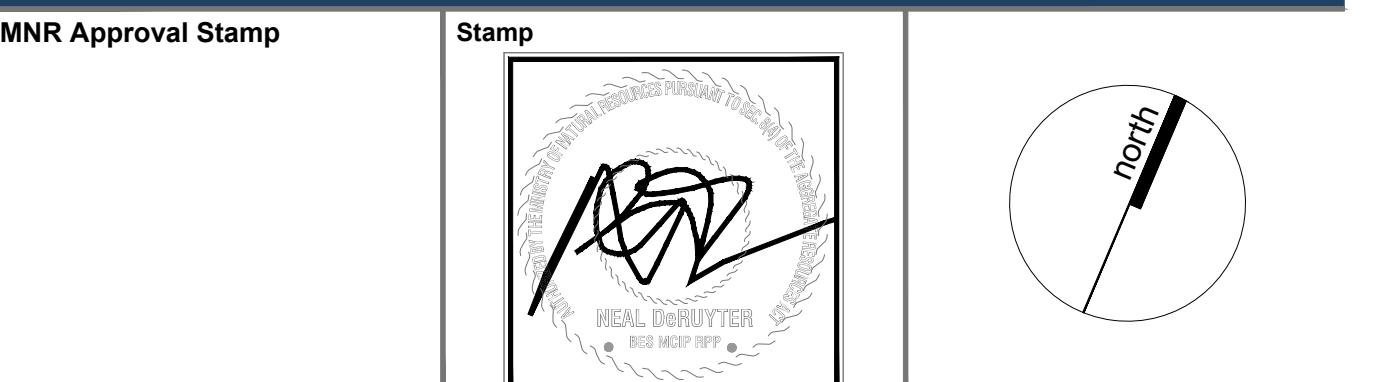
Sequence of Operations



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

Legend		
	Boundary of Area to be Licensed	
	Additional Lands Owned by Applicant	
	Field Access	
	Existing Spot Height Elevation	
	Existing Fence	
	Acoustic Berm	
	Optional Storage Berm	
	Archaeological Site	
	Provincially Significant Wetland	
	Groundwater Monitor	
	Cross Sections	
	Tile Drain	

Site Plan Amendments	
No.	Date



Applicant  Applicant's Signature

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

Project Aberfoyle South Lake Pit

ARA Licence Reference No.	Pre-approval review:
Revs. to address Agency and Public comments - Jan. 2026	
For application submission - November 2023	
Plan Scale 1:2,500 (Arch D)	Plot Scale 1:2.5 [1mm = 2.5 units] MODEL
SCALE	
0 25 50 METRES	
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Checked By N.D.	
File Name	
Drawing No.	

OPERATIONAL PLAN
2 OF 5

K:\Y321AB-CBM Aberfoyle South Lake Pit Expansion\A\CBM Aberfoyle South Lake Pit Operplan 2of5 January2026.dwg

A. General
 1. 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 Operations for all sites (Numbers 33-55 in the standards).
 2. Area Calculations: Licence Area: 44.8 hectares (110 acres)
 Limit of Excavation: 27.5 hectares (67 acres)
 3. The maximum number of tonnes of aggregate to be removed from this property is 1,000,000 tonnes in any calendar year.
 4. 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. The existing water table elevations are shown on each cross section on page 5 of 5.
 5. Setbacks will be as shown and labelled on the Sequence of Operations Diagram (page 2 of 5) and on Existing Features Plan (page 1 of 5).
 6. Agricultural use may continue in areas not under extraction.
 7. Source Water Protection: The site lies within the Grand River Source Protection Area which is part of the Lake Erie Source Protection Region (LESPR). The Site is not proximal to any Wellhead Protection Area (WHPA) and is located outside the Wellhead Water Quantity Zone. The Site is currently classed as a Significant Groundwater Recharge Area (SGRA). No proposed on-site activities are considered to be significant drinking water threats (See also 'Hydrogeology' notes on this page).
 8. Aggregate extraction, stockpiling and aggregate-related uses are not permitted on the licensed lands between Tributary 3 and Concession Road 2. This area shall be retained in its current condition or used for natural restoration / enhancement, if required.
 9. On-site PSW boundary verified by GRCA on Sept. 12, 2023.

B. Hours of Operation

1. Extraction will occur during the daytime period (i.e. between 07:00 and 19:00).
2. Shipping hours are restricted to 07:00 to 18:00 on weekdays and 08:00 to 16:00 on Saturdays.
3. Activities used to prepare the site for excavation, such as stripping of topsoil, construction of the berms, or activities related to the rehabilitation of the site after extraction is completed are considered to be construction activities and are only permitted to occur during the daytime (i.e. 07:00 to 19:00) Monday to Friday except statutory holidays.

C. Site Access and Fencing

1. The existing field accesses may be utilized for monitoring, setback maintenance and agricultural access. The accesses shall be gated, kept closed during hours of non-operation and shall be maintained throughout the life of the licence. Aggregate trucks shall not be permitted to access the site at these locations.
2. The site shall be accessed through the operational entrance/exit as shown and it will be gated.
3. There is existing fencing along the Concession 2 Road frontage. This fencing will meet ARA requirements.
4. Portions of the licence boundary within the existing wetland/woodlot will not be fenced (see Note M 'Variations from Control and Operation Standards'). Where there is no fencing, 1.2m marker posts will be installed that are visible from one to the other.
5. Heavy duty sediment/erosion control measures (e.g. silt fencing) shall be installed along the portions of the licensed boundary as shown on the Sequence of Operations between the area to be disturbed and the wetlands prior to commencement of work. Adjustments may be made through 'field fitting' as directed by an environmental specialist. These measures will be monitored on a quarterly basis and after rainfall events (see Note L 'Natural Environment').

D. Drainage

1. During above water excavation, surface drainage from active pit areas will be detained within the pit area. For below water excavation, drainage will be directed toward the pond area. Drainage will also percolate naturally through the soil.
2. Prior to the commencement of the pit operation, a tile drain shall be installed in the setback area between the pit pond to the east and the licence boundary to the west as identified on page 2 of 5. The tile drain would convey excess groundwater through the subsurface during high water table periods in a northward direction, with excess groundwater reporting to Tributary 3 as additional baseflow. The tile drain shall be constructed in accordance with the Supplemental Assessment and Mitigation of Post-Rehabilitation Groundwater Uplift. The following mitigation measures shall be implemented for the tile drain construction and monitoring:
 - a. Strip topsoil and temporarily store separately from subsoils
 - b. Spoils piles should be stored on the east side of the trench away for the woodland and wetland edge
 - c. Erosion control setting silt fencing should be installed as required to ensure no erosion or sediment transport for the temporary spoils piles enter the wetland areas.
 - d. Work to be completed in the shortest period possible, limiting the period of open trench and spoil piles.
 - e. Work to be scheduled during period of forecasted low, or preferably no, precipitation periods.
 - f. Backfilling the original grade to be completed immediately after drain installation and subsoil replaced and topsoil used to cap the trench area.
 - g. The rehabilitation of the trench area and temporary work area will be restored and managed as outlined in the Supplemental Assessment and Mitigation of Post-Rehabilitation Groundwater Uplift (October 21, 2025 WSP).

E. Site Preparation

1. Prior to site preparation, a Spills Contingency Plan shall be developed to address any potential spills from equipment on-site.
2. Timber resources will be salvaged for use as saw logs, fence posts and fuel wood where appropriate. Non-merchantable timber, stumps and brush may be used in for aquatic habitat enhancement or mulched for use in progressive rehabilitation. Excess material not required for uses mentioned above will be burned (with applicable permits).
3. Topsoil and overburden shall be stripped and stored separately in accordance with the Sequence of Operations diagram.
4. Excess topsoil and overburden not required for immediate use in the construction of acoustic berms or rehabilitation, may be temporarily stockpiled inside the licensed area. Topsoil and overburden stockpiles shall be located within the limit of excavation and remain a minimum of 30 metres from the licence boundary and 90 metres from a property with residential use (see Note M 'Variations').
5. Temporary topsoil and overburden stockpiles which remain for more than one year shall have their slopes vegetated to control erosion. Seeding shall not be required if these stockpiles have vegetated naturally in the first year.

F. Berms and Screening

1. Berms shall be constructed as specified in the location shown on the Sequence of Operations. The height shown is the minimum required for acoustic berms.
2. Berm side slopes shall not exceed 1.5:1 on the interior (extraction) side and 2:1 on the exterior side facing Concession 2 Road. See 'Typical Berm Detail' on page 2 of 5.
3. Berms shall not be located within three (3.0) metres of the licence boundary.
4. The proposed berm will be constructed in accordance with the 'Typical Berm Detail' on page 2 of 5 and will be vegetated and maintained to control erosion using a low maintenance grass/legume seed mixture (e.g. MTO Seed Mix) composed of Creeping red Fescue, Perennial Ryegrass, Kentucky Bluegrass and White Clover. Temporary erosion control will be implemented as required.
5. Berms shall be maintained (vegetated to prevent erosion) throughout the operational life of the pit.
6. Optional storage berms may be constructed in the locations as shown.
7. Within 2 years of license issuance, two rows of trees will be planted along the Concession 2 Road frontage adjacent to Phase 4 and across from 6966 Concession 2 Road (east side of site). Adjacent to Phase 4, the trees shall be planted in front of the berms to provide additional screening to the site. These two rows of trees will be planted in front of the berm required for noise attenuation during operations to provide additional screening to the site: Native tamarack, white/black spruce, white cedar and white pine shall be planted for the tree screens.
8. Existing vegetation within the setbacks shall be maintained except where noise attenuation berms are required or for the operational entrance/exit.

G. Extraction Sequence

1. The operational plan depicts a schematic operations sequence for this property. Phases do not represent any specific or equal time period. The direction of extraction will be in accordance with the Sequence of Operations diagram shown on page 2 of 5. All extraction, processing and transportation equipment operating within these Phases shall comply with the restrictions identified in Note L 'Noise'.
2. Progressive and final rehabilitation will be completed in direct correlation to the development of the pit as the extraction limits in each Phase are reached and enough area is available to ensure that rehabilitation activities will not interfere with the production and stockpiling of aggregate materials (see also Phase Notes on page 2 of 5). Notwithstanding the operation and rehabilitation notes, demand for certain products or blending of materials may require minor deviations in the extraction and rehabilitation sequence. Any major deviations from the operations sequence shown will require approval from MNR.
3. The maximum disturbed area of the pit shall not exceed 50% of the site.
4. See Phases Notes on page 2 of 5 for details.

H. Extraction Details

1. The maximum depth of extraction is as shown as spot elevations and extraction will occur in up to 2 lifts through the four phases as shown on the Sequence of Operations diagram on page 2 of 5 and in accordance with the Ministry of Labour requirements. The proposed pit floor will be located at an elevation of 285 masl or 22 m to 24 m below the existing ground surface.
2. For the majority of the site, the groundwater table is near the ground surface. While some above water excavation may occur across the site, this excavation will take place in one lift of a maximum height of 5m in the western portion of Phase 1. Below water excavation will take place in one lift of a maximum height of 20m, which would be the maximum depth of extraction. See Rehabilitation Plan (page 3 of 5) and Cross Sections Plan (page 5 of 5) for excavation depths and final rehabilitation contours.
3. Aggregate stockpiles will move throughout the life of the operations of the pit. Stockpiles will not be located within 30m of the Licensed boundary.
4. There will be no aggregate processing or recycling at this pit.
5. Internal haul road locations will vary as extraction progresses through the site.

I. Equipment and Processing

1. The equipment used on site for aggregate operations may include: Highway Trucks, Loaders (2), Dragline, Excavator/Backhoe.
2. There will be no aggregate processing on site. Processing will be carried out at other CBM licences.

J. Fuel Storage

1. Mobile fuel trucks will be used for fuelling of equipment. There will be no fuel storage on site (See also 'Hydrogeology' notes on this page).

K. Scrap and Recycling

1. No scrap will be stored on site.
2. No recycling activities will take place on site.

L. Report Recommendations

1. Noise: "Noise Impact Assessment, Aberfoyle Pit Expansion" November 2023 (Source: WSP)

- a. Prior to extraction in Phase 4 a 4m high berm shall be installed (North Berm).
- b. Within the area identified on the Sequence of Operations [western and eastern extraction areas], the loader operations will be reduced to 45 minutes per 1-hour period. Once the North Berm is in place, the loaders could operate for the full 60 minutes during any given 1-hour period in Phase 4 [eastern extraction area].
- c. Dragline operating 'under load' for a maximum of 45 minutes per hour and the engine will generally operate in low revolutions conditions (i.e. 'low rev') for the remaining 15 minutes per hour.
- d. During the operations within the area identified on the Sequence of Operations [western and eastern extraction areas], the dragline will require noise controls (e.g. equipment mounted noise barrier or acoustically equivalent treatment) to reduce its noise emissions by a minimum of 5dB to target a sound power level as presented in Table 1 of the Noise Impact Assessment.
- e. Extraction will occur during the daytime period (i.e. between 07:00 and 19:00).
- f. For the extraction associated with the operations, the equipment will operate as specified above and in Section 2.0 of the Noise Impact Assessment and is expected to operate continuously except for the dragline or excavator/backhoe and loaders (i.e. within identified areas) expected to operate "under load" up to 45 minutes in a given 1-hour period and under 'low-rev' condition for the remaining 15 minutes in the hour.
- g. When an excavator/backhoe will be used to support extraction operations a dragline shall not be in operation.
- h. An excavator or backhoe will be permitted to operate as a replacement for a dragline if the sound power level of the excavator/backhoe does not exceed 107 dBa.

- i. Equipment shall be operated as intended by manufacturer specifications.
- j. Equipment shall be maintained and kept in good condition.
- k. Equipment shall be fitted with manufacturer specified and properly functioning noise control devices.

- l. On-site roadways shall be maintained to limit noise resulting from trucks driving over ruts and potholes.
- m. Alternative-to-narrow-band-back-up alarms shall be investigated and used at the site provided they are found to meet the licensee's safety requirements. Broadband backup warning devices will be implemented on equipment owned and operated by the licensee once it is confirmed it will meet the licensee's safety requirements.
- n. Activities used to prepare the site for excavation, such as the stripping of topsoil, construction of the berm, or activities related to the remediation of the site after the extraction is completed as considered to be construction activities and are only permitted to occur during the daytime (i.e. 07:00 to 19:00) Monday to Friday except statutory holidays.
- o. Prior to operations commencing, sound measurements of the equipment used on the site shall be undertaken to confirm maximum emission levels provided in Table 1 of the Noise Impact Assessment are not exceeded.
- p. To confirm that sound levels from the site operations are in compliance with the MECP noise guideline limits, an acoustical audit shall be completed within six months of the start of extraction activities on the site.

Table 1: Facility Noise Source Summary

Source ID	Source Description	Quantity	Overall Sound Power level (dBa) ⁽¹⁾
Truck	Highway Truck	28 ⁽⁴⁾	102
Loader 1	Loader	1	107 ⁽²⁾
Loader 2	Loader	1	107 ⁽²⁾
Dragline	Dragline	1	112
Dragline	Dragline Mitigated	1	107 ⁽³⁾
Excavator/Backhoe	Excavator/Backhoe	1	<112

⁽¹⁾ Values presented in Table 1 do not include adjustments that were considered in the modelling (i.e. time, weighting) where applicable.

⁽²⁾ Average sound power level representing various loader activities

⁽³⁾ Either a single form of mitigation (e.g. silencer, barrier) or combination of different types of noise mitigation

⁽⁴⁾ Number of one-way trips per hour

2. Natural Environment: "Natural Environment Report, Proposed Aberfoyle South Pit Expansion" November 2023 (Source: WSP) and "Supplemental Assessment of Potential Impacts to Provincially Significant Wetlands" October 21, 2025; "Hydrological and Ecological Monitoring Plan" January 2026 "Supplemental Assessment of Potential Impacts to Baseflow in Mill Creek and Tributary 3" October 21, 2025 "Supplemental Assessment and Mitigation of Post-Rehabilitation Groundwater Uplift" October 21, 2025 (Source: WSP)

a. General Best Management Practices

Standard Best Management Practices to be followed during site preparation and operations to mitigate damage to the adjacent natural features include the following:

- i. Clearly demarcate and maintain recommended setbacks on the site plan.
- ii. To comply with the Migratory Birds Convention Act (MBCA), avoid removal of vegetation during the active season for breeding birds (April 1 - August 31), unless construction disturbance is preceded by a nesting survey conducted by a qualified biologist. If any active nests are found during the nesting survey, a buffer will be installed around the nest to protect against disturbance. Vegetation within the protection buffer cannot be removed until the young have fledged the nest.
- b. Significant Wetland and Woodland

The following mitigation measures are recommended to minimize adverse indirect impacts on the adjacent significant wetland and significant woodland (i.e. Mill Creek/Puslinch PSW):

- i. Implement a 30 m setback from Mill Creek/Puslinch PSW / significant woodland
- ii. If gradients indicate there is potential for runoff to enter Mill Creek/Puslinch PSW, implementation of sediment and erosion controls will occur prior to commencement of operations to prevent the runoff of suspended solids into Mill Creek/Puslinch PSW. In particular, in such areas where potential runoff exists, silt fencing (or similar) will be installed along the dripline of Mill Creek/Puslinch PSW in those areas prior to commencement of activities with a 30 m of Mill Creek/Puslinch PSW, including site preparation and vegetation clearing. The sediment and erosion control measures will be actively monitored and maintained for the duration of the proposed operations.
- iii. Where installed, silt fencing will be maintained for the duration of the operations phase adjacent to Mill Creek- Puslinch PSW and will include regular inspections for signs of damage or deterioration.
- iv. Following rehabilitation adjacent to Mill Creek/Puslinch PSW, any silt fencing or other erosion/sediment controls that had been installed, will be removed from the site.
- v. To avoid compacting the soil in the setback area (which can negatively impact tree roots) the use of heavy machinery **should be minimized** or **not permitted** within 5 m of the dripline (where potential for root damage is most likely), particularly during wet periods (e.g., spring) when soil may already be saturated.
- vi. Any berms located within the 30 m setback area must be located a minimum of 5 m from the dripline of the woodland to protect the critical root zone for the woodland.
- vii. A minimum 35% (6.7 ha) of the non-aquatic portion of the licensed area will be rehabilitated to forest cover.

c. Fish Habitat

- i. Limit impacts on riparian vegetation to those approved for the work, undertaking or activity:
 - Limit access to banks or areas adjacent to waterbodies;
 - Prune or top the vegetation instead of grubbing/uprooting;
 - Limit grubbing on watercourse banks to the area required for the footprint of works, undertaking or activity;
 - Construct access points and approaches perpendicular to the watercourse or waterbody;
 - Remove vegetation selectively and in phases; and,
 - Re-vegetate the disturbed area with native species suitable for the site
- ii. Operate machinery in a manner that minimizes disturbance to the watercourse bed and banks
- iii. Develop and implement a Sediment Control Plan to minimize sedimentation of the waterbody during all phases of the work, undertaking or activity:
 - Schedule work to avoid wet, windy and rainy periods (and heed weather advisories);
 - Regularly inspect and maintain the erosion and sediment control measures and structures during all phases of the project;
 - Use biodegradable sediment control materials whenever possible;
 - Remove all exposed non-biodegradable sediment control materials once site has been stabilized;
 - Operate machinery on land, or from barges;
 - Use methods to prevent substrate compaction (e.g., swamp mats, pads);
 - Monitor the waterbody to observe signs of sedimentation during all phases of the work, undertaking or activity and take corrective action;
 - Dispose and stabilize all dredged material above the high water mark of nearby waterbodies to prevent entry in the water; and,
 - Use only clean materials

iv. Develop and immediately implement a response plan to prevent deleterious substances from entering a water body:

- Stop works, undertakings and activities in the event of a spill of a deleterious substance;
- Immediately report any spills (e.g., sewage, oil, fuel or other deleterious material), whether near or directly into a water body;
- Keep an emergency spill kit on site during the works, undertakings and activities;
- Contain any deleterious substances;
- Clean-up and appropriately dispose of the sediment-laden water and water contaminated with deleterious substances;
- Maintain all machinery on site in a clean condition and free of fluid leaks
- Wash, refuel and service machinery and store fuel and other materials for the machinery in such a way as to prevent any deleterious substances from entering the water;
- Dispose of all waste materials (e.g., construction, demolition, commercial logging) above the ordinary high water mark to prevent entry into the waterbody; and,
- Plan activities near water such that materials such as paint, primers, blasting abrasives, rust solvents, degreasers, grout, poured concrete or other chemicals do not enter the waterbody

v. Aquatic invasive species are introduced and spread through transporting water, sands, and sediments and using contaminated construction equipment. To prevent the spread of aquatic invasive species during construction in aquatic environments:

- Ensure all equipment arrives on site clean and free of invasive species;
- Clean, drain, and dry any equipment used in the water; and,
- Never move organisms or water from one body of water to another

d. Non-significant Wetlands

- i. Replace 0.3 ha of wetland habitat as part of progressive rehabilitation. See Rehabilitation Plan on page 4 of 5.

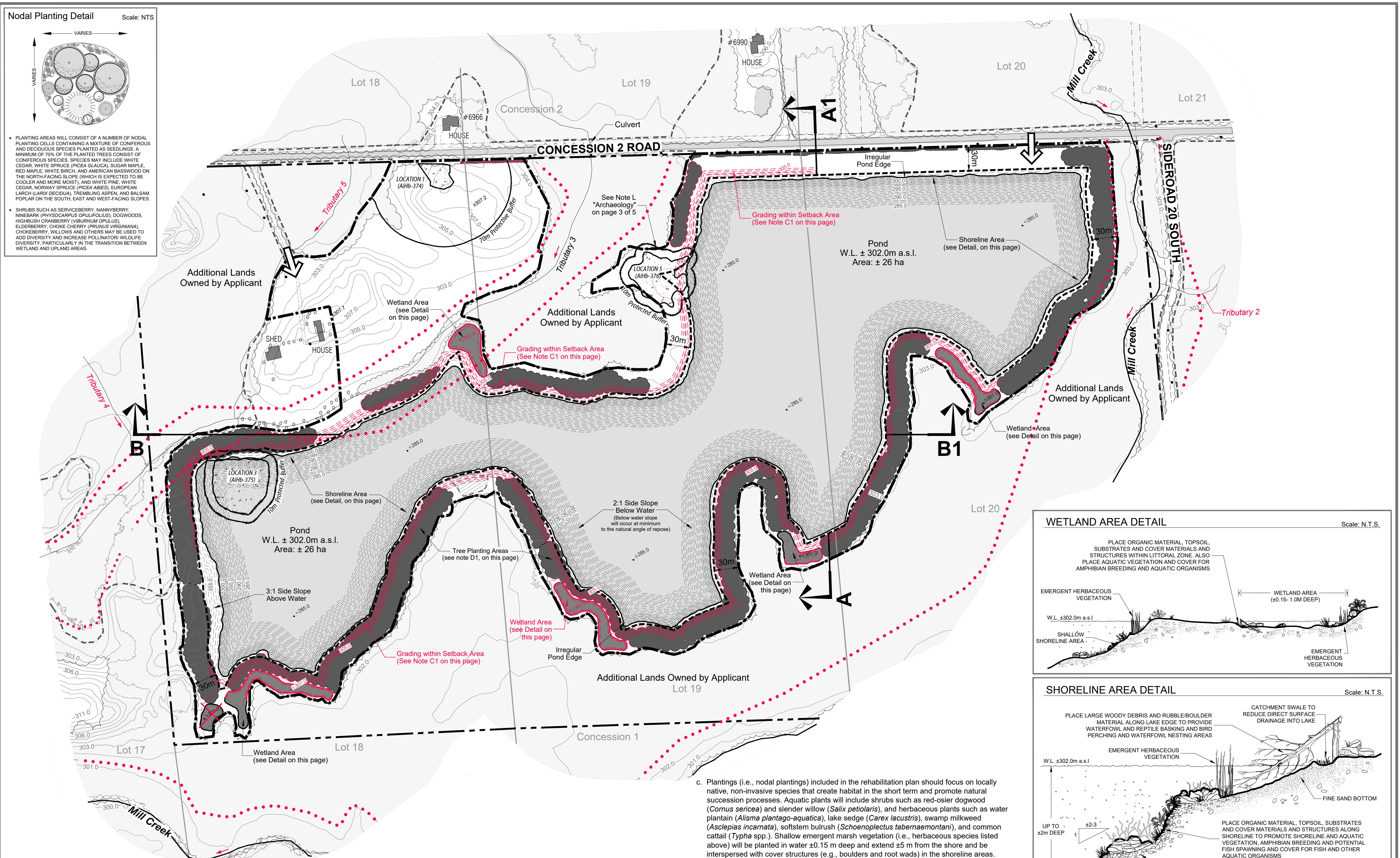
e. Monitoring

i. Monitoring as recommended in the Water Report Level 1/2 (WSP 2023) will be implemented for the proposed extraction:

ii. Ecological Monitoring

- i. To observe ecological conditions in the PSW, monitoring of the form and function of the wetland shall be carried out annually (in early summer) along the five Ecological Monitoring Survey Transects and detailed in the Hydrological and Ecological Monitoring Plan (WSP, January 2026). Ecological monitoring shall begin one year prior to the start of aggregate extraction, and continue during the Operational Period, and end one year after the completion of site Rehabilitation. During the one year of monitoring prior to the start of aggregate extraction, monitoring will be carried out biannually (early summer and early fall) to provide baseline data for comparison to enhanced monitoring in the event this is required.
- ii. In order to ensure effective monitoring of the Mill Creek fishery, existing baseline data and monitoring programs will be consolidated prior to the commencement of extraction activities. Any identified gaps will be addressed to establish a comprehensive and robust baseline that serves as an essential reference point for evaluating the fishery during its operational phases. Ongoing monitoring will subsequently be conducted in response to hydrological conditions that may suggest potential ecological impacts.

- iii. To effectively monitor the Mill Creek fishery, baseline monitoring shall be conducted prior to the start of extraction, with a particular focus on key ecological indicators such as Brown Trout spawning activity. This monitoring will serve as a critical reference point



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 Rehabilitation for all sites (Numbers 59-67 in the standards).

A. General

- The rehabilitated landform of this site will include: pond, shallow shoreline and wetland areas, reforestation and various side slope treatments.
- The existing wetland within the southern setback area is located outside of the limit of excavation and is not expected to be directly impacted.
- No buildings/structures or internal haul roads will remain on site upon completion of rehabilitation.

B. Phasing

- The proposed Aberfoyle South Lake Pit Expansion will be rehabilitated on a progressive basis, corresponding to the operational progression of the pit excavation, to form a pond at final rehabilitation.
- As the pit is excavated to its maximum, or any other/lesser terminal limits, both horizontally and vertically on a lift-by-lift basis, progressive rehabilitation will follow provided the subject area is of an appropriate area to undergo rehabilitation (See Note G on page 3 of 5 for details).
- The excavation perimeter will be fully side sloped at a maximum 2:1 below water (from original ground to floor) and a maximum of 3:1 for the above water portion on the west side of the excavation area. Sloping will occur as the limits of the pit excavation are reached. See Rehabilitation Plan drawing and Note D on this page.

- Side slopes will be vegetated where located above the final water level of the pit pond and will include reforestation in setback areas in order to enhance a diversity of native vegetation types and species that are anticipated to spread around the rehabilitated side slopes (see Note D and 'Nodal Planting Detail' on this page).
- The maximum disturbed area on this pit shall not exceed 50% of the site.

C. Slopes and Grading

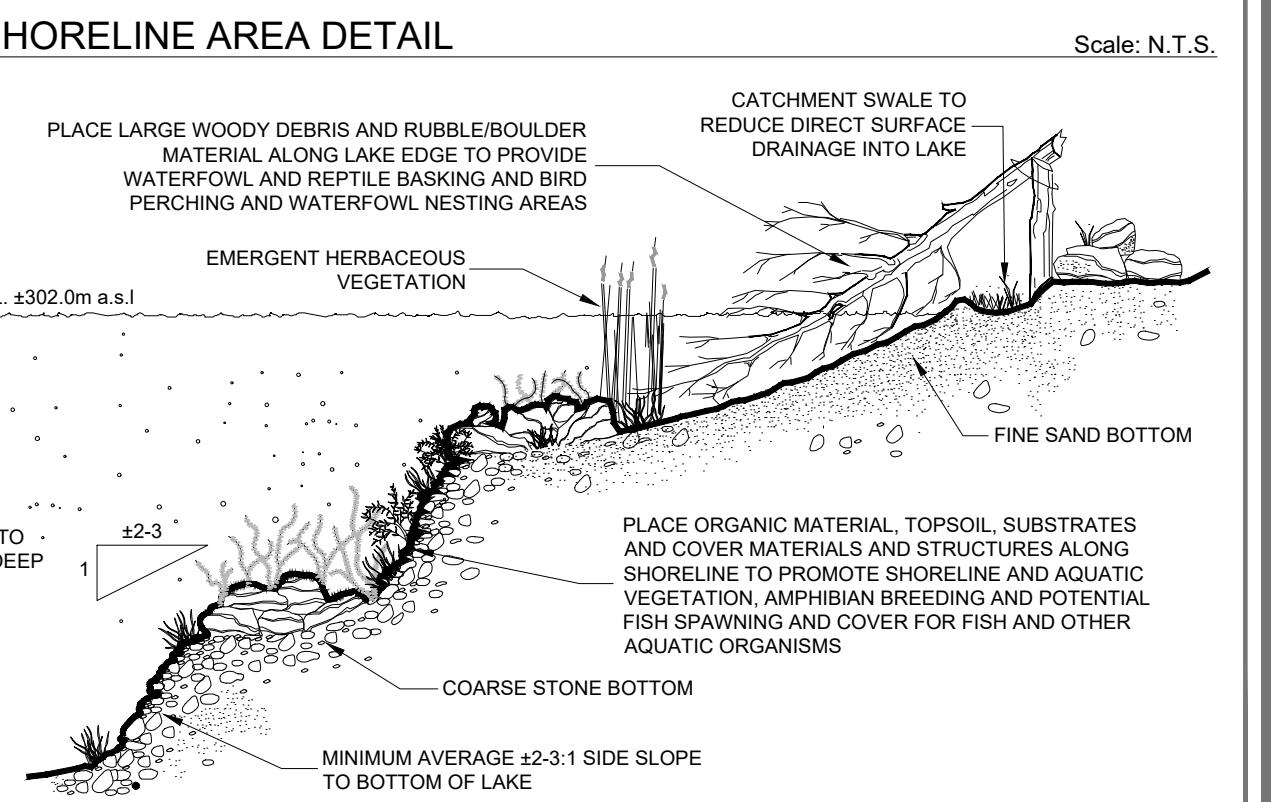
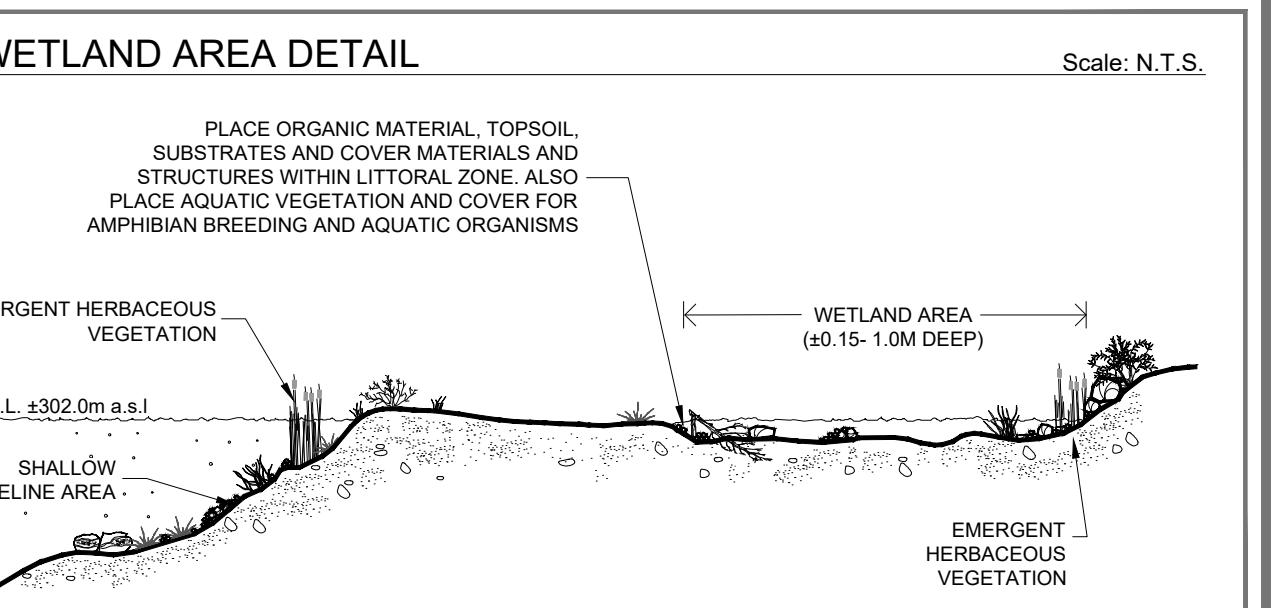
- Topsoil and overburden will be used in the progressive rehabilitation of the side slope areas. Overburden and/or unmarketable material will be used to backfill pit faces to create the topography of the side slopes (i.e. 3/2:1 slope). Above water side slope areas that will be vegetated will be covered 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.

2. Importation of fill/excess soil:

- Excess soil, as defined in Ontario Regulation 244/97 may be imported to this site to facilitate the following rehabilitation:
 - Creation of 3:1 slopes (or sloping ratio otherwise described on the final rehabilitation plan)
 - Top dressing to establish vegetation
- Liquid soil, as defined in Ontario Regulation 406/19 under the Environmental Protection Act, is not authorized for importation to the site.
- The quality of excess soil imported to the site for final placement must be equivalent to or more stringent than the applicable excess soil quality standards as determined in accordance with Ontario Regulation 244/97 as amended from time to time and must be consistent with the site conditions and the end use identified in the approved rehabilitation plan.
- Where a qualified person is retained or required to be retained in accordance with Ontario Regulation 244/97, the quality, storage, and final placement of excess soils shall be done according to the advice of the qualified person.
- Excess soil imported to facilitate rehabilitation as described on this site plan shall be undertaken in accordance with Ontario Regulation 244/97 under the Aggregate Resources Act, as amended from time to time.
- The cumulative total amount of excess soil that may be imported to this site for rehabilitation purposes is 50,000 m³.

D. Proposed Vegetation and Rehabilitated Features

- Final Rehabilitation
 - The proposed final rehabilitation plan includes the creation of a pond, and terrestrial habitats comprised of backfilled areas, overburden slopes, and terrestrial nodal plantings. Shoreline widths and depths 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.
 - In accordance with the Growth Plan, 35% Approximately (6.7 ha) of the non-aquatic area of the licence 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.
- Progressive Rehabilitation
 - 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.
 - 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. Overburden will be used to backfill pit faces 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.



c. Setback areas will be planted with nodal planting cells (see the site plan and 'Nodal Planting Detail' on this page). Also, two rows of trees will be planted along the Concession 2 Road frontage, in front of the berm required for noise attenuation during operations, to provide additional screening to the site.

d. The new wetland areas shall be created in accordance with the Wetland Area Detail. Wetlands shall be created prior to the removal of the non-PSW in Phase 4 associated with extraction and berm construction.

3. Vegetation
Ground covers on side slopes will be established as part of the phased stripping operations that proceed extraction and will be maintained and replaced should it fail to establish itself to control erosion.

4. Establishment of Slopes/Rehabilitated Areas
Rehabilitation of this site involves the creation of 26 ha of pond including shallow shoreline areas, 0.9-0.8 ha of wetland areas, 6.7 ha of tree planting areas (35% of non-aquatic areas) and 11 ha of terrestrial landform comprised of above water overburden side slopes, a flood control berm and an agricultural area in the northwest part of the site where extraction did not occur. The final pit landform will be in accordance with the drawing as shown on this page. Shallow shoreline widths and depths will be varied to promote maximum diversity within this habitat for fish and wildlife.

E. Drainage
1. Final surface drainage will follow the rehabilitated contours as shown.

F. Final Rehabilitation
1. No buildings or structures associated with aggregate operations will remain on site.

2. The water level of the proposed pond (±302.0m 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.

Site Plan Amendments

No.	Date	Description	By

MNR Approval Stamp

Stamp

Applicant

Applicant's Signature

PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE

200-540 BINGEMANS CENTRE DR. KITCHENER, ON N2B 3X9 | P: 519.576.3650 | WWW.MHBCPLAN.COM

VOTORANTIM cimentos

55 Industrial St. 4th Floor Toronto, Ontario M4G 3W9
Telephone: (416) 696-4411

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

Project

Aberfoyle South Lake Pit

ARA Licence Reference No.

Pre-approval review:

Revs. to address Agency and Public comments - Jan. 2026

For application submission - November 2023

Plan Scale 1:2,500 (Arch D)

SCALE

0 25 50 100 METRES

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

Drawn By D.G.S. **File No.** Y321AB

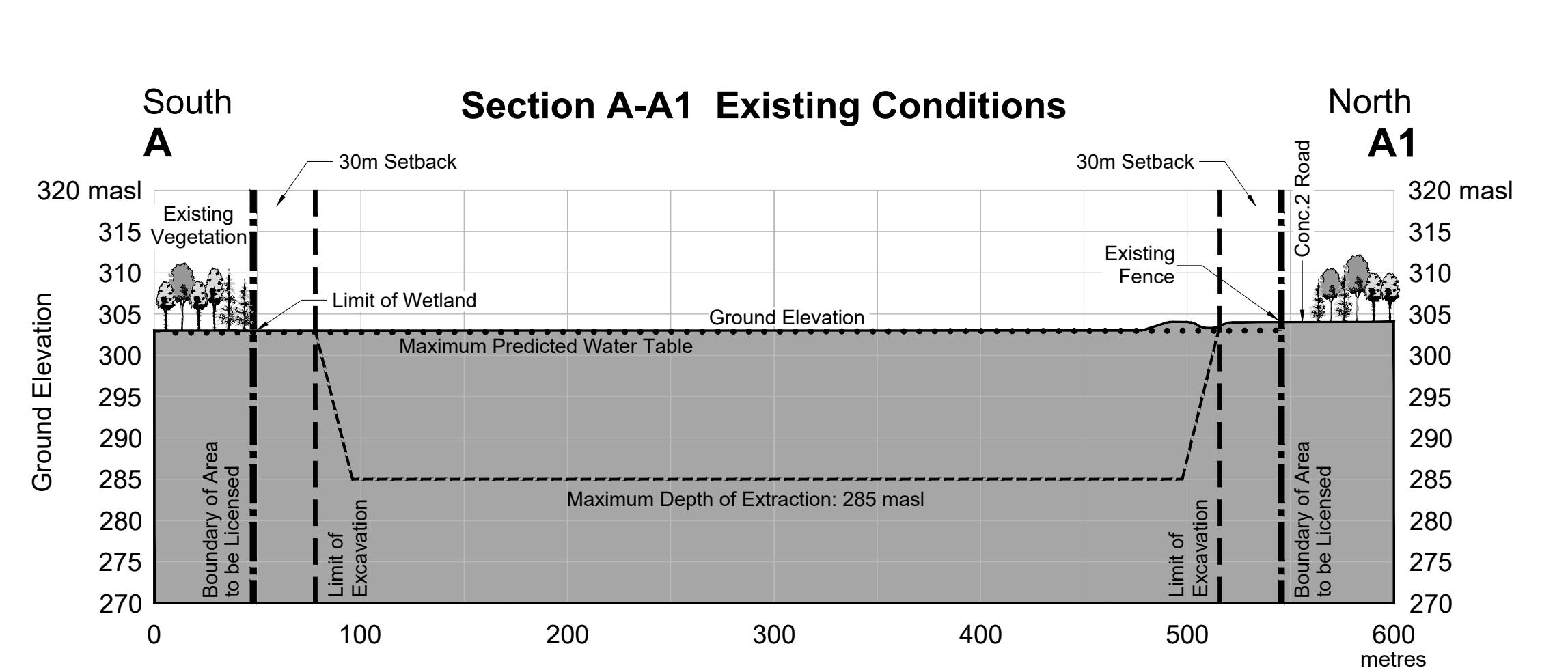
Checked By N.D.

File Name

REHABILITATION PLAN

4 OF 5

K:\Y321AB-CBM Aberfoyle South Lake Pit Expansion\CBM Aberfoyle South Lake Pit Replan 4of5 January2026.dwg



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

L. Report Recommendations (cont'd from Page 3)
4. 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)

- Location 1 has been registered with the MCM under Borden Aihb-374. The Aihb-374 site is recommended for long term protection and avoidance under Stage 3 PIF P468-0087-2022 using the following measures:
 - The protected site area corresponds to Figure B-2 of the supplemental documentation.
 - The Aihb-374 site is present as shown on the site plan.
 - No extraction, alterations or soil disturbance may be carried out within the limits of the protected area of the Aihb-374 site.
 - Post and wire fencing will be erected along the limits of the Aihb-374 site under the direction of the licensed consultant archaeologist.
 - If the Aihb-374 site is still present when the ARA license is surrendered a restrictive covenant will be placed on title to continue the protection of the archaeological site.
 - A letter is provided by the licensee stating that they are aware of the presence of the archaeological site within the limits of the licence and that they are aware of the restrictions on alteration of an archaeological site of further cultural heritage value or interest as per the condition on their licence and as per Section 48 of the Ontario Heritage Act.
- Location 3 has been registered with the MCM under Borden (Aihb-375). The Stage 3 Archaeological Assessment recommends the following:
 - Based on the CHVI documented within the artifact assemblage and the Euro-Canadian historical context for Location 3 (Aihb-375), the site will be subjected to Stage 4 mitigation by excavation as per Section 4.2 of the *Standards and Guidelines for Consultant Archaeologists* (MCM 2011). As the artifact assemblage postdates 1830, Section 4.2.7 Standard 2 applies, which requires all midden areas to be hand excavated, followed by mechanical topsoil removal of the remainder of the site. As the site is located within plough zone which has resulted in the artifacts being disturbed and redistributed and therefore are not in situ, as well as the high counts of artifacts in multiple units no potential midden areas were identified during the Stage 3 Archaeological Assessment. Based on these conditions, mechanical topsoil removal of the site can proceed immediately. Mechanical topsoil removal **should** be undertaken with a backhoe or gradall-type excavator with a flat-edged bucket and **should** stop at subsoil interface, at which time the subsoil **should** be assessed for cultural features as per Section 4.2.3., Standard 2 and 3, and must be completed 10 m beyond any identified archaeologically significant features, up to the limits of the proposed area of impact.
 - Excavation will only be conducted when weather and lighting conditions meet the requirements of the *Standards and Guidelines for Consultant Archaeologists*. Following mechanical topsoil removal, all identified cultural features will be documented with photographs and drawings, and subsequently hand excavated. All architectural remains must be documented with scale drawing and photographs, and all structural features must be excavated according to the requirements for complex stratified sites. All excavated feature soil will be screened through 6 mm wire mesh to facilitate artifact recovery. A thorough photographic record of the Stage 4 mitigation must be maintained.
 - A report documenting the methods and results of the Stage 4 mitigation and laboratory analysis of the artifacts, together with an artifact inventory, and all necessary cartographic and photographic documentation of the artifacts, must be produced in accordance with the *Standards and Guidelines for Consultant Archaeologists*.
 - Until such time that Location 3 (Aihb-375) can undergo the recommended Stage 4 excavation, the site **should** be avoided and protected by establishing a "no-go" zone consisting of the site and a 10 m protective buffer. The proposed protected area must be shown on all contract drawings, when applicable, and be labelled as a "no-go" zone. Instructions **should** be provided to all construction staff to stay outside of this area. Any ground alterations to Location 3 (Aihb-375) and its protective buffer area **should** be avoided. This includes but is not necessarily limited to impacts from aggregate extraction, aggregate processing, vegetation clearance, and the construction of access roads or berms over the site. It also includes minor forms of soil disturbance, such as tree removal, minor landscaping, and utilities installation. If grading or other soil disturbing activities are anticipated to extend to the edge of the area to be avoided, then a temporary barrier must be erected around Location 3 (Aihb-375) and its 10 m protective buffer. No-go instructions must be given to all on site extraction crew and others involved in the day-to-day decisions on site, and a licensed archaeologist **should** be contracted to inspect and monitor the effectiveness of the avoidance strategy. After completion of these activities, a report will be prepared on the effectiveness of the strategy.
 - Location 5 has been registered with the MCM under Borden (Aihb-376). The Stage 3 Archaeological Assessment recommends the following:
 - Based on the CHVI documented within the artifact assemblage and the Euro-Canadian historical context for Location 5 (Aihb-376), the site will be subjected to Stage 4 mitigation by excavation as per Section 4.2 of the *Standards and Guidelines for Consultant Archaeologists* (MCM 2011). As the artifact assemblage postdates 1830, Section 4.2.7 Standard 2 applies, which requires all midden areas to be hand excavated, followed by mechanical topsoil removal of the remainder of the site. Based on the location of Location 5 (Aihb-376) within plough zone, and the relatively low counts of artifacts in each unit, no potential midden areas were identified during the Stage 3 Archaeological Assessment, therefore, topsoil removal of the site can proceed immediately. Mechanical topsoil removal **should** be undertaken with a backhoe or gradall-type excavator with a flat-edged bucket and should stop at subsoil interface, at which time the subsoil **should** be assessed for cultural features as per Section 4.2.3., Standard 2 and 3, and must be completed 10 m beyond any identified features, up to the limits of the proposed area of impact.
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 - A report documenting the methods and results of the Stage 4 mitigation and laboratory analysis of the artifacts, together with an artifact inventory, and all necessary cartographic and photographic documentation must be produced in accordance with the *Standards and Guidelines for Consultant Archaeologists*.
 - Until such time that Location 5 (Aihb-376) can undergo the recommended Stage 4 excavation, the site **should** be avoided and protected by establishing a "no-go" zone consisting of the site and a 10 m protective buffer. The proposed protected area must be shown on all contract drawings, when applicable, and be labelled as a "no-go" zone. Instructions **should** be provided to all construction staff to stay outside of this area. Any ground alterations to Location 5 (Aihb-376) and its protective buffer area **should** be avoided. This includes but is not necessarily limited to impacts from aggregate extraction, aggregate processing, vegetation clearance, and the construction of access roads or berms over the site. It also includes minor forms of soil disturbance, such as tree removal, minor landscaping, and utilities installation. If grading or other soil disturbing activities are anticipated to extend to the edge of the area to be avoided, then a temporary barrier must be erected around Location 3 (Aihb-376) and its 10 m protective buffer. No-go instructions must be given to all on site extraction crew and others involved in the day-to-day decisions on site, and a licensed archaeologist **should** be contracted to inspect and monitor the effectiveness of the avoidance strategy. After completion of these activities, a report will be prepared on the effectiveness of the strategy.
 - Should deeply buried archaeological resources be identified during ground disturbance activity associated with future development of the study area, ground disturbance activities **should** be immediately halted and the Archaeology Division of the Culture Programs Unit of the MCM notified.

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

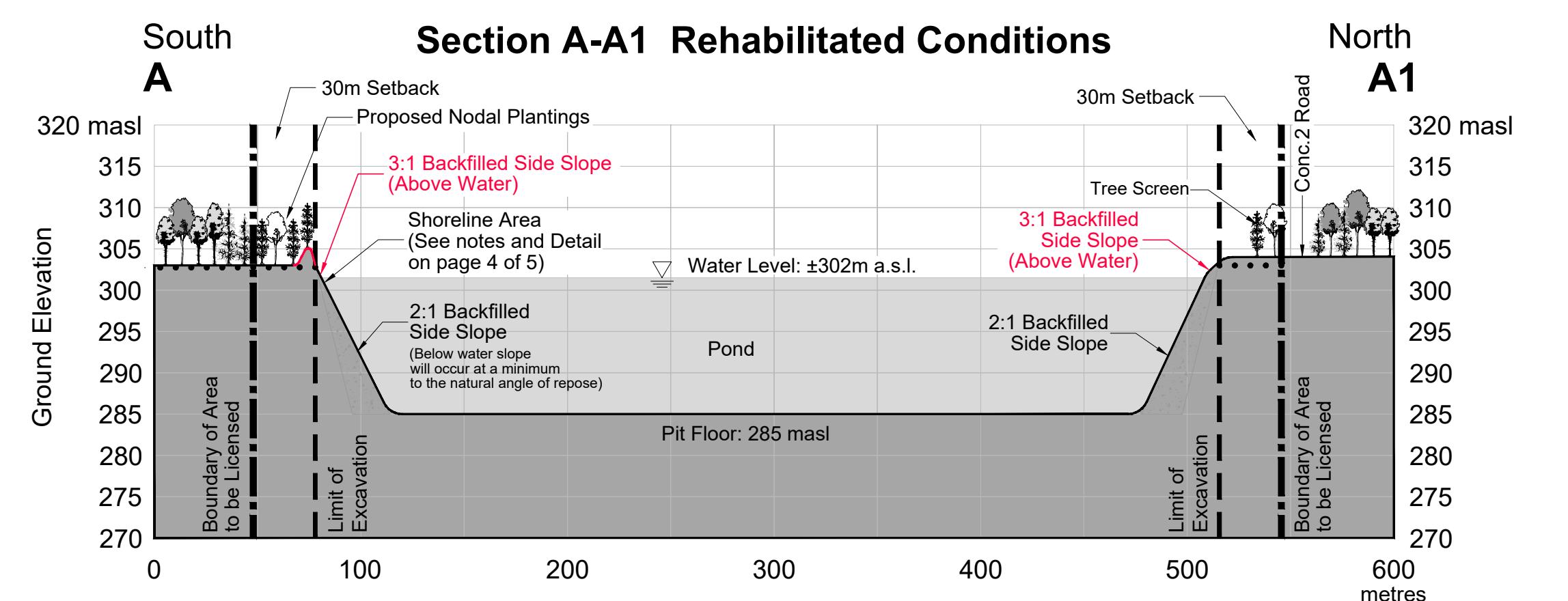
Legend
— Licensed Boundary
- - - Limit of Excavation

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



ii. Excavation will only be conducted when weather and lighting conditions meet the requirements of the *Standards and Guidelines for Consultant Archaeologists*. Following mechanical topsoil removal, all identified cultural features will be documented with photographs and drawings, and subsequently hand excavated. All architectural remains must be documented with scale drawing and photographs, and all structural features must be excavated according to the requirements for complex stratified sites. All excavated feature soil will be screened through 6 mm wire mesh to facilitate artifact recovery. A thorough photographic record of the Stage 4 mitigation must be maintained.

iii. A report documenting the methods and results of the Stage 4 mitigation and laboratory analysis of the artifacts, together with an artifact inventory, and all necessary cartographic and photographic documentation must be produced in accordance with the *Standards and Guidelines for Consultant Archaeologists*.

iv. Until such time that Location 3 (Aihb-375) can undergo the recommended Stage 4 excavation, the site **should be avoided and protected by establishing a "no-go" zone consisting of the site and a 10 m protective buffer. The proposed protected area must be shown on all contract drawings, when applicable, and be labelled as a "no-go" zone. Instructions **should** be provided to all construction staff to stay outside of this area. Any ground alterations to Location 3 (Aihb-375) and its protective buffer area **should** be avoided. This includes but is not necessarily limited to impacts from aggregate extraction, aggregate processing, vegetation clearance, and the construction of access roads or berms over the site. It also includes minor forms of soil disturbance, such as tree removal, minor landscaping, and utilities installation. If grading or other soil disturbing activities are anticipated to extend to the edge of the area to be avoided, then a temporary barrier must be erected around Location 3 (Aihb-375) and its 10 m protective buffer. No-go instructions must be given to all on site extraction crew and others involved in the day-to-day decisions on site, and a licensed archaeologist **should** be contracted to inspect and monitor the effectiveness of the avoidance strategy. After completion of these activities, a report will be prepared on the effectiveness of the strategy.**

c. Location 5 has been registered with the MCM under Borden (Aihb-376). The Stage 3 Archaeological Assessment recommends the following:

i. Based on the CHVI documented within the artifact assemblage and the Euro-Canadian historical context for Location 5 (Aihb-376), the site will be subjected to Stage 4 mitigation by excavation as per Section 4.2 of the *Standards and Guidelines for Consultant Archaeologists* (MCM 2011). As the artifact assemblage postdates 1830, Section 4.2.7 Standard 2 applies, which requires all midden areas to be hand excavated, followed by mechanical topsoil removal of the remainder of the site. Based on the location of Location 5 (Aihb-376) within plough zone, and the relatively low counts of artifacts in each unit, no potential midden areas were identified during the Stage 3 Archaeological Assessment, therefore, topsoil removal of the site can proceed immediately. Mechanical topsoil removal **should be undertaken with a backhoe or gradall-type excavator with a flat-edged bucket and should stop at subsoil interface, at which time the subsoil **should** be assessed for cultural features as per Section 4.2.3., Standard 2 and 3, and must be completed 10 m beyond any identified features, up to the limits of the proposed area of impact.**

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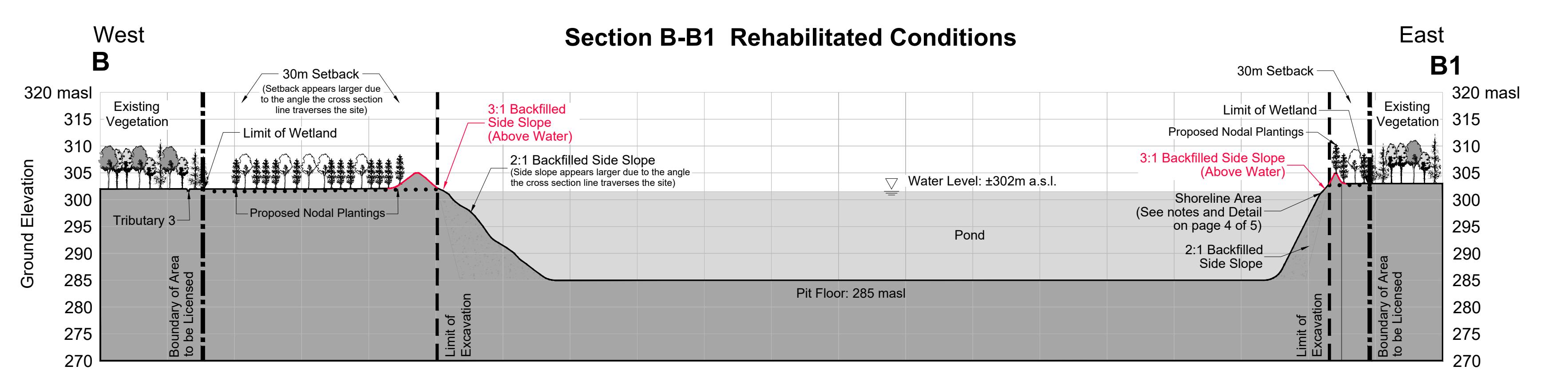
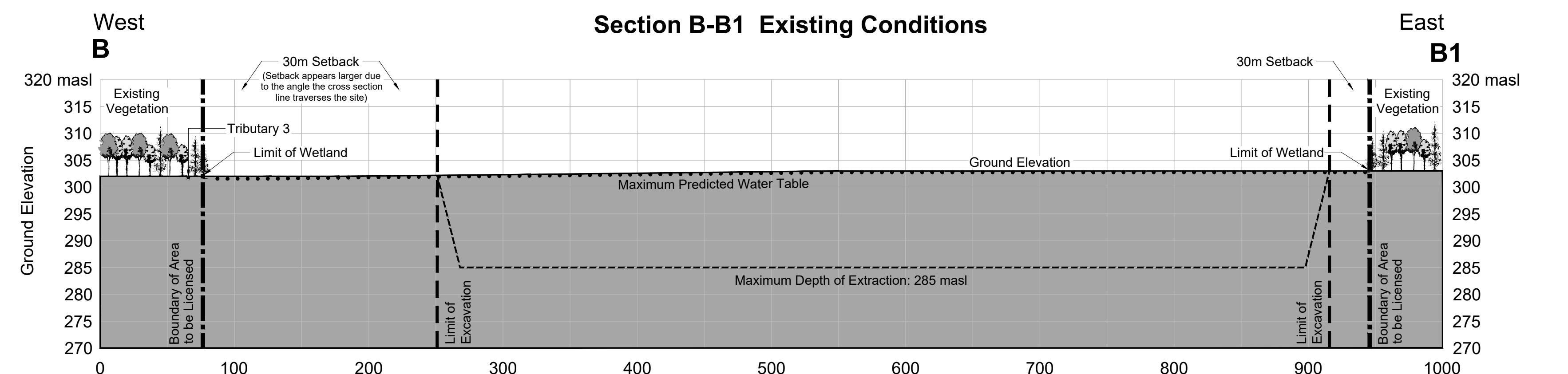
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d. Should deeply buried archaeological resources be identified during ground disturbance activity associated with future development of the study area, ground disturbance activities **should be immediately halted and the Archaeology Division of the Culture Programs Unit of the MCM notified.**



5. Traffic: "Revised Transportation Impact Study, CBM Aberfoyle South Lake Pit" February 2025 (Source: TYLin)

- Prior to pit operations, geotechnical investigations of Concession 2 and the Mill Creek culvert shall be undertaken as part of detailed design and in conjunction with the Township's planned improvements to Concession 2.
- To discourage pit trucks exiting the pit access from making a left-turn on to Concession 2, a custom "NO LEFT-TURN FOR TRUCKS" sign shall be installed when the pit becomes operational. Additionally, a NO HEAVY TRUCKS (Rb-62) sign shall also be installed on Concession 2 just west of the pit truck access for westbound traffic (subject to Township consent).
- To mitigate dust and debris, rumble bars on the pit truck access shall be installed.

6. Agriculture: "Agriculture Considerations, Aberfoyle South Expansion" September 2023 (Source: MHBC Planning)

Implement all recommended mitigation measures pertaining to water quality and quantity, noise, dust, and traffic in the ARA site plans.

7. Dust: "Best Management Practices Plan for the Control of Fugitive Dust at Aberfoyle South Pit Expansion" October 2023 (Source: WSP)

The purpose of this plan is to document the Best Management Practices for the control of fugitive dust emissions from activities taking place at the pit. The licensee shall follow these Best Management Practices including preventative procedures and reactive control measures e.g. sweeping and/or watering to reduce vehicle track-out at paved pit entrance, limiting on-site vehicle speeds, reduce material handling during high wind conditions, etc. An inspection of the conformity with the BMPs will be documented monthly and a watering log must be maintained to record dust control activity. The BMPs shall be reviewed periodically and updated if required.

8. Visual: "Visual Impact Assessment Report, Proposed CBM Aberfoyle South Pit Expansion" March 2024 (Source: MHBC)

Enhanced plantings shall be implemented along the Concession Road 2 frontage in the vicinity of 6966 Concession Road 2 and/or an extended visual berm shall be constructed at the northern extraction limit, in order to provide for enhanced screening during leaf-off conditions.

Site Plan Amendments

No.	Date	Description	By

PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE
200-540 BINGMANS CENTRE DR, KITCHENER, ON, N2B 3K9 | P: 519.575.3650 | WWW.MHBCPLAN.COM

MNR Approval Stamp



Stamp

Applicant

Applicant's Signature

VOTORANTIM cimentos cbm

55 Industrial St, 4th Floor Toronto, Ontario M4G 3W9

Telephone: (416) 696-4411

Project

Aberfoyle South Lake Pit

ARA Licence Reference No.

Pre-approval review:

Revs. to address Agency and Public comments - Jan. 2026

For application submission - November 2023

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

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

Horizontal Scale

50 0 METRES 50 100

Drawn By D.G.S. File No. Y321AB

Checked By N.D.

File