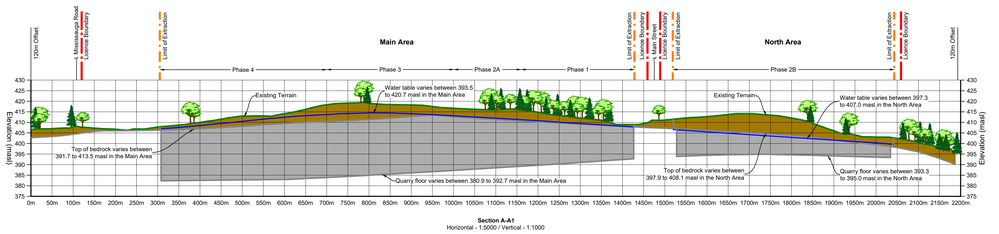

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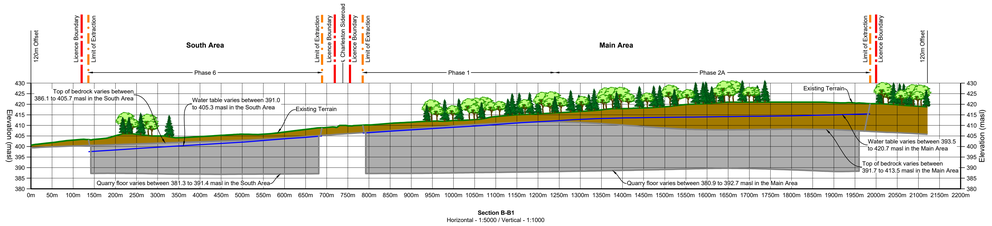

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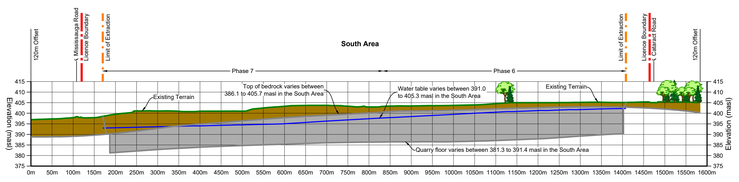

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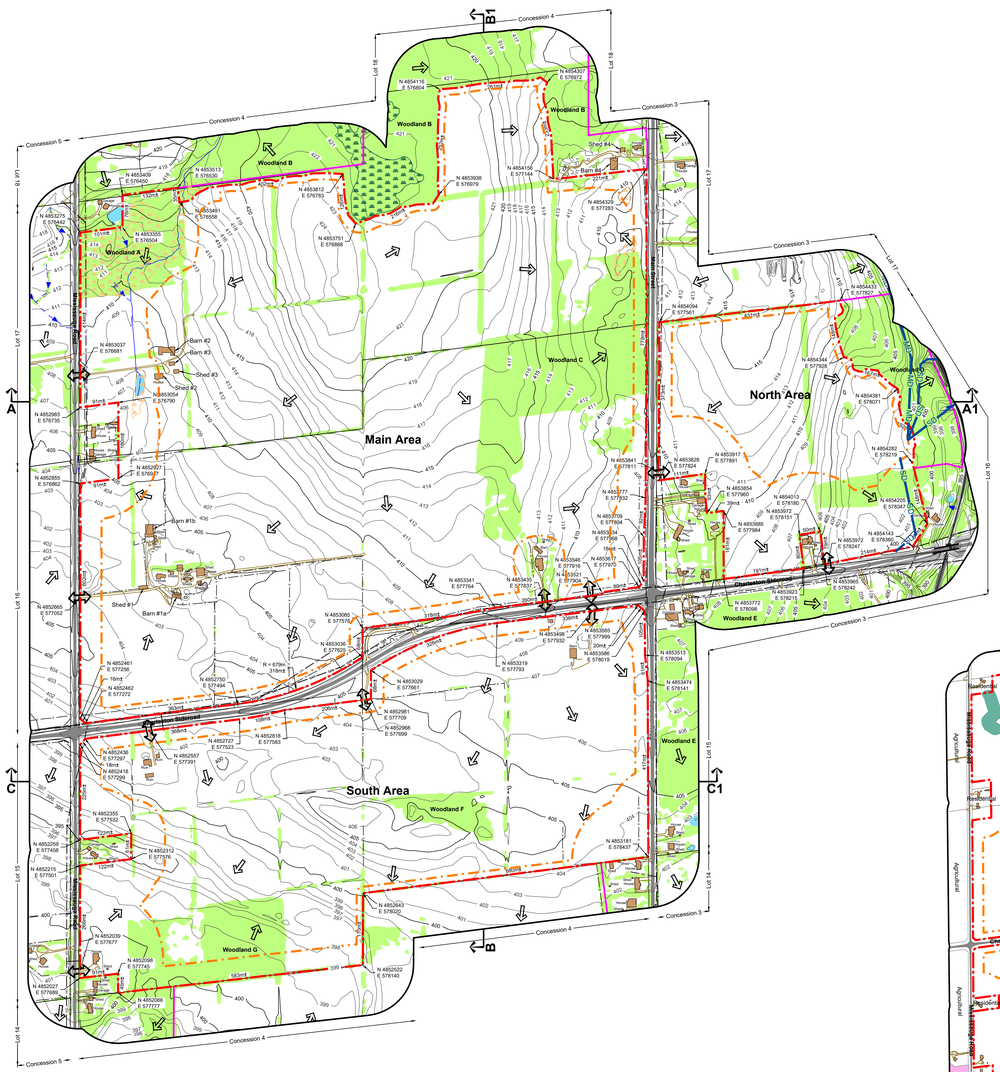


A. General

1. This site plan is prepared under the Aggregate Resources Act for a Class 'A' licence for a pit and quarry below the ground water table.
2. Area Calculations:
   - 2.1. Licence (total) **261.2 hectares**
     - Main Area 151.5 hectares
     - North Area 30.3 hectares
     - South Area 79.4 hectares
3. Northing and easting coordinates have been provided for select corners of the licence boundaries and at the centre point of every entrance and exit that intersects the licence boundaries on the plan view of this drawing.

B. References

1. Contours were obtained from First Base Solutions and are displayed in one metre intervals. Elevations shown are in metres above sea level (MASL).
2. Topographic information was obtained from numerous sources including First Base Solutions, Land Information Ontario and field investigations for technical reports.
3. All topographic features and structures are shown to scale in Universal Transverse Mercator (UTM) with North American Datum 1983 (NAD83), Zone 17 (metre), Central Meridian 81 degrees west coordinate system.
4. The Main Area licence boundary was established based on a compiled plan of survey completed by Delph & Jenkins North Limited, Ontario Land Surveyors, on February 14, 2022 which utilized the following information: Plan 43R-39683, 43R-24507, 43R-22355, 43R16517, 43R-17782, 43R-4021, 43R-21423, 43R-2743, and instruments RO1144974 and RO1014831. The North and South Area licence boundaries are based on the Municipal Property Assessment Corporation's parcel fabric.
5. Existing zoning on and within 120 metres of the licence boundaries are from the Town of Caledon Zoning By-law 2006-50, Schedule 'A', Zone Maps: 64 (last updated August 21, 2015), 74 (last updated March 24, 2016) and 75 (last updated August 21, 2015). The Main Area is currently zoned Agricultural Zone (A1) and Environmental Policy Area 2 Zone (EPA2) while the North and South Areas are currently zoned Agricultural Zone (A1).
6. Existing land use designations within 120 metres of the licence boundaries are from the Niagara Escarpment Plan - Map 4, dated June 1, 2017.
7. Land use information and structures identified on and within 120 metres of the licence boundaries were determined using aerial photography captured in the spring of 2021 from First Base Solutions.

C. Drainage

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

D. Groundwater

1. The maximum predicted groundwater table, based on groundwater levels monitored over a 12 month period from January to December 2021, are as follows:
   - 1.1. Main Area - Ranges from 420.7 to 393.5 masl (north to southwest)
   - 1.2. North Area - Ranges from 407.0 to 397.3 masl (northwest to southeast)
   - 1.3. South Area - Ranges from 405.3 to 391.0 masl (northwest to south)
2. The maximum predicted groundwater table elevations are shown in each cross section on drawing 1 of 4 and 4 of 4.

E. Site Access and Fencing

1. The Main Area has four existing access points (two on Mississauga Road and two on Charleston Sideroad), the North Area has two existing access points (one on Main Street and one on Charleston Sideroad), and the South Area has four existing access points (one on Mississauga Road and three on Charleston Sideroad). None of the existing access points are gated.
2. Post and wire fencing (unless noted otherwise) exists in the locations shown on the plan view.

F. Significant Natural and Human-Made Features on and Within 120 Metres

1. There is a pond and Ministry of Natural Resources and Forestry (MNRF) identified unevaluated wetlands within the Main Area licence boundary.
2. There is Significant Wildlife Habitat and habitat for endangered and threatened species within the Main and South Area licence boundary.
3. There are Significant Woodlands, Significant Wildlife Habitat, habitat for endangered and threatened species and MNRF identified evaluated wetlands (non-significant) outside of the licence boundaries within 120 metres.
4. See Key Natural Heritage Features Schematic on this drawing for additional information.

G. Aggregate Related Site Features

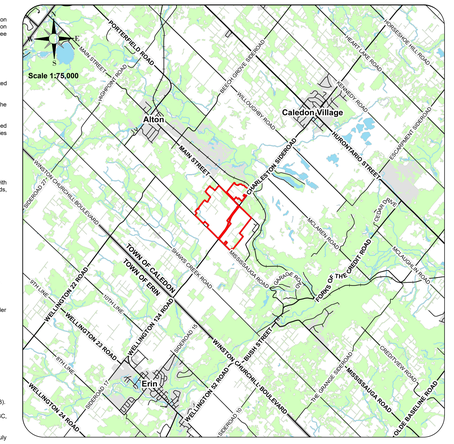
1. There are no existing aggregate operations or features on-site such as processing areas with stationary or portable equipment, stockpiles, recyclable materials, scrap, fuel storage, haul roads, berms or excavation faces.

H. Cross Sections

1. Cross sections depicting existing conditions are shown on this drawing.
2. Cross sections depicting post rehabilitation conditions are shown on drawing 4 of 4.
3. Cross section locations are identified on the plan view of each drawing.

I. Technical Reports - References

1. Agricultural Impact Assessment, Colville Consulting Inc., December 16, 2022 (Revised July 2023).
2. Stage 1 and 2 Archaeological Assessment, Golder Associates Ltd., November 14, 2022.
3. Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment, Golder Associates Ltd., December 16, 2022 (Revised July 2023).
4. Air Quality Impact Assessment, Golder Associates Ltd., December 16, 2022 (Revised July 2023).
5. Noise Report, Golder Associates Ltd., December 16, 2022 (Revised July 2023).
6. Blast Impact Assessment, Golder Associates Ltd., December 16, 2022 (Revised July 2023).
7. Natural Environment Report, Golder Associates Ltd., December 16, 2022 (Revised July 2023).
8. Water Resources Report, Golder Associates Ltd., December 16, 2022 (Revised July 2023).
9. Visual Impact Assessment Report, Golder Associates Ltd., December 16, 2022 (Revised July 2023).
10. Planning Justification Report and Aggregate Resources Act Summary Statement, GSAI and MHBC, December 16, 2022 (Revised July 2023).
11. Maximum Predicted Water Table Report, Golder Associates Ltd., December 16, 2022 (Revised July 2023).



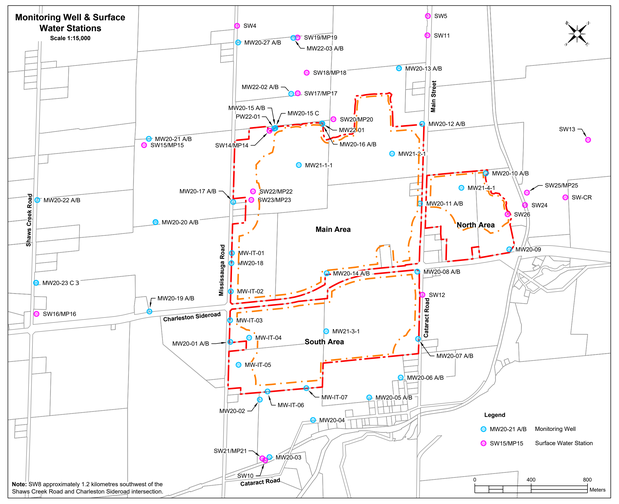


Table 1 Notes:

1. Groundwater level to be monitored by logger set to record on 15-min intervals, with quarterly logger downloads and quarterly manual measurements.
2. Surface water level and temperature to be monitored by logger set to record on 15-min intervals, with quarterly logger downloads and quarterly manual measurements.
3. Water discharge from the Settling Pond to be monitored as per requirements to be approved by the MECP based on the Permit to Take Water and Environmental Compliance Approval to be obtained by the Applicant prior to the initiation of any off-site discharge.
4. These wells only need to be monitored until they are required to be decommissioned in accordance with MECP requirements to allow for on-site operations.
5. Groundwater level to be monitored as per requirements to be approved by the MECP based on the Permit to Take Water and Environmental Compliance Approval to be obtained by the Applicant prior to the implementation of groundwater mitigation measures.

Table 2 Notes:

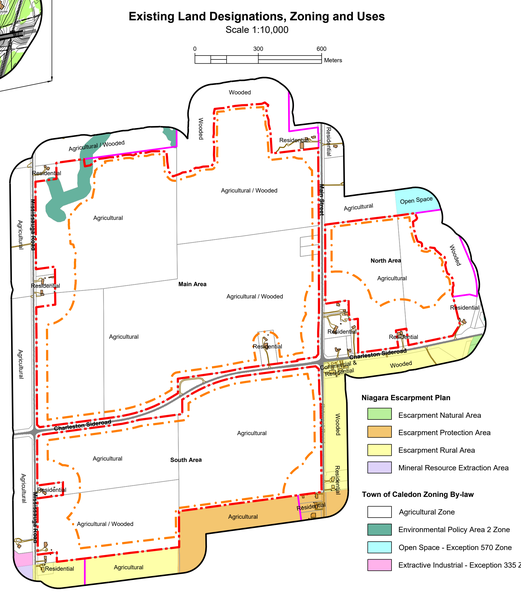
1. Groundwater level to be monitored by logger set to record on 15-min intervals, with quarterly logger downloads and quarterly manual measurements.
2. Surface water level and temperature to be monitored by logger set to record on 15-min intervals, with quarterly logger downloads and quarterly manual measurements.
3. Located on lands owned or controlled by the licensee or where the licensee has an agreement in place for long-term monitoring.
4. Located on public lands and monitoring to be completed subject to permission by the applicable public authority.
5. Water quality to be sampled and monitored in the Credit River 2x / year (April and September) for: Hardness (CaCO3), General Chemistry (i.e., pH, temperature, conductivity, dissolved oxygen, turbidity), Total Ammonia-N, Total Phosphorus, Alkalinity (Total as CaCO3), Dissolved Chloride (Cl-), Nitrite (N), Nitrate (N), Nitrate + Nitrite (N), Total Kjeldahl Nitrogen (TKN), Total Suspended Solids, Total Oil & Grease, Total Metals.

Table 1: On-Site Groundwater and Surface Water Monitoring Program

Name	Type	Northing	Easting	Monitoring Scope
MW20-01 A/B	Mon Well	4852268	577459	Water level [1]
MW20-07 A/B	Mon Well	4853250	578360	Water level [1]
MW20-08 A/B	Mon Well	4853575	578010	Water level [1]
MW20-09	Mon Well	4854157	578344	Water level [1]
MW20-10 A/B	Mon Well	4854407	577838	Water level [1]
MW20-11 A/B	Mon Well	4853921	577672	Water level [1]
MW20-12 A/B	Mon Well	4854321	577272	Water level [1]
MW20-14 A/B	Mon Well	4853100	577576	Water level [1]
MW20-15 A/B	Mon Well	4853544	576577	Water level [1]
MW20-15 C	Mon Well	4853544	576577	Water level [1]
MW20-16 A/B	Mon Well	4853807	576785	Water level [1]
MW20-17 A/B	Mon Well	4852966	576752	Water level [1]
MW20-18	Mon Well	4852659	577056	Water level [1]
MW21-1-1	Mon Well	4853485	576882	Water level [1,4]
MW21-2-1	Mon Well	4854021	577279	Water level [1,4]
MW21-3-1	Mon Well	4852814	577872	Water level [1,4]
MW21-4-1	Mon Well	4854211	577793	Water level [1,4]
MW22-01	Mon Well	4853808	576782	Water level [1]
MW22-02 A/B	Mon Well	4853794	576478	Water level [1]
MW22-03 A/B	Mon Well	4854078	576201	Water level [1]
PW22-01	Mon Well	4853535	576574	Water level [1]
SW14/MP14	SW/MP	4855098	578165	Water level & temperature [2]
SW22/MP22	SW/MP	4853125	576800	Water level & temperature [2]
SW23/MP23	SW/MP	4853050	576840	Water level & temperature [2]
SW26	SW	4854320	578155	TBD by MECP PTTW & ECA Approvals [3]
MW-IT-01	Mon Well	4852710	577009	Water level [5]
MW-IT-02	Mon Well	4852518	577201	Water level [5]
MW-IT-03	Mon Well	4852373	577346	Water level [5]
MW-IT-04	Mon Well	4852386	577529	Water level [5]
MW-IT-05	Mon Well	4852199	577617	Water level [5]
MW-IT-06	Mon Well	4852218	577896	Water level [5]
MW-IT-07	Mon Well	4852434	578068	Water level [5]

Table 2: Off-Site Groundwater and Surface Water Monitoring Program

Name	Type	Northing	Easting	Monitoring Scope
MW20-02	Mon Well	4852138	577900	Water level [1,3]
MW20-03	Mon Well	4851907	578244	Water level [1,3]
MW20-04	Mon Well	4852313	578265	Water level [1,3]
MW20-05 A/B	Mon Well	4852713	578423	Water level [1,3]
MW20-06 A/B	Mon Well	4852973	578474	Water level [1,3]
MW20-13 A/B	Mon Well	4854473	576873	Water level [1,3]
MW20-13 C	Mon Well	4854473	576873	Water level [1,3]
MW20-19 A/B	Mon Well	4852000	576907	Water level [1,3]
MW20-20 A/B	Mon Well	4852468	576476	Water level [1,3]
MW20-20 C	Mon Well	4852468	576476	Water level [1,3]
MW20-21 A/B	Mon Well	4852840	576014	Water level [1,3]
MW20-22 A/B	Mon Well	4851966	575785	Water level [1,3]
MW20-23 A/B	Mon Well	4851556	576206	Water level [1,3]
MW20-23 C	Mon Well	4851556	576206	Water level [1,3]
MW20-27 A/B	Mon Well	4853770	579564	Water level [1,3]
SW4	SW	4852963	574760	Water level and temperature [2,4]
SW5	SW	4853846	575863	Water level and temperature [2,4]
SW8	SW	4851688	576054	Water level and temperature [2,4]
SW10	SW	4850628	579128	Water level and temperature [2,4]
SW11	SW	4851869	578238	Water level and temperature [2,4]
SW12	SW	4854781	576842	Water level and temperature [2,4]
SW13	SW	4853488	578153	Water level and temperature [2,4]
SW1/MP15	SW/MP	4853501	578562	Water level and temperature [2,3]
SW16/MP16	SW/MP	4852785	576024	Water level and temperature [2,3]
SW17/MP17	SW/MP	4853803	576488	Water level and temperature [2,3]
SW18/MP18	SW/MP	4853993	576396	Water level and temperature [2,3]
SW19/MP19	SW/MP	4854106	576226	Water level and temperature [2,3]
SW20/MP20	SW/MP	4853890	576819	Water level and temperature [2,3]
SW21/MP21	SW/MP	4851865	578215	Water level and temperature [2,3]
SW24	SW	4854455	578193	Water level and temperature [2,4]
SW25/MP25	SW/MP	4854525	578138	Water level and temperature [2,4]
SW-CR	SW	4854700	578350	Water quality [4,5]



Legal Description

Part of Lots 15-18, Concession 4 WSCR and Part of Lot 16, Concession 3 WSCR
(former geographic Township of Caledon)
Township of Caledon
Region of Peel

Legend

- Licence Boundary
- Limit of Extraction
- Contours with Elevation (Metres above sea level (MASL))
- Public Road
- Driveway
- Railway
- Watercourse (Permanent (Direction of flow indicated by arrows))
- Watercourse (Intermittent (Direction of flow indicated by arrows))
- Water Feature
- Wooded Area
- Wetland (MNRF Evaluated - Other)
- Wetland (MNRF - Unevaluated)
- Additional Land Owned by Licensee
- 120m Offset From Draft Licence Boundaries
- Lots and Concessions
- Parcel Fabric
- Overhead Hydro
- Pipeline (Enbridge Gas Inc.)
- Fence (1.2 m post & wire fence unless otherwise noted)
- Entrance / Exit
- Direction of Surface Drainage
- Building/Structure
- Cross Sections

Legend - Cross Sections

- Licence Boundary
- Limit of Extraction
- Existing Grade
- Maximum Predicted Water Table
- Maximum Depth of Excavation
- Topsoil and/or Overburden
- Aggregate Available for Extraction

Site Plan Acronyms

1. ARA - Aggregate Resources Act
2. MECP - Ministry of the Environment, Conservation and Parks
3. MCCS - Ministry of Government and Consumer Services
4. DFO - Department of Fisheries and Oceans Canada
5. MNRF - Ministry of Natural Resources and Forestry
6. TSSA - Technical Standards and Safety Authority
7. MTCS - Ministry of Tourism, Culture and Sport
8. ECA - Environmental Compliance Approval
9. BMPP - Best Management Practices Plan
10. WWIS - Water Well Information System
11. HIA - Heritage Impact Assessment
12. CVC - Credit Valley Conservation
13. MASL - Metres above sea level
14. PTTW - Permit to Take Water
15. NTS - Not to Scale

Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licencing)

No.	Date	Description	By
1	August 2023	Revised drawing to incorporate updated technical report recommendations	C.P.

MHBC PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE
113 COLLIER STREET, BARRIE, ON, L4M 1H2 | P: 705.728.0045 F: 705.728.2010 | WWW.MHBCPLAN.COM

MHBC Stamp
Brian Zeman
Is authorized by the Ministry of Northern Development, Mines, Natural Resources and Forestry pursuant to Subsection 0.2(3)(e) of Ontario Regulation 244/97 to prepare and certify site plans.

MHBC Stamp
Christopher Poole
Is authorized by the Ministry of Northern Development, Mines, Natural Resources and Forestry pursuant to Subsection 0.2(3)(f) of Ontario Regulation 244/97 to prepare and certify site plans.

Applicant

CBM Aggregates a Division of
St. Marys Cement Inc. (Canada)
55 Industrial Street
Toronto, Ontario
M4G 3W9

Project

Caledon Pit & Quarry

18722 Main Street, Caledon, Ontario

MNRF Licence Reference No. 626600

Applicant's Signature

Plan Scale: 1:5000 (Arch E)
0 150 300 Meters

Date August 2023
Drawn By C.P.
Checked By B.Z.
File No. 8816AF

File Name

Existing Features

Drawing No.

1 of 4

File Path N:\Brian\8816AF - CBM - Caledon Quarry\Drawings\Site Plan\CAD\8816AF - Site Plan.dwg

A. General

1. Area Calculations:

   1.1. Licence (total) **261.2 hectares**

Main Area	151.5 hectares
North Area	30.3 hectares
South Area	79.4 hectares

   1.2. Limit of Extraction (total) **199.5 hectares**

Main Area	123.6 hectares
North Area	16.0 hectares
South Area	59.9 hectares

2. The maximum annual tonnage is 2,500,000.
3. The following structures shall be permitted within the Building Location Area identified on the plan view of this drawing:

Building	Width	Length	Area
Scale House	3.7 m	12.2 m	45.1 m²
Quality Control Lab	3.7 m	12.2 m	45.1 m²
Maintenance Shop	36.6 m	45.7 m	1,672.6 m²
Office	13.7 m	18.3 m	250.7 m²

4. The licensee intends to retain ownership or control of additional land containing a house (to the northwest of the Main Area) during the extraction operation which shall be vacated prior to, and remain vacant while, extraction is occurring within 500 metres. Should the house remain occupied or the property sold, the licensee shall notify the MNRF immediately and provide mitigation necessary to ensure Provincial noise, air, dust and ground vibration limits are satisfied.
5. Table 3 on drawing 3 of 4 identifies the number of sensitive receptors within 500 metres of the licence boundary and the distance from the licence boundary to each receptor.

B. Hours of Operation

1. Activities to prepare the Site, such as the stripping of topsoil, construction of the berms, or activities related to the rehabilitation of the Site after the extraction is completed are considered to be construction activities and are only permitted to occur during the daytime period (7:00am to 7:00pm) Monday to Friday except statutory holidays.
2. Activities for site operations, such as extraction, processing and drilling are permitted to occur during the daytime period (7:00am to 7:00pm) Monday to Saturday, except statutory holidays.
3. Activities related to shipping are permitted from 6:00am to 7:00pm Monday to Saturday, except statutory holidays. Shipping is permitted from 7:00pm to 6:00am only where required to support public authority contracts that necessitate the delivery of aggregates during these hours. Shipping activities from 7:00pm to 6:00am shall be limited to highway trucks and shipping loaders and no other operations shall be permitted.
4. Blasting is permitted from 8:00am to 6:00pm Monday to Friday, except statutory holidays.

C. Site Access and Fencing

1. The existing eastern access point on Charleston Sideroad and the southern access point on Mississauga Road for the Main Area (as shown on drawing 1 of 4) shall be removed during site preparation of the Main Area. The existing western access point on Charleston Sideroad (as shown on the plan view) shall remain to access the CBM Caledon Pit / Quarry office and quality control lab. The northern access point on Mississauga Road (as shown on the plan view) may remain for maintenance purposes only.
2. The two existing access points for the North Area (as shown on drawing 1 of 4) may remain, and shall not be gated, while the North Area is utilized for agricultural purposes (see Section N Variations from Control and Operation Standards). The existing access points on Main Street and Charleston Sideroad (as shown on the plan view) may remain for maintenance purposes only.
3. The four existing access points for the South Area (as shown on drawing 1 of 4) may remain, and shall not be gated, while the South Area is utilized for agricultural purposes (see Section N Variations from Control and Operation Standards). During site preparation of the South Area, the three existing access points on Charleston Sideroad shall be removed. The site access on Mississauga Road (as shown on the plan view) may remain for maintenance purposes only.
4. The main operational entrance/exit is proposed in the location shown on the plan view of this drawing, subject to an agreement with the Region of Peel. See site entrance simulation on this drawing.
5. The North and South Areas shall be accessed by tunnels beneath both Main Street and Charleston Sideroad in the locations shown on the plan view of this drawing, subject to an agreement with the Region of Peel (see Section N Variations from Control and Operation Standards). Temporary access points shall be permitted in the North and South Areas to facilitate tunnel construction.
6. The operational, office / quality control lab, maintenance and/or temporary access points shall be gated, kept closed during hours of non-operation and maintained throughout the life of the licence.
7. Page wire and/or hi-tensile fencing, a minimum 1.2 metres in height, shall be erected along the licence boundaries and the perimeter of the cell tower area (see Cell Tower Detail on this drawing) in a phased approach (see Section N Variations from Control and Operation Standards). If the cell tower area is removed, fencing shall be erected along the licence boundary. Prior to site preparation commencing in the Main, North or South Areas, fencing shall be installed along the perimeter of that Area.
8. In order to minimize disturbance to existing vegetation, perimeter fencing may be offset up to five metres from the licence boundary (see Section N Variations from Control and Operation Standards). Where perimeter fencing is offset from the licence boundary, the licence boundary shall be demarcated with highly visible T-bars with PVC every 30 metres, or less, to maintain visibility from one T-bar to the next.
9. All fencing shall be maintained for the life of the licence.
10. A sign of at least 0.5 metres by 0.5 metres in size shall be erected and maintained at the operational entrance/exit that says in legible words "This site is licensed under the Aggregate Resources Act licence # 626600."

D. Drainage and Siltation Control

1. Drainage of undisturbed areas will continue in the directions shown on drawing 1 of 4.
2. Silt fencing shall be installed in a phased approach. Prior to site preparation commencing in the Main, North or South Areas, silt fencing shall be installed on the exterior side toe of perimeter berms and along the dripline of significant woodlands as shown on the plan view of this drawing. See Natural Environment note 9.j under Section O Technical Recommendations on drawing 3 of 4 for additional information.
3. Silt fencing shall be inspected prior to site preparation activities to ensure it was installed correctly and during extraction operations to ensure that the fencing is being maintained and functioning properly. Any issues that are identified shall be rectified immediately.
4. Silt fencing shall not be removed until re-vegetation and soil stabilization has occurred to limit sedimentation of the setbacks.

E. Site Preparation

1. Existing structures within the licence boundary outside of the Cultural Heritage Potential areas shall be demolished or removed prior to extraction within each Area. Structures within the Cultural Heritage Potential areas shall be subject to the cultural heritage technical recommendations in Section O.4 on drawing 3 of 4.
2. Timber resources shall be salvaged for use as saw logs, fence posts and fuel wood where appropriate. Cleared stumps and brush may be burned (with applicable permits), used for aquatic habitat enhancement or mulched for use in progressive rehabilitation.
3. Ensure all requirements for natural environment notes 9.a to 9.d under Section O Technical Recommendations on drawing 3 of 4 are met, if applicable.
4. Topsoil and overburden shall be stripped and stored separately.
5. Topsoil and overburden shall be placed in noise attenuation/visual berms or used immediately for progressive rehabilitation.
6. Excess topsoil and overburden not required for immediate use in berms or progressive rehabilitation may be temporarily stockpiled within the limit of extraction in the location shown on the plan view of this drawing. Topsoil and overburden stockpiles in this location shall not exceed eight metres in height and may be located within 30 metres of the licence boundary (see Section N Variations from Control and Operation Standards).
7. In situations where excess topsoil and overburden has to be temporarily stockpiled outside the area shown on the plan view of this drawing, stockpiles shall be located within the limit of extraction and remain a minimum of 30 metres from the licence boundary and 90 metres from a property with a residential use.
8. 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.
9. No topsoil shall be removed from the site (see Section N Variations from Control and Operation Standards).
10. Ensure the cultural heritage and archaeology technical recommendations in Sections O.4 and O.5 on drawing 3 of 4 have been completed for the phase undergoing site preparation, if applicable.

F. Berms and Screening

1. Berms shall not be located within three metres of the licence boundary or cell tower area.
2. Berms shall be a minimum of five metres in height, except for a section of the berm along the western extent of the Main Area, which shall be a minimum of seven metres in height (see plan view for location).
3. Berm side slopes shall not exceed 2:1 (horizontal : vertical).
4. The minimum width of the berm crest shall be two metres.
5. See Typical Acoustic and Visual Berm detail on this drawing for additional information.
6. Berms shall be seeded in accordance with visual note 6.c under Section O Technical Recommendations on drawing 3 of 4.
7. Existing vegetation within the setbacks shall be maintained where berms are not required.

G. Site Dewatering

1. Refer to the water technical recommendations in Section O.7 on drawing 3 of 4 for information regarding site dewatering.

H. Extraction Sequence

1. This plan depicts a schematic operations for the property based on the best information available at the time of preparation.
2. Extraction shall occur in eight phases (Phases 1, 2A, 2B, 3, 4, 5, 6 and 7) as shown on the plan view.
3. Notwithstanding the operational 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 shall require approval from the MNRF.
4. Phase 1
   4.1. Prepare Phase 1 for extraction and ensure all requirements in Sections "C" through "G" of this drawing are met.
   4.2. Strip Phase 1 and use the material to construct the perimeter berm for the Main Area.
   4.3. Extract sand and gravel in a northeasterly direction to top of bedrock.
   4.4. Once bedrock is reached, establish facility pad for permanent processing area at an elevation of 397.0 masl.
   4.5. Commence quarrying operations through sinking cut.
   4.6. Continue extracting the pit and quarry in a northeasterly direction before proceeding in a northwesterly direction.
   4.7. Phase 1 may be extracted to a maximum depth between 384.0 and 392.7 masl.
   4.8. Progressive rehabilitation shall consist of backfilling the southeast and northeast phase boundary to establish the final elevations and grades depicted on the plan view for drawing 4 of 4.
   4.9. Prepare Phases 2A and 2B for extraction and ensure all requirements in Sections "C" through "G" of this drawing are met.
5. Phases 2A
   5.1. Strip Phase 2A and use the material to construct the perimeter berm for the North Area, for progressive rehabilitation in Phase 1 or temporarily stockpile the material in the topsoil and overburden stockpile area.
   5.2. Extract pit and quarry in a northwesterly direction before proceeding in a southwesterly direction.
   5.3. Phase 2A may be extracted to a maximum depth between 387.2 and 392.7 masl.
   5.4. Establish tunnel beneath Main Street to connect with Phase 2B.
   5.5. Progressive rehabilitation shall consist of backfilling a portion of the phase to pre-extraction grades as well as the side slopes to establish the final elevations and grades depicted on the plan view of drawing 4 of 4.
6. Phase 2B
   6.1. Strip Phase 2B and use the material for progressive rehabilitation in Phases 1 and 2A or temporarily stockpile the material in the topsoil and overburden stockpile area.
   6.2. Create sinking cut to establish tunnel beneath Main Street to connect with Phase 2A.
   6.3. Extract pit and quarry in a northeasterly direction before proceeding in a southeasterly direction.
   6.4. Phase 2B may be extracted to a maximum depth between 393.3 and 395.0 masl.
   6.5. Progressive rehabilitation shall consist of backfilling the side slopes and quarry floor to establish the final elevations and grades depicted on the plan view of drawing 4 of 4.
   6.6. Prepare Phase 3 for extraction and ensure all requirements in Sections "C" through "G" of this drawing are met.
7. Phase 3
   7.1. Use the topsoil and overburden stockpiled in Phase 3, as well as the existing material, for progressive rehabilitation in Phases 2A and 2B.
   7.2. Construct a slurry wall / grout zone in the southwest setback of the Main Area prior to extraction in Phase 3.
   7.3. Extract pit and quarry in a southwest direction.
   7.4. Phase 3 may be extracted to a maximum depth between 383.9 and 388.6 masl.
   7.5. Progressive rehabilitation shall consist of backfilling a portion of the phase to pre-extraction grades and side sloping to establish the final elevations and grades depicted on the plan view of drawing 4 of 4.
   7.6. Prepare Phase 4 for extraction and ensure all requirements in Sections "C" through "G" of this drawing are met.
8. Phase 4
   8.1. Use the topsoil and overburden stockpiled in Phase 4, as well as the existing material, for progressive rehabilitation in Phases 2A, 2B, 3, 4 and backfilling the tunnel beneath Main Street.
   8.2. Construct infiltration trenches in the southwest setback of the Main Area prior to extraction in Phase 4.
   8.3. Extract pit and quarry in a southwest direction before proceeding in a northwesterly direction.
   8.4. Phase 4 may be extracted to a maximum depth between 382.3 and 385.9 masl.
   8.5. Progressive rehabilitation shall consist of backfilling a portion of the phase to pre-extraction grades as well as side slopes to establish the final elevations and grades depicted on the plan view of drawing 4 of 4.
   8.6. Prepare Phase 5 for extraction and ensure all requirements in Sections "C" through "G" of this drawing are met.
9. Phase 5
   9.1. Strip Phase 5 and use the material for progressive rehabilitation in Phases 4 and 5 and any other areas requiring backfilling within the Main area. Any remaining topsoil and overburden shall is used for the future progressive rehabilitation in Phases 6 and 7.
   9.2. Extract pit and quarry in a southeasterly direction.
   9.3. Phase 5 may be extracted to a maximum depth between 380.9 and 384.7 masl.
   9.4. Progressive rehabilitation shall consist of backfilling the side slopes (where applicable) to establish the final elevations and grades depicting on the plan view of drawing 4 of 4.
   9.5. A portion of the quarry face in the southwest corner of Phase 5 shall remain vertical (see Section N. Variations from Control and Operation Standards). The exposed rock face will be approximately 128 metres in length.
   9.6. Prepare Phase 6 for extraction and ensure all requirements in Sections "C" through "G" of this drawing are met.
10. Phase 6
    10.1. Strip Phase 6 and use the material to construct the perimeter berm for the South Area or temporarily stockpile for future use with progressive rehabilitation.
    10.2. Construct slurry wall / grout zone and infiltration trenches in the southwest and southeast setback of the South Area as shown on the plan view.
    10.3. Create sinking cut to establish tunnel beneath Charleston Sideroad to connect with Phase 1.
    10.4. Extract pit and quarry in a southeasterly direction.
    10.5. Phase 6 may be extracted to a maximum depth between 385.0 and 391.4 masl.
    10.6. Progressive rehabilitation shall consist of backfilling the quarry floor and side slopes to establish the final elevations and grades depicted on the plan view of drawing 4 of 4.
    10.7. Prepare Phase 7 for extraction and ensure all requirements in Sections "C" through "G" of this drawing are met.
11. Phase 7
    11.1. Strip Phase 7 and use the material for progressive rehabilitation in Phases 6 and 7.
    11.2. Extract pit and quarry in a southwesterly direction before proceeding in a southeasterly direction.
    11.3. Phase 7 may be extracted to a maximum depth between 381.3 and 386.6 masl.
    11.4. Extract facility pad in Main Area.
    11.5. Progressive rehabilitation shall consist of backfilling the quarry floor (including tunnel) and side slopes (where applicable) to establish the final elevations and grades depicted on the plan view of drawing 4 of 4.
    11.6. Upon completion of extraction in Phase 7, the slurry wall adjacent to the infiltration trenches in the southwest and southeast corner of the South Area shall be excavated and backfilled with sand.
    11.7. A portion of the quarry face in the southwest and southeast corner of Phase 7 shall remain vertical (see Section N. Variations from Control and Operation Standards). The exposed rock face will be approximately 465 metres in length. Two access points with 2:1 slopes from the existing grade to the final quarry floor shall be provided in the locations shown on the plan view of drawing 4 of 4. The access points shall be backfilled with highly permeable sandy material (10-5) or un-compacted till (10-6). Should un-compacted till be utilized, the access points shall not exceed 30 metres in width.

I. Extraction Details

1. All trees within five metres of the excavation face inside the limit of extraction shall be removed.
2. The maximum height of a lift within the pit shall not be greater than 1.5 metres above the highest reaching excavating equipment being utilized on-site.
3. The maximum height of a lift within the quarry shall be 25 metres.
4. The maximum depth of material below top of bedrock in Phase 1 is approximately 27 metres. Areas of Phase 1 that are less than 25 metres in depth shall be extracted in one lift while areas greater than 25 metres in depth shall be extracted in two lifts.
5. The maximum depth of material below top of bedrock in Phase 2A is approximately 26 metres. Areas of Phase 2A that are less than 25 metres in depth shall be extracted in one lift while areas greater than 25 metres in depth shall be extracted in two lifts.
6. The maximum depth of material below top of bedrock in Phase 2B is approximately 14 metres and shall be extracted in one lift.
7. The maximum depth of material below top of bedrock in Phase 3 is approximately 27 metres. Areas of Phase 3 that are less than 25 metres in depth shall be extracted in one lift while areas greater than 25 metres in depth shall be extracted in two lifts.
8. The maximum depth of material below top of bedrock in Phase 4 is approximately 27 metres. Areas of Phase 4 that are less than 25 metres in depth shall be extracted in one lift while areas greater than 25 metres in depth shall be extracted in two lifts.
9. The maximum depth of material below top of bedrock in Phase 5 is approximately 25 metres and shall be extracted in one lift.
10. The maximum depth of material below top of bedrock in Phase 6 is approximately 18 metres and shall be extracted in one lift.
11. The maximum depth of material below top of bedrock in Phase 7 is approximately 16 metres and shall be extracted in one lift.
12. Extraction may occur concurrently in Phases 2A and 2B.
13. Extraction shall be permitted in two phases simultaneously to allow for transition between phases.
14. Blasting shall be permitted daily Monday to Friday (during the hours specified in note B.4 on this drawing), However, it is anticipated that the frequency of blasts will typically be two blasts per week.
15. As excavation reaches the limit of extraction or maximum depth, progressive rehabilitation shall commence.
16. Aggregate stockpiles (including recyclable material) shall be located within the limit of extraction and remain a minimum of 30 metres from the licence boundary and 90 metres from a property with a residential use.
17. Berms that encroach within the limit of extraction shall be removed, and the underlying aggregate may be extracted, as part of final extraction/rehabilitation of the site.
18. Internal haul road locations will vary on the pit and quarry floor as extraction progresses.

J. Equipment and Processing

1. Equipment used on-site may include jaw crushers; excavators, bulldozers, skid steers, screeners, conveyors, hoppers, mobile cone crushers, drill rigs, generators, front end loaders, shipping loaders, shipping trucks, haul trucks, and water trucks.
2. Processing equipment shall remain a minimum of 30 metres from the licence boundary and 90 metres from a property with a residential use.
3. Processing equipment will initially be portable and shall be situated in the location identified on the Noise Mitigation Schematic on drawing 3 of 4. As operations progress and the top of bedrock is exposed, a permanent processing plant will be constructed within the facility pad area as shown on the plan view of this drawing. Once the permanent processing plant is operational, the temporary processing plant shall be dismantled. A permanent processing plant will be constructed in the South Area once enough area is extracted within Phase 6. Once the permanent processing plant in Phase 6 is operational, the permanent processing plant on the facility pad in Phase 1 shall be dismantled and the maternal beneath it extracted.

K. Fuel Storage

1. Fuel storage tanks shall be located in close proximity to the maintenance shop. Fuel storage tanks shall be installed and maintained in accordance with the Technical Standards and Safety Act and Liquid Fuels Regulation 217/01.
2. All fuel tanks shall be double sided or placed in containment facilities large enough to hold the tanks maximum volume.
3. Fuel trucks shall be used to transfer fuel to on-site equipment in accordance with the Liquid Fuels Handling Code.
4. A Spills Contingency Plan shall be prepared and implemented prior to site preparation. The Spills Contingency Plan shall be available on-site and all employees and contractors shall be informed and required to comply with this plan.

L. Scrap and Recycling

1. Scrap may be stored on-site and shall be removed on an on-going basis.
2. Scrap shall only include material generated directly as a result of the aggregate operation such as refuse, debris, scrap metal, lumber, discarded machinery, equipment and motor vehicles.
3. All fluids shall be drained from any discarded equipment, machinery or motor vehicle prior to storage and disposed of in accordance with the Environmental Protection Act.
4. Scrap shall not be stored within 30 metres of any body of water, or the licence boundary, and shall be kept in close proximity to the main processing plant.
5. Recycling of concrete shall be permitted on-site.
6. Recyclable material shall be kept in close proximity to the main processing plant.
7. Rebar or other structural metal shall be separated from recyclable aggregate material during processing and placed in a designated scrap pile on-site which shall be removed on an on-going basis.
8. Recycled aggregate shall be removed on an on-going basis.
9. Recycling activities shall not interfere with the operational phases of the site or with rehabilitation.
10. Once the site is depleted, no further importation of recyclable material shall be permitted.
11. Once final rehabilitation has been completed and approved in accordance with the site plan, all recycling operations shall cease.
12. The site shall be kept in an orderly condition.

M. Maximum Disturbed Area

1. The maximum disturbed area is 95.0 hectares. Disturbed areas shall include active extraction areas, stockpile areas, internal haul routes, areas being progressively rehabilitated and berms until they are vegetated. Areas that have been side-sloped and vegetated, and the adjacent un-vegetated or flooded vacated quarry floor (eg. stockpiles and equipment removed), shall not constitute disturbed areas.

N. Variations from Control and Operation Standards

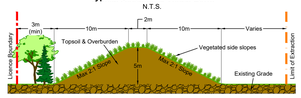
Section 0.13 Standard	Variation	Rationale
(1) 1 & 2	1. A gate shall not be required for the tunnel crossings. 2. Gates shall not be required in an Area that is not currently undergoing site preparation.	1. The tunnel crossings are beneath the road allowance. Therefore, access is already restricted. 2. This will enable agricultural operations to continue without being impeded.
(1) 3	A clear view of the road in both directions shall not be provided at the tunnel crossings.	The tunnel crossings are beneath the road allowance. Therefore, visibility in both directions is not possible.
(1) 9 & 10.ii.A	1. Excavation may occur within the setback at the tunnel crossings. 2. Excavation may occur within the setbacks where the groundwater infiltration trenches and slurry walls are located.	1. This will facilitate construction associated with the tunnel. 2. This will facilitate construction associated with the groundwater infiltration trench and slurry wall.
(1) 11	1. Aggregate / overburden may be removed from the setback at the tunnel crossings. 2. Aggregate / overburden may be removed from the setbacks where the groundwater infiltration trenches are slurry walls are located.	1. This will facilitate construction associated with the tunnel. 2. This will facilitate construction associated with the groundwater infiltration trench and slurry wall.
(1) 13.i.	Topsoil and overburden within the "Topsoil and Overburden Stockpile Area" may be stockpiled within 30 metres of the licence boundary.	The "Topsoil and Overburden Stockpile Area" is adjacent to additional land owned by the licensee.
(1) 17	Topsoil and/or overburden may be transferred between the Main, North and South Areas.	This will allow stripped material from site preparation to be used for berm construction, progressive rehabilitation and/or temporarily stockpiled in any Area.
(1) 19.i. & 19.ii.	1. The minimum side slope within the sand and gravel deposit shall be 2:1. 2. A portions of the extraction face shall remain vertical in the southwest corner of Phase 5 and the southwest/southeast corner of Phase 7.	1. This will enable side slopes to transition seamlessly between the pit and quarry excavation areas. 2. Leaving a portion of the extraction face in Phases 5 and 7 vertical will meet the water mitigation requirements.
(3) (a)	1. Fencing shall be installed in a phased approach. 2. Fencing may be offset up to five metres from the licence boundary. 3. Fencing shall be installed around the perimeter of the cell tower area.	1. This will enable agricultural production to continue with minimal disruption and accounts for the long life expectancy of the operation. 2. This will minimize the removal of existing trees to accommodate the perimeter fencing. 3. It is the responsibility of the cell tower operator to control access to the area in a manner that they deem appropriate.

Site Plan Acronyms

1. ARA - Aggregate Resources Act
2. MECP - Ministry of the Environment, Conservation and Parks
3. MGCS - Ministry of Government and Consumer Services
4. DFO - Department of Fisheries and Oceans Canada
5. MNRF - Ministry of Natural Resources and Forestry
6. TSSA - Technical Standards and Safety Authority
7. MTCS - Ministry of Tourism, Culture and Sport
8. ECA - Environmental Compliance Approval
9. BMPP - Best Management Practices Plan
10. WWIS - Water Well Information System
11. HIA - Heritage Impact Assessment
12. CVC - Credit Valley Conservation
13. MASL - Metres above sea level
14. PTTW - Permit to Take Water
15. NTS - Not to Scale

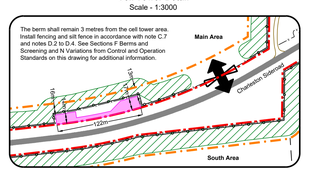
Typical Acoustic & Visual Berm

N.T.S.



Cell Tower Detail

Scale - 1:3000



Legal Description

Part of Lots 15-18, Concession 4 WSCR and Part of Lot 16, Concession 3 WSCR (former geographic Township of Caledon)
Township of Caledon
Region of Peel

Legend

- Licence Boundary
- Limit of Extraction
- Contours with Elevation — Metres above sea level (MASL)
- Public Road
- Driveway
- Railway
- Entrance / Exit — Operational Access
- Entrance / Exit — Office/lab and Maintenance Access
- Tunnel Crossing
- Gate
- Watercourse — Permanent (Direction of flow indicated by arrows)
- Watercourse — Intermittent (Direction of flow indicated by arrows)
- Water Feature
- Wooded Area
- Wetland — MNRF Evaluated - Other
- Wetland — MNRF - Unevaluated
- Visual Planting Area
- Additional Land Owned by Licensee
- 120m Offset From Licence Boundary
- Pipeline — Enbridge Gas Inc.
- Fence — 1.2 m post & wire fence unless otherwise noted
- Silt Fence
- Main Discharge
- Secondary Discharge — (Discharge not to exceed existing surface water flow)
- Berm (with 2:1 side slopes) — 5.0 m in height except for section along the western extent of the Main Area identified as 7.0 m on the plan view
- General Direction of Excavation & Boundary
- Building/Structure
- Topsoil & Overburden Stockpile Area (Maximum Height 8.0 m)
- Facility Pad and Building Location Area
- Archaeological Protection Area (Including 70 metre buffer)
- Infiltration Trench
- Slurry Wall
- Spot Elevation — Top - Existing (MASL) / Middle - Water Table (MASL) / Bottom - Maximum Depth of Extraction (MASL)
- Cross Sections

Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licencing)

No.	Date	Description	By
1	August 2023	Revised drawing to incorporate updated technical report recommendations	C.P.

MHBC PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE
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MHBC Stamp
Brian Zeman
Is authorized by the Ministry of Northern Development, Mines, Natural Resources and Forestry pursuant to Subsection 0.2(3)(e) of Ontario Regulation 244/97 to prepare and certify site plans.

MHBC Stamp
Christopher Poole
Is authorized by the Ministry of Northern Development, Mines, Natural Resources and Forestry pursuant to Subsection 0.2(3)(f) of Ontario Regulation 244/97 to prepare and certify site plans.

Applicant

cbm — VOTORANTIM cimentos

CBM Aggregates a Division of St. Marys Cement Inc. (Canada)
55 Industrial Street
Toronto, Ontario
M4G 3W9

Project

Caledon Pit & Quarry

18722 Main Street, Caledon, Ontario

MNRF Licence Reference No. 626600

Applicant's Signature

Plan Scale: 1:5000 (Arch E) — 0 150 300 Meters

Date August 2023

Drawn By C.P. | **Checked By** B.Z. | **File No.** 8816AF

File Name

Operational Plan

Drawing No.

2 of 4

File Path N:\Brian\8816AF - CBM - Caledon Quarry\Drawings\Site Plan\CAD\8816AF - Site Plan.dwg

O. Technical Recommendations

1. Agriculture

   a. Lands that are currently in agricultural production, and not required for immediate extraction and site preparation, shall be kept in agricultural production for as long as possible.

   b. The licensee shall document any complaints involving the local agricultural community, and as part of the annual Compliance Assessment Report, shall provide information to MNRF on the nature of the complaint and actions taken by the licensee to address the issue.

2. Blasting

   a. All quarry blasts shall be monitored at the closest residences in front of and behind the blast for ground and air vibration effects to ensure compliance with the current MECP guideline limits.

   b. All quarry blasts shall be monitored within 300 metres of the nearest pipeline on the ground above that pipeline to ensure compliance with Enbridge's ground vibrations limits.

   c. All quarry blasts shall be monitored within 300 metres of the farmhouse and barn located at 18722 Main Street, the farmhouse located at 18501 Mississauga Road, the farmhouse located at 18667 Mississauga Road and the house (to be converted to office/laboratory during operation) located at 1420 Charleston Sideroad to ensure compliance with the ground vibration limit of 50 mm/s. Once the farmhouse(s) located at 18501 Mississauga Road and 18667 Mississauga Road is relocated outside of the licence area, all quarry blasts shall be monitored to ensure compliance with the current MECP guideline limits. See cultural heritage technical recommendations Section O.4 for additional information.

   d. The vibration monitoring shall be carried out by an independent third-party engineering firm with expertise in blasting and monitoring.

   e. Notification shall be provided to Enbridge when blasting approaches within 300 metres of the pipeline.

   f. No extraction within 30 metres of the pipeline without authorization from Enbridge.

   g. Blasting shall be carried out by persons experienced, trained and qualified to conduct blasting operations.

   h. The licensee shall establish a blasting notification program for residents within 500 metres.

   i. Blasting shall not occur on Saturday, Sunday and all Statutory holidays.

   j. If there are exceedances of the vibration limits, blast design parameters shall be altered to bring results back into compliance.

   k. When blasting within approximately 440 metres of adjacent residences, the quarry shall regularly review their blast procedures in conjunction with the blast monitoring results to assess if it is necessary to modify blast design parameters of the blasts.

   l. Blasting procedures, such as drilling and loading, shall be reviewed annually and modified as required to ensure compliance with industry standards.

   m. The licensee shall maintain a record of all blasting details including a seismic record of the ground and air vibration monitoring results. The blast details and monitoring results shall be made available to the MNRF and the MECP, upon written request. The blasting reports shall include the following information:

      m.a. Location, date and time of the blast;
      m.b. Dimensioned sketch including photographs, if necessary, of the location of the blasting operation, and nearest point of reception;
      m.c. Physical and topographical description of the ground between the source and the receptor location.
      m.d. Type of material being blasted;
      m.e. Sub-soil conditions, if known;
      m.f. Prevailing meteorological conditions including wind speed in m/s, wind direction, air temperature in °C, relative humidity, degree of cloud cover and ground moisture content;
      m.g. Number of drill holes;
      m.h. Pattern and pitch of drill holes;
      m.i. Size of holes;
      m.j. Depth of drilling;
      m.k. Depth of collar (or stemming);
      m.l. Depth of toe-load;
      m.m. Weight of charge per delay;
      m.n. Number and times of delays;
      m.o. The result and calculated value of Peak Pressure Level in dBL and Peak Vibration Velocity in mm/s;
      m.p. Applicable limits; and
      m.q. The excess, if any, over the prescribed limit.

   n. The first five regular production blasts in the Main Area of the Licence shall be monitored at a minimum of five locations at varying distances from each blast to better define the ground and air vibration attenuation characteristics at the nearest receptors to assist with future blast designs. This shall entail establishing monitoring stations between the blast site and neighbouring receptors (residences).

3. Air Quality

   a. The Site shall operate in accordance with the Fugitive Dust Best Management Practices Plan (BMPP) dated December 2022, (revised July 2023). The BMPP shall be reviewed annually and updated if required based on current Site operations and new best management practices.

   b. Unpaved haul roads shall be watered using a water truck and/or dust suppressant. The application of water shall be dependent on weather conditions but should be designed to achieve a watering rate of at least 2 L/m²/hour. Site personnel shall conduct daily visible inspections of visible dust from the onsite haul roads, which shall be used to inform additional watering activities if high opacity dust is reported. When temperatures fall below 4° C, a Ministry of Environment, Conservation and Parks chemical dust suppressant shall be used in place of water.

   c. Unpaved haul roads shall be re-graded annually (or as needed based on observations) using coarser material.

   d. A speed limit of 25 km/hour on all site roads shall be implemented.

   e. Stockpiles shall be placed below grade where possible with drop heights of less than 1 metre maintained for fine material.

   f. The processing plant shall be equipped with a water spray system with the watering rate set to suppress visible dust.

   g. The processing plant shall be located below grade as soon as feasible.

   h. Drills shall be equipped with dust suppression systems.

   i. If sustained winds exceed 40 km/hour, on-site processing activities, including drilling and blasting, will cease and not resume until two consecutive hours of winds below 40 km/hour are recorded.

   j. A record of all visual inspections, dust mitigation activities and complaints shall be kept in the onsite filing system, as identified in the BMPP.

4. Cultural Heritage

   a. Areas of cultural heritage potential were identified for portions of the properties located at 18722 Main Street, 1055 Charleston Sideroad, 1420 Charleston Sideroad,18501 Mississauga Road, and 18667 Mississauga Road. Accordingly, property specific HIAs have been prepared for these properties. The recommendations from each HIA are presented below.

   b. HIA Recommendations for 1420 Charleston Sideroad:

      The HIA for 1420 Charleston Sideroad determined that the Study Area will be subject to both direct and indirect impacts. To avoid or reduce these effects, WSP recommends:

      - During operations, the farmhouse shall be adaptively re-used as an office/laboratory site for the quarry operations. Prior to the surrender of the licence, the building shall be converted back to its original use.

      To achieve this conservation strategy, the following mitigation measures shall be implemented:

      b.a. If the property is vacated prior to converting the farmhouse to an office/laboratory a qualified specialist shall develop a mothball plan for the farmhouse, with a maintenance and inspection schedule, to conserve the structure until further action is implemented.

      b.b. The limit of extraction shall include a 50 m buffer from the farmhouse to protect the heritage attributes of the property.

      b.b.a. Prior to site preparation, erect fencing at the 50 m buffer to identify a 'no-go zone' to reduce the risk of accidental damage from vehicles, heavy equipment operation, or other activities of the mineral aggregate operation.

      b.c. Implement the recommendations of the blast impact assessment to ensure the structural integrity of the farmhouse is maintained.

      b.d. A Heritage Documentation Plan shall be prepared for the property with a focus on the barn foundation ruins on the property.

      b.e. A Heritage Conservation Plan shall be prepared for the farmhouse prior to use of the farmhouse as office or laboratory space to guide the adaptive re-use efforts and outline how the heritage attributes of the structure will be conserved, protected, and enhanced during the rehabilitation program and into the future.

      b.f. Prior to the surrender of the licence remove any temporary protective measures implemented during the time the farmhouse is used as an office/laboratory site and rehabilitate the farmhouse back to its original use.

   c. HIA Recommendations for 1055 Charleston Sideroad:

      The HIA for 1055 Charleston Sideroad determined that the property will be subject to both direct and indirect impacts. To avoid or reduce these effects, WSP recommends:

      - Prior to site preparation in Phase 7 salvage, document, and commemorate the heritage attributes of 1055 Charleston Sideroad.

      To achieve this conservation strategy, the following mitigations shall be implemented:

      c.a. A Heritage Documentation Plan shall be prepared for 1055 Charleston Sideroad to create a record of the property. The documentation of the property shall include the foundation ruins of the barn and outbuilding (Structural Foundation No. 1 and Structural Foundation No. 2) and remnant landscape components of the farm complex (driveway and tree lines). The Heritage Documentation Plan shall be completed by a qualified cultural heritage specialist prior to the commencement of quarrying activities within Phase 7.

      c.b. Prior to the surrender of the licence, a commemorative plaque shall be installed at 1055 Charleston Sideroad to document the heritage attributes at the property. The commemoration strategy should be implemented during the rehabilitation phase of the project, following the completion of quarrying activities.

   d. HIA Recommendations for 18722 Main Street:

      The HIA for 18722 Main Street determined that the property will be subject to both direct and indirect impacts. To avoid or reduce these effects, WSP recommends:

      - Retain the farmhouse, barn, and mature vegetation on site in their original use.

      To achieve this conservation strategy, the following mitigation measures shall be implemented:

      d.a. The limit of extraction shall include a 50 m buffer from the barn to protect the heritage attributes of the property.

      d.a.a. Prior to site preparation, erect fencing at the 50 m buffer to identify a 'no-go zone' to reduce the risk of accidental damage from vehicles, heavy equipment operation, or other activities of the mineral aggregate operation.

      d.b. Implement the recommendations of the blast impact assessment to ensure the structural integrity of the farmhouse and barn are maintained.

      d.c. A berm or vegetative screen, shall be placed between 18722 Main Street the limit of extraction.

      d.d. The property at 18722 Main Street shall remain inhabited. In the event the property is vacated a qualified specialist shall develop a mothball plan for the farmhouse, with a maintenance and inspection schedule, to conserve the structure until the property is inhabited again.

      d.e. A Management and Maintenance Plan shall be prepared to protect and maintain the heritage attributes during the activities of the mineral aggregate operation.

   e. HIA Recommendations for 18501 Mississauga Road:

      The HIA for 18501 Mississauga Road determined that the property will be subject to both direct and indirect negative impacts. To avoid or reduce these effects, WSP recommends:

      - Prior to extraction in Phase 5 relocate the farmhouse within the existing property parcel located outside of the licence boundary and complete documentation and salvage for the remaining landscape and outbuilding components.

      To achieve this conservation strategy, the following mitigation measures shall be implemented:

      e.a. If the farmhouse is vacated prior to the relocation a qualified specialist shall develop a mothball plan for the farmhouse, with a maintenance and inspection schedule, to conserve the structure until further action is implemented.

      e.b. The following short-term conservation actions, shall be implemented prior to relocation of the farmhouse:

      e.b.a. Prior to site preparation in Phase 5 erect fencing 50 m from the farmhouse to identify a "no-go-zone" to reduce the risk of accidental damage from vehicles, heavy equipment operation, or other activities of the mineral aggregate operation.

      e.b.b. Implement the recommendations of the blast impact assessment to ensure the structural integrity of the farmhouse is maintained.

      e.c. A Heritage Documentation Plan shall be prepared for the barns and mature vegetation on the property.

      e.d. A Structural Engineer should be consulted to confirm whether the farmhouse is structurally sound enough to withstand relocation. If the structural engineer determines that the farmhouse cannot be relocated the following shall be implemented: i) the extraction area shall be revised to include a 50 m buffer from the farmhouse ii) fencing shall be installed at the 50 m buffer to identify the "no-go-zone", iii) the recommendations of the blast impact assessment shall be implemented to ensure the structural integrity of the farmhouse is maintained iv) a qualified specialist shall develop a mothball plan for the farmhouse with a maintenance and inspection schedule to conserve the house until the license is surrendered and v) following surrender of the license the farmhouse shall be inhabited for residential use.

      e.e. A Heritage Conservation Plan shall be prepared for the farmhouse to guide the relocation and outline how the heritage attributes of the structure will be conserved, protected, and enhanced during the relocation and into the future.

      e.f. Relocate the farmhouse on the portion of 18501 Mississauga Road that is located outside of the licence boundary to retain the general geographic and visual setting of the structure and supports understanding of its cultural heritage value or interest as a rural farmhouse.

      e.g. The relocated farmhouse shall be inhabited for residential use.

   f. HIA Recommendations for 18667 Mississauga Road:

      The HIA for 18667 Mississauga Road determined that the property will be subject to both direct and indirect negative impacts. To avoid or reduce these effects, WSP recommends:

      - Prior to extraction in Phase 4 relocate the farmhouse and summer kitchen within the existing property parcel located outside of the licence boundary and complete documentation and salvage for the remaining landscape and outbuilding components.

      To achieve this conservation strategy, the following mitigation measures shall be implemented:

      f.a. If the farmhouse and summer kitchen is vacated prior to the relocation a qualified specialist shall develop a mothball plan for the farmhouse and summer kitchen, with a maintenance and inspection schedule, to conserve the structure until further action is implemented.

      f.b. The following short-term conservation actions, shall be implemented prior to relocation of the farmhouse and summer kitchen:

      f.b.a. Prior to site preparation in Phase 4 erect fencing 50 m from the farmhouse and summer kitchen to identify a "no-go-zone" to reduce the risk of accidental damage from vehicles, heavy equipment operation, or other activities of the mineral aggregate operation.

      f.b.b. Implement the recommendations of the blast impact assessment to ensure the structural integrity of the farmhouse and summer kitchen are maintained.

      f.c. A Heritage Documentation Plan shall be prepared for the barn complex, Outbuilding No. 1, fieldstone wall, and mature vegetation on the property.

      f.d. A Structural Engineer should be consulted to confirm whether the farmhouse is structurally sound enough to withstand relocation. If the structural engineer determines that the farmhouse cannot be relocated the following shall be implemented: i) the extraction area shall be revised to include a 50 m buffer from the farmhouse ii) fencing shall be installed at the 50 m buffer to identify the "no-go-zone", iii) the recommendations of the blast impact assessment shall be implemented to ensure the structural integrity of the farmhouse is maintained iv) a qualified specialist shall develop a mothball plan for the farmhouse with a maintenance and inspection schedule to conserve the house until the license is surrendered and v) following surrender of the license the farmhouse shall be inhabited for residential use.

      f.e. A Heritage Conservation Plan shall be prepared for the farmhouse and summer kitchen to guide the relocation and outline how the heritage attributes of the structures will be conserved, protected, and enhanced during the relocation and into the future.

      f.f. Relocate the farmhouse and summer kitchen on the portion of 18667 Mississauga Road that is located outside of the licence boundary to retain the general geographic and visual setting of the structure and conserve the contextual value of the farmhouse and summer kitchen.

      f.g. The relocated farmhouse and summer kitchen shall be in habited for residential use.

5. Archaeology

   a. A Stage 3 Archaeological Assessment shall be required for the following sites: Location 1 (AkHa-23), Location 2 (AkHa-24), Location 4 (AkHa-25), Location 7 (AkHa-26), Location 9 (AkHa-27), Location 10 (AkHa-28), Location 12 (AkHa-29), Location 15 (AlHa-52), Location 16 (AkHa-30), Location 18 (AkHa-31),Location 22 (AkHa-32), Location 26 (AkHa-33), Location 27 (AkHa-34), and the Cameron Site (AlHa-9).

   b. The limits of these archaeological sites, plus a 70 metre buffer, are identified on the plan view of this drawing and referred to as an "Archaeological Protection Area".

   c. Alterations are prohibited within the limits of the "Archaeological Protection Area" until such time that the Ministry of Citizenship and Multiculturalism (MCM) has entered a report(s) in the Ontario Public Register of Archaeological Reports where the report(s) recommends that the archaeological site is of no further cultural heritage value or interest.

   d. Any archaeological site that is of further cultural heritage value or interest that remains within the licenced area at the time of surrender of the licence shall be protected through a restrictive covenant on title.

   e. The protected sites shall be fenced (post and wire) prior to commencing extraction.

   f. Should deeply buried archaeology remains be found during the course of site preparation and/or extraction related activities, the MCM shall be notified.

   g. In the event that human remains are encountered during construction or extraction activities, the licensee shall immediately contact both the MCM and the Registrar or Deputy Registrar of the Cemeteries Regulation Unit of the Ministry of Government and Consumer Services (MGCS).

6. Visual

   a. Berms shall be designed to mitigate visual effects and shall be constructed along the perimeter of each area (Main Area, North Area and South Area) as shown on the plan view of this drawing. The berms shall be five to seven metres in height and constructed with material from each extraction area, prior to extraction commencing in the Main Area, North Area and South Area.

   b. Berms shall remain in place throughout the operational phases in each of the Main Area, North Area and South Area until extraction has been completed. Once operations are completed in each Area, the berms shall be removed and the material from the berms shall be used for rehabilitation.

   c. The berms shall be seeded with a grass/legume seed mix in order to stabilize the soils on the berms and groundwater infiltration trench. The grass/legume seed mix shall be applied at a rate of 125 kg /ha. The mix should consist of 50-70% grasses (a minimum of three species) and 30-50% legumes, and may include the following species, as available at the time of application:

      - Annual rye (Lolium multiflorum)
      - Perennial rye (Lolium perenne)
      - Tall fescue (Lolium arundinaceum)
      - Buckwheat (Fagopyrum esculentum)
      - Alfalfa (Medicago sativa)
      - Crown vetch (Securigera varia)
      - White clover (Trifolium repens)
      - Creeping bentgrass (Agrostis stolonifera)
      - Red fescue (Festuca rubra)

   d. When constructing the berms, as much of the existing perimeter tree lines as possible shall be left in place for additional visual screening.

   e. Deciduous trees shall be planted with approximately 10 m spacing on either side of the water infiltration trench, within 1 year of issuance of the licence. The trees shall include the following species and percentage mixture:

      - Sugar Maple (Acer saccharum) - 50%
      - Red Oak (Quercus rubra) - 50%

   f. Trees and shrubs shall be planted as seedlings in the visual planting areas (see plan view on this drawing for locations) with approximately five metre spacing. The tree seedlings shall be approximately 50 centimetres in height. The tree and shrub mix shall include the following species and percentage mixture:

      - Trembling aspen (Populus tremuloides) - 10 %
      - Gray dogwood (Cornus racemosa) - 10 %
      - Alternate-leaved dogwood (Cornus alternifolia) - 10 %
      - Eastern red cedar (Juniperus virginiana) - 10 %
      - White pine (Pinus strobus) - 30 %
      - White spruce (Picea glauca) - 30 %

   g. Planting of the visual planting areas for the Main Area shall occur within 1 year of issuance of the licence, and for the North and South Areas within 5 years of issuance of licence.

   h. Monitoring of trees survival shall be conducted within the first year following planting and equivalent replacement planting shall be carried out if more than 20% of the trees did not survive.

   i. Rehabilitation shall be implemented as illustrated on drawing 4 of 4.

7. Water

   a. The maximum predicted groundwater table, based on groundwater levels monitored over a 12 month period from January to December 2021, are as follows:

      - Main Area - Ranges from 420.7 to 393.5 masl (north to southwest)
      - North Area - Ranges from 407.0 to 397.3 masl (northwest to southeast)
      - South Area - Ranges from 405.3 to 391.0 masl (northeast to south)

   b. Prior to below water extraction, the licensee shall complete a follow-up door-to-door survey of private wells for properties within 1,000 metres of the licence area, to supplement and verify the MECP water well information system (WWIS) information, to confirm neighbouring water users and confirm baseline conditions prior to below water extraction commencing. Landowner participation in this private well survey is voluntary.

   c. Prior to below water extraction, the licensee shall obtain and operate in accordance with a Permit To Take Water and Environmental Compliance Approval under the Ontario Water Resources Act to permit the water management activities needed to operate the pit and quarry. These activities include:

      - Pumping, collection, storage and discharge of pit and quarry water;
      - Operation of a groundwater infiltration trench; and
      - Construction and operation of an aggregate wash plant.

   d. The approved monitoring programs defined in the Permit to Take Water and/or Environmental Compliance Approval shall, at a minimum, include all groundwater and surface water monitoring requirements as outlined below:

      - On-site monitoring shall include the wells, surface water stations and mini-piezometers listed in Table 1 on drawing 1 of 4, and shall include the scope and frequency specified in Table 1.
      - Off-site monitoring shall include the wells, surface water stations and mini-piezometers listed in Table 2 on drawing 1 of 4, and shall include the scope and frequency specified in Table 2, subject to landowner approval.

   e. In the event a well complaint is received by the licensee for a private (domestic / farm) well located within the estimated zone of influence (1,000 metres), the licensee shall implement the following Well Complaint Response Protocol:

      e.a. A representative of the licensee shall meet with the resident and discuss the complaint. If warranted, the licensee shall contact a local well contractor, and the resident shall be immediately supplied a temporary water source if the issue cannot be easily determined and rectified (see steps below).

      e.b. If the issue raised by the resident is related to a loss of water supply, the licensee shall have a consultant / well contractor determine the likely causes of the loss of water supply, which can result from a number of factors, including pump failure, extended overuse of the well or lowering of the water level in the well from potential aggregate operations interference. This assessment process would be carried out at the expense of the aggregate operator and the results of the assessment shall be provided to the resident.

      e.c. The consultant / well contractor will be able to readily determine if pump failure is the problem and, should the resident choose to have the pump repaired or replaced at their expense, the well contractor would correct the situation for the resident. If well capacity in relation to the demand being placed on the well by the resident (i.e., extended overuse) is determined to be the issue by the consultant / well contractor, recommendations shall be provided to the resident for their consideration, implementation of which would be at their expense.

      e.d. If, however, well interference is determined to potentially have been caused by aggregate extraction and dewatering activities relating to this licence, then water well supply mitigation shall be reviewed with the resident and the best course of action to restore an equivalent water supply to the resident shall be implemented at CBM's expense. For instance, if the water level in the well is lowered to a point where it has interfered with pumping, then potential solutions shall be evaluated including adjusting the pump pressure and / or lowering the pump level in the well.

      e.e. In the event that the well is incapable of providing an adequate supply of water (i.e., the water level is too low in comparison to the depth of the well), or the repair to the pumping system will be more than a day, the consultant / well contractor shall continue to supply a potable water source to the resident (until restoration of the well is complete). These actions would be carried out at the expense of the licensee. In rare cases where the water level in the well has been lowered significantly, the well may have to be deepened, widened or relocated (also at the licensee's expense).

   f. The licensee shall submit an annual water resources monitoring report to MNRF, MECP, Town of Caledon and Credit Valley Conservation (CVC). The annual report shall also include a summary of any water related complaint and the actions taken by the licensee to address the issue.

   g. During operations, the sump in each pit and quarry area shall be located near the lowest point of elevation on the current pit and quarry floor. The position of the sump at a given point in time will be dictated by direction of extraction and elevation of the base of the current pit and quarry floor within each quarry area, and shall generally be as follows:

      - Main Area - the sump shall be located in the most southwestern area of the current pit and quarry floor, at the point of lowest elevation.
      - North Area - the sump shall be located in the most southwestern area of the current pit and quarry floor, at the point of lowest elevation.
      - South Area - the sump shall be located in the most southeastern area of the current pit and quarry floor, at the point of lowest elevation.

   h. Subject to an agreement with the Osprey Valley Golf Course, the licensee shall construct a discharge pipe from the licence area to the irrigation system infrastructure at the golf course to convey the water from the settling pond to the golf course for irrigation, with the excess water stored or discharged through the existing pond system to the Credit River.

   i. Subject to an agreement with the Region of Peel the licensee shall construct piping under Main Street and Charleston Sideroad for the transfer of water from the Main and South Areas to the North Area.

   j. The licensee shall construct a slurry wall / grout zone prior to the start of Phase 3 and infiltration trenches prior to the start of Phase 4 as a groundwater mitigation system in the west setback of the Main Area, and similarly, a slurry wall / grout zone and infiltration trenches in the west and south setback of the South Area prior to the start of Phase 6. Water to supply the infiltration trenches shall be collected from the pit and quarry sumps during operations and stored in an up to 1 to 2 ha sized pond located in the Main Area or North Area. The system shall be operated in accordance with the Permit To Take Water and Environmental Compliance Approval under the Ontario Water Resources Act.

   k. An aggregate washing operation may be established in the Main Area utilizing up to a 1 to 2 hectare sized pond for the storage of wash water in a closed-loop system. Wash water will be sourced from the pit and quarry sump, and top-up water will be added to the wash pond as needed during operations, in order to maintain sufficient water for the operation. Aggregate washing operations shall be completed in accordance with the Permit To Take Water and Environmental Compliance Approval under the Ontario Water Resources Act.

   l. All fuel storage and handling on-site shall be completed in accordance with applicable Technical Standards and Safety Authority (TSSA) standards. The on-site storage and servicing of machinery shall be carried out in accordance with established best practices and is protective of the environment. The use and storage of hazardous substances shall follow applicable workplace hazardous materials regulations, including Ontario Regulation 860/93, as amended.

   m. Once operations in the North Area, South Area and Main Area have been completed and the rehabilitated landform has been created, pumping will cease and allowed to flood and form the Main, North and South ponds. The Main, North and South pond water levels post-rehabilitation are predicted to reach a level of approximately ~400, ~399 and ~393.5 masl, respectively.

      - The South pond would be self contained and not require an overflow outlet;
      - The Main pond overflow shall be directed via a culvert under Main Street to the North pond with its outlet invert at ~400 masl; and
      - The North pond overflow shall be directed via main outlet to the Osprey Valley Golf Course irrigation pond system with its outlet invert at ~399 masl.

   n. All rehabilitated pond levels and outlets will be passive and not require pumping.

8. Noise

   a. On-site equipment shall meet the following noise limits as indicated in the table below:

Source ID	Source Description	Quantity	Overall Sound Power Level [dBA] [1]
Generator	Temporary Processing Plant - Generator	1	113
Screen 1-2	Temporary Processing Plant - Screen	2	115
Jaw Crusher	Temporary Processing Plant - Jaw Crusher	1	111
Cone Crusher	Temporary Processing Plant - Cone Crusher	1	110
Loader PP	Processing Plant Loader	4	107 [2]
Loader EX	Extraction Loader	3	110 [2]
Drill 1-2	Rock Drill	2	116
Screen 1-7	Permanent Processing Plant - Screen	7	108
Jaw Crusher 1-2	Permanent Processing Plant - Jaw Crusher	2	111
Cone Crusher 1-3	Permanent Processing Plant - Cone Crusher	3	107
Wash Plant Screen 1-2	Permanent Processing Plant - Screen	2	106
Haul Truck	Articulated Haul Truck	26 [3]	107
Haul Truck Unloading	Haul Truck Unloading	26 [4]	114
Shipment Truck	Highway Truck	38 [3]	103

Notes:
1. Values presented in table 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. Number of round trips in a given hour
4. 26 unloading events

   b. Activities to prepare the Site, such as the stripping of topsoil, construction of the berms, or activities related to the rehabilitation of the Site after the extraction is completed are considered to be construction activities and are only permitted to occur during the daytime period (i.e., 7:00am to 7:00pm) Monday to Friday except statutory holidays.

   c. Activities for site operations, such as extraction, processing and drilling are permitted to occur during the daytime period (i.e. 7:00am to 7:00pm) Monday to Saturday, except statutory holidays.

   d. Activities related to shipping are permitted from 6:00am to 7:00pm Monday to Saturday, except statutory holidays. Shipping is permitted from 7:00pm to 6:00am only where required to support public authority contracts that necessitate the delivery of aggregates during these hours. Shipping activities from 7:00pm to 6:00am shall be limited to highway trucks and shipping loaders and no other operations shall be permitted.

   e. A 5-m high visual/acoustical barrier shall be installed around the Main Area, North Area and South Area prior to extraction commencing in the identified areas. A 265 m portion of this berm along the west part of the Main Area shall be constructed to a 7 m high acoustic/visual barrier (see plan view for location). The berm along the west part of the Main Area property boundary shall be constructed prior to the commencement of the use of the temporary processing plant.

   f. The temporary processing plant shall be mitigated by noise controls in the form of barriers or acoustically equivalent treatment (e.g., equipment mounted) to reduce the noise emissions. A 7.5 m high, approximately 117 m long barrier located 20 m west and a 6 m high, approximately 80 m long barrier located east of the temporary processing plant shall be installed.

   g. The permanent processing plant shall be mitigated by noise controls in the form of barriers or acoustically equivalent treatment (e.g., equipment mounted) intended to reduce the noise emissions. A 13 m high, approximately 108 m long barrier located 20 m north and east and a 13 m high, approximately 56 m long barrier located at 20 m west of the processing plant shall be installed. In addition, a 13 m high, approximately 69 m long barrier located at 20 m east and south of the processing plant equipment located in Phase 6 lands.

   h. Proposed barriers can be constructed of earth berms, product stockpiles or other suitable acoustic barriers such as trailers or shipping containers as long as the height and the density requirements of 20 kg/m², without gaps are maintained.

   i. Extraction loaders shall be generally operating within 30 m of the active working face to maximize noise screening by the working face.

   j. Drills procured for the Site operations shall be mitigated (e.g., manufacturer installed noise controls) resulting in a sound power level of 116 dBA. In addition, when operating within the identified areas on the Noise Mitigation Schematic, the drills shall be equipped with a 4.5 m high "C - shaped" and 22 m long local barriers located at the distance of 5 m from the equipment (or acoustically equivalent). In addition, operational restriction shall be considered for drills operating in specifics areas as indicated on the Noise Mitigation Schematic:

      - Area 1 - operation of a single unmitigated drill;
      - Area 2 - operation of a single mitigated drill;
      - Area 3 - operation of two mitigated drills; and,
      - Area 4 - operation of one mitigated and one unmitigated drill.

   k. The number of extraction loaders shall be reduced from three to two units when equipment operates in the areas identified as Area 5 through Area 6 and shown on the Noise Mitigation Schematic. In addition, the loaders operating in Area 6 shall be similar to the plant loader with sound power levels of 107 dBA.

   l. Gravel extraction shall be completed using a single loader with a sound power level of 107 dBA.

   m. The licensee shall utilize an alternative to narrow band back up alarms that meet Ministry of Labour safety requirements for on-site equipment.

   n. Prior to operations commencing, sound measurements of the equipment used on the Site shall be undertaken by a qualified professional to confirm maximum emission levels are not exceeded.

   o. To confirm that sound levels from the Site operations are in compliance with the MECP noise guideline limits, an acoustical audit shall be completed by a qualified professional once extraction and processing activities commence in the Main Area.

   p. Proposed mitigation may be substituted through equipment modification, other control measures and/or local barriers if an assessment by qualified professional is completed in accordance with MECP requirements and demonstrates the modification complies with MECP noise limits at surrounding sensitive receptors. Prior to any modification, notification shall be given to MNRF.

9. Natural Environment

   a. Barn #1b, Barn #2, Barn #3 and Woodlands F and G (as shown on drawing 1 of 4) shall only be removed outside of the bat active period of March 15 - November 30.

   b. Habitat for eastern meadowlark and bobolink (as shown on the Key Natural Heritage Features Schematic on drawing 1 of 4) shall only be removed outside of the nesting period of May 1 - July 31.

   c. To comply with the Migratory Birds Convention Act, Barn #1a, Barn #2, Barn #3 and Shed #3 (as shown on the plan view on drawing 1 of 4) shall not be removed during the active season for barn swallow (May 1 - August 31), unless disturbance is preceded by a nesting survey conducted by a qualified biologist. If any active nests are found during the nesting survey, the structure shall not be removed until the young have fledged the nest.

   d. To comply with the Migratory Birds Convention Act, removal of vegetation shall not be permitted during the active season for breeding birds (April 15 - August 15), 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 shall not be removed until the young have fledged the nest.

   e. Implement a minimum setback for extraction of 15 metres from significant woodlands (as shown on this drawing). There shall be no disturbance, including berms, within 10 metres of these significant woodlands.

   f. Implement a minimum setback for extraction of 30 metres from the Coulterville Wetland Complex (as shown on this drawing). There shall be no disturbance, including berms, within 10 metres of the wetland.

   g. Implement a minimum setback for extraction of 30 metres from Tributary #1 and the pond (as shown on this drawing). There shall be no disturbance, including berms, within 10 metres of these features.

   h. Implement a minimum setback for extraction of 30 metres from unevaluated wetland units 3, 4 and 5 (as shown on this drawing). There shall be no disturbance, including berms, within 10 metres of these features.

   i. All conditions of Endangered Species Act approvals/permits shall be followed.

   j. Sediment and erosion control measures shall be installed along the dripline of the significant woodlands in areas where runoff has the potential to enter the woodland, and adjacent to the Coulterville Wetland Complex prior to commencement of activities within 30 metres of the significant woodlands (e.g., Site preparation) and shall be actively monitored and maintained for the duration of the proposed operations. Following rehabilitation of the areas adjacent to the significant woodlands, the control measures shall be removed.

   k. Excess water collected in the sump(s) shall be pumped to a settling pond located on the east side of the North Area, from which water will flow by gravity for off-site discharge to the Osprey Valley Golf Course irrigation pond system, with the excess water stored or discharged through the existing pond system to the Credit River.

   l. Water collected from quarry operations and discharged off-Site shall be monitored for total suspended solids and temperature to ensure it meets the discharge objectives for those parameters, as specified in the environmental compliance approval.

   m. Implement the water monitoring requirements for Locations 1, 2, 3 and 4:

      - Location 1: Main Quarry - Northwest Area - Tributary #1 (SW14/MP14, SW22/MP22, SW23/MP23, MW20-15A/B/C)
      - Location 2: Main Quarry - Northwest Area - Coulterville Wetland Complex (SW17/MP17, SW18/MP18, SW19/MP19, SW20/MP20, MW22-02A/B, MW22-03A/B)
      - Location 3: Main Quarry - Monitoring Wells for the Main Area Mitigation System (MW-IT-01A/B, MW-IT-02A/B)
      - Location 4: South Quarry - Monitoring Wells for the South Area Mitigation System (MW-IT-03A/B, MW-IT-04A/B, MW-IT-05A/B, MW-IT-06A/B, MW-IT-07A/B)

10. Traffic

   a. Prior to shipping the licensee shall enter into an agreement with the Region of Peel for the construction of the:

      a.a. Entrance / exit
      a.b. Charleston Sideroad improvements

   b. Prior to below water operations commencing in the Main Area and prior to operations commencing in the South Area, the licensee shall enter into an agreement with the Region of Peel for a crossing underneath Main Street and Charleston Sideroad, respectively.

11. Socio-Economics

   a. The licensee shall hold an annual Community Liaison Committee meeting once a year. The Community Liaison Committee shall consist of up to 5 members of the public that live within 500 m of the licence area and representatives of the licensee. The Community Liaison Committee is intended to provide a forum for dialogue and exchange of information between the surrounding community and the licensee relative to ongoing operations, rehabilitation, monitoring, reporting and any complaints received and actions taken by the licensee. The licensee shall also invite the MNRF, Town of Caledon, the Region of Peel and the CVC to attend the Community Liaison Committee meetings.

Site Entrance Simulation
N.T.S.

Groundwater Infiltration Trench Cross Section
N.T.S.

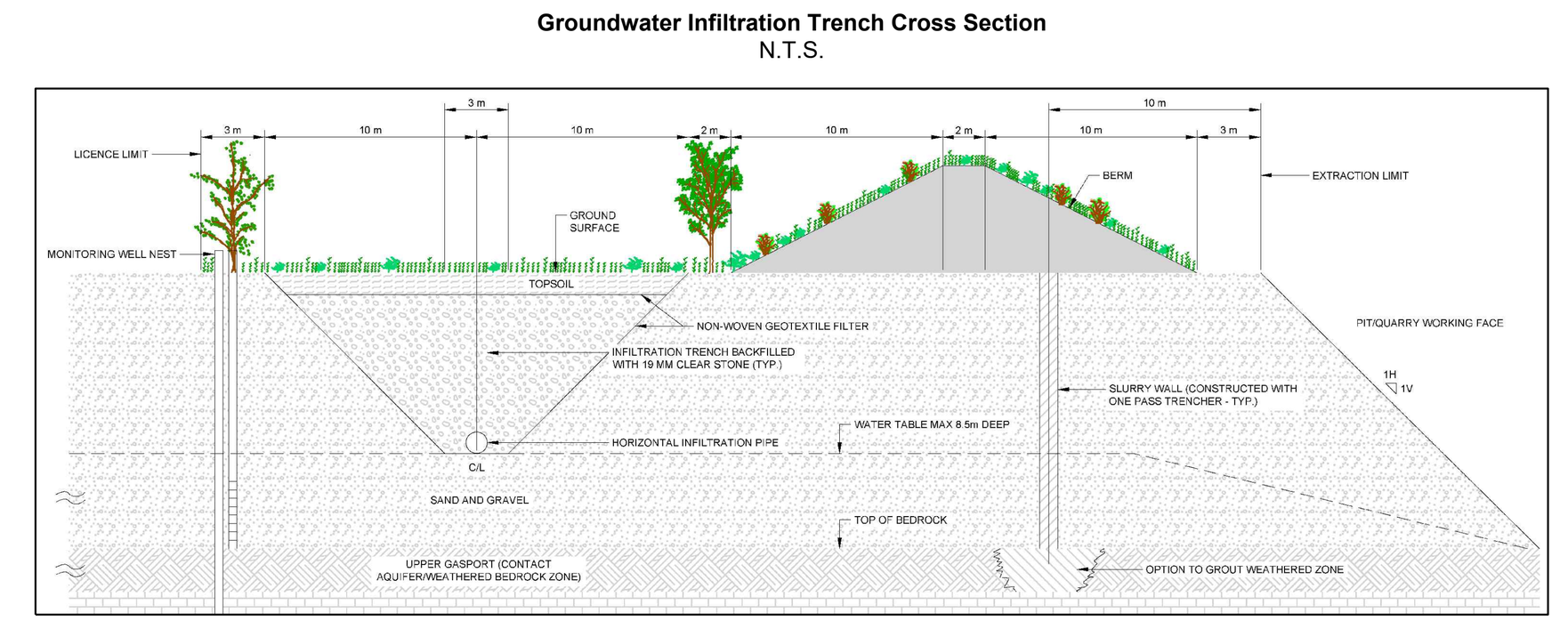

Table 3: Receptors Within 500m of Licence Boundaries

Receptor	Address	Distance	Receptor	Address	Distance
POR001	18147 Mississauga Road	260 m	POR040	18137 Cataract Road	290 m
POR002	18189 Mississauga Road	180 m	POR041	18120 Cataract Road	290 m
POR003	18205 Mississauga Road	160 m	POR042	10 Deagle Lane	210 m
POR004	18221 Mississauga Road	160 m	POR043	38 William Street	280 m
POR005	18234 Mississauga Road	280 m	POR044	42 William Street	290 m
POR006	18309 Mississauga Road	170 m	POR045	48 William Street	260 m
POR007	833 Charleston Sideroad	470 m	POR046	1498 Cataract Road	380 m
POR008	18615 Mississauga Road	150 m	POR047	33 William Street	340 m
POR009	18627 Mississauga Road	160 m	POR048	47 William Street	320 m
POR010	18682 Mississauga Road	320 m	POR049	61 William Street	330 m
POR011	18785 Mississauga Road	220 m	POR050	71 William Street	340 m
POR012	18837 Mississauga Road	260 m	POR051	77 William Street	340 m
POR013	18906 Main Street	460 m	POR052	89 William Street	330 m
POR014	18942 Main Street	580 m	POR053	26 Albert Street	340 m
POR015	18842 Main Street	240 m	POR054	1392 Cataract Road	380 m
POR016	18810 Main Street	240 m	POR055	18051 Cataract Road	440 m
POR017	18796 Main Street	200 m	POR056	1501 Cataract Road	440 m
POR018	18775 Main Street	320 m	POR057	1460 Cataract Road	400 m
POR019	18772 Main Street	100 m	POR058	1446 Cataract Road	390 m
POR020	18719 Main Street	150 m	POR059	1463 Cataract Road	450 m
POR021	18659 Main Street	150 m	POR060	1453 Cataract Road	450 m
POR022	18473 Main Street	150 m	POR061	1437 Cataract Road	460 m
POR023	18471 Main Street	150 m	POR062	1434 Cataract Road	390 m
POR024	1700 Charleston Sideroad	150 m	POR063	1432 Cataract Road	390 m
POR025	PIN 142710181	310 m	POR064	1404 Cataract Road	400 m
POR026	1626 Charleston Sideroad	150 m	POR065	1425 Cataract Road	470 m
POR027	1540 Charleston Sideroad	220 m	POR066	1411 Cataract Road	450 m
POR028	1522 Charleston Sideroad	150 m	POR067	1391 Cataract Road	450 m
POR029	1531 Charleston Sideroad	180 m	POR068	1375 Cataract Road	410 m
POR030	1529 Charleston Sideroad	150 m	POR069	1369 Cataract Road	400 m
POR031	1521 Charleston Sideroad	100 m	POR070	1357 Cataract Road	380 m
POR032	18217 Cataract Road	150 m	POR071	1341 Cataract Road	360 m
POR033	18201 Cataract Road	170 m	POR072	1327 Cataract Road	320 m
POR034	18198 Cataract Road	150 m	POR073	1342 Cataract Road	290 m
POR035	18182 Cataract Road	160 m	POR074	1311 Cataract Road	300 m
POR036	18164 Cataract Road	160 m	POR075	1297 Cataract Road	290 m
POR037	18148 Cataract Road	190 m	POR076	1275 Cataract Road	280 m
POR038	18140 Cataract Road	240 m	ROR077	1195 Cataract Road	330 m
POR039	18130 Cataract Road	260 m			

Site Plan Acronyms

1. ARA - Aggregate Resources Act
2. MECP - Ministry of the Environment, Conservation and Parks
3. MGCS - Ministry of Government and Consumer Services
4. DFO - Department of Fisheries and Oceans Canada
5. MNRF - Ministry of Natural Resources and Forestry
6. TSSA - Technical Standards and Safety Authority
7. MTCS - Ministry of Tourism, Culture and Sport
8. ECA - Environmental Compliance Approval
9. BMPP - Best Management Practices Plan
10. WWIS - Water Well Information System
11. HIA - Heritage Impact Assessment
12. CVC - Credit Valley Conservation
13. MASL - Metres above sea level
14. PTTW - Permit to Take Water
15. NTS - Not to Scale

Noise Mitigation Schematic
Scale 1:10,000

Legal Description

Part of Lots 15-18, Concession 4 WSCR and Part of Lot 16, Concession 3 WSCR (former geographic Township of Caledon)
Township of Caledon
Region of Peel

Legend

- Licence Boundary
- Additional Land Owned by Licensee
- Limit of Extraction
- 120m Offset From Licence Boundary
- Contours with Elevation — Metres above sea level (MASL)
- Pipeline — Enbridge Gas Inc.
- Public Road
- Fence — 1.2 m post & wire fence unless otherwise noted
- Driveway
- Silt Fence
- Railway
- Main Discharge
- Entrance / Exit — Operational Access
- Secondary Discharge — (Discharge not to exceed existing surface water flow)
- Entrance / Exit — Office/lab and Maintenance Access
- Berm (with 2:1 side slopes) — 5.0 m in height except for section along the western extent of the Main Area identified as 7.0 m on the plan view
- Tunnel Crossing
- General Direction of Excavation & Boundary
- Gate
- Building/Structure
- Watercourse — Permanent (Direction of flow indicated by arrows)
- Topsoil & Overburden Stockpile Area (Maximum Height 8.0 m)
- Watercourse — Intermittent (Direction of flow indicated by arrows)
- Facility Pad and Building Location Area
- Water Feature
- Archaeological Protection Area (Including 70 metre buffer)
- Wooded Area
- Infiltration Trench
- Wetland — MNRF Evaluated - Other
- Slurry Wall
- Wetland — MNRF - Unevaluated
- Spot Elevation (410.8 / 406.6 / 385.8) — Top - Existing (MASL) / Middle - Water Table (MASL) / Bottom - Maximum Depth of Extraction (MASL)
- Visual Planting Area
- Cross Sections (A1)

Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licencing)

No.	Date	Description	By
1	August 2023	Add drawing to incorporate updated technical report recommendations	C.P.

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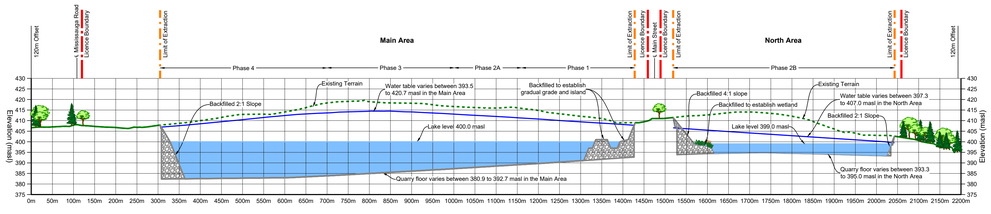
Applicant
CBM Aggregates a Division of St. Marys Cement Inc. (Canada)
55 Industrial Street
Toronto, Ontario
M4G 3W9

Project
Caledon Pit & Quarry
18722 Main Street, Caledon, Ontario

MNRF Licence Reference No. 626600
Applicant's Signature
Plan Scale: 1:5000 (Arch E)
Date August 2023
Drawn By C.P.
Checked By B.Z.
File No. 8816AF
File Name Technical Recommendations
Drawing No. 3 of 4
File Path N:\Brian\8816AF - CBM - Caledon Quarry\Drawings\Site Plan\CAD\8816AF - Site Plan.dwg



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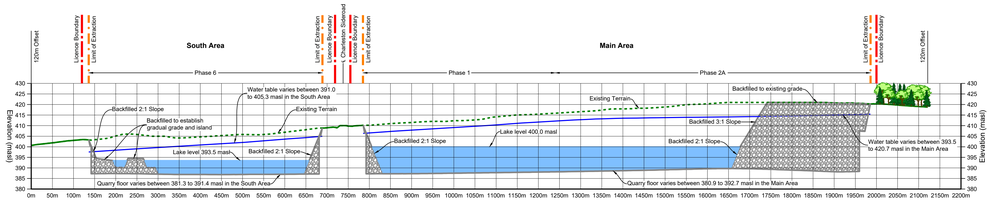

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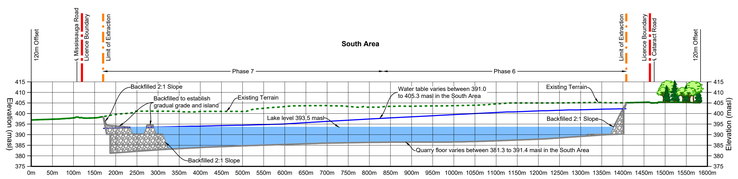

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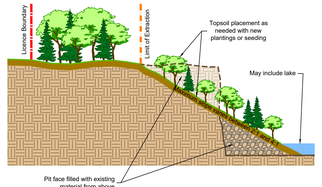
Horizontal - 1:5000 / Vertical - 1:1000

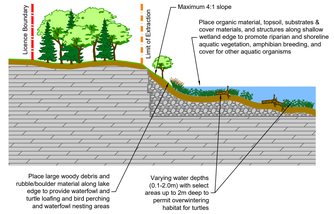
Site Plan Acronyms

1. ARA - Aggregate Resources Act
2. MECP - Ministry of the Environment, Conservation and Parks
3. MGCS - Ministry of Government and Consumer Services
4. DFO - Department of Fisheries and Oceans Canada
5. MNRF - Ministry of Natural Resources and Forestry
6. TSSA - Technical Standards and Safety Authority
7. MTCS - Ministry of Tourism, Culture and Sport
8. ECA - Environmental Compliance Approval
9. BMPP - Best Management Practices Plan
10. WWIS - Water Well Information System
11. HIA - Heritage Impact Assessment
12. CVC - Credit Valley Conservation
13. MASL - Metres above sea level
14. PTTW - Permit to Take Water
15. NTS - Not to Scale

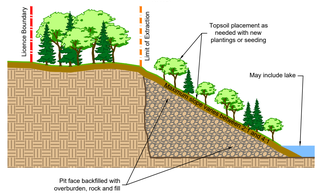
Typical Cut and Fill Side Slope Detail - Pit
N.T.S.



Typical Wetland Detail
N.T.S.



Typical Backfilled Side Slope Detail - Pit
N.T.S.



Typical Backfilled Side Slope Detail - Quarry
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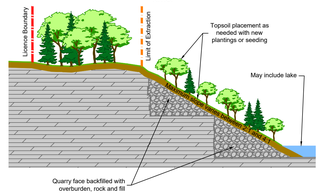

PROGRESSIVE REHABILITATION

A. General

1. Area Calculations:

1.1.	Licence (total)	**261.2 hectares**
	Main Area	151.5 hectares
	North Area	30.3 hectares
	South Area	79.4 hectares
1.2.	Limit of Extraction (total)	**199.5 hectares**
	Main Area	123.6 hectares
	North Area	16.0 hectares
	South Area	59.9 hectares
1.3.	Final rehabilitation within licence (total)	**261.2 hectares**
	Gradual grade or island	7.8 hectares
	Grassland	25.3 hectares
	Lake	157.9 hectares
	Meadow	7.6 hectares
	Wetland	1.6 hectares
	Woodland	46.2 hectares
	Existing conditions	14.8 hectares

B. Phasing

1. As excavation reaches the limit of extraction or maximum depth, progressive rehabilitation shall commence.
2. Progressive rehabilitation shall follow the general direction and sequence of extraction identified on the plan view and described in the notes on drawing 2 of 4.
3. Minor deviations in operational and rehabilitation sequence shall be permitted in order to adjust for any variable resource or market conditions.
4. Each phase of extraction shall undergo progressive rehabilitation, prior to proceeding to the next phase of extraction.
5. Progressive rehabilitation activities shall include sloping and grading, placement of overburden and topsoil, tree and shrub planting.

C. Slopes and Grading

1. Progressive rehabilitation shall consist of backfilling the excavation faces (where applicable), tunnels and quarry floors to establish the final elevations and grades depicted on the plan view of this drawing using topsoil and overburden available on-site. A portion of the extraction face in the southeast corner of Phases 5 and 7 (as shown on the plan view) shall remain vertical (see notes H.9.5 and H.11.7 on drawing 2 of 4 for additional information).
2. Upon completion of extraction in Phase 7, the slurry wall adjacent to the infiltration trenches in the southwest and southeast corner of the South Area shall be excavated and backfilled with sand.
3. Side sloping on-site will range from 2:1 to 4:1 as well as gradual grades (see Section N Variations from Control and Operation Standards on drawing 2 of 4).
4. No excess soil shall be imported on-site for rehabilitation purposes.
5. Prior to the placement of subsoil and topsoil in locations where the quarry floor has been backfilled to establish gradual grades, islands and wetlands, the quarry floor shall be ripped and tilled to alleviate compaction, if required.

D. Drainage

1. Final surface drainage will follow the rehabilitated contours and directional arrows shown on the plan view of this drawing.
2. Once operations in the North Area, South Area and Main Area have been completed and the rehabilitated landform has been established, pumping shall cease, and the land allowed to flood and form the Main, North and South ponds. The Main, North and South pond water levels post-rehabilitation are predicted to reach a level of approximately ~400, ~399 and ~393.5 masl, respectively.
3. The South pond will be self contained and not require an overflow outlet.
4. The Main pond overflow shall be directed via a culvert under Main Street to the North pond with its outlet invert at ~400 masl.
5. The North pond overflow shall be directed via main outlet to the Osprey Valley Golf Course irrigation pond system with its outlet invert at ~399 masl.
6. All rehabilitated pond levels and outlets will be passive and not require pumping.

E. Natural Environment

1. Lake Shoreline - Main, North and South Area
   - 1.1. The shoreline of the lakes shall be contoured, where possible to create convoluted or irregular shoreline gradients.
   - 1.2. Where sloping and excavation depths allow, shoals or islets shall be created to increase habitat diversity.
   - 1.3. Stumps and logs shall be placed along the shoreline as wildlife habitat structure. Boulders and rock rubble from the extraction shall also be used for wildlife habitat structure.
2. Woodland - Main Area
   - 2.1. The woodland in the Main Area, as shown on the plan view, shall be planted with tree species representative of the woodland communities that will be removed, such as sugar maple, American beech, paper birch, white elm, white cedar, balsam fir, eastern hemlock, red maple, trembling aspen, black cherry, alternate-leaved dogwood, gray dogwood, red-osier dogwood.
   - 2.2. Trees shall be planted at approximately 2.5 m spacing to achieve a density of 1600 seedlings per hectare. Two years after planting the target density shall be 1200 seedlings per hectare with a survival rate of 75%. Infill plantings shall be completed if required in year two after planting.
3. Habitat for eastern small-footed myotis and little brown myotis - Main Area
   - 3.1. Rock piles shall be placed in the locations shown on the plan view to create habitat for eastern small-footed myotis. Rock piles shall vary in size and height between 0.5 m and 2 m. Crevices shall be created through stacking slabs of flat rock varying in size from several centimeters to one meter long.
   - 3.2. Bat boxes shall be installed in the same location as the rock piles to provide habitat for little brown myotis.
4. Setback areas / Slopes - Main, North and South Area
   - 4.1. All slopes located above the final water level shall be seeded with an appropriate native, non-invasive seed mix to prevent erosion during operations.
   - 4.2. Nodal plantings shall be expanded naturally through seed rain.
   - 4.3. Along the setback to significant Woodland B, as shown on drawing 1 of 4, plant species representative of the existing woodland, such as sugar maple (Acer saccharum), American beech (Fagus grandifolia), paper birch (Betula papyrifera), American elm (Ulmus americana), white cedar (Thuja occidentalis), balsam fir (Abies balsamea), eastern hemlock (Tsuga canadensis), red maple (Acer rubrum), trembling aspen (Populus tremuloides), black cherry (Prunus serotina), alternate-leaved dogwood (Cornus alternifolia), gray dogwood (Cornus racemosa), red-osier dogwood (Cornus sericea), shall be planted.
   - 4.4. Along the setback to significant Woodland D, as shown on drawing 1 of 4, plant species representative of the existing woodland, such as sugar maple (Acer saccharum), American beech (Fagus grandifolia), red oak (Quercus rubra), paper birch (Betula papyrifera), black walnut (Juglans nigra), American elm (Ulmus americana), alternate-leaved dogwood (Cornus alternifolia), shall be planted.
   - 4.5. On north-facing slopes and setbacks which are expected to be cooler and moister, plant species such as white cedar (Thuja occidentalis), white spruce (Picea glauca), Norway spruce (Picea abies), red maple (Acer rubrum), paper birch (Betula papyrifera), American basswood (Tilia americana), shall be planted.
   - 4.6. On the east/west-facing slopes and setbacks, plant species such as white pine (Pinus strobus), white cedar (Thuja occidentalis), white spruce (Picea glauca), European larch (Larix decidua), trembling aspen (Populus tremuloides), balsam poplar (Populus balsamifera), sugar maple (Acer saccharum), black cherry (Prunus serotina), red oak (Quercus rubra), bur oak (Quercus macrocarpa), shall be planted.
   - 4.7. Within the setback and slope areas shrubs shall also be planted to add diversity and increase wildlife/pollinator diversity, such as: serviceberry (Amelanchier spp.), nannyberry (Viburnum lentago), ninebark (Physocarpus opulifolius), dogwoods (Cornus spp.), highbush cranberry (Viburnum opulus), elderberry (Sambucus spp.), choke cherry (Prunus virginiana).
5. Shoreline Wetland - Main, North and South Areas
   - 5.1. Organic material shall be placed in shallow water areas to promote the establishment of shoreline and aquatic vegetation and to create habitat for aquatic fauna and amphibians. Stumps and trees of non-commercial value shall be stockpiled during clearing operations and used as habitat structure. Boulders and rock rubble from the extraction operation shall also be used to increase habitat diversity along the shoreline area, where possible.
   - 5.2. In the shoreline wetland areas, shallow emergent marsh vegetation shall be planted in the water with species that may consist of, but are not limited to: red-osier dogwood (Cornus stolonifera), slender willow (Salix petiolaris), and herbaceous plants such as water plantain (Alisma plantage-aquatic), lake sedge (Carex lacustris), swamp milkweed (Asclepias incarnate), softstem bulrush (Schoenoplectus tabernaemontani) and common cattail (Typha latifolia).
6. Riparian Plantings - Main Area
   - 6.1. Riparian plantings along Tributary #1, as shown on drawing 2 of 4, shall include a variety of native species including, but not limited to, white cedar (Thuja occidentalis), balsam poplar (Populus balsamifera), pussy willow (Salix discolor), slender willow (Salix petiolaris), red-osier dogwood (Cornus sericea), nannyberry (Viburnum lentago), elderberry (Sambucus canadensis), meadowsweet (Spiraea sp.), fowl bluegrass (Poa palustris), lake sedge (Carex lacustris), fox sedge (Carex vulpinoidea), blue vervain (Verbena hastata), and spike rush species (Eleocharis spp.).
7. Turtle Habitat - North Area
   - 7.1. Turtle habitat shall be created in the North Area in the location shown on the plan view.
   - 7.2. The turtle habitat pond shall include sediment on the pond bottom to provide a growing medium for plants, and provide habitat for turtles (e.g., overwintering).
   - 7.3. Plant emergent macrophytes shall include species such as pickerelweed (Pontederia cordata), broad-leaved arrowhead (Sagittaria latifolia), water plantain species (Alisma spp.), cattail (Typha sp.), common arrowhead (Sagittaria latifolia), and greater water dock (Rumex hydrolapathum).
   - 7.4. Plant submergent macrophytes shall include species such as eelgrass (Zostera marina), broad waterweed (Elodea canadensis), slender naiad (Najas flexilis), common hornwort (Ceratophyllum demersum).
   - 7.5. Basking features such as logs or rocks shall be placed throughout the shallow shoreline areas.
   - 7.6. Areas of suitable nesting substrate shall be constructed along or adjacent to the shoreline.
8. Meadow in North Area
   - 8.1. Meadow habitat for eastern meadowlark and bobolink shall be created in the North Area outside of the extraction at the location shown on the plan view.
   - 8.2. A minimum of 60-80% of the meadow shall be covered by at least three different grass species, such as: poverty oatgrass (Danthonia spicata), bottlebrush grass (Elymus hystrix), common panic grass (Panicum capillare), big bluestem (Andropogon gerardi), Canada wild rye (Elymus canadensis), switch grass (Panicum virgatum), wool-grass (Scirpus cyperinus), Virginia wild rye (Elymus virginicus).
   - 8.3. At least one of the grass species shall be taller than 50 cm, which shall include at least one of the following: bottlebrush grass (1.3 m), big bluestem (>3.0 m), Canada wild rye (1.3 m), switch grass (1.6 m).
   - 8.4. Remaining 20-40% shall be covered by forbs or legumes such as Canada anemone (Anemone canadensis), black-eyed susan (Rudbeckia hirta), common evening primrose (Oenothera biennis), common milkweed (Asclepias syriaca), yarrow (Achillea millefolium), New England aster (Symphyotrichum novae-angliae), and wild bergamot (Monarda fistulosa).
   - 8.5. Meadow seed mixes shall be sown at a rate of 25kg/ha.

FINAL REHABILITATION

A. General

1. All equipment shall be removed from the site. The building/structures located at 1420 Charleston Sideroad (utilized as an office and quality control lab during operations) may remain on-site.
2. No internal haul roads shall remain.
3. The anticipated final end use will be naturalized open spaces with the creation of lakes, vegetated shorelines, islands, vertical faces, wetlands, upland forested areas, riparian plantings adjacent to the existing watercourse, nodal shrub and tree planting on upland areas, grassland meadows and specialized habitat features for bats and turtles.
4. The long term average lake levels are:
   - Main - 400.0 masl
   - North - 399.0 masl
   - South - 393.5 masl

Legal Description

Part of Lots 15-18, Concession 4 WSCR and Part of Lot 16, Concession 3 WSCR (former geographic Township of Caledon)
Township of Caledon
Region of Peel

Legend

- Licence Boundary
- Limit of Extraction
- Contours with Elevation — Metres above sea level (MASL)
- Watercourse — Permanent (Direction of flow indicated by arrows)
- Watercourse — Intermittent (Direction of flow indicated by arrows)
- Water Feature
- Wooded Area
- Wetland — MNRF Evaluated - Other
- Wetland — MNRF - Unevaluated
- Gradual Grade / Island
- Grassland
- Woodland
- Wetland
- Lake
- Meadow
- Rock Pile & Bat Box Locations (Approximate)
- Additional Land Owned by Licensee
- 120m Offset From Licence Boundary
- Pipeline — Enbridge Gas Inc.
- Main Discharge
- Secondary Discharge — (Discharge not to exceed surface water flow based on existing conditions)
- Fence — 1.2 m post & wire fence unless otherwise noted
- Extraction Face — (Below Water)
- Public Road
- Driveway
- Railway
- Gate
- Building/Structure
- Proposed Floor Elevation — Metres above sea level (MASL)
- Proposed Final Grade — (Horizontal : Vertical)
- Cross Sections

Legend - Cross Sections

- Licence Boundary
- Limit of Extraction
- Existing Grade - Removed / Altered
- Existing Grade - Undisturbed
- Maximum Predicted Water Table
- Backfilled
- Lake

Site Plan Amendments

No.	Date	Description	By

Site Plan Revisions (Pre-Licencing)

No.	Date	Description	By
1	August 2023	Revised drawing to incorporate updated technical report recommendations	C.P.

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MNRF Licence Reference No.
626600

Applicant's Signature

Plan Scale: 1:5000 (Arch E)
0 150 300 Meters

Date August 2023
Drawn By C.P.
Checked By B.Z.
File No. 8816AF

File Name

Rehabilitation Plan

Drawing No.

4 of 4

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